Analytical Results From U.S. Bureau of Mines Investigations in the Colville Mining District, Alaska

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UNIT OF MEASURE ABBREVIATIONS USED IN THIS REPORT

%	percent
°C	degree celsius
cm	centimeter
g/mt	gram per metric ton
km	kilometer
m	meter
ppb	part per billion
ppm	part per million

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ABSTRACT

The U.S. Bureau of Mines, in cooperation with the Alaska Division of Geological and Geophysical Surveys and the U.S. Geological Survey, assessed the mineral resources and the mineral development potential of the Colville Mining District. This study is a continuation of the Bureau's statewide mining district evaluation program. The northern Alaska mining district study area includes the Colville River drainage basin along with the southern and eastern part of the National Petroleum Reserve in Alaska.

This report is a complete compilation of the geochemical data base that was generated as a result of the Bureau's (1990-93) field activities in the Colville Mining District. Also included in this report is a brief summary the Bureau's 1993 field season.

During the third year of the field program (1993) regional reconnaissance was conducted in the eastern section of the mining district between Monotis Creek and Atigun Pass. Anomalous U.S. Geological Survey geochemical sample values were investigated. Site-specific investigations were also conducted on lead-zinc-silver, manganese, and phosphate occurrences within the central and eastern part of the study area. As a result, twelve previously unreported and seven previously reported mineralized areas were examined and sampled during the 1993 field season. Work completed during the 1991-92 field seasons has been summarized in OFR 75-92 and OFR 12-93, respectively. A separate open-file report will be published detailing the work completed on the mineralized occurrences and mineralized areas identified during the 1990-93 field studies. An Executive Summary outlining the complete Colville Mining District study will also be published.

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INTRODUCTION

In 1991, the U.S. Bureau of Mines (Bureau) initiated the Colville Mining District (CMD) study. Located in northern Alaska, the mining district is composed of the Colville River drainage basin as well as parts of the southern and eastern sections of the National Petroleum Reserve in Alaska (NPRA) (fig. 1). The study area contains 6.7 million hectares within the Colville River drainage and 0.35 million hectares within the NPRA (which also includes the eastern part of the Wainwright Mining District).

Ultimate objectives of this study are to; 1) identify mineral deposits of the CMD, 2) study the application of modern beneficiation technologies on known deposits, and 3) perform mining feasibility studies using hypothetical mine models. This investigation is a cooperative effort involving the Bureau, the Bureau of Land Management (BLM), the U.S. Geological Survey (USGS), and the Alaska Division of Geological and Geophysical Surveys (DGGS).

This CMD study is part of the Bureau's ongoing statewide mining district evaluation program. During 1991 through 1993, the Bureau conducted both reconnaissance sampling of the arctic foothills part of the study area and conducted detailed examinations and delineations of selected mineral occurrences in the study area. This report briefly summarizes the work completed during the 1993 field season and is the third in a series of annual summary reports covering the Bureau's CMD field work. Also contained in this report are the analytical results and sample locations for the entire 1990-93 project as well as an up-to-date bibliography. Work completed by the Bureau during the first two years of the study has been summarized in OFR 75-92 and OFR 12-93, respectively (248-249)[2].

LAND STATUS

Land ownership in the CMD includes those lands managed by the BLM, the National Park Service (NPS), the State of Alaska, Native regional and village corporations, and private parties. BLM manages the NPRA, which is open for oil and gas exploration but unavailable for mineral location and development. The NPS manages the Gates of the Arctic National Park, Preserve, and Wilderness, which is closed to oil, gas, and mineral exploration and development. The State of Alaska has made land selections within the area including some lands that are and are not available for mineral exploration and development. Native regional and village corporations have also made similar land selections in the area. Small parcels of private inholdings are located within the study area. Some of these lands may be available for mineral exploration and development subject to the management policies of the state and private land owners.

LOCATION AND ACCESS

Located in northern Alaska, the CMD comprises most of the west-central part of the northern slope of the Brooks Range (fig. 1). This area is bounded by the Colville River drainage

[2]Underlined numbers in parentheses refer to the references found in the bibliography preceding the appendix.

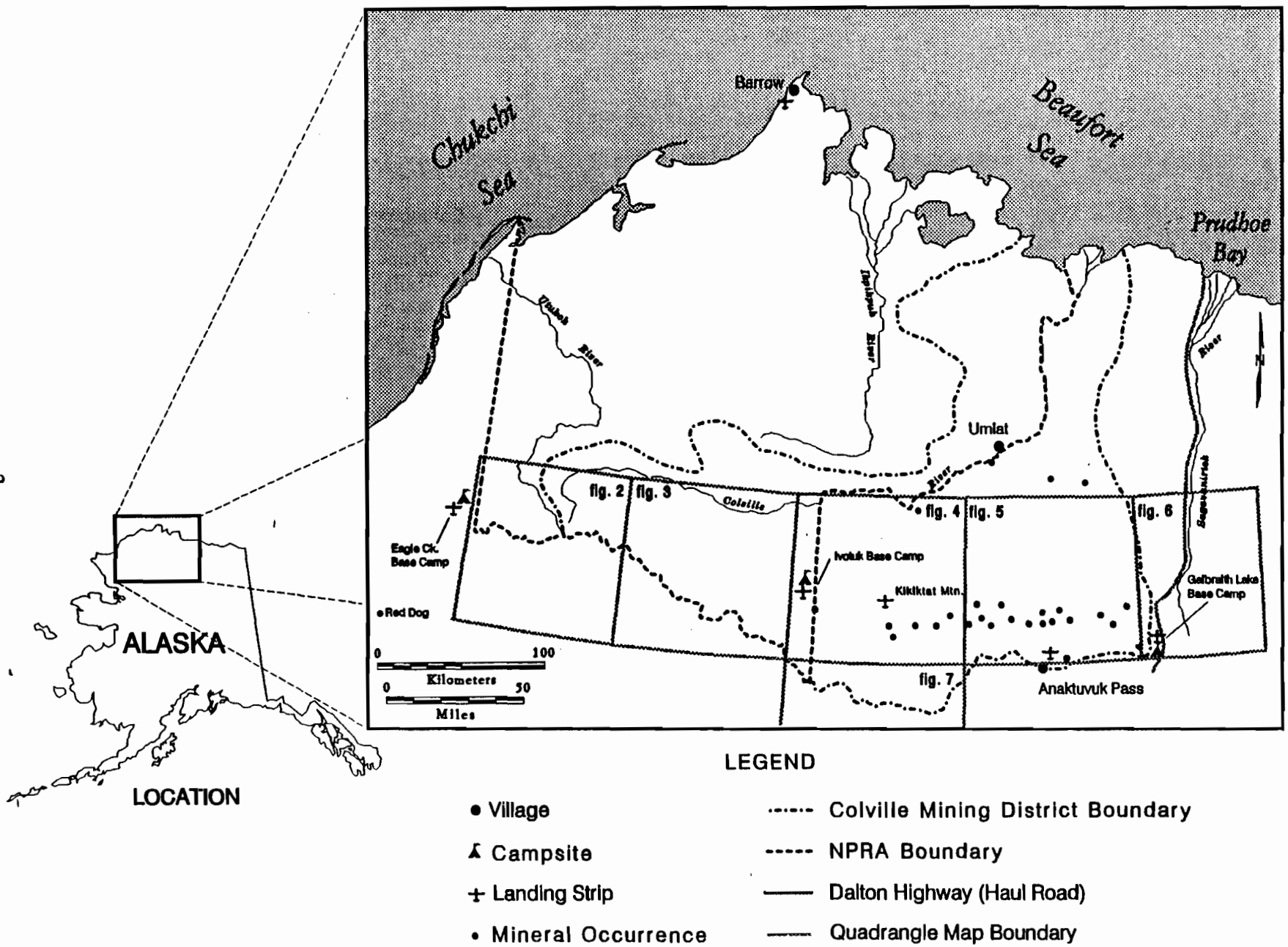

FIGURE 1. - Location Map of the CMD study area.

basin and the Arctic Ocean to the north. Three physiographic provinces covering the area include; 1) the Arctic Coastal Plain, 2) the Arctic Foothills, and 3) the Central and Eastern Brooks Range. The Arctic Coastal Plain physiographic division is characterized by a low lying plain rising to the south from the Arctic Ocean eventually reaching an elevation of 183 m. This area is poorly drained containing many marshes and braided meandering sluggish rivers. Numerous shallow lakes occur in the low lying areas. An occasional abrupt scarp, up to 61 m high, separates the coastal plain from the foothills. The Arctic Foothills physiographic division, consisting of rolling plateaus and low linear ridges, is subdivided into the northern and southern foothills. Rising in elevation from 183 to 1,068 m, the northern foothills have broad east-west-trending ridges dominated by mesa-like mountains. This area contains north-flowing swift braided rivers crossing broad gravel flats that locally contain extensive sheets of aufeis. Morainal lakes are located along the upper valleys of the major rivers as well as some divides. The southern foothills are characterized by irregular buttes, knobs, mesas, east-west-trending ridges ranging from 366 to 1,068 m, and intervening gently undulating tundra plains. The Central and Eastern Brooks Range physiographic division is composed of rugged, glaciated, east-west-trending ridges with elevations ranging from 915 to 2,135 m (396). The steep nature of the area creates swift moving streams and rivulets often occurring as waterfalls and cascades. Small cirque glaciers are common in the higher parts of this division and often contain tarn lakes. Higher elevations in the Brooks Range are devoid of trees, having only lichens covering the rocky slopes. At lower elevations, the vegetation grades into typical tundra species with stunted alder and willow along the river gravel bars.

Anaktuvuk Pass is the only year-round village within the study area while Umiat has a small summer population. Anaktuvuk Pass is located on the southeastern boundary of the study area at the headwaters of the John and Anaktuvuk Rivers. Umiat is located on the north bank of the Colville River 120 km south of the Beaufort Sea.

There are no roads, highways, or railroads located within the study area. A few useable gravel airstrips are located within the study area, and these are situated at Umiat, Ivotuk, Kikiktat Mountain, and Anaktuvuk Pass. An airstrip, located 32 km west of the study area, along Eagle Creek, is useful for access to the western part of the study area. Access to the villages and base camps within the study area is by aircraft from either Barrow, Bettles, Deadhorse, Fairbanks, or Kotzebue. Located just outside the eastern boundary of the study area, the Dalton Highway and the Galbraith Lake airstrip can be used for access to the eastern part of the CMD.

CLIMATE

The CMD lies within a zone of continuous permafrost (396). Average summer temperatures range between -2° and 7° C and winter temperatures average between -32° and -21° C in Barrow (194). Mid-day summer temperatures of 29° C have been experienced at both the Ivotuk and Eagle Creek airstrips. Strong winds blow persistently throughout the year, generally from either the southwest or northeast at Ivotuk and from the southwest or southeast at Eagle Creek. Summer afternoon rainstorms and thunderstorms arrive from the south and southwest while morning fog banks move in from the Arctic Ocean either from the northeast or the northwest.

Average annual precipitation at Anaktuvuk Pass is 25 cm with 145 cm falling as snow.

Precipitation occurs mostly as snow, but scattered light rain is common during the summer months, along with occasional afternoon thunderstorms (194). Occasional snow squalls and hail storms occur throughout the summer in the upper foothills area.

Due to the long winter season as well as the extreme weather conditions, field work is limited to the time period from early to mid June through early August. Early, spring snow creates conditions which include all north facing drainages being snow filled, numerous snowdrifts occurring within the drainages, aufeis conditions developing along several stream channels, and the higher elevations being snow covered. Most drainages and higher elevations, excluding glaciated areas, are snow-free by the end of June. Occasional snow flurries reach the lower elevations during the summer months but the snow usually melts quickly. Winter snow begins collecting at the higher elevations during the first two weeks of August.

ACKNOWLEDGMENTS

The author would like to acknowledge all of those Bureau and seasonal employees that helped make the 1993 field season a success. Bureau employees included Joe Kurtak along with the geologic field assistants Russ Hicks, Ed Klimasauskas, Allan Nakanishi, Matt Nelson, and Steve Oswald. The author would also like to thank Jennifer Claxton for her good cooking and cheerful disposition during the entire project.

GEOLOGIC SETTING

The southern part of the CMD is located within a fold and thrust belt which extends across northern Alaska and includes the western Brooks Range and the Arctic Foothills. This belt consists of Upper Devonian to Upper Cretaceous prodelta, deltaic, and shallow marine sedimentary rocks that have been subdivided into allochthons by thrust faulting. Imbricate and generally south-dipping thrust faulting and associated north-vergent folding have shortened and juxtaposed the sedimentary rocks obscuring their original depositional relationships. Various late Tertiary and Quaternary glacial and alluvial sediments overly the rocks (347).

The southern allochthon includes undifferentiated Mississippian to Cretaceous Nanushuk (Opikruak Formation), Etivluk, and Lisburne Groups. Thrust into this group are allochthonous rocks from the Upper Devonian to Lower Cretaceous Endicott (Hunt Fork Shale, Kanayut Conglomerate, and Kayak Shale) and Lisburne Groups. To the north and abutting the southern allochthon are the rocks from the Lower Cretaceous undifferentiated Nanushuk Group (Okpikruak, Kongakut, and Torok Formations interbedded with the Fortress Mountain Formation). Further northward and overlying the previous allochthons are rocks from the Middle to Upper Cretaceous Colville and Nanusuk Groups. The Colville Group outcrops eastward and the Nanusuk Group outcrops to the west (270).

Metallic mineral occurrences found within the CMD occur as either sediment-hosted stratiform massive sulfide deposits, sediment-hosted bedded barite deposits, breccia-vein deposits, or in metalliferous black shales (347). Only one known sediment-hosted stratiform sulfide deposit occurs within the Endicott Group. Sediment-hosted bedded barite deposits occur in the Etivluk Group. Breccia-vein deposits occur within the Endicott Group and metalliferous black shales occur within the Kayak Shale of the Endicott Group (347).

PREVIOUS STUDIES

Investigations of Alaska's northern slope were started by the USGS for mineral and fuel resources in the early 1900's (43-44, 225, 349-350). Additional investigations occurred during the 1920's (357), with a lull in exploration during the 1930's, followed by renewed interest during the 1940's and 1950's for oil (306). A USGS metallic mineral resource appraisal program was conducted between 1974 and 1982 (102, 241, 291-295, 382). Cobb published the first summary of metallic resources of northern Alaska in 1975 including mineral occurrences within the CMD study area (105). An update report of the metallic resources was published in 1981 (110).

Currently the USGS, with assistance from the DGGS, is conducting an Alaska Mineral Resource Appraisal Program (AMRAP) study on the Killik River quadrangle. The USGS completed an administrative report summarizing the historical geologic, geochemical, and geophysical work performed within the Howard Pass, western Killik River, and Misheguk Mountain quadrangles (347).

Private companies as well as Native corporations have carried out exploration programs within the NPRA and CMD study area. Regional reconnaissance studies were conducted during the late 1950's and early 1960's, while site-specific studies were conducted at Drenchwater Creek, Story Creek, and Kivliktort Mountain during the 1980's (347). The 1990's have brought a renewed interest by private industry and Native Corporations in the mineral potential of the central Brooks Range. This interest is a result of the opening of the world-class Red Dog lead-zinc-silver mine in 1990 in the southern DeLong Mountains.

Appraisal of the mineral resources in the southern part of the NPRA was conducted by the Bureau and the USGS during 1977 and 1978. During the field investigations, the USGS performed regional geological mapping to determine the geological setting of the NPRA, and mapped zones of mineral potential. Regional geochemical surveys were also conducted by the USGS (291-295). Eighty drainages with anomalous metal values were identified from the original USGS geochemical surveys. The Bureau used the analytical results and preliminary interpretation from these studies in selecting areas of anomalous concentrations of specific elements for further detailed mineral sampling and investigations. Bureau field work consisted of traversing those drainages containing the geochemical anomalies in search of the source rock. Stream sediments and select rock samples were collected from the drainages to define and identify further zones of mineralization. Due to time constraints, the Bureau examined only 25 of the drainages with lead-zinc anomalies during the two years of field work (192-196).

Additional sulfide mineralization was identified and sampled by the Bureau in widely scattered areas along the geochemical trends which track the region's east-west geological structure. Barium, chromium, fluorite, phosphate, rare-earth elements (e.g. lanthanum), scandium, yttrium, and vanadium were also noted within the NPRA (192-196).

PRESENT BUREAU STUDY

In 1990, the Bureau conducted an orientation survey of the area. During 1991 through 1993, the Bureau in cooperation with the BLM - Arctic District Office, the USGS, and the DGGS, conducted exploration, geological, geochemical, geophysical, mineral resource, and

mineral potential investigations in the CMD and the southern part of the NPRA. Reconnaissance sampling in the southern part of the study area along with detailed examinations and delineations of selected mineral occurrences and mineralized areas were conducted by the Bureau (248-249). Mine feasibility studies were also conducted as were bulk sampling of various occurrences for beneficiation studies. Detailed geologic and gravity surveys as well as sampling were completed on several occurrences (217).

Locations of the samples taken during the 1990-93 field seasons are shown on figures 2 - 7. Mineral occurrences and mineralized areas examined are shown on figure 8. The attached appendix contains information on each sample taken during the study including: sample numbers with corresponding map numbers, name and/or location of the mineral occurrence or sample locality, the U.S. public land survey grid, year the sample was collected, sample site and type, basic rock type, and the analytical results.

In the discussion below, analytical results are referenced by their sample location and number as well as map number. Sample location refers to the actual geographic location or occurrence name where a sample was collected in the field. Sample number refers to the number that was assigned to a sample when it was collected in the field. Map number refers to the numbering system used on figures 2 through 7 that is used to geographically represent the locations of samples. Some map numbers represent more than one sample number due to the close spacing of sample locations.

SAMPLING

Rock samples consisted of fresh, altered, or mineralized material collected from either outcrop, rubblecrop, or float near real or apparent mineral occurrences. Rock samples collected were of seven types; 1) continuous chip: rock fragments broken in a continuous line for a measured distance across an exposure of an apparently homogenous mineral occurrence, 2) random chip: rock fragments collected at random points from an apparently homogenous mineralized occurrence, 3) spaced chip: rock fragments collected at measured points from an apparently homogenous mineral occurrence, 4) chip channel: rock fragments collected along a channel of uniform width and depth across the exposure of mineralized rock, 5) representative chip: rock fragments depicting an exposure of mineralized rock, 6) select: rock collected from the highest grade portion of a mineralized zone, and 7) grab: rock collected more or less at random from an outcrop or from float.

Soil samples were collected from the thin C horizon characteristic of arctic soils beneath a 0.3- to 0.8-m-thick tundra cover.

Stream sediment samples composed of silt-sized material were collected from the active part of stream beds.

ANALYTICAL PROCEDURES

Rock samples were ground to -140 mesh and analyzed by inductively coupled plasma (ICP) spectroscopy. Any sample suspected of containing elevated levels of either silver, copper, lead, zinc, or platinum-group metals (PGM) were fire assayed or analyzed by atomic absorption spectroscopy. Soil and stream sediment samples were sieved through an 80-mesh screen prior

to analysis. Detection limits for the elements that were analyzed by atomic emission spectroscopy - ICP, fire assay - directly coupled plasma (DCP), and quantitative analysis - fire assay (FA) methods are listed by year in tables 1 through 4. Fluorometric analysis was used to analyze for uranium. Specific gravity values for barite were determined by the USGS (207).

RESULTS

This report is a complete compilation of the geochemical data base generated as a result of the 1990-93 field seasons as listed in the appendix and shown on figures 2 - 7. A brief summary of the findings from the 1993 field seasons is also presented. Included in the back of this report is an up-to-date bibliography covering the CMD study area. This report is not a comprehensive or conclusive discussion of the entire CMD project, it should be used in conjunction with all the ancillary reports published on the CMD (247-248). An Executive Summary (250) and a detailed property summary open-file report (217) of the CMD study will be published at a later date.

1990 Field Program

In 1990, the Bureau conducted an 8-day field orientation of the southcentral CMD and its known mineralization (247). Nine anomalous areas and mineralized occurrences (figs. 3-4) were visited and sampled, including Drenchwater Creek, Isikut Mountain, Kivliktort Mountain East, Kivliktort Mountain West, Koiyaktot Mountain West, Lisburne Ridge, Otuk Creek, Safari Creek, and Story Creek.

1991 Field Program

A three-year CMD field-study program was started by the Bureau in 1991. Reconnaissance investigations were conducted between Rampart Creek to the west, and the Okokmilaga River to the east for lead, zinc, copper, silver, barium, manganese, chromium, as well as other types of minerals. Previously identified USGS geochemical stream sediment anomalies were investigated during the 56-day field season, and a total of 736 samples were collected. Nineteen mineral occurrences, including twelve occurrences that were previously unreported, were identified, examined, and sampled. Anomalously high concentrations of antimony, arsenic, barium, cadmium, manganese, nickel, strontium, and titanium were found in several drainages (248). Site-specific investigations of Drenchwater Creek, Kady, Kivliktort Mountain East, Kivliktort Mountain West, Koiyaktot Mountain East, Koiyaktot Mountain West, and Story Creek were also conducted (fig. 8). Table 1 lists the newly identified and previously identified mineral occurrences examined during the 1991 field season. Bulk samples were collected at Drenchwater Creek, Story Creek, and Ivotuk Hills for beneficiation studies (248).

1992 Field Program

During the 1992 field season, Bureau personnel conducted the second year of the CMD study. A total of 56 days were spent working in the area between Spike Creek to the west, and Ivotuk Creek to the east. A total of 350 rock, soil, and stream sediment samples were collected.

TABLE 1. - Mineral occurrences examined during the 1991 field season

Newly identified	Previously identified
Ivotuk Hills	Drenchwater Creek
Kakivilak Creek	Kady
Kakivilak Creek North	Kivliktort Mountain East
Koiyaktot Mountain West	Kivliktort Mountain West
Kurupa River Southwest	Koiyaktot Mountain East
Outwash Creek North	Story Creek
Outwash Creek Northeast	Vidlee
Outwash Creek South	
Outwash Creek Southeast	
Outwash Creek South-Southwest	
Outwash Creek Southwest	
Outwash Creek West	

Two base camps were utilized by independent crews, one at Eagle Creek (56 days) and the other at Ivotuk (30 days). Eagle Creek crew members conducted a geologic reconnaissance sampling program of the area between Spike Creek and Bogie Creek (figs. 2-3) collecting 126 samples. No visible lead, zinc, or copper mineralization was noted. Although analytical results confirm that significant mineralization was not found in any of the samples, barite, phosphate, and quartz crystal mineralization may be worth additional study (249). Ivotuk crew members conducted site-specific investigations and geological and geochemical reconnaissance sampling in the area from Rolling Pin Creek to Ivotuk Creek (fig. 3) and collected 224 samples. Site-specific investigations of the Abby, Bion, Ekakevik, Lakeview, Longview, Stack, Tuck; Drenchwater, Safari, and Story Creeks; Story Creek West; and the Lisburne Ridge occurrences were conducted (249). Table 2 lists the newly identified and previously identified mineral occurrences examined during the 1992 field season.

1993 Field Program

Bureau personnel conducted the third and final year of field work in the eastern part of the CMD during the 1993 field season. A total of 56 days were spent conducting field investigations in the area between Monotis Creek to the west and Atigun Pass to the east (figs. 5-6). Several site-specific studies were conducted on lead-zinc-silver, manganese, and phosphate occurrences

TABLE 2. - Mineral occurrences examined during the 1992 field season

Newly identified	Previously identified
Lakeview	Abby
Longview	Bion
Safari Creek	Drenchwater Creek
	Ekakevik
	Lisburne Ridge
	Stack
	Story Creek
	Story Creek West
	Tuck

in this area and in the central Ivotuk area. Site-specific investigations of Cobblestone Mountain North, Kiruktagiak River, Monotis Creek, Safari Creek, Skimo Creek East, Skimo Creek West, and Tiglukpuk Creek North were conducted (figs. 4-6). Table 3 lists the newly and previously identified mineral occurrences and mineralized areas examined during the 1993 field season. A total of 487 rock, soil, and stream sediment samples were collected. One base camp was set up at Galbraith Lake 37 km north of Atigun Pass, and was utilized by both field crews.

Sampling in the CMD study area consisted of traversing both ridges and stream drainages in an attempt to verify anomalous values indicated from previous USGS geochemical sampling (383). Traverses were concentrated along the central and southeastern part of the CMD between Monotis Creek to the west, and Atigun Pass to the east.

Anomalous levels of lead, manganese, phosphate, silver, and zinc were identified during the 1993 field season (figs. 4-6). Anomalous zinc (sphalerite) levels were found in concretions within the Kayak Shale which extends from Chandler Lake eastward to the Itkillik River area. These high zinc localities include the Mt Stuver; Welcome Creek; Cockedhat, Fan, Oolah, and Three Mountains; and the Itkillik, Nanushuk, and Siksikpuk River areas. Anomalous levels of lead (galena) were noted in the Siksikpuk River area while anomalous manganese was found in siltstones at Cobblestone Mountain. Along the front of the Brooks Range, anomalous phosphate levels occur within interbedded Lisburne Group shale, chert, and limestone.

Mineralized Areas

Table 3 lists twelve previously unreported and seven previously reported mineralized areas which were examined and sampled during the 1993 field season (figs. 4-6). Previously reported mineralized areas include Cobblestone Mountain North, Kiruktagiak River, Monotis Creek,

TABLE 3. - Mineralized areas examined during the 1993 field season

Newly identified	Previously identified
Anaktuvuk River East	Cobblestone Mountain North
Cockedhat Mountain Southwest	Kiruktagiak River
Confusion Creek	Monotis Creek
Encampment Creek	Skimo Creek East
Encampment Creek East	Skimo Creek West
Encampment Creek West	Tiglukpuk Creek North
Ikagiak Creek East	
Ipnavik River East	
Ipnavik River West	
Itkillik River Northwest	
Siksikpuk River	
Siksikpuk River West	

Skimo Creek East, Skimo Creek West, and Tiglukpuk Creek North. Previously unreported mineralized areas include Anaktuvuk River East, Cockedhat Mountain Southwest, Confusion Creek, Encampment Creek, Encampment Creek East, Encampment Creek West, Ikagiak Creek East, Ipnavik River East, Ipnavik River West, Itkillik River Northwest, Siksikpuk River, and Siksikpuk River West.

Anaktuvuk River East phosphate mineralization is located at the headwaters of the Anaktuvuk River along the south side of Fan Mountain (fig. 8). Phosphate occurs in Lisburne Group limestone. Two samples (4550-01; map nos. CL94, CL96) contained 0.17 and 0.06% P_2O_5, respectively (fig. 5).

Cobblestone Mountain North manganese mineralization is located along Cobblestone Creek 16 km northeast of Nanushuk Lake (fig. 8). Manganese occurs in a greenish-brown silty mudstone with manganese oxide-coated quartz veinlets. The mineralized zone is 7-m-wide and trends northeast. Eleven samples (4442, 4444, 4446-55; map nos. CL 173-5) taken in the area contained 0.51 - 11.69% manganese, two samples (4442, 4448; map no. CL175) contained 1,229 - 1,780 ppm arsenic, and one sample (4449; map no. CL175) contained >2,000 ppm strontium (fig. 5).

Cockedhat Mountain Southwest zinc mineralization is located at the headwaters of a western tributary of the Itkillik River on the south side of Cockedhat Mountain (fig. 8). Visible sphalerite is associated with quartz and calcite in dark brown interbedded siltstone and mudstone

concretions of the Kayak Formation. Four samples (4605, 4625-26, 4629; map nos. CL136, CL143) taken in the area contain 1,214 - 11,962 ppm zinc and 27 - 101 ppm lead (fig. 5).

Confusion Creek zinc mineralization is located near the headwaters of Confusion Creek 6 km east of Invalurak Mtn (fig. 8). Visible sphalerite is associated with quartz and calcite in dark brown interbedded siltstone and mudstone concretions of the Kayak Formation. Two samples (4753, 4759; map nos. CL53, CL55) taken in the area contained 13,120 and 16,172 ppm zinc, respectively (fig. 5).

Zinc mineralization was located at three areas of Encampment Creek. Visible sphalerite is associated with quartz and calcite in dark brown interbedded siltstone and mudstone concretions of the Kayak Formation. The first mineralized area is located near the headwaters of the main fork of Encampment Creek 3 km northwest of Invalurak Mtn (fig. 8). Two samples (4771-72; map nos. CL46-7) from the area contained 4,094 and 5,249 ppm zinc (fig. 5). Encampment Creek East is located near the headwaters of Encampment Creek on the north side of Invalurak Mtn (fig. 8). Three samples (4495, 4754, 4757; map nos. CL48-9) taken in the area contain 3,131 - 11,254 ppm zinc (fig. 5). Encampment Creek West is located on the divide between Encampment Creek and the Siksikpuk River 5 km northwest of Invalurak Mtn (fig. 8). Three samples (4768-70; map no. CL45) taken in the area contained 1,187 - 12,108 ppm zinc (fig. 5).

Ikagiak Creek East lead-zinc-manganese mineralization is located at the headwaters of Ikagiak Creek 11 km east of Little Chandler Lake (fig. 8). Visible sphalerite and galena is associated with quartz and calcite in dark brown interbedded siltstone and mudstone concretions of the Kayak Formation. Seven samples (4485, 4809-14; map nos. CL31-5) contained 18 ppm - 0.02% lead, 13 ppm - 0.74% zinc, and from 318 - 15,788 ppm manganese (fig. 5).

Lead-zinc-silver mineralization was located in two areas of the Ipnavik River. Ipnavik River East is located near the headwaters of the Ipnavik River 12 km west of Kavaksurak Mountain (fig. 8). Disseminated sphalerite and galena is associated with quartz veinlets in a gray silicified sandstone. Five samples (6005, 6042-45; map nos. HP78-80) from the area contained 177 ppm - 1,920 ppm lead, 56 ppm - 3.39% zinc, and up to 9.2 g/mt silver (fig. 3). Ipnavik River West is located near the headwaters of the Ipnavik River 16 km west of Kavaksurak Mountain (fig. 8). Visible sphalerite and/or galena occurs within quartz stringers that cut silicified, bleached, and/or brecciated sandstones of the Kanuyut Formation. Fourteen samples (6001-02, 6008, 6026-36; map nos. HP83-4, HP86-7, HP91) taken in the area contain 55 ppm - 36.44% lead, 86 ppm - 3.99% zinc, up to 438.8 g/mt silver, and 13 - 3,688 ppm copper (fig. 3).

Itkillik River Northwest lead-zinc-silver mineralization is located at the headwaters of an eastern tributary of the Itkillik River 18 km east of Marshmallow Mountain (fig. 8). Visible galena is associated with calcite and quartz veinlets in siltstone. Three samples (4552-53, 4578; map nos. CL147, CL149) taken in the area contain 24 ppm - 0.67% lead, 3 ppm - 0.01% zinc and up to 1.7 g/mt silver (fig. 5).

Kiruktagiak River phosphate mineralization is located on the Kiruktagiak River upstream from the junction with Monotis Creek 8 km northwest of White Lake (fig. 8). Oölitic phosphate is associated with a 25-cm-thick paper shale interbedded with limestone and chert on the north limb of the east-west-trending Monotis anticline. Eighteen samples (4502-13, 4525-30; map nos. CL10-3) taken along the anticline contained from 0.16 - 26.28% P_2O_5 (fig. 5).

Monotis Creek phosphate mineralization is located on Monotis Creek upstream from the junction with Kiruktagiak River 9 km northwest of White Lake (fig. 8). Oölitic phosphate is associated with black shales, limestones, and cherts on the north limb of the east-west-trending Monotis anticline. Fifteen samples (4381-84, 4514-24; map nos. CL14-5) taken along the anticline contained 0.11 - 30.68% P_2O_5 and up to 1,258 ppm zinc (fig. 5).

The Safari Creek lead-zinc-silver occurrence is located at the headwaters of eastern Safari Creek 20 km southwest of Mount Bupto (fig. 8). Safari Creek was located in 1992 (248) and revisited in 1993. Visible galena is associated with quartz veins that form a northwest trending 10-m-wide stockwork zone in sandstone. A high-grade sample (6047; map no. HP96) taken from the zone contained 53.36% lead, 2.05% zinc, and 310.96 g/mt silver (fig. 3).

Zinc mineralization was located in two areas of the Siksikpuk River. Visible sphalerite is associated with quartz and calcite in dark brown interbedded siltstone and mudstone concretions of the Kayak Formation. The Siksikpuk River is located at the headwaters of the central fork of Siksikpuk River 13 km east of Little Chandler Lake (fig. 8). One sample (4829; map no. CL38) taken in the area contained 13,152 ppm zinc (fig. 5). Siksikpuk River West is located on a western tributary of the central fork of Siksikpuk River 10 km east of Little Chandler Lake (fig. 8). Four samples (4777-78, 4825, 4833; map nos. CL30, CL36-7) taken in the area contained 1,827 - 7,107 ppm zinc (fig. 5).

Phosphate was located at two locations an Skimo Creek. Skimo Creek East phosphate is located on the east side of Skimo Creek 16 km northeast of Invalurak Mtn (fig. 8). Oölitic phosphatic rock occurs in calcareous and fossiliferous black shale interbedded with chert and limestone on the north limb of an east-west- trending anticline. Twenty two samples (4581-83, 4593-94, 4597, 4652-55, 4657-68; map nos. CL57-9) taken along the anticline contained 0.03 - 23.72% P_2O_5 and up to 2,047 ppm zinc (fig. 5). Skimo Creek West phosphate is located on the west side of Skimo Creek 14 km northeast of Invalurak Mtn (fig. 8). Oölitic phosphatic rock occurs in interbedded calcareous shale and limestone on the north limb of east-west-trending anticline. Eight samples (4639-44, 4646-47; map no. CL56) taken along the anticline contained 1.23 - 22.50% P_2O_5 and up to 1,995 ppm zinc (fig. 8).

Tiglukpuk Creek North phosphate is located on Tiglukpuk Creek 17 km northeast of Invalurak Mtn (fig. 8). Oölitic phosphatic rock occurs in interbedded carbonaceous black chert and limestone on the north limb of an east-west-trending anticline. Eight samples (4612-17, 4637-38; map no. CL60) taken along the anticline contained 0.94 - 25.46% P_2O_5 and up to 2,044 ppm zinc (fig. 5).

SUMMARY

A relatively small amount of mineral related investigative work had been conducted in the CMD prior to this study. The Bureau had the opportunity to conduct reconnaissance and site-specific investigations in the southern part of the CMD during the 1990-93 field seasons while the USGS has been conducting AMRAP investigations along the southern CMD.

During 1990, the Bureau conducted an orientation field program to obtain an overview of the study area and its mineralization. Nine mineral occurrences were visited including Drenchwater Creek, Isiktut Mountain, Kivliktort Mountain East and West, Koiyaktot Mountain West, Lisburne Ridge, Otuk Creek, Safari Creek, and Story Creek.

The 1991 field season was the first year of an intense field program. The Bureau identified, located, and sampled nineteen mineral occurrences including Drenchwater Creek, Ivotuk Hills, Kady, Kakivilak Creek, Kakivilak Creek North, Kivliktort Mountain East and West, Koiyaktot Mountain East and West, Kurupa River Southwest, Outwash Creek North, Outwash Creek Northeast, Outwash Creek South, Outwash Creek Southeast, Outwash Creek South-Southwest, Outwash Creek Southwest, Outwash Creek West, Story Creek, and Vidlee. Anomalous mineral values were also noted in the Cutaway Creek, Koiyaktot Mountain, Kurupa River, Mt. Bupto, Outwash Creek, Rampart Creek, Twistem Creek, and the Wager Creek areas.

The 1992 field season identified, located, and sampled twelve mineral occurrences including Abby, Bion, Drenchwater Creek, Ekakevik, Lakeview, Lisburne Ridge, Longview, Safari Creek, Stack, Story Creek, Story Creek West, and Tuck. Other areas containing anomalous mineralization include the Eagle Creek, Lisburne Ridge, and Twistem Creek areas.

Field work, during 1993, resulted in the discovery of twelve new mineralized areas as well as examining six previously identified mineral occurrences. Areas of interest include those mineralized areas at Anaktuvuk River East, Cobblestone Mountain Southwest, Confusion Creek, Encampment Creek, Encampment Creek East and West, Ikagiak Creek East, Ipnavik River East and West, Itkillik River Northwest, Siksikpuk River, and Siksikpuk River West. Previously identified mineralized occurrences examined include Cobblestone Mountain North, Kiruktagiak River, Monotis Creek, Skimo Creek East and West, and Tiglukpuk Creek North. Anomalous mineralization was noted in the upper Kayak Shale which extends from Chandler Lake area eastward to the Itkillik River area.

Due to the lack of historical mineral investigations in the CMD, the Bureau was able to identify fifteen new mineral occurrences and twelve new mineralized areas during the 1991-93 field seasons. Because of the time constraints and vastness of the area only cursory examinations and sampling were conducted on most of these locations. Those mineral occurrence which were deemed significant had detailed site-specific examinations conducted on them. More detailed examinations are needed on the smaller mineral occurrences and mineralized areas identified during the 1991-93 field seasons. These examinations need to better delineate and define the existing deposits as well as further delineate their identifiable resources.

TABLE 4. - 1990 Sample Analysis Lower Detection Limits

Element	Lower limit (ppm)	Upper limit (ppm)
ICP-Atomic Emission Spectroscopy		
Ag	0.2	50
Al	0.02%	10.00%
As	5	2,000
Ba	1	2,000
Bi	5	2,000
Ca	0.05%	10.00%
Cd	1	2,000
Co	1	20,000
Cr	1	20,000
Cu	1	20,000
Fe	0.01%	10.00%
Ga	1	2,000
K	0.05%	10.00%
La	1	2,000
Li	1	2,000
Mg	0.05%	10.00%
Mn	0.01%	10.00%
Mo	1	20,000
Na	0.05%	10.00%
Nb	1	2,000
Ni	1	20,000
Pb	0.0002%	1.0%
Sb	5	2,000
Sn	20	2,000
Sr	1	2,000
Ta	1	2,000
Te	10	2,000
V	1	2,000
W	10	2,000
Y	1	2,000
Zn	0.0002%	2.0%
Zr	1	2,000
Quantitative Analysis		
Pb	0.01%	10.00%
Zn	0.01%	4.00%
Fire Assay		
Ag	0.02 oz/t	Not reported
PGM-Nickel Sulfide Fire Assay/INAA		
Au	1 ppb	10,000 ppb

TABLE 5. - 1991 Sample Analysis Lower Detection Limits

Quantitative Analysis - FA			
Ba...	0.01%	Mn...	0.01%
Cr...	0.01%	Pb...	0.01%
Cu...	0.01%	Zn...	0.01%
Fire Assay - DCP			
Ag...	0.02 oz/t	Au...	1 ppb
Atomic Emission Spectroscopy - ICP			
Ag...	0.5 ppm	Mo...	1 ppm
Al...	0.01%	Na...	0.01%
As...	5 ppm	Nb...	5 ppm
Ba...	5 ppm	Ni...	1 ppm
Bi...	5 ppm	Pb...	2 ppm
Ca...	0.01%	Sb...	5 ppm
Cd...	2 ppm	Sn...	20 ppm
Co...	1 ppm	Sr...	1 ppm
Cr...	2 ppm	Ta...	5 ppm
Cu...	1 ppm	Te...	25 ppm
Fe...	0.01%	Ti...	0.01%
Ga...	10 ppm	V....	2 ppm
K....	0.01%	W....	20 ppm
La...	5 ppm	Y....	5 ppm
Li...	2 ppm	Zn...	2 ppm
Mg...	0.01%	Zr...	5 ppm
Mn...	5 ppm		

TABLE 6. - 1992 Sample Analysis Lower Detection Limits

Quantitative Analysis - FA			
$BaSO_4$...	0.01%	P_2O_5...	0.03%
Pb...	0.01%	Zn...	0.01%
Fire Assay - DCP			
Ag...	0.02 oz/t	Au...	1 ppb
Atomic Emission Spectroscopy - ICP			
Ag...	0.5 ppm	Mo...	1 ppm
Al...	0.01%	Na...	0.01%
As...	5 ppm	Nb...	5 ppm
Ba...	5 ppm	Ni...	1 ppm
Bi...	5 ppm	Pb...	2 ppm
Ca...	0.01%	Sb...	5 ppm
Cd...	2 ppm	Sn...	20 ppm
Co...	1 ppm	Sr...	1 ppm
Cr...	2 ppm	Ta*...	5-100 ppm
Cu...	1 ppm	Te...	25 ppm
Fe...	0.01%	Ti...	0.01%
Ga...	10 ppm	V....	2 ppm
K....	0.01%	W....	20 ppm
La...	5 ppm	Y....	5 ppm
Li...	2 ppm	Zn...	2 ppm
Mg...	0.01%	Zr...	5 ppm
Mn...	5 ppm		
FLUOROMETRIC			
U...	0.2 ppm		

*Background interference, solubility, and line calibration problems at the lab may effect the lower detection limits.

TABLE 7. - 1993 Sample Analysis Lower Detection Limits

Quantitative Analysis - FA			
Ba...	0.01%	Pb...	0.01%
Cd...	0.005%	P_2O_5...	0.03%
Mn...	0.01%	Zn...	0.01%
Fire Assay - DCP			
Ag...	0.02 oz/t		
Atomic Emission Spectroscopy - ICP			
Ag...	0.5 ppm	Mo...	1 ppm
Al...	0.01%	Na...	0.01%
As...	5 ppm	Nb...	5 ppm
Ba...	5 ppm	Ni...	1 ppm
Bi...	5 ppm	Pb...	2 ppm
Ca...	0.01%	Sb...	5 ppm
Cd...	2 ppm	Sn...	20 ppm
Co...	1 ppm	Sr...	1 ppm
Cr...	2 ppm	Ta...	100 ppm
Cu...	1 ppm	Te...	25 ppm
Fe...	0.01%	Ti...	0.01%
Ga...	10 ppm	V....	2 ppm
K....	0.01%	W....	20 ppm
La...	5 ppm	Y....	5 ppm
Li...	2 ppm	Zn...	2 ppm
Mg...	0.01%	Zr...	5 ppm
Mn...	5 ppm		

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Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
CL1	4372	1993		Canoe Hills	Colville	Sandstone	Float	Random chip	Chandler Lake	C–5	09S	04W	19	SE	Umiat	
CL2	4394	1993		Canoe Hills	Colville	Shale	Outcrop	Grab	Chandler Lake	C–5	09S	04W	32	SW	Umiat	
CL3	4373	1993		Aylyak Creek	Colville	Chert	Rubblecrop	Select	Chandler Lake	C–5	11S	04W	8	SW	Umiat	
CL3	4374	1993		Aylyak Creek	Colville			Stream sed	Chandler Lake	C–5	11S	04W	8	SE	Umiat	
CL4	4418	1993		Castle Mtn	Colville	Sandstone	Outcrop	Select	Chandler Lake	C–5	10S	03W	32	SW	Umiat	
CL5	4413	1993		Castle Mtn	Colville	Sandstone	Outcrop	Select	Chandler Lake	C–5	10S	03W	32	SW	Umiat	
CL5	4414	1993		Castle Mtn	Colville	Sandstone	Outcrop	Select	Chandler Lake	C–5	10S	03W	32	SW	Umiat	
CL5	4415	1993		Castle Mtn	Colville	Sandstone	Outcrop	Select	Chandler Lake	C–5	10S	03W	32	SW	Umiat	
CL5	4416	1993		Castle Mtn	Colville	Sandstone	Outcrop	Select	Chandler Lake	C–5	10S	03W	32	SW	Umiat	
CL5	4417	1993		Castle Mtn	Colville	Sandstone	Outcrop	Select	Chandler Lake	C–5	10S	03W	32	SW	Umiat	
CL6	4411	1993		Castle Mtn	Colville	Sandstone	Float	Grab	Chandler Lake	C–5	10S	03W	32	NE	Umiat	
CL6	4412	1993		Castle Mtn	Colville	Sandstone	Float	Grab	Chandler Lake	C–5	10S	03W	32	NE	Umiat	
CL7	4410	1993		Castle Mtn	Colville	Sandstone	Float	Grab	Chandler Lake	C–5	10S	03W	29	SE	Umiat	
CL8	4401	1993		Castle Mtn	Colville			Stream sed	Chandler Lake	C–5	10S	03W	25	SE	Umiat	
CL8	4402	1993		Castle Mtn	Colville			Stream sed	Chandler Lake	C–5	10S	03W	25	SE	Umiat	
CL8	4403	1993		Castle Mtn	Colville	Sandstone	Outcrop	Select	Chandler Lake	C–5	10S	03W	25	SE	Umiat	
CL8	4404	1993		Castle Mtn	Colville	Sandstone	Outcrop	Select	Chandler Lake	C–5	10S	03W	25	SE	Umiat	
CL8	4405	1993		Castle Mtn	Colville	Sandstone	Rubblecrop	Grab	Chandler Lake	C–5	10S	03W	25	SE	Umiat	
CL8	4406	1993		Castle Mtn	Colville	Sandstone	Rubblecrop	Grab	Chandler Lake	C–5	10S	03W	25	SE	Umiat	
CL8	4407	1993		Castle Mtn	Colville	Sandstone	Float	Grab	Chandler Lake	C–5	10S	03W	25	SE	Umiat	
CL9	4408	1993		Castle Mtn	Colville	Sandstone	Outcrop	Select	Chandler Lake	C–5	10S	02W	30	SW	Umiat	
CL9	4409	1993		Castle Mtn	Colville	Sandstone	Outcrop	Select	Chandler Lake	C–5	10S	02W	30	SW	Umiat	
CL10	4512	1993	Kiruktagiak River	Kiruktagiak River	Colville	Shale	Outcrop	Contin chip	Chandler Lake	B–5	12S	04W	28	NW	Umiat	
CL10	4513	1993	Kiruktagiak River	Kiruktagiak River	Colville	Shale	Outcrop	Grab	Chandler Lake	B–5	12S	04W	28	NW	Umiat	
CL11	4502	1993	Kiruktagiak River	Kiruktagiak River	Colville	Limestone	Outcrop	Contin chip	Chandler Lake	B–5	12S	04W	28	NW	Umiat	
CL11	4503	1993	Kiruktagiak River	Kiruktagiak River	Colville	Limestone	Outcrop	Contin chip	Chandler Lake	B–5	12S	04W	28	NW	Umiat	
CL11	4504	1993	Kiruktagiak River	Kiruktagiak River	Colville	Limestone	Outcrop	Contin chip	Chandler Lake	B–5	12S	04W	28	NW	Umiat	
CL11	4505	1993	Kiruktagiak River	Kiruktagiak River	Colville	Carb shale	Outcrop	Contin chip	Chandler Lake	B–5	12S	04W	28	NW	Umiat	
CL11	4506	1993	Kiruktagiak River	Kiruktagiak River	Colville	Shale	Outcrop	Contin chip	Chandler Lake	B–5	12S	04W	28	NW	Umiat	
CL11	4507	1993	Kiruktagiak River	Kiruktagiak River	Colville	Carb shale	Outcrop	Contin chip	Chandler Lake	B–5	12S	04W	28	NW	Umiat	
CL11	4508	1993	Kiruktagiak River	Kiruktagiak River	Colville	Limestone	Outcrop	Contin chip	Chandler Lake	B–5	12S	04W	28	NW	Umiat	
CL11	4509	1993	Kiruktagiak River	Kiruktagiak River	Colville	Shale	Outcrop	Contin chip	Chandler Lake	B–5	12S	04W	28	NW	Umiat	
CL11	4510	1993	Kiruktagiak River	Kiruktagiak River	Colville	Carb shale	Outcrop	Contin chip	Chandler Lake	B–5	12S	04W	28	NW	Umiat	
CL11	4511	1993	Kiruktagiak River	Kiruktagiak River	Colville	Carb shale	Float	Select	Chandler Lake	B–5	12S	04W	28	NW	Umiat	
CL12	4530	1993	Kiruktagiak River	Kiruktagiak River	Colville	Limestone	Float	Select	Chandler Lake	B–5	12S	04W	28	NW	Umiat	
CL13	4525	1993	Kiruktagiak River	Kiruktagiak River	Colville	Chert	Rubblecrop	Repr chip	Chandler Lake	B–5	12S	04W	29	NE	Umiat	
CL13	4526	1993	Kiruktagiak River	Kiruktagiak River	Colville	Shale	Rubblecrop	Contin chip	Chandler Lake	B–5	12S	04W	29	NE	Umiat	
CL13	4527	1993	Kiruktagiak River	Kiruktagiak River	Colville	Carb shale	Outcrop	Contin chip	Chandler Lake	B–5	12S	04W	29	NE	Umiat	
CL13	4528	1993	Kiruktagiak River	Kiruktagiak River	Colville	Shale	Rubblecrop	Select	Chandler Lake	B–5	12S	04W	29	NE	Umiat	
CL13	4529	1993	Kiruktagiak River	Kiruktagiak River	Colville	Limestone	Outcrop	Contin chip	Chandler Lake	B–5	12S	04W	29	NE	Umiat	
CL14	4381	1993	Monotis Creek	Monotis Creek	Colville	Shale	Rubblecrop	Contin chip	Chandler Lake	B–5	12S	04W	28	NW	Umiat	
CL14	4382	1993	Monotis Creek	Monotis Creek	Colville	Limestone	Outcrop	Contin chip	Chandler Lake	B–5	12S	04W	28	NW	Umiat	
CL14	4383	1993	Monotis Creek	Monotis Creek	Colville	Shale	Rubblecrop	Contin chip	Chandler Lake	B–5	12S	04W	28	NW	Umiat	
CL14	4384	1993	Monotis Creek	Monotis Creek	Colville	Limestone	Outcrop	Contin chip	Chandler Lake	B–5	12S	04W	28	NW	Umiat	
CL14	4514	1993	Monotis Creek	Monotis Creek	Colville	Shale	Rubblecrop	Contin chip	Chandler Lake	B–5	12S	04W	29	NE	Umiat	
CL14	4515	1993	Monotis Creek	Monotis Creek	Colville	Shale	Rubblecrop	Contin chip	Chandler Lake	B–5	12S	04W	29	NE	Umiat	
CL14	4516	1993	Monotis Creek	Monotis Creek	Colville	Shale	Rubblecrop	Contin chip	Chandler Lake	B–5	12S	04W	29	NE	Umiat	
CL14	4517	1993	Monotis Creek	Monotis Creek	Colville	Shale	Rubblecrop	Contin chip	Chandler Lake	B–5	12S	04W	29	NE	Umiat	
CL14	4518	1993	Monotis Creek	Monotis Creek	Colville	Limestone	Outcrop	Contin chip	Chandler Lake	B–5	12S	04W	29	NE	Umiat	
CL14	4519	1993	Monotis Creek	Monotis Creek	Colville	Shale	Rubblecrop	Contin chip	Chandler Lake	B–5	12S	04W	29	NE	Umiat	
CL14	4520	1993	Monotis Creek	Monotis Creek	Colville	Chert	Outcrop	Contin chip	Chandler Lake	B–5	12S	04W	29	NE	Umiat	
CL14	4521	1993	Monotis Creek	Monotis Creek	Colville	Chert	Outcrop	Contin chip	Chandler Lake	B–5	12S	04W	29	NE	Umiat	
CL15	4522	1993	Monotis Creek	Monotis Creek	Colville	Limestone	Rubblecrop	Grab	Chandler Lake	B–5	12S	04W	29	NE	Umiat	
CL15	4523	1993	Monotis Creek	Monotis Creek	Colville	Chert	Outcrop	Contin chip	Chandler Lake	B–5	12S	04W	29	NE	Umiat	
CL15	4524	1993	Monotis Creek	Monotis Creek	Colville	Limestone	Float	Select	Chandler Lake	B–5	12S	04W	29	N Cent	Umiat	
CL16	4389	1993		Kiruktagiak River trib	Colville			Stream sed	Chandler Lake	B–5	13S	04W	18	NW	Umiat	
CL17	4355	1993		Irikaklik Creek	Colville	Sandstone	Rubblecrop	Select	Chandler Lake	B–5	13S	04W	28	NW	Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
CL1	4372	<0.5	6.48	<5		1556			17	1.57	<2.0	22	119		77		6.09	20	0.56	12	37	2.21	1079		2
CL2	4394	<0.5	8.07	11		1001			17	2.39	<2.0	14	133		59		4.69	21	1.47	27	69	1.89	605		2
CL3	4373	<0.5	0.86	25		>2000			<5	0.36	<2.0	6	284		39		1.09	<10	0.14	<5	33	0.33	805		<1
CL3	4374	<0.5	5.48	<5		511			5	0.46	<2.0	21	127		33		4.45	18	1.11	19	42	0.91	1953		6
CL4	4418	<0.5	6.73	22		1026			22	0.64	<2.0	18	139		85		6.86	23	1.49	13	61	1.94	817		5
CL5	4413	<0.5	6.60	378		1043			25	0.39	<2.0	17	122		63		6.45	23	1.54	9	56	1.72	563		6
CL5	4414	<0.5	6.44	15		1494			23	0.35	<2.0	9	124		69		6.44	26	1.85	7	59	1.52	416		26
CL5	4415	<0.5	6.11	53		1095			13	0.50	<2.0	11	137		61		5.76	22	1.56	6	55	1.53	452		133
CL5	4416	<0.5	6.58	30		1112			12	0.79	<2.0	13	146		80		6.1	23	1.49	9	56	1.63	483		13
CL5	4417	<0.5	6.62	29		1132			17	1.14	<2.0	18	121		74		6.17	24	1.61	9	61	1.68	579		23
CL6	4411	<0.5	2.80	31		1408			5	0.15	<2.0	4	442		21		2.03	13	0.72	33	14	0.22	175		<1
CL6	4412	<0.5	0.17	<5		307			<5	0.02	3	<1	221		10		0.44	<10	0.03	<5	42	0.03	64		5
CL7	4410	<0.5	5.41	254		>2000			<5	0.57	<2.0	9	216		53		6.42	16	1.03	13	28	1.24	429		28
CL8	4401	<0.5	5.86	23		1132			16	0.74	<2.0	15	98		44		4.03	18	1.08	20	42	1.21	676		5
CL8	4402	<0.5	5.40	<5		1393			14	0.64	<2.0	20	129		29		4.13	16	0.84	16	34	1.10	994		3
CL8	4403	<0.5	6.55	23		1059			27	0.39	<2.0	16	117		93		6.69	28	2.21	8	72	1.66	588		4
CL8	4404	<0.5	6.20	35		905			25	0.41	<2.0	21	106		67		6.57	27	1.86	7	73	1.97	882		4
CL8	4405	<0.5	1.40	47		1128			20	>10.00	<2.0	7	22		14		1.35	15	0.28	9	10	0.34	5181		2
CL8	4406	<0.5	1.00	15		383			31	>10.00	<2.0	7	16		15		0.78	17	0.25	17	8	0.28	7055		4
CL8	4407	<0.5	3.50	44		384			30	>10.00	<2.0	15	201		30		3.78	17	0.31	19	35	1.31	5304		<1
CL9	4408	<0.5	6.46	123		1147			18	2.49	<2.0	37	207		82		6.35	16	0.84	18	54	1.81	1189		18
CL9	4409	<0.5	6.34	67		599			23	0.78	<2.0	35	205		71		6.35	20	0.71	13	53	1.79	614		10
CL10	4512	<0.5	2.64	39		278			8	6.78	<2.0	16	89		44		2	<10	0.78	23	21	0.98	299		2
CL10	4513	<0.5	2.59	49		275			<5	>10.00	<2.0	6	123		31		1.49	<10	0.82	21	18	0.70	129		5
CL11	4502	4.9	0.96	21		111			7	>10.00	9.1	3	400		43		0.48	<10	0.45	71	7	2.09	55		11
CL11	4503	10.5	1.27	16		137			18	>10.00	9.3	5	671		97		0.67	<10	0.61	86	15	0.95	75		27
CL11	4504	11.5	1.37	<5		209			12	>10.00	83.2	3	585		86		0.69	<10	0.64	83	11	1.06	74		48
CL11	4505	6.3	0.95	27		155			21	>10.00	70.7	6	335		60		0.51	<10	0.42	41	7	1.00	98		34
CL11	4506	21.7	1.40	42		254			17	>10.00	102.6	3	1038		162		0.69	<10	0.63	88	12	0.46	56		77
CL11	4507	10.9	1.05	61		1006			17	>10.00	90.5	2	393		78		0.46	<10	0.45	122	7	0.49	73		68
CL11	4508	1.0	0.12	8		69			15	>10.00	<2.0	11	78		20		0.18	11	0.04	24	<2	0.91	273		11
CL11	4509	<0.5	2.95	49		737			7	9.66	<2.0	15	108		42		1.74	11	0.91	31	21	0.94	213		22
CL11	4510	<0.5	1.79	44		369			11	>10.00	<2.0	9	50		36		0.94	<10	0.67	21	12	0.69	338		7
CL11	4511	2.1	0.21	<5		348			<5	>10.00	10.9	2	135		23		0.12	10	0.07	101	2	0.29	60		10
CL12	4530	2.5	0.31	41		139			19	>10.00	3.3	1	207		22		0.34	<10	0.11	30	3	0.12	61		2
CL13	4525	1.8	0.30	13		68			14	>10.00	<2.0	1	233		17		0.22	<10	0.09	10	4	1.89	47		7
CL13	4526	9.7	1.56	20		132			17	>10.00	57.7	8	557		74		0.71	<10	0.60	55	11	0.68	62		26
CL13	4527	3.6	0.36	18		88			15	>10.00	6.3	<1	394		48		0.24	<10	0.12	212	3	0.94	36		8
CL13	4528	2.4	0.17	<5		121			15	>10.00	20.8	<1	128		29		0.08	11	0.05	59	3	0.21	46		13
CL13	4529	2.6	0.28	6		130			5	5.85	2.6	<1	369		29		0.38	<10	0.09	8	9	0.09	50		2
CL14	4381	10.9	1.03	10		333			9	>10.00	50.5	3	568		79		0.59	<10	0.47	132	11	0.37	40		29
CL14	4382	6.3	0.95	63		439			18	>10.00	70.2	6	316		75		0.52	<10	0.40	160	9	0.68	66		65
CL14	4383	12.8	1.03	17		391			15	>10.00	91.1	<1	660		86		0.62	<10	0.42	96	9	0.22	40		61
CL14	4384	2.2	0.11	13		121			18	>10.00	21.7	<1	186		25		0.08	10	0.03	86	2	0.07	19		14
CL14	4514	12.4	2.14	32		272			10	7.06	46.7	6	614		96		1.22	<10	0.89	98	17	1.86	87		43
CL14	4515	16.6	1.33	33		506			14	>10.00	116.1	3	960		119		0.78	<10	0.54	118	10	0.21	53		100
CL14	4516	11.6	2.04	13		334			10	8.34	59.5	5	741		106		1.19	<10	0.93	75	18	1.41	84		45
CL14	4517	16.6	1.78	52		229			14	>10.00	101.4	7	680		115		1.04	<10	0.71	95	12	0.63	81		57
CL14	4518	2.5	0.15	15		160			12	>10.00	33.6	2	231		26		0.12	10	0.05	95	<2	0.06	15		7
CL14	4519	14.4	1.29	31		212			18	>10.00	88.1	6	780		115		0.75	<10	0.52	75	10	0.25	59		66
CL14	4520	1.0	0.29	<5		104			<5	3.69	<2.0	12	307		24		0.62	<10	0.09	21	6	0.24	66		53
CL14	4521	0.8	0.12	<5		70			<5	0.40	<2.0	<1	446		14		0.36	<10	0.03	<5	3	0.01	33		5
CL15	4522	4.6	0.23	27		231			8	>10.00	12.1	<1	243		36		0.16	<10	0.09	209	2	0.42	34		12
CL15	4523	0.8	0.14	<5		131			<5	0.23	<2.0	<1	396		12		0.32	<10	0.04	<5	7	0.01	32		6
CL15	4524	2.0	0.11	5		248			8	>10.00	3.3	1	222		19		0.11	<10	0.04	74	<2	0.15	31		3
CL16	4389	<0.5	4.98	33		441			18	>10.00	<2.0	14	87		45		3.05	21	0.78	23	54	1.16	443		<1
CL17	4355	<0.5	2.00	<5		271			<5	0.04	<2.0	252	125		205		>10.00	21	0.22	9	19	0.17	4913		2

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
CL1	4372	2.93	19	59	15					<5	<20	104	<100	<25	0.74	<9.0	221	<20	19	97		88	
CL2	4394	1.18	16	61	30					<5	<20	117	<100	<25	0.49	<9.0	215	<20	22	130		109	
CL3	4373	0.10	<5	26	11					<5	<20	68	<100	<25	0.04	<9.0	15	<20	<5	55		<5	
CL3	4374	0.94	14	56	19					<5	22	68	<100	<25	0.35	<9.0	108	<20	16	134		90	
CL4	4418	2.04	13	64	35					<5	<20	108	<100	<25	0.65		245	<20	18	115		123	
CL5	4413	1.62	14	56	41					11	24	71	<100	<25	0.60		206	<20	16	98		124	
CL5	4414	1.81	13	49	28					<	<20	151	<100	<25	0.58		223	<20	14	101		130	
CL5	4415	1.83	12	46	24					<5	25	99	<100	<25	0.62		226	<20	14	97		124	
CL5	4416	1.90	13	47	26					<5	37	104	<100	<25	0.64		231	<20	18	101		122	
CL5	4417	1.64	13	62	36					<5	24	119	<100	<25	0.62		222	<20	18	114		126	
CL6	4411	1.58	37	14	12					<5	<20	55	<100	<25	0.09		20	<20	38	61		350	
CL6	4412	0.05	<5	6	14					<5	<20	9	<100	<25	<0.01		22	<20	<5	14		8	
CL7	4410	1.81	9	42	36					<5	21	138	<100	<25	0.47		243	<20	16	65		115	
CL8	4401	1.33	14	46	18					<5	<20	87	<100	<25	0.45	<9.0	134	<20	18	102		87	
CL8	4402	1.63	13	43	11					<5	<20	81	<100	<25	0.51	<9.0	136	<20	16	103		82	
CL8	4403	1.55	13	61	18					<5	<20	133	<100	<25	0.62		245	<20	16	122		133	
CL8	4404	1.77	12	63	29					15	<20	95	<100	<25	0.57		237	<20	14	136		118	
CL8	4405	0.34	<5	12	18					16	27	358	<100	<25	0.09		56	<20	9	20		<5	
CL8	4406	0.18	<5	9	15					25	<20	282	<100	<25	0.07		54	<20	5	12		14	
CL8	4407	1.20	7	36	16					35	<20	229	<100	<25	0.62		203	<20	23	77		42	
CL9	4408	1.99	11	90	37					<5	<20	130	<100	<25	0.68		224	<20	23	153		97	
CL9	4409	2.23	12	81	39					<5	<20	97	<100	<25	0.72		211	<20	21	116		92	
CL10	4512	0.22	9	81	<2				0.34	6	<20	121	<100	<25	0.24	2.3	111	<20	22	171		80	
CL10	4513	0.16	8	45	<2				0.16	23	<20	170	<100	<25	0.17	3.3	89	<20	20	108		50	
CL11	4502	0.11	<5	91	6				2.74	<5	<20	117	<100	<25	0.04	10.0	96	<20	129	300		15	
CL11	4503	0.14	<5	163	2				2.88	<5	<20	133	<100	<25	0.06	10.9	191	<20	148	404		22	
CL11	4504	0.24	<5	192	<2				12.35	8	<20	371	<100	<25	0.06	40.0	700	<20	155	1427		28	
CL11	4505	0.21	<5	122	<2				12.71	<5	<20	460	<100	<25	0.05	45.0	672	<20	79	1142		25	
CL11	4506	0.35	<5	275	<2				11.57	20	<20	380	<100	<25	0.06	40.0	1528	<20	173	1464		46	
CL11	4507	0.43	<5	164	<2				20.60	15	<20	654	<100	<25	0.05	87.0	1214	<20	234	1448		36	
CL11	4508	0.04	<5	49	<2				2.73	20	<20	241	<100	<25	<0.01	29.0	86	<20	30	88		<5	
CL11	4509	0.24	10	79	<2				0.38	9	<20	136	<100	<25	0.21	6.8	104	<20	34	144		76	
CL11	4510	0.09	6	57	<2				0.24	<5	<20	201	<100	<25	0.11	6.5	76	<20	21	106		37	
CL11	4511	0.24	<5	33	<2				26.28	<5	<20	764	<100	<25	<0.01	68.0	423	<20	196	203		13	
CL12	4530	0.06	<5	29	7				5.94	<5	<20	249	<100	<25	<0.01	17.4	157	<20	57	66		<5	
CL13	4525	0.05	<5	45	5				0.48	<5	<20	88	<100	<25	0.01	3.5	68	<20	14	100		<5	
CL13	4526	0.08	<5	221	14				2.31	<5	<20	122	<100	<25	0.03	11.9	361	<20	103	943		14	
CL13	4527	0.10	<5	80	9				13.48	<5	<20	311	<100	<25	<0.01	42.0	131	<20	439	239		<5	
CL13	4528	0.13	<5	43	13				19.88	<5	<20	512	<100	<25	<0.01	47.0	386	<20	109	225		7	
CL13	4529	0.03	<5	50	3				0.31	<5	<20	33	<100	<25	0.02	1.8	54	<20	14	140		<5	
CL14	4381	0.15	<5	165	10				11.18	<5	<20	316	<100	<25	0.02	42.0	636	<20	224	725		6	
CL14	4382	0.23	<5	141	31				21.48	<5	<20	550	<100	<25	0.02	63.0	657	<20	249	1127		12	
CL14	4383	0.17	<5	126	17				16.27	17	<20	485	<100	<25	0.02	63.0	1493	<20	170	953		9	
CL14	4384	0.19	<5	41	16				30.68	29	<20	821	<100	<25	<0.01	119.0	683	<20	162	364		<5	
CL14	4514	0.22	<5	269	<2				3.24	8	<20	114	<100	<25	0.04	27.0	395	<20	170	977		14	
CL14	4515	0.36	<5	169	31				23.70	13	<20	599	<100	<25	0.07	56.0	2000	<20	223	1258		49	
CL14	4516	0.21	<5	264	24				4.19	5	<20	136	<100	<25	0.02	25.0	438	<20	124	1028		11	
CL14	4517	0.15	<5	165	25				13.98	7	<20	379	<100	<25	0.01	54.0	1063	<20	176	1077		<5	
CL14	4518	0.19	<5	63	16				24.45	10	<20	588	<100	<25	<0.01	98.0	414	<20	194	460		10	
CL14	4519	0.53	<5	199	19				14.74	<5	<20	443	<100	<25	0.03	50.0	1397	<20	137	1192		16	
CL14	4520	0.05	<5	99	11				2.25	10	<20	58	<100	<25	<0.01	38.0	72	<20	36	150		<5	
CL14	4521	0.03	<5	23	9				0.27	<5	<20	9	<100	<25	<0.01	2.3	18	<20	6	37		<5	
CL15	4522	0.16	<5	52	11				23.77	15	<20	574	<100	<25	<0.01	82.0	277	<20	420	197		<5	
CL15	4523	0.02	<5	16	10				0.11	<5	<20	6	<100	<25	<0.01	1.1	22	<20	6	32		<5	
CL15	4524	0.14	<5	18	14				22.42	<5	<20	602	<100	<25	<0.01	82.0	298	<20	155	76		<5	
CL16	4389	0.31	13	51	21					<5	<20	219	<100	<25	0.29	<9.0	114	<20	14	115		76	
CL17	4355	0.11	33	344	26					<5	<20	29	<100	<25	0.17	<9.0	80	<20	17	181		49	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
CL18	4395	1993		Little Chandler L West	Colville	Breccia	Rubblecrop	Grab	Chandler Lake	B–5	13S	04W	28	SE	Umiat	
CL19	4359	1993		Ivikaklik Creek	Colville	Sandstone	Float	Select	Chandler Lake	B–5	14S	04W	7	NE	Umiat	
CL19	4360	1993		Ivikaklik Creek	Colville	Sandstone	Float	Select	Chandler Lake	B–5	14S	04W	5	SW	Umiat	
CL20	4380	1993		Amilyoak Lake	Colville	Sandstone	Float	Select	Chandler Lake	A–5	16S	04W	3	NE	Umiat	
CL21	4379	1993		Amilyoak Lake	Colville			Stream sed	Chandler Lake	A–5	15S	04W	35	SW	Umiat	
CL22	4501	1993		Amiloyak Lake East	Colville	Sandstone	Outcrop	Grab	Chandler Lake	A–5	15S	04W	35	NW	Umiat	
CL23	4385	1993		Ikaglak Creek S Fork	Colville	Sandstone	Float	Select	Chandler Lake	A–5	14S	03W	15	NW	Umiat	
CL24	4375	1993		Ikaglak Creek	Colville			Stream sed	Chandler Lake	B–5	14S	03W	4	NE	Umiat	
CL24	4376	1993		Ikaglak Creek	Colville			Stream sed	Chandler Lake	B–5	14S	03W	4	NE	Umiat	
CL24	4377	1993		Ikaglak Creek	Colville	Sandstone	Float	Select	Chandler Lake	B–5	14S	03W	4	NE	Umiat	
CL24	4378	1993		Ikaglak Creek	Colville	Conglomerate	Float	Stream	Chandler Lake	B–5	14S	03W	4	NE	Umiat	
CL25	4428	1993		Siksikpuk River	Colville	Chert	Float	Grab	Chandler Lake	B–5	13S	02W	32	SE	Umiat	
CL26	4427	1993		Siksikpuk River	Colville	Sandstone	Float	Grab	Chandler Lake	B–4	13S	02W	34	NW	Umiat	
CL27	4425	1993		Siksikpuk River	Colville	Sandstone	Float	Grab	Chandler Lake	B–4	13S	02W	15	NE	Umiat	<9.00
CL27	4426	1993		Siksikpuk River	Colville	Sandstone	Float	Grab	Chandler Lake	B–4	13S	02W	15	NE	Umiat	<9.00
CL28	4396	1993		Siksikpuk River trib	Colville	Chert	Rubblecrop	Select	Chandler Lake	B–4	13S	02W	23	NW	Umiat	
CL28	4397	1993		Siksikpuk River trib	Colville	Barite	Rubblecrop	Select	Chandler Lake	B–4	13S	02W	23	NW	Umiat	
CL28	4398	1993		Siksikpuk River trib	Colville	Barite	Rubblecrop	Select	Chandler Lake	B–4	13S	02W	23	NW	Umiat	
CL28	4423	1993		Siksikpuk River	Colville			Pan con	Chandler Lake	B–4	13S	02W	22	NE	Umiat	
CL28	4424	1993		Siksikpuk River	Colville	Sandstone	Float	Grab	Chandler Lake	B–4	13S	02W	23	???	Umiat	<9.00
CL29	4422	1993		Siksikpuk River	Colville	Chert	Float	Grab	Chandler Lake	B–4	13S	02W	23	NW	Umiat	
CL30	4833	1993	Siksikpuk River West	Siksikpuk River	Colville	Chert	Float	Select	Chandler Lake	B–5	13S	02W	32	NW	Umiat	
CL31	4814	1993		Ikaglak Creek E trib	Colville			Stream sed	Chandler Lake	B–5	14S	02W	6	SW	Umiat	
CL32	4813	1993		Itkaglak Creek E trib	Colville	Chert	Float	Select	Chandler Lake	A–5	14S	02W	7	NE	Umiat	
CL33	4812	1993		Ikaglak Creek E trib	Colville	Shale	Outcrop	Random chip	Chandler Lake	A–5	14S	02W	8	SW	Umiat	
CL34	4809	1993		Ikaglak Creek W trib	Colville	Mudstone	Outcrop	Select	Chandler Lake	A–5	15S	02W	8	SW	Umiat	
CL34	4810	1993	Ikaglak Creek East	Ikaglak Creek E trib	Colville	Chert	Float	Select	Chandler Lake	A–5	14S	02W	8	SW	Umiat	
CL34	4811	1993		Ikaglak Creek E trib	Colville	Shale	Rubblecrop	Grab	Chandler Lake	A–5	14S	02W	8	SW	Umiat	
CL35	4485	1993	Ikaglak Creek East	Ikaglak Creek	Colville	Siltstone	Outcrop	Grab	Chandler Lake	A–5	14S	02W	8	NW	Umiat	
CL36	4777	1993	Siksikpuk River West	Siksikpuk River	Colville	Chert	Rubblecrop	Select	Chandler Lake	B–4	13S	02W	32	NE	Umiat	
CL36	4778	1993	Siksikpuk River West	Siksikpuk River	Colville	Chert	Float	Select	Chandler Lake	B–4	13S	02W	32	NW	Umiat	
CL37	4825	1993	Siksikpuk River West	Siksikpuk River trib	Colville	Chert	Outcrop	Select	Chandler Lake	B–4	13S	02W	33	SW	Umiat	
CL37	4826	1993		Siksikpuk River trib	Colville	Chert	Outcrop	Select	Chandler Lake	B–4	13S	02W	33	SW	Umiat	
CL38	4829	1993	Siksikpuk River	Siksikpuk River	Colville	Chert	Rubblecrop	Select	Chandler Lake	B–4	13S	02W	33	SE	Umiat	
CL39	4830	1993		Siksikpuk River	Colville	Chert	Outcrop	Select	Chandler Lake	B–4	13S	02W	34	SW	Umiat	
CL40	4802	1993		Siksikpuk River	Colville			Stream sed	Chandler Lake	B–4	13S	02W	34	NW	Umiat	
CL41	4799	1993		Siksikpuk River trib	Colville	Mudstone	Float	Select	Chandler Lake	B–4	13S	02W	34	SE	Umiat	
CL41	4800	1993		Siksikpuk River trib	Colville	Shale	Outcrop	Random chip	Chandler Lake	B–4	13S	02W	34	SE	Umiat	
CL41	4801	1993		Siksikpuk River trib	Colville	Mudstone	Outcrop	Select	Chandler Lake	B–4	13S	02W	34	SE	Umiat	
CL42	4783	1993		Siksikpuk River trib	Colville	Chert	Float	Select	Chandler Lake	B–4	13S	02W	34	SE	Umiat	
CL42	4798	1993		Siksikpuk River trib	Colville			Stream sed	Chandler Lake	B–4	13S	02W	34	SE	Umiat	
CL43	4782	1993		Siksikpuk River	Colville	Chert	Float	Select	Chandler Lake	B–4	13S	02W	35	NW	Umiat	
CL44	4796	1993		Siksikpuk River trib	Colville	Shale	Rubblecrop	Random chip	Chandler Lake	B–4	13S	02W	35	SW	Umiat	
CL44	4797	1993		Siksikpuk River trib	Colville	Chert	Float	Select	Chandler Lake	B–4	13S	02W	35	SW	Umiat	
CL45	4768	1993	Encampment Cr West	Encampment Cr West	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–4	14S	02W	11	SE	Umiat	
CL45	4769	1993	Encampment Cr West	Encampment Cr West	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–4	14S	02W	11	SE	Umiat	
CL45	4770	1993	Encampment Cr West	Encampment Cr West	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–4	14S	02W	11	SE	Umiat	
CL46	4772	1993	Encampment Creek	Encampment Cr West	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–4	14S	02W	13	NW	Umiat	
CL47	4771	1993	Encampment Creek	Encampment Creek	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–4	14S	02W	13	NE	Umiat	
CL48	4754	1993	Encampment Cr East	Encampment Creek	Colville	Chert	Outcrop	Select	Chandler Lake	A–4	14S	01W	18	SW	Umiat	
CL49	4495	1993	Encampment Cr East	Encampment Creek	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–4	14S	01W	18	NW	Umiat	
CL49	4756	1993		Encampment Creek	Colville	Chert	Outcrop	Select	Chandler Lake	A–4	14S	01W	18	SE	Umiat	
CL49	4757	1993	Encampment Cr East	Encampment Creek	Colville	Chert	Outcrop	Select	Chandler Lake	A–4	14S	01W	18	NE	Umiat	
CL50	4752	1993		Encampment Creek	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–4	14S	01W	17	NW	Umiat	
CL51	4755	1993		Encampment Creek	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–4	14S	01W	16	SW	Umiat	
CL51	4779	1993		Encampment Creek	Colville	Chert	Outcrop	Select	Chandler Lake	A–4	14S	01W	16	SW	Umiat	
CL52	4499	1993		Encampment Creek	Colville	Chert	Float	Select	Chandler Lake	A–4	14S	01W	16	NE	Umiat	
CL53	4753	1993	Confusion Creek	Confusion Creek	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–4	14S	01W	22	NE	Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
CL18	4395	<0.5	4.13	16		443			<5	0.05	<2.0	1	167		21		0.72	17	0.17	21	134	0.04	82		4
CL19	4359	<0.5	3.17	45		1030			<5	0.64	<2.0	34	106		32		>10.00	19	0.75	12	14	1.25	7280		3
CL19	4360	<0.5	3.89	18		1321			<5	0.17	<2.0	18	180		18		4.44	13	0.37	17	34	1.05	257		10
CL20	4380	<0.5	1.84	58		290			<5	0.82	<2.0	14	323		18		3.46	<10	0.75	30	7	0.10	438		5
CL21	4379	<0.5	5.73	<5		824			<5	0.10	4.5	30	109		47		4.12	21	1.53	30	23	0.29	2126		3
CL22	4501	<0.5	2.47	<5		319			<5	2.54	<2.0	8	202		10		2.56	<10	0.57	10	30	1.36	311		2
CL23	4385	<0.5	2.40	21		435			<5	0.83	<2.0	13	302		32		5.1	<10	0.53	12	22	0.43	559		2
CL24	4375	<0.5	7.12	<5		674			11	0.73	<2.0	21	102		51		4.74	20	1.04	30	76	0.73	878		1
CL24	4376	<0.5	5.19	22		537			<5	0.15	<2.0	16	90		45		3.8	17	0.94	22	41	0.49	728		<1
CL24	4377	<0.5	0.66	<5		129			<5	0.65	<2.0	8	222		7		>10.00	20	0.13	19	5	0.98	6462		<1
CL24	4378	<0.5	1.16	<5		235			<5	0.06	<2.0	6	325		11		1.46	<10	0.43	12	13	0.14	73		6
CL25	4428	<0.5	3.31	64		353			25	1.65	2.2	10	142		62		2.52	13	0.46	23	32	0.44	473		24
CL26	4427	<0.5	4.85	35		416			<5	2.91	<2.0	3	87		26		6.8	17	1.27	<5	23	0.62	254		13
CL27	4425	1.2	0.10	43		193	<9.00		5	>10.00	9.2	3	181		15		0.14	<10	0.02	39	<2	0.04	16	<9.00	3
CL27	4426	1.8	0.06	<5		317	<9.00		15	>10.00	6.6	2	128		15		0.08	<10	0.02	31	<2	0.03	9	<9.00	<1
CL28	4396	<0.5	0.54	10		>2000			<5	0.02	<2.0	<1	11		17		0.56	<10	<0.01	<5	4	0.12	82		<1
CL28	4397	<0.5	0.19	17		>2000			7	0.72	<2.0	<1	18		10		0.24	<10	0.01	5	3	0.04	28		<1
CL28	4398	<0.5	0.16	48		>2000			6	0.09	3.9	4	32		31		0.26	<10	0.02	19	6	0.03	36		28
CL28	4423	<0.5	5.25	<5		>2000			6	0.64	<2.0	6	81		58		2.44	13	1.21	22	33	0.55	122		5
CL28	4424	2.1	0.14	32		728	<9.00		15	>10.00	3	4	171		22		0.11	13	0.05	106	<2	0.04	33	<9.00	4
CL29	4422	<0.5	0.19	26		87			<5	1.79	<2.0	<1	294		30		0.5	<10	0.07	20	4	0.02	46		5
CL30	4833	<0.5	1.40	80		709			26	8.29	<2.0	5	25		16		>10.00	19	0.26	<5	14	1.36	5612		9
CL31	4814	<0.5	5.78	33		540			12	0.69	<2.0	21	107		43		4.8	21	1.07	24	81	0.55	942		4
CL32	4813	<0.5	1.23	<5		318			<5	4.88	<2.0	3	33		15		>10.00	20	0.27	<5	16	1.16	2876		2
CL33	4812	<0.5	3.84	<5		1017			<5	0.30	<2.0	19	137		39		3.98	22	0.82	7	129	0.61	338		4
CL34	4809	<0.5	1.57	<5		371			<5	5.44	<2.0	9	34		27		>10.00	29	0.26	25	15	1.47	15788		3
CL34	4810	<0.5	1.07	165		714			6	5.14	<2.0	3	24		20		>10.00	19	0.22	<5	13	1.27	3815		6
CL34	4811	<0.5	4.29	18		693			<5	0.12	<2.0	17	134		55		4.02	23	0.87	8	139	0.56	318		3
CL35	4485	<0.5	1.18	<5		557			22	3.12	<2.0	8	22		17		>10.00	28	0.22	<5	12	0.99	5982		4
CL36	4777	<0.5	0.94	<5		168			28	7.75	<2.0	6	20		14		>10.00	28	0.19	8	14	2.06	4018		7
CL36	4778	<0.5	1.45	<5		>2000			41	3.19	<2.0	5	20		17		>10.00	30	0.37	<5	21	1.25	3956		5
CL37	4825	<0.5	1.06	63		505			26	7.96	<2.0	14	51		50		>10.00	21	0.20	25	20	1.56	3166		38
CL37	4826	<0.5	1.16	<5		1218			11	8.46	<2.0	7	28		16		>10.00	21	0.27	<5	15	1.41	3233		3
CL38	4829	<0.5	1.31	41		303			29	8.20	<2.0	7	25		18		>10.00	21	0.26	<5	15	1.28	6878		11
CL39	4830	<0.5	1.37	40		>2000			<5	1.76	<2.0	9	32		16		>10.00	16	0.29	<5	19	1.63	5756		6
CL40	4802	<0.5	3.98	15		349			29	>10.00	<2.0	9	71		26		2.64	16	0.61	23	52	1.81	354		3
CL41	4799	<0.5	1.42	<5		>2000			27	3.53	<2.0	<1	17		<1		>10.00	28	0.28	<5	12	1.21	5786		<1
CL41	4800	<0.5	4.36	<5		897			8	0.20	<2.0	19	119		3		5.82	26	0.74	<5	152	0.65	671		<1
CL41	4801	<0.5	1.15	<5		809			<5	9.69	<2.0	5	56		37		>10.00	22	0.21	25	15	1.87	4446		28
CL42	4783	<0.5	1.30	<5		333			21	7.91	<2.0	5	19		12		>10.00	24	0.25	<5	14	1.89	3782		<1
CL42	4798	<0.5	2.92	24		296			28	>10.00	<2.0	12	58		36		2.29	14	0.79	24	27	2.16	271		20
CL43	4782	<0.5	1.35	<5		370			10	6.48	<2.0	7	21		17		>10.00	27	0.27	<5	13	1.69	3743		3
CL44	4796	<0.5	7.45	19		547			10	0.34	<2.0	10	88		5		4.04	18	1.37	6	61	0.73	348		<1
CL44	4797	<0.5	1.40	<5		>2000			<5	2.02	<2.0	2	10		<1		>10.00	24	0.29	<5	13	1.22	4867		<1
CL45	4768	<0.5	0.70	<5		598			30	9.67	<2.0	9	14		14		>10.00	28	0.21	<5	11	0.84	2919		9
CL45	4769	<0.5	2.10	<5		1069			23	2.06	<2.0	2	24		23		>10.00	24	0.40	<5	19	1.55	2798		10
CL45	4770	<0.5	1.29	<5		345			28	2.32	<2.0	8	17		21		>10.00	27	0.21	<5	25	1.53	7984		20
CL46	4772	<0.5	1.13	<5		317			19	7.08	<2.0	7	14		13		>10.00	29	0.27	<5	12	1.15	6845		10
CL47	4771	<0.5	1.62	<5		510			20	1.93	<2.0	2	22		14		>10.00	35	0.39	<5	20	1.62	7436		11
CL48	4754	<0.5	1.44	<5		>2000			9	2.01	<2.0	3	23		12		>10.00	30	0.31	<5	15	1.18	5796		7
CL49	4495	<0.5	1.83	<5		471			19	2.03	<2.0	4	30		9		>10.00	32	0.40	<5	17	1.53	5598		10
CL49	4756	<0.5	1.18	<5		505			<5	5.80	<2.0	7	41		15		>10.00	21	0.19	<5	10	1.36	4321		5
CL49	4757	<0.5	1.19	<5		220			8	1.64	<2.0	7	50		19		>10.00	21	0.24	<5	18	1.01	6250		15
CL50	4752	<0.5	0.84	<5		370			6	4.95	<2.0	5	35		11		>10.00	21	0.16	<5	15	1.32	3533		2
CL51	4755	<0.5	1.08	<5		294			18	5.53	<2.0	7	20		8		>10.00	33	0.24	<5	13	1.45	2938		4
CL51	4779	<0.5	1.41	<5		347			14	5.94	<2.0	8	21		11		>10.00	30	0.20	<5	16	1.56	2829		5
CL52	4499	0.9	0.07	<5		152			9	>10.00	7.8	<1	130		13		0.14	<10	0.02	26	3	0.04	15		2
CL53	4753	<0.5	1.33	<5		363			23	3.41	<2.0	8	50		32		>10.00	21	0.27	6	17	1.25	4733		28

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
CL18	4395	0.23	27	34	28					<5	<20	75	<100	<25	0.88	<9.0	76	<20	15	33		192	
CL19	4359	0.47	29	52	10					<5	31	60	<100	<25	0.26	<9.0	77	<20	15	108		77	
CL19	4360	0.99	11	35	19					<5	<20	53	<100	<25	0.32	<9.0	110	<20	11	95		62	
CL20	4380	0.05	5	34	37					<5	<20	137	<100	<25	0.11	<9.0	65	<20	96	36		31	
CL21	4379	0.26	17	59	47					13	<20	86	<100	<25	0.52	<9.0	145	<20	25	135		102	
CL22	4501	0.28	8	23	29					<5	<20	133	<100	<25	0.18	<9.0	60	<20	7	49		43	
CL23	4385	0.34	8	73	172					15	<20	52	<100	<25	0.19	<9.0	64	<20	14	45		42	
CL24	4375	0.36	17	58	25					<5	<20	78	<100	<25	0.42	<9.0	129	<20	21	151		105	
CL24	4376	0.30	14	48	21					<5	<20	60	<100	<25	0.39	<9.0	115	<20	17	101		92	
CL24	4377	0.07	29	26	22					<5	<20	27	<100	<25	0.19	<9.0	25	<20	11	89		104	
CL24	4378	0.18	<5	12	18					19	<20	30	<100	<25	0.06	<9.0	46	<20	6	14		23	
CL25	4428	4.00	6	30	41					<5	<20	135	<100	<25	0.36	<9.0	101	<20	17	85		65	
CL26	4427	1.20	11	10	11					<5	<20	340	<100	<25	0.39	<9.0	133	<20	7	39		81	
CL27	4425	0.16	<5	33	12	<9.00			<9.00	<5	<20	726	<100	<25	<0.01		341	<20	74	232	<9.00	13	
CL27	4426	0.13	<5	34	9	<9.00			<9.00	<5	<20	765	<100	<25	<0.01	<9.0	306	<20	58	274	<9.00	<5	
CL28	4396	0.31	<5	25	<2					6	<20	205	<100	<25	0.02	<9.0	5	<20	<5	87		7	
CL28	4397	0.06	<5	5	5					17	<20	270	<100	<25	0.01	<9.0	6	<20	55	21		<5	
CL28	4398	0.05	<5	25	19					6	<20	159	<100	<25	<0.01	<9.0	25	<20	<5	37		<5	
CL28	4423	0.36	8	43	19					11	<20	321	<100	<25	0.23	<9.0	116	<20	19	142		67	
CL28	4424	0.14	<5	33	25	<9.00			<9.00	<5	<20	920	<100	<25	<0.01	<9.0	493	<20	192	152	<9.00	7	
CL29	4422	0.04	<5	36	<2					<5	<20	31	<100	<25	0.01	<9.0	22	<20	27	67		<5	
CL30	4833	0.54	36	44	50					21	34	116	<100	<25	0.05		34	<20	15	6862		35	
CL31	4814	0.29	17	68	27					<5	<20	85	<100	<25	0.43		143	<20	18	166		91	
CL32	4813	0.43	43	14	45					<5	30	81	<100	<25	0.04		23	<20	<5	13		26	
CL33	4812	0.41	18	67	28					21	<20	88	<100	<25	0.49		169	<20	10	206		115	
CL34	4809	0.30	38	22	18					10	34	334	<100	<25	0.07		64	<20	58	112		23	
CL34	4810	0.35	40	24	84	0				<5	28	281	<100	<25	0.04		23	<20	8	6863	1	15	
CL34	4811	0.44	19	64	24					<5	<20	70	<100	<25	0.54		191	<20	12	146		125	
CL35	4485	0.49	42	22	109					<5	39	94	<100	<25	0.04		27	<20	7	4298		21	
CL36	4777	0.29	34	23	31					7	<20	152	<100	<25	0.04		30	<20	18	1827		14	
CL36	4778	0.72	39	20	162					<5	39	406	<100	<25	0.06		33	<20	8	2611		35	
CL37	4825	0.31	35	43	50					32	48	178	<100	<25	0.05		53	<20	16	7107		21	
CL37	4826	0.43	39	17	22					<5	<20	142	<100	<25	0.05		29	<20	10	33		30	
CL38	4829	0.35	40	20	47					24	26	130	<100	<25	0.05		34	<20	14	13152		23	
CL39	4830	0.51	43	20	52					<5	44	304	<100	<25	0.05		34	<20	<5	375		30	
CL40	4802	0.29	14	50	21					<5	21	207	<100	<25	0.23		99	<20	15	116		55	
CL41	4799	0.49	42	<1	42	<0.01				<5	<20	192	<100	<25	0.05		9	<20	<5	4770	1	30	
CL41	4800	0.40	19	57	5					<5	<20	40	<100	<25	0.51		196	<20	6	216		114	
CL41	4801	0.26	36	40	37					<5	39	262	<100	<25	0.04		132	<20	20	1357		17	
CL42	4783	0.40	34	27	152					<5	42	151	<100	<25	0.05		30	<20	9	736		21	
CL42	4798	0.29	11	46	22					<5	<20	282	<100	<25	0.18		82	<20	13	114		43	
CL43	4782	0.48	37	18	39					<5	34	140	<100	<25	0.05		30	<20	10	753		24	
CL44	4796	0.31	16	33	3					<5	<20	68	<100	<25	0.35		139	<20	19	130		92	
CL44	4797	0.53	42	<1	73	0				7	<20	268	<100	<25	0.05		11	<20	<5	3403	0	31	
CL45	4768	0.44	34	25	63					<5	29	141	<100	<25	0.02		21	<20	9	1187		16	
CL45	4769	0.60	36	27	93					<5	53	139	<100	<25	0.06		31	<20	6	6779		31	
CL45	4770	0.50	37	33	152					20	29	79	<100	<25	0.03		19	<20	7	12108		20	
CL46	4772	0.48	36	22	45					<5	45	102	<100	<25	0.04		22	<20	8	4094		21	
CL47	4771	0.62	40	24	57					<5	33	103	<100	<25	0.06		44	<20	8	5249		31	
CL48	4754	0.48	35	21	41					<5	<20	1114	<100	<25	0.07	<9.0	28	<20	13	1124		22	
CL49	4495	0.54	40	24	55					<5	47	83	<100	<25	0.08		28	<20	7	3131		31	
CL49	4756	0.30	43	16	35					<5	27	89	<100	<25	0.05		23	<20	14	369		14	
CL49	4757	0.29	47	17	155					<5	29	88	<100	<25	0.05		29	<20	<5	11254		13	
CL50	4752	0.28	39	17	32					<5	30	115	<100	<25	0.03		25	<20	7	327		10	
CL51	4755	0.52	37	21	32					<5	21	119	<100	<25	0.04		30	<20	9	292		22	
CL51	4779	0.49	38	26	39					<5	28	109	<100	<25	0.05		33	<20	11	315		24	
CL52	4499	0.11	<5	19	12					<5	<20	1111	<100	<25	<0.01		197	<20	46	218		<5	
CL53	4753	0.38	44	22	207					<5	<20	82	<100	<25	0.06		32	<20	7	13120		18	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
CL54	4758	1993		Confusion Creek	Colville	Chert	Outcrop	Select	Chandler Lake	A–4	14S	01W	22	SW	Umiat	
CL55	4759	1993	Confusion Creek	Confusion Creek	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–4	14S	01W	23	NW	Umiat	
CL56	4639	1993	Skimo Creek West	Skimo Creek trib	Colville	Shale	Rubblecrop	Contin chip	Chandler Lake	B–4	13S	01E	29	NW	Umiat	<9.00
CL56	4640	1993	Skimo Creek West	Skimo Creek trib	Colville	Shale	Rubblecrop	Contin chip	Chandler Lake	B–4	13S	01E	29	NW	Umiat	<9.00
CL56	4641	1993	Skimo Creek West	Skimo Creek trib	Colville	Shale	Rubblecrop	Contin chip	Chandler Lake	B–4	13S	01E	29	NW	Umiat	<9.00
CL56	4642	1993	Skimo Creek West	Skimo Creek trib	Colville	Limestone	Rubblecrop	Contin chip	Chandler Lake	B–4	13S	01E	29	NW	Umiat	<9.00
CL56	4643	1993	Skimo Creek West	Skimo Creek trib	Colville	Limestone	Rubblecrop	Contin chip	Chandler Lake	B–4	13S	01E	29	NW	Umiat	<9.00
CL56	4644	1993	Skimo Creek West	Skimo Creek trib	Colville	Shale	Rubblecrop	Contin chip	Chandler Lake	B–4	13S	01E	29	NW	Umiat	<9.00
CL56	4645	1993		Skimo Creek trib	Colville	Shale	Rubblecrop	Contin chip	Chandler Lake	B–4	13S	01E	29	NW	Umiat	<9.00
CL56	4646	1993	Skimo Creek West	Skimo Creek trib	Colville	Limestone	Rubblecrop	Contin chip	Chandler Lake	B–4	13S	01E	29	NW	Umiat	<9.00
CL56	4647	1993	Skimo Creek West	Skimo Creek trib	Colville	Shale	Rubblecrop	Contin chip	Chandler Lake	B–4	13S	01E	29	NW	Umiat	<9.00
CL57	4583	1993	Skimo Creek East	Skimo Creek	Colville	Chert	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL58	4582	1993	Skimo Creek East	Skimo Creek	Colville	Shale	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL58	4593	1993	Skimo Creek East	Skimo Creek	Colville	Limestone	Outcrop	Select	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL58	4594	1993	Skimo Creek East	Skimo Creek	Colville	Shale	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL58	4597	1993	Skimo Creek East	Skimo Creek	Colville	Shale	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL58	4667	1993	Skimo Creek East	Skimo Creek	Colville	Shale	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL58	4668	1993	Skimo Creek East	Skimo Creek	Colville	Shale	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL59	4581	1993	Skimo Creek East	Skimo Creek	Colville	Chert	Float	Select	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL59	4652	1993	Skimo Creek East	Skimo Creek	Colville	Shale	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL59	4653	1993	Skimo Creek East	Skimo Creek	Colville	Limestone	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL59	4654	1993	Skimo Creek East	Skimo Creek	Colville	Limestone	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL59	4655	1993	Skimo Creek East	Skimo Creek	Colville	Shale	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL59	4656	1993		Skimo Creek	Colville	Limestone	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL59	4657	1993	Skimo Creek East	Skimo Creek	Colville	Sandstone	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL59	4658	1993	Skimo Creek East	Skimo Creek	Colville	Limestone	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL59	4659	1993	Skimo Creek East	Skimo Creek	Colville	Limestone	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL59	4660	1993	Skimo Creek East	Skimo Creek	Colville	Limestone	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL59	4661	1993	Skimo Creek East	Skimo Creek	Colville	Limestone	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL59	4662	1993	Skimo Creek East	Skimo Creek	Colville	Sandstone	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL59	4663	1993	Skimo Creek East	Skimo Creek	Colville	Sandstone	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL59	4664	1993	Skimo Creek East	Skimo Creek	Colville	Shale	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL59	4665	1993	Skimo Creek East	Skimo Creek	Colville	Sandstone	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL59	4666	1993	Skimo Creek East	Skimo Creek	Colville	Sandstone	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	21	SW	Umiat	<9.00
CL60	4612	1993	Tiglukpuk Creek North	Tiglukpuk Creek	Colville	Limestone	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	22	SE	Umiat	<9.00
CL60	4613	1993	Tiglukpuk Creek North	Tiglukpuk Creek	Colville	Shale	Outcrop	Contin chip	Chandler Lake	B–4	13S	01E	22	SE	Umiat	<9.00
CL60	4614	1993	Tiglukpuk Creek North	Tiglukpuk Creek	Colville	Limestone	Rubblecrop	Contin chip	Chandler Lake	B–4	13S	01E	22	SE	Umiat	<9.00
CL60	4615	1993	Tiglukpuk Creek North	Tiglukpuk Creek	Colville	Shale	Rubblecrop	Contin chip	Chandler Lake	B–4	13S	01E	22	SE	Umiat	<9.00
CL60	4616	1993	Tiglukpuk Creek North	Tiglukpuk Creek	Colville	Shale	Rubblecrop	Contin chip	Chandler Lake	B–4	13S	01E	22	SE	Umiat	<9.00
CL60	4617	1993	Tiglukpuk Creek North	Tiglukpuk Creek	Colville	Limestone	Rubblecrop	Contin chip	Chandler Lake	B–4	13S	01E	22	SE	Umiat	<9.00
CL60	4637	1993	Tiglukpuk Creek North	Tiglukpuk Creek	Colville	Shale	Rubblecrop	Contin chip	Chandler Lake	B–4	13S	01E	22	SE	Umiat	<9.00
CL60	4638	1993	Tiglukpuk Creek North	Tiglukpuk Creek	Colville	Shale	Rubblecrop	Contin chip	Chandler Lake	B–4	13S	01E	22	SE	Umiat	<9.00
CL61	4542	1993		Three River Mtn	Colville			Stream sed	Chandler Lake	A–3	15S	02E	36	NE	Umiat	
CL62	4539	1993		Three River Mtn	Colville			Stream sed	Chandler Lake	A–3	15S	02E	36	SE	Umiat	
CL62	4540	1993		Three River Mtn	Colville	Sandstone	Float	Select	Chandler Lake	A–3	15S	02E	36	SE	Umiat	
CL62	4541	1993		Three River Mtn	Colville			Stream sed	Chandler Lake	A–3	15S	02E	36	SE	Umiat	
CL63	4537	1993		Three River Mtn	Colville	Conglomerate	Float	Select	Chandler Lake	A–3	16S	02E	1	SE	Umiat	
CL63	4538	1993		Three River Mtn	Colville	Sandstone	Float	Select	Chandler Lake	A–3	16S	02E	1	SE	Umiat	
CL64	4390	1993		Three River Mtn	Colville	Shale	Rubblecrop	Select	Chandler Lake	A–3	16S	02E	14	SE	Umiat	
CL65	4531	1993		Three River Mtn	Colville			Stream sed	Chandler Lake	A–3	16S	02E	13	SE	Umiat	
CL65	4532	1993		Three River Mtn	Colville			Stream sed	Chandler Lake	A–3	16S	02E	13	SE	Umiat	
CL66	4533	1993		Three River Mtn	Colville	Sandstone	Float	Select	Chandler Lake	A–3	16S	02E	24	NE	Umiat	
CL66	4534	1993		Three River Mtn	Colville			Stream sed	Chandler Lake	A–3	16S	02E	24	NE	Umiat	
CL66	4535	1993		Three River Mtn	Colville	Sandstone	Float	Select	Chandler Lake	A–3	16S	02E	24	NE	Umiat	
CL66	4536	1993		Three River Mtn	Colville	Sandstone	Float	Select	Chandler Lake	A–3	16S	02E	24	NE	Umiat	
CL67	4600	1993		Anaktuvik River trib	Colville	Sandstone	Rubblecrop	Grab	Chandler Lake	A–3	16S	03E	30	NE	Umiat	
CL68	4595	1993		Anaktuvik River trib	Colville	Sandstone	Outcrop	Repr chip	Chandler Lake	A–3	16S	03E	27	SE	Umiat	
CL68	4598	1993		Anaktuvik River trib	Colville	Sandstone	Outcrop	Select	Chandler Lake	A–3	16S	03E	27	SE	Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
CL54	4758	<0.5	2.37	<5		664			<5	4.26	<2.0	16	56		20		>10.00	26	0.40	18	23	1.61	8351		3
CL55	4759	<0.5	1.26	<5		253			16	1.67	<2.0	5	42		19		>10.00	23	0.22	<5	15	0.96	4745		23
CL56	4639	2.0	0.60	9		71	<9.00		13	>10.00	29.4	<1	151		32		0.42	14	0.27	19	5	0.34	50	<9.00	22
CL56	4640	6.7	1.09	59		155	<9.00		9	>10.00	32.2	1	340		59		0.48	11	0.51	59	9	0.47	54	<9.00	20
CL56	4641	6.4	0.95	35		108	<9.00		21	>10.00	25.2	2	297		45		0.47	<10	0.44	37	7	0.66	66	<9.00	21
CL56	4642	4.4	0.36	39		70	<9.00		9	>10.00	18.1	<1	243		38		0.61	<10	0.15	72	5	0.19	92	<9.00	9
CL56	4643	1.2	0.11	13		83	<9.00		24	>10.00	4.6	<1	160		12		0.12	<10	0.04	69	4	0.18	25	<9.00	3
CL56	4644	12.0	1.33	31		128	<9.00		<5	>10.00	66.9	5	542		100		0.71	<10	0.59	105	17	0.83	84	<9.00	78
CL56	4645	10.9	1.20	6		75	<9.00		<5	>10.00	24.1	2	652		83		0.59	<10	0.53	52	11	0.40	52	<9.00	14
CL56	4646	4.0	0.67	7		55	<9.00		9	>10.00	13	4	206		34		0.34	11	0.29	54	7	0.98	66	<9.00	10
CL56	4647	10.9	1.78	<5		169	<9.00		6	>10.00	80.5	5	569		98		0.82	<10	0.84	92	15	0.62	64	<9.00	27
CL57	4583	<0.5	2.61	22		>2000	<9.00		<5	0.26	<2.0	5	81		45		2	<10	0.79	10	25	0.45	202	<9.00	3
CL58	4582	0.8	2.09	8		264	<9.00		13	>10.00	<2.0	9	132		62		1.41	<10	0.73	42	26	0.52	104	<9.00	23
CL58	4593	<0.5	2.04	37		621	<9.00		15	>10.00	<2.0	7	181		30		4.14	12	0.94	24	84	0.89	227	<9.00	3
CL58	4594	<0.5	1.62	50		496	<9.00		9	>10.00	<2.0	8	67		40		0.98	<10	1.30	18	18	0.41	142	<9.00	4
CL58	4597	<0.5	2.61	<5		1298	<9.00		7	>10.00	<2.0	9	127		41		2.59	16	0.85	24	55	0.74	184	<9.00	13
CL58	4667	1.4	0.24	51		54	<9.00		<5	>10.00	4.2	<1	227		32		0.23	<10	0.11	30	<2	0.52	32	<9.00	7
CL58	4668	1.6	0.23	38		58	<9.00		<5	>10.00	4.1	2	113		32		0.12	16	0.13	31	<2	0.34	27	<9.00	5
CL59	4581	<0.5	0.20	33		82	<9.00		<5	0.94	5.1	5	193		31		0.31	<10	0.05	22	9	0.36	61	<9.00	24
CL59	4652	2.2	0.59	100		98	<9.00		11	>10.00	36.1	9	191		65		0.37	15	0.24	39	9	0.37	60	<9.00	88
CL59	4653	5.2	0.82	30		111	<9.00		9	>10.00	54	3	294		77		0.44	15	0.34	39	7	0.45	49	<9.00	71
CL59	4654	2.3	0.10	29		101	<9.00		<5	>10.00	11.2	3	187		18		0.12	<10	0.03	79	2	0.05	16	<9.00	11
CL59	4655	10.6	0.74	27		90	<9.00		9	>10.00	47.4	2	769		116		0.35	<10	0.29	79	8	0.29	35	<9.00	33
CL59	4656	1.1	0.11	17		82	<9.00		6	>10.00	22.3	3	133		18		0.07	<10	0.04	76	3	0.06	15	<9.00	12
CL59	4657	8.5	0.69	66		71	<9.00		9	>10.00	25.4	2	154		31		0.36	12	0.31	14	6	0.55	62	<9.00	57
CL59	4658	5.3	0.42	25		101	<9.00		<5	>10.00	48.3	<1	338		66		0.22	<10	0.18	91	5	0.18	33	<9.00	18
CL59	4659	8.7	0.12	27		60	<9.00		<5	>10.00	11.7	5	199		31		0.1	<10	0.04	132	3	0.07	14	<9.00	8
CL59	4660	3.7	0.61	36		126	<9.00		5	>10.00	38.1	3	190		36		0.3	<10	0.28	29	6	0.41	45	<9.00	24
CL59	4661	1.5	0.19	22		93	<9.00		<5	>10.00	16.5	3	113		17		0.08	<10	0.08	53	2	0.18	26	<9.00	19
CL59	4662	8.8	1.20	66		256	<9.00		13	>10.00	92.4	4	498		95		0.57	12	0.56	111	15	0.53	76	<9.00	92
CL59	4663	10.1	0.94	24		83	<9.00		11	>10.00	19.5	2	620		74		0.52	<10	0.41	94	12	0.27	52	<9.00	16
CL59	4664	13.0	1.38	<5		114	<9.00		<5	>10.00	28.9	<1	792		93		0.73	<10	0.60	58	12	0.35	51	<9.00	22
CL59	4665	11.8	1.42	23		136	<9.00		15	>10.00	22.7	3	664		87		0.64	<10	0.64	49	12	0.65	52	<9.00	20
CL59	4666	4.5	0.51	14		354	<9.00		<5	>10.00	9	1	238		30		0.27	<10	0.21	74	6	0.83	56	<9.00	6
CL60	4612	1.4	0.47	18		74	<9.00		13	>10.00	2.6	<1	76		16		0.26	<10	0.21	20	3	0.43	37	<9.00	12
CL60	4613	5.3	1.06	10		215	<9.00		14	>10.00	64.3	2	266		71		0.56	<10	0.39	75	8	0.24	33	<9.00	31
CL60	4614	1.2	0.11	51		128	<9.00		<5	>10.00	14.8	3	129		38		0.07	<10	0.04	94	8	0.07	36	<9.00	35
CL60	4615	3.1	0.46	70		112	<9.00		<5	>10.00	11.5	<1	71		18		0.2	13	0.21	19	3	0.46	44	<9.00	23
CL60	4616	1.5	0.27	59		60	<9.00		<5	>10.00	13.6	<1	92		15		0.15	11	0.11	34	2	0.34	42	<9.00	12
CL60	4617	1.2	0.13	32		74	<9.00		11	>10.00	8.3	<1	96		12		0.06	<10	0.05	67	<2	0.30	26	<9.00	4
CL60	4637	6.8	0.72	29		132	<9.00		15	>10.00	44	<1	328		48		1.33	<10	0.33	112	8	0.41	205	<9.00	24
CL60	4638	8.0	0.90	9		72	<9.00		22	>10.00	18.5	<1	451		52		0.96	<10	0.40	59	11	0.32	133	<9.00	10
CL61	4542	<0.5	2.86	5		585			6	0.06	<2.0	22	107		74		3.97	17	1.06	14	57	0.23	659		2
CL62	4539	<0.5	4.58	13		488			11	0.13	<2.0	24	123		61		4.47	21	1.26	14	58	0.66	551		<1
CL62	4540	<0.5	0.68	34		74			5	1.94	<2.0	9	349		8		2.52	<10	0.07	<5	36	0.70	480		1
CL62	4541	<0.5	4.89	68		420			<5	0.19	2.9	17	100		63		3.58	18	1.19	44	31	0.54	543		28
CL63	4537	0.6	1.06	37		111			<5	0.03	<2.0	6	379		15		1.88	<10	0.55	14	7	0.06	54		5
CL63	4538	<0.5	2.49	26		349			<5	2.19	<2.0	16	214		19		5.94	10	0.40	10	40	1.30	1143		1
CL64	4390	<0.5	2.18	34		>2000			23	3.88	<2.0	16	71		33		>10.00	24	0.39	34	29	1.20	10158		5
CL65	4531	<0.5	0.55	29		299			<5	0.03	<2.0	14	51		30		2.39	12	0.86	<5	18	0.06	587		4
CL65	4532	<0.5	1.25	24		491			8	0.03	<2.0	19	96		52		3.42	18	1.18	11	62	0.12	613		<1
CL66	4533	<0.5	1.77	22		234			<5	0.53	<2.0	11	276		48		>10.00	10	0.42	21	22	0.10	1332		1
CL66	4534	<0.5	1.20	11		440			<5	0.03	2.3	21	92		53		4.1	13	1.11	<5	59	0.07	865		2
CL66	4535	0.8	1.26	36		206			<5	0.38	<2.0	13	179		19		>10.00	<10	0.42	9	5	0.39	3274		<1
CL66	4536	0.6	1.03	21		179			<5	0.20	<2.0	4	285		9		1.95	<10	0.40	13	6	0.05	185		5
CL67	4600	<0.5	1.58	<5		164			6	1.24	<2.0	5	282		12		3.56	<10	0.39	13	24	0.14	897		<1
CL68	4595	1.1	1.99	43		417			12	1.58	<2.0	18	192		23		>10.00	10	0.51	18	19	0.69	5357		<1
CL68	4598	0.6	0.92	32		164			<5	0.10	<2.0	5	417		32		1.63	<10	0.27	31	20	0.06	174		14

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P2O5 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Ti %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
CL54	4758	0.29	39	34	38					<5	20	145	<100	<25	0 10		96	<20	69	293		28	
CL55	4759	0.29	46	15	104					<5	30	73	<100	<25	0 05		31	<20	5	16172		13	
CL56	4639	0.07	<5	90	9	<9 00			1 23	20	<20	329	<100	<25	0 03	<9 0	348	<20	24	1133	<9.00	8	
CL56	4640	0.26	<5	137	12	<9 00			4 97	42	<20	341	<100	<25	0 04	<9.0	373	<20	99	925	<9.00	19	
CL56	4641	0.16	<5	110	6	<9.00			2 17	44	<20	338	<100	<25	0.03	<9.0	310	<20	58	658	<9.00	14	
CL56	4642	0.13	<5	73	10	<9.00			18 85	<5	<20	631	<100	<25	<0.01	<9.0	595	<20	122	355	<9.00	6	
CL56	4643	0.15	<5	38	<2	<9.00			22.50	10	<20	812	<100	<25	<0.01	<9.0	390	<20	118	239	<9.00	7	
CL56	4644	0.16	<5	232	39	<9.00			10.25	6	<20	457	<100	<25	0.02	<9.0	733	<20	156	1995	<9.00	12	
CL56	4645	0.12	<5	184	23	<9.00			2.20	9	<20	200	<100	<25	0.05	<9.0	261	<20	96	671	<9.00	11	
CL56	4646	0.08	<5	78	11	<9.00			3.62	16	<20	300	<100	<25	0.01	<9.0	165	<20	100	390	<9.00	6	
CL56	4647	0.31	<5	225	13	<9.00			6.44	<5	<20	332	<100	<25	0.03	<9.0	458	<20	172	1332	<9.00	15	
CL57	4583	0.56	6	49	9	<9.00			0.03	<5	<20	635	<100	<25	0.15	<9.0	74	<20	9	92	<9.00	62	
CL58	4582	0.16	8	110	8	<9.00			1.49	<5	<20	311	<100	<25	0.06	<9.0	105	<20	61	270	<9.00	44	
CL58	4593	0.25	11	39	12	<9.00			0.52	<5	<20	213	<100	<25	0.11	<9.0	115	<20	41	141	<9.00	56	
CL58	4594	0.67	8	94	12	<9.00			0.23	<5	24	240	<100	<25	0.10	<9.0	78	<20	14	162	<9.00	38	
CL58	4597	0.16	8	71	7	<9.00			0.24	<5	<20	239	<100	<25	0.14	<9.0	122	<20	22	198	<9.00	67	
CL58	4667	0.04	<5	62	<2	<9.00			1.95	<5	<20	321	<100	<25	<0.01	<9.0	186	<20	46	251	<9.00	<5	
CL58	4668	0.05	<5	60	4	<9.00			2.20	<5	<20	394	<100	<25	<0.01	<9.0	152	<20	39	262	<9.00	5	
CL59	4581	0.02	<5	55	18	<9.00			0.09	<5	<20	26	<100	<25	<0.01	<9.0	37	<20	10	157	<9.00	−5	
CL59	4652	0.12	<5	157	37	<9.00			0.92	27	<20	407	<100	<25	0.03	<9.0	477	<20	28	1600	<9.00	14	
CL59	4653	0.13	<5	193	20	<9.00			2.73	38	<20	422	<100	<25	0.04	<9.0	767	<20	60	1859	<9.00	16	
CL59	4654	0.11	<5	51	17	<9.00			19.97	21	<20	670	<100	<25	<0.01	<9.0	589	<20	145	382	<9.00	10	
CL59	4655	0.13	<5	214	15	<9.00			8.62	<5	<20	362	<100	<25	<0.01	<9.0	874	<20	143	949	<9.00	7	
CL59	4656	0.13	<5	49	18	<9.00			23.07	11	<20	712	<100	<25	<0.01	<9.0	548	<20	138	420	<9.00	8	
CL59	4657	0.08	<5	105	13	<9.00			0.52	24	<20	398	<100	<25	0.04	<9.0	514	<20	11	946	<9.00	14	
CL59	4658	0.12	<5	97	17	<9.00			22.84	<5	<20	715	<100	<25	<0.01	<9.0	863	<20	161	601	<9.00	9	
CL59	4659	0.10	<5	54	12	<9.00			20.57	<5	<20	628	<100	<25	<0.01	<9.0	516	<20	221	274	<9.00	6	
CL59	4660	0.20	<5	115	12	<9.00			11.97	14	<20	414	<100	<25	0.02	<9.0	539	<20	50	1173	<9.00	9	
CL59	4661	0.15	<5	49	13	<9.00			23.72	<5	<20	584	<100	<25	<0.01	<9.0	434	<20	95	457	<9.00	6	
CL59	4662	0.41	<5	239	27	<9.00			9.70	<5	20	416	<100	<25	0.07	<9.0	826	<20	171	2047	<9.00	34	
CL59	4663	0.13	<5	155	14	<9.00			4.26	<5	<20	208	<100	<25	0.03	<9.0	248	<20	183	580	<9.00	7	
CL59	4664	0.18	<5	192	6	<9.00			1.93	<5	<20	140	<100	<25	0.05	<9.0	286	<20	116	717	<9.00	15	
CL59	4665	0.18	<5	200	6	<9.00			2.11	<5	<20	180	<100	<25	0.04	<9.0	291	<20	99	735	<9.00	12	
CL59	4666	0.12	<5	79	4	<9.00			5.11	<5	<20	305	<100	<25	0.01	<9.0	149	<20	152	297	<9.00	8	
CL60	4612	0.06	<5	52	9	<9.00			0.94	<5	<20	444	<100	<25	0.03	<9.0	166	<20	11	622	<9.00	<5	
CL60	4613	0.25	<5	143	13	<9.00			9.14	<5	<20	361	<100	<25	0.06	<9.0	1035	<20	82	2044	<9.00	28	
CL60	4614	0.14	<5	61	36	<9.00			22.96	13	<20	721	<100	<25	<0.01	<9.0	513	<20	139	265	<9.00	14	
CL60	4615	0.09	<5	52	15	<9.00			2.09	<5	<20	396	<100	<25	0.02	<9.0	231	<20	23	392	<9.00	11	
CL60	4616	0.09	<5	41	10	<9.00			9.91	<5	21	545	<100	<25	<0.01	<9.0	389	<20	55	344	<9.00	6	
CL60	4617	0.13	<5	39	15	<9.00			25.46	<5	<20	623	<100	<25	<0.01	<9.0	384	<20	125	336	<9.00	7	
CL60	4637	0.13	<5	110	8	<9.00			15.48	<5	<20	539	<100	<25	0.01	<9.0	635	<20	206	1233	<9.00	8	
CL60	4638	0.09	<5	107	5	<9.00			1.75	10	<20	172	<100	<25	0.05	<9.0	249	<20	109	487	<9.00	14	
CL61	4542	0.25	18	63	28					<5	<20	48	<100	<25	0.49	<9.0	152	<20	12	176		99	
CL62	4539	0.71	21	70	22					<5	<20	58	<100	<25	0.57	<9.0	168	<20	12	118		123	
CL62	4540	0.14	<5	20	33					11	<20	34	<100	<25	0.04	<9.0	13	<20	<5	90		14	
CL62	4541	0.37	16	61	35					<5	31	84	<100	<25	0.43	<9.0	127	<20	20	87		117	
CL63	4537	0.16	<5	13	25					9	<20	33	<100	<25	0.09	<9.0	41	<20	5	13		31	
CL63	4538	0.22	13	47	62					<5	<20	45	<100	<25	0.23	<9.0	65	<20	9	97		56	
CL64	4390	0.82	40	48	83					6	25	189	<100	<25	0.14	<9.0	188	<20	81	147		56	
CL65	4531	0.21	10	30	23					<5	<20	18	<100	<25	0.26	<9.0	77	<20	<5	136		51	
CL65	4532	0.16	17	55	43					<5	21	30	<100	<25	0.50	<9.0	132	<20	8	352		85	
CL66	4533	0.10	15	28	42					<5	<20	71	<100	<25	0.18	<9.0	75	<20	35	1004		51	
CL66	4534	0.15	16	51	33					<5	<20	31	<100	<25	0.43	<9.0	129	<20	5	239		73	
CL66	4535	0.09	18	44	48					6	<20	32	<100	<25	0.09	<9.0	55	<20	11	136		26	
CL66	4536	0.04	<5	11	88					<5	<20	36	<100	<25	0.06	<9.0	39	<20	9	40		22	
CL67	4600	0.08	6	27	3					<5	<20	21	<100	<25	0.15	<9.0	36	<20	7	18		24	
CL68	4595	0.21	22	36	46					<5	<20	124	<100	<25	0.15	<9.0	67	<20	59	570		46	
CL68	4598	0.05	<5	28	198					<5	<20	36	<100	<25	0.06	<9.0	60	<20	11	846		18	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
CL68	4599	1993		Anaktuvik River trib	Colville	Sandstone	Outcrop	Grab	Chandler Lake	A–3	16S	03E	27	SE	Umiat	
CL69	4596	1993		Anaktuvik River trib	Colville	Sandstone	Outcrop	Grab	Chandler Lake	A–3	16S	03E	26	SW	Umiat	
CL70	4559	1993		Anaktuvik River trib	Colville	Sandstone	Float	Select	Chandler Lake	A–3	16S	03E	25	NE	Umiat	
CL71	4558	1993		Anaktuvik River trib	Colville	Conglomerate	Outcrop	Select	Chandler Lake	A–3	16S	03E	25	NE	Umiat	
CL72	4461	1993		Anaktuvik River	Colville	Sandstone	Rubblecrop	Grab	Chandler Lake	A–2	16S	04E	22	SE	Umiat	
CL72	4621	1993		Anaktuvik River trib	Colville	Shale	Outcrop	Select	Chandler Lake	A–2	16S	04E	23	SW	Umiat	
CL73	4366	1993		Three Rivers Mtn East	Colville	Sandstone	Rubblecrop	Select	Chandler Lake	A–2	16S	04E	23	NW	Umiat	
CL74	4462	1993		Anaktuvik River	Colville	Sandstone	Outcrop	Grab	Chandler Lake	A–2	16S	04E	14	NE	Umiat	
CL75	4555	1993		Anaktuvik River trib	Colville	Sandstone	Rubblecrop	Select	Chandler Lake	A–2	16S	04E	1	SW	Umiat	
CL76	4556	1993		Anaktuvik River trib	Colville	Sandstone	Rubblecrop	Select	Chandler Lake	A–2	16S	04E	1	SW	Umiat	
CL76	4557	1993		Anaktuvik River trib	Colville	Sandstone	Rubblecrop	Select	Chandler Lake	A–2	16S	04E	1	SW	Umiat	
CL77	4567	1993		Anaktuvik River	Colville	Sandstone	Outcrop	Random chip	Chandler Lake	A–2	16S	04E	15	NW	Umiat	
CL78	4568	1993		Anaktuvik River trib	Colville			Stream sed	Chandler Lake	A–2	16S	04E	15	NW	Umiat	
CL79	4392	1993		Anaktuvik River trib	Colville	Conglomerate	Rubblecrop	Grab	Chandler Lake	A–2	16S	04E	15	NW	Umiat	
CL80	4391	1993		Three River Mtn trib	Colville	Conglomerate	Float	Select	Chandler Lake	A–3	16S	03E	11	NW	Umiat	
CL81	4543	1993		Anaktuvik River	Colville	Sandstone	Float	Select	Chandler Lake	A–3	15S	03E	34	SE	Umiat	
CL81	4544	1993		Anaktuvik River	Colville	Sandstone	Float	Select	Chandler Lake	A–3	15S	03E	34	SE	Umiat	
CL81	4545	1993		Anaktuvik River	Colville	Sandstone	Float	Select	Chandler Lake	A–3	15S	03E	34	SE	Umiat	
CL81	4563	1993		Anaktuvik River	Colville			Stream sed	Chandler Lake	A–3	15S	03E	34	SE	Umiat	
CL81	4564	1993		Anaktuvik River	Colville			Stream sed	Chandler Lake	A–3	15S	03E	35	SW	Umiat	
CL81	4565	1993		Anaktuvik River	Colville	Shale	Rubblecrop	Grab	Chandler Lake	A–3	15S	03E	35	SW	Umiat	
CL82	4566	1993		Anaktuvik River	Colville	Shale	Float	Select	Chandler Lake	A–3	15S	03E	35	NW	Umiat	
CL83	4370	1993		Anivik Creek	Colville			Stream sed	Chandler Lake	A–3	14S	03E	32	SE	Umiat	
CL83	4371	1993		Anivik Creek	Colville			Stream sed	Chandler Lake	A–3	14S	03E	32	SE	Umiat	
CL84	4368	1993		Anivik Creek	Colville			Stream sed	Chandler Lake	A–3	14S	03E	33	SW	Umiat	
CL84	4369	1993		Anivik Creek	Colville			Stream sed	Chandler Lake	A–3	14S	03E	32	SE	Umiat	
CL85	4367	1993		Anivik Creek	Colville			Stream sed	Chandler Lake	A–3	14S	03E	33	NW	Umiat	
CL86	4349	1993		Akvalutak Creek	Colville	Shale	Rubblecrop	Select	Chandler Lake	A–3	14S	03E	22	SW	Umiat	
CL86	4350	1993		Akvalutak Creek	Colville	Shale	Rubblecrop	Select	Chandler Lake	A–3	14S	03E	22	SW	Umiat	
CL87	4697	1993		Mt. Stuver	Colville	Chert	Outcrop	Select	Chandler Lake	A–3	14S	03E	24	NW	Umiat	
CL88	4481	1993		Mt. Stuver	Colville	Barite	Float	Select	Chandler Lake	A–3	14S	03E	24	NE	Umiat	
CL89	4497	1993		Mt. Stuver North	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–3	14S	04E	19	SW	Umiat	
CL90	4749	1993		Kayak Creek	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–2	14S	04E	35	NW	Umiat	
CL90	4750	1993		Kayak Creek	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–2	14S	04E	35	NW	Umiat	
CL90	4751	1993		Kayak Creek	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–2	14S	04E	35	NW	Umiat	
CL91	4493	1993		Kayak Creek	Colville	Chert	Float	Select	Chandler Lake	A–2	14S	04E	36	SW	Umiat	
CL92	4630	1993		Fan Mtn	Colville	Shale/ls/barite	Outcrop	Repr chip	Chandler Lake	A–2	15S	04E	12	NE	Umiat	
CL92	4676	1993		Fan Mtn Southwest	Colville	Barite	Rubblecrop	Select	Chandler Lake	A–2	15S	04E	12	NE	Umiat	
CL92	4730	1993		Fan Mtn	Colville	Limestone	Rubblecrop	Grab	Chandler Lake	A–2	15S	04E	12	NE	Umiat	
CL93	4363	1993		Fan Mtn South	Colville	Barite	Float	Select	Chandler Lake	A–2	15S	05E	7	NW	Umiat	
CL94	4549	1993		Anaktuvik River trib	Colville	Limestone	Rubblecrop	Select	Chandler Lake	A–2	15S	05E	7	SW	Umiat	
CL94	4550	1993	Anaktuvuk River East	Anaktuvik River trib	Colville	Limestone	Rubblecrop	Select	Chandler Lake	A–2	15S	05E	7	NW	Umiat	<9.00
CL95	4546	1993		Anaktuvik River	Colville	Limestone	Rubblecrop	Select	Chandler Lake	A–2	15S	05E	7	SW	Umiat	
CL95	4547	1993		Anaktuvik River	Colville	Limestone	Rubblecrop	Select	Chandler Lake	A–2	15S	05E	7	SW	Umiat	
CL95	4548	1993		Anaktuvik River	Colville	Limestone	Rubblecrop	Select	Chandler Lake	A–2	15S	05E	7	SW	Umiat	
CL95	4727	1993		Fan Mtn	Colville	Limestone	Outcrop	Select	Chandler Lake	A–2	15S	05E	7	SW	Umiat	
CL95	4728	1993		Fan Mtn	Colville	Shale	Outcrop	Grab	Chandler Lake	A–2	15S	05E	7	SW	Umiat	
CL95	4729	1993		Fan Mtn	Colville	Limestone	Rubblecrop	Select	Chandler Lake	A–2	15S	05E	7	SW	Umiat	
CL96	4551	1993	Anaktuvuk River East	Anaktuvik River trib	Colville	Limestone	Rubblecrop	Select	Chandler Lake	A–2	15S	05E	7	SE	Umiat	<9.00
CL97	4584	1993		Anaktuvik River trib	Colville			Stream sed	Chandler Lake	A–2	15S	05E	9	SE	Umiat	
CL97	4585	1993		Anaktuvik River trib	Colville			Stream sed	Chandler Lake	A–2	15S	05E	9	SW	Umiat	
CL98	4586	1993		Anaktuvik River trib	Colville	Sandstone	Float	Select	Chandler Lake	A–2	15S	05E	9	NE	Umiat	
CL99	4695	1993		Fan Mtn	Colville	Sandstone	Outcrop	Select	Chandler Lake	A–2	14S	05E	34	SW	Umiat	
CL100	4694	1993		Fan Mtn	Colville	Shale	Outcrop	Select	Chandler Lake	A–2	14S	05E	33	SW	Umiat	
CL101	4693	1993		Fan Mtn	Colville	Barite (?)	Rubblecrop	Select	Chandler Lake	A–2	14S	05E	33	SW	Umiat	
CL102	4589	1993		Fan Mtn North	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–2	14S	05E	32	SW	Umiat	
CL102	4590	1993		Fan Mtn North	Colville	Chert	Rubblecrop	Random chip	Chandler Lake	A–2	14S	05E	32	SW	Umiat	
CL102	4601	1993		Fan Mtn North	Colville	Shale	Rubblecrop	Grab	Chandler Lake	A–2	14S	05E	32	SW	Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
CL68	4599	<0.5	2.29	<5		422			<5	0.37	<2.0	5	287		20		5.62	<10	0.83	21	13	0.18	1365		4
CL69	4596	2.5	2.69	43		652			19	2.66	<2.0	17	58		29		>10.00	21	0.46	28	31	1.93	19558		<1
CL70	4559	0.7	1.18	<5		123			<5	0.32	<2.0	7	384		21		3.19	<10	0.72	9	9	0.17	183		9
CL71	4558	<0.5	1.75	58		522			<5	0.44	<2.0	14	239		11		1.71	<10	0.53	13	17	0.28	282		3
CL72	4461	<0.5	1.11	43		193			<5	1.57	<2.0	8	204		16		4.16	<10	0.40	<5	21	0.84	1091		3
CL72	4621	<0.5	4.31	58		617			18	2.96	<2.0	22	140		87		8.56	21	1.02	35	41	1.48	2388		30
CL73	4366	<0.5	1.07	44		>2000			22	0.46	<2.0	5	162		22		>10.00	15	0.38	7	7	0.54	7723		1
CL74	4462	<0.5	0.69	<5		197			6	0.06	<2.0	<1	245		9		1.53	<10	0.34	7	14	0.07	197		2
CL75	4555	1.1	0.60	14		426			13	4.86	<2.0	15	141		18		6.18	<10	0.18	<5	4	1.55	5130		3
CL76	4556	<0.5	1.44	9		349			<5	0.08	<2.0	6	232		13		1.71	<10	0.67	10	10	0.23	67		5
CL76	4557	<0.5	2.08	9		496			<5	0.39	<2.0	1	234		10		1.22	<10	0.67	14	11	0.24	31		8
CL77	4567	0.9	0.99	7		126			<5	0.05	<2.0	3	405		13		1.46	<10	0.37	10	9	0.05	54		<1
CL78	4568	<0.5	4.64	24		345			<5	0.17	<2.0	14	71		36		3.07	16	1.35	22	26	0.64	431		<1
CL79	4392	<0.5	0.91	40		268			7	0.36	4	9	327		43		1.54	<10	0.40	28	14	0.22	427		26
CL80	4391	1.5	2.09	43		183			12	1.12	<2.0	23	220		51		3.1	<10	0.33	18	20	0.38	240		3
CL81	4543	0.6	2.01	32		173			10	>10.00	<2.0	12	90		13		6.61	11	0.27	8	33	1.45	4238		<1
CL81	4544	<0.5	3.98	<5		294			9	1.60	<2.0	20	187		29		5.98	11	0.58	13	61	1.17	1777		<1
CL81	4545	0.6	1.97	37		224			28	>10.00	<2.0	13	104		80		7.92	18	0.37	21	35	2.85	9806		27
CL81	4563	<0.5	5.77	23		456			6	0.25	<2.0	17	88		50		3.88	18	1.18	27	35	0.68	558		<1
CL81	4564	<0.5	6.80	35		519			12	0.30	<2.0	20	96		52		4.18	20	1.22	28	41	0.79	661		2
CL81	4565	<0.5	8.14	53		721			10	0.51	2.5	30	157		88		6.08	17	1.27	49	59	1.22	755		26
CL82	4566	0.6	1.71	19		200			8	7.21	<2.0	12	157		43		6.12	<10	0.22	<5	46	2.35	1469		<1
CL83	4370	0.6	0.30	18		34			35	>10.00	<2.0	6	31		13		0.18	<10	0.08	8	4	6.35	58		<1
CL83	4371	1.3	0.46	10		41			24	>10.00	<2.0	5	68		20		0.23	<10	0.15	12	5	2.28	53		5
CL84	4368	0.9	0.99	11		76			9	>10.00	<2.0	4	53		21		0.62	10	0.27	12	8	2.70	132		3
CL84	4369	1.2	0.59	24		50			19	>10.00	<2.0	5	79		24		0.3	<10	0.18	14	5	2.88	72		6
CL85	4367	<0.5	0.27	15		30			31	>10.00	<2.0	8	19		17		0.15	<10	0.07	7	4	7.02	47		5
CL86	4349	<0.5	4.22	73		492			<5	0.20	4	16	249		55		1.35	14	0.77	53	106	0.26	150		31
CL86	4350	<0.5	2.87	<5		447			<5	0.91	<2.0	12	77		24		>10.00	27	0.66	15	28	1.07	3378		<1
CL87	4697	<0.5	1.58	<5		>2000			28	2.39	<2.0	5	17		12		>10.00	33	0.30	<5	22	1.76	4552		6
CL88	4481	<0.5	0.91	<5		>2000			20	8.08	<2.0	<1	21		7		>10.00	24	0.23	<5	14	1.45	3657		5
CL89	4497	<0.5	0.92	<5		>2000			16	6.30	<2.0	<1	16		11		>10.00	30	0.24	<5	15	1.96	3904		9
CL90	4749	<0.5	1.72	<5		449			13	1.90	<2.0	7	51		21		>10.00	28	0.29	6	28	1.29	13129		3
CL90	4750	<0.5	1.62	<5		875			13	2.03	<2.0	8	42		16		>10.00	25	0.32	<5	22	1.23	12024		<1
CL90	4751	<0.5	1.28	<5		263			7	3.01	<2.0	7	36		14		>10.00	20	0.20	<5	19	1.92	3880		4
CL91	4493	0.9	2.14	72		404			23	1.61	<2.0	11	41		27		>10.00	18	0.31	6	24	1.37	7792		3
CL92	4630	<0.5	1.57	31		219			<5	>10.00	<2.0	10	29		41		2.98	<10	0.09	12	16	0.56	1252		13
CL92	4676	<0.5	0.39	<5		558			6	0.31	<2.0	6	22		12		0.97	<10	0.01	<5	8	0.21	84		6
CL92	4730	<0.5	1.54	18		96			27	>10.00	<2.0	3	18		13		2.85	15	0.41	10	15	0.78	3827		5
CL93	4363	<0.5	0.58	29		>2000			7	1.09	<2.0	4	15		24		1.13	<10	0.01	<5	5	0.39	239		2
CL94	4549																								
CL94	4550	<0.5	2.44	<5		1353	<9.00		17	>10.00	<2.0	5	38		65		3.69	<10	0.37	11	5	1.47	1151	<9.00	1
CL95	4546	<0.5	1.54	<5		624			19	>10.00	<2.0	7	39		12		8.81	<10	0.46	5	10	1.02	843		3
CL95	4547	<0.5	0.52	11		1096			<5	0.43	<2.0	4	16		10		0.78	<10	0.03	<5	9	0.17	63		3
CL95	4548	<0.5	1.90	54		729			15	>10.00	<2.0	6	38		27		5.55	<10	0.44	6	15	1.69	2015		3
CL95	4727	<0.5	1.73	<5		84			22	>10.00	<2.0	6	38		17		8.12	17	0.57	10	13	0.65	1223		<1
CL95	4728	<0.5	3.22	18		433			19	0.16	<2.0	4	73		38		1.95	12	0.96	16	29	0.50	428		3
CL95	4729	<0.5	1.63	<5		62			<5	0.24	<2.0	3	100		24		>10.00	13	0.59	<5	18	0.21	63		<1
CL96	4551	<0.5	0.12	37		1004	<9.00		9	>10.00	<2.0	2	130		6		0.11	<10	0.04	<5	<2	2.50	62	<9.00	3
CL97	4584	0.7	0.57	32		339			28	>10.00	<2.0	6	45		25		0.35	<10	0.20	13	6	6.34	135		15
CL97	4585	0.8	3.61	61		1140			24	7.82	<2.0	12	107		43		2.12	12	0.88	23	18	3.94	446		11
CL98	4586	0.5	0.22	<5		40			9	1.32	<2.0	6	349		10		0.44	<10	0.05	<5	9	0.19	67		4
CL99	4695	<0.5	3.47	<5		510			<5	1.69	<2.0	9	69		40		>10.00	23	0.29	23	29	0.27	2045		14
CL100	4694	<0.5	3.50	<5		375			15	1.12	<2.0	34	128		92		>10.00	31	0.24	12	36	0.91	12767		6
CL101	4693	<0.5	1.59	<5		460			<5	0.10	<2.0	40	61		34		>10.00	26	0.26	8	22	0.14	4942		2
CL102	4589	<0.5	1.03	<5		181			7	8.88	<2.0	7	37		19		>10.00	28	0.21	7	12	1.08	6338		2
CL102	4590	<0.5	1.90	<5		>2000			<5	2.71	<2.0	10	40		33		>10.00	29	0.36	10	27	0.97	11076		2
CL102	4601	<0.5	7.00	45		808			11	0.22	<2.0	18	129		57		4.16	28	1.05	15	157	0.78	428		<1

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
CL68	4599	0.16	9	17	38					<5	<20	44	<100	<25	0.20	<9.0	54	<20	14	460		35	
CL69	4596	0.73	44	45	35					<5	35	103	<100	<25	0.14	<9.0	114	<20	62	94		55	
CL70	4559	0.30	5	18	16					<5	<20	33	<100	<25	0.10	<9.0	52	<20	<5	10		38	
CL71	4558	0.31	<5	20	25					<5	<20	40	<100	<25	0.11	<9.0	39	<20	10	10		40	
CL72	4461	0.53	7	19	12					8	<20	41	<100	<25	0.10	<9.0	43	<20	<5	21		31	
CL72	4621	0.59	19	69	120					9	29	109	<100	<25	0.34	<9.0	118	<20	26	108		76	
CL73	4366	0.40	25	32	23					<5	21	74	<100	<25	0.07	<9.0	58	<20	17	18		35	
CL74	4462	0.08	<5	5	15					<5	<20	21	<100	<25	0.06	<9.0	28	<20	<5	14		28	
CL75	4555	0.09	8	19	115					<5	<20	54	<100	<25	0.03	<9.0	27	<20	7	12		14	
CL76	4556	0.18	6	14	19					<5	<20	37	<100	<25	0.20	<9.0	47	<20	<5	19		67	
CL76	4557	0.19	6	9	21					<5	<20	45	<100	<25	0.18	<9.0	49	<20	8	19		61	
CL77	4567	0.13	<5	9	16					<5	<20	20	<100	<25	0.07	<9.0	32	<20	<5	4		30	
CL78	4568	0.40	14	34	15					<5	<20	61	<100	<25	0.37	<9.0	95	<20	15	57		101	
CL79	4392	0.15	<5	29	35					10	<20	45	<100	<25	0.10	<9.0	60	<20	9	34		36	
CL80	4391	0.06	7	44	67					<5	<20	54	<100	<25	0.11	<9.0	62	<20	18	9		39	
CL81	4543	0.23	14	23	19					<5	<20	292	<100	<25	0.15	<9.0	52	<20	10	42		43	
CL81	4544	0.40	15	52	28					<5	<20	72	<100	<25	0.29	<9.0	75	<20	11	107		75	
CL81	4545	0.26	15	36	365					<5	<20	134	<100	<25	0.10	<9.0	62	<20	44	53		29	
CL81	4563	0.44	18	47	38					<5	23	71	<100	<25	0.46	<9.0	122	<20	17	86		117	
CL81	4564	0.52	20	51	22					<5	25	80	<100	<25	0.50	<9.0	135	<20	18	92		128	
CL81	4565	0.94	25	101	45					<5	27	107	<100	<25	0.60	<9.0	191	<20	23	150		137	
CL82	4566	0.15	10	27	105					<5	<20	87	<100	<25	0.09	<9.0	44	<20	12	101		25	
CL83	4370	0.03	<5	26	7					<5	25	145	<100	<25	0.02	<9.0	38	<20	6	101		<5	
CL83	4371	0.04	<5	43	8					<5	<20	181	<100	<25	0.03	<9.0	56	<20	11	172		<5	
CL84	4368	0.06	<5	40	<2					<5	<20	219	<100	<25	0.05	<9.0	60	<20	9	156		12	
CL84	4369	0.05	<5	54	17					<5	<20	180	<100	<25	0.04	<9.0	63	<20	14	223		6	
CL85	4367	0.03	<5	21	10					12	<20	152	<100	<25	0.02	<9.0	36	<20	<5	76		<5	
CL86	4349	0.17	13	59	46					12	<20	73	<100	<25	0.45	<9.0	113	<20	21	93		111	
CL86	4350	0.21	42	29	25					<5	33	68	<100	<25	0.22	<9.0	63	<20	16	36		53	
CL87	4697	0.61	40	33	39					<5	<20	384	<100	<25	0.04		24	<20	6	759		26	
CL88	4481	0.40	35	16	48					<5	42	516	<100	<25	0.04		26	<20	5	492		16	
CL89	4497	0.40	35	16	29					<5	<20	364	<100	<25	0.04		25	<20	11	1408		15	
CL90	4749	0.26	41	24	41					<5	31	146	<100	<25	0.09		46	<20	18	135		21	
CL90	4750	0.28	41	24	23					<5	22	286	<100	<25	0.09		41	<20	11	301		19	
CL90	4751	0.39	37	25	25					<5	34	103	<100	<25	0.04		27	<20	5	1287		16	
CL91	4493	0.35	46	28	56					<5	21	99	<100	<25	0.10		67	<20	37	227		28	
CL92	4630	0.42	<5	38	23					<5	26	874	<100	<25	0.03		60	<20	39	148		<5	
CL92	4676	0.07	<5	11	<2					<5	<20	159	<100	<25	0.02		8	<20	<5	42		<5	
CL92	4730	0.33	7	18	11					<5	<20	598	<100	<25	0.08		48	<20	15	36		21	
CL93	4363	0.36	<5	17	4					<5	<20	162	<100	<25	0.04	<9.0	28	<20	18	34		7	
CL94	4549															<9.0							
CL94	4550	1.44	12	8	4	<9.00			0.17	6	<20	548	<100	<25	0.13	<9.0	103	<20	16	97	<9.00	28	
CL95	4546	0.24	16	17	11					<5	<20	712	<100	<25	0.07	<9.0	57	<20	17	45		23	
CL95	4547	0.07	<5	12	12					<5	<20	185	<100	<25	0.03	<9.0	10	<20	<5	45		8	
CL95	4548	0.63	14	32	7					<5	<20	879	<100	<25	0.09	<9.0	67	<20	23	129		28	
CL95	4727	0.18	13	13	13					12	27	920	<100	<25	0.08		66	<20	20	210		20	
CL95	4728	0.21	8	33	13					18	<20	150	<100	<25	0.22		95	<20	12	151		71	
CL95	4729	0.11	31	55	22					<5	<20	28	<100	<25	0.12		48	<20	7	33		35	
CL96	4551	0.03	<5	10	8	<9.00			0.06	7	<20	73	<100	<25	<0.01	<9.0	22	<20	<5	25	<9.00	<5	
CL97	4584	0.04	6	44	16					<5	26	108	<100	<25	0.03	<9.0	52	<20	8	117		8	
CL97	4585	0.49	10	70	15					14	<20	89	<100	<25	0.20		118	<20	24	268		63	
CL98	4586	0.02	<5	33	4					<5	<20	10	<100	<25	<0.01		11	<20	11	57		<5	
CL99	4695	0.30	41	29	44					<5	40	174	<100	<25	0.45		116	<20	29	50		75	
CL100	4694	0.29	27	91	165					<5	50	74	<100	<25	0.16		196	<20	53	2652		40	
CL101	4693	0.25	38	66	41					<5	24	68	<100	<25	0.31		107	<20	10	214		60	
CL102	4589	0.16	38	25	28					<5	21	244	<100	<25	0.04		76	<20	22	81		11	
CL102	4590	0.38	39	27	17					<5	<20	237	<100	<25	0.09		48	<20	66	275		26	
CL102	4601	0.58	19	76	11					<5	<20	94	<100	<25	0.53		180	<20	15	158		119	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
CL102	4602	1993		Fan Mtn North	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–2	14S	05E	31	SE	Umiat	
CL103	4587	1993		Fan Mtn North	Colville	Sandstone	Rubblecrop	Select	Chandler Lake	A–2	14S	05E	29	SW	Umiat	
CL103	4588	1993		Fan Mtn North	Colville	Shale	Rubblecrop	Grab	Chandler Lake	A–2	14S	05E	29	SW	Umiat	
CL104	4677	1993		Kayak Creek	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–2	14S	05E	18	N Cent	Umiat	
CL104	4696	1993	Kayak Creek West	Kayak Creek	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–2	14S	05E	18	N Cent	Umiat	
CL105	4496	1993		Kayak Creek	Colville	Barite	Rubblecrop	Select	Chandler Lake	A–2	14S	05E	7	NW	Umiat	
CL106	4480	1993		Kayak Creek	Colville	Limestone	Outcrop	Repr chip	Chandler Lake	B–2	14S	05E	7	NW	Umiat	
CL107	4774	1993		Kayak Creek	Colville	Chert	Outcrop	Select	Chandler Lake	B–2	14S	05E	6	SE	Umiat	
CL108	4760	1993		Kayak Creek West	Colville	Chert	Rubblecrop	Select	Chandler Lake	B–2	14S	05E	6	NW	Umiat	
CL108	4773	1993		Kayak Creek	Colville	Chert	Outcrop	Select	Chandler Lake	B–2	14S	05E	6	NW	Umiat	
CL109	4494	1993		Kayak Creek	Colville	Chert	Rubblecrop	Select	Chandler Lake	B–2	14S	05E	4	SW	Umiat	
CL109	4722	1993		Kayak Creek East	Colville	Chert	Rubblecrop	Select	Chandler Lake	B–2	14S	05E	9	NW	Umiat	
CL109	4723	1993		Kayak Creek East	Colville	Chert	Outcrop	Grab	Chandler Lake	B–2	14S	05E	8	NE	Umiat	
CL110	4419	1993		Ear Peak	Colville	Sandstone	Float	Grab	Chandler Lake	B–2	13S	05E	13	SW	Umiat	
CL111	4420	1993		Ear Peak	Colville	Sandstone	Float	Grab	Chandler Lake	B–2	13S	05E	11	SE	Umiat	
CL112	4421	1993		Ear Peak	Colville	Barite	Float	Grab	Chandler Lake	B–2	13S	05E	2	NE	Umiat	
CL113	4357	1993		Erratic Creek	Colville	Conglomerate	Rubblecrop	Select	Chandler Lake	B–2	13S	06E	6	SE	Umiat	
CL113	4358	1993		Eratic Creek	Colville	Chert	Rubblecrop	Select	Chandler Lake	B–2	13S	06E	6	SE	Umiat	
CL114	4356	1993		Erratic Creek	Colville	Limestone	Rubblecrop	Select	Chandler Lake	B–2	13S	06E	8	NW	Umiat	
CL115	4675	1993		Welcome Creek	Colville	Chert	Outcrop	Select	Chandler Lake	B–2	13S	06E	16	NE	Umiat	
CL116	4674	1993		Welcome Creek	Colville	Sandstone	Float	Grab	Chandler Lake	B–2	13S	06E	16	SE	Umiat	
CL117	4720	1993		Welcome Creek trib	Colville	Chert	Float	Select	Chandler Lake	B–2	13S	06E	2	SW	Umiat	
CL117	4721	1993		Welcome Creek trib	Colville	Chert	Float	Select	Chandler Lake	B–2	13S	06E	2	SW	Umiat	
CL118	4818	1993		Nanushuk River trib	Colville	Siltstone/shale	Outcrop	Random chip	Chandler Lake	B–2	13S	06E	23	NE	Umiat	
CL118	4819	1993		Nanushuk River W trib	Colville	Breccia vein	Outcrop	Random chip	Chandler Lake	B–2	13S	06E	23	NE	Umiat	
CL118	4834	1993		Nanushuk River	Colville	Siltstone	Float	Select	Chandler Lake	B–2	13S	06E	23	NE	Umiat	
CL118	4835	1993		Nanushuk River	Colville	Siltstone	Outcrop	Repr chip	Chandler Lake	B–2	13S	06E	23	NE	Umiat	
CL119	4815	1993		Nanushuk River W trib	Colville			Stream sed	Chandler Lake	B–2	13S	06E	24	NW	Umiat	
CL119	4816	1993		Nanushuk River W trib	Colville	Siltstone	Float	Select	Chandler Lake	B–2	13S	06E	24	NW	Umiat	
CL119	4817	1993		Nanushuk River trib	Colville	Siltstone	Float	Select	Chandler Lake	B–2	13S	06E	23	NE	Umiat	
CL120	4785	1993		Nanushuk River trib	Colville	Chert	Rubblecrop	Select	Chandler Lake	B–1	13S	07E	8	SW	Umiat	
CL121	4784	1993		Nanushuk River trib	Colville	Chert	Rubblecrop	Select	Chandler Lake	B–1	13S	07E	8	SW	Umiat	
CL122	4803	1993		Nanushuk River trib	Colville	Chert	Float	Select	Chandler Lake	B–1	13S	07E	8	SE	Umiat	
CL122	4804	1993		Nanushuk River trib	Colville	Shale	Outcrop	Random chip	Chandler Lake	B–1	13S	07E	8	SE	Umiat	
CL123	4486	1993		Nanushuk River trib	Colville	Sandstone	Float	Grab	Chandler Lake	B–1	13S	07E	30	SW	Umiat	
CL124	4790	1993		Nanushuk River trib	Colville			Stream sed	Chandler Lake	A–2	14S	06E	12	NW	Umiat	
CL125	4791	1993		Nanushuk River trib	Colville	Conglomerate	Float	Select	Chandler Lake	A–2	14S	06E	12	NW	Umiat	
CL126	4792	1993		Nanushuk River trib	Colville	Conglomerate	Outcrop	Random chip	Chandler Lake	A–2	14S	06E	12	SE	Umiat	
CL126	4793	1993		Nanushuk River	Colville	Shale	Outcrop	Random chip	Chandler Lake	A–2	14S	06E	12	SE	Umiat	
CL126	4794	1993		Nanushuk River trib	Colville	Siltstone	Outcrop	Random chip	Chandler Lake	A–2	14S	06E	12	SE	Umiat	
CL127	4483	1993		Nanushuk River trib	Colville	Barite	Float	Grab	Chandler Lake	A–2	14S	06E	13	SW	Umiat	
CL128	4651	1993		Nanushik River trib	Colville	Sandstone	Outcrop	Select	Chandler Lake	A–2	14S	06E	29	SW	Umiat	
CL129	4622	1993		Nanushuk River	Colville	Sandstone	Float	Grab	Chandler Lake	A–2	14S	06E	36	NW	Umiat	
CL130	4465	1993		Cockedhat Mtn	Colville	Shale	Float	Grab	Chandler Lake	A–2	15S	06E	2	NE	Umiat	
CL131	4724	1993		Cockedhat Mtn North	Colville	Chert	Float	Select	Chandler Lake	A–2	15S	06E	2	NE	Umiat	
CL131	4725	1993		Cockedhat Mtn North	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–2	15S	06E	1	NW	Umiat	
CL132	4463	1993		Cockedhat Mtn	Colville	Barite (?)	Float	Grab	Chandler Lake	A–2	15S	06E	1	SW	Umiat	
CL133	4464	1993		Cockedhat Mtn	Colville	Shale	Float	Grab	Chandler Lake	A–2	15S	06E	2	NE	Umiat	
CL133	4669	1993		Cockedhat Mtn South	Colville	Barite	Float	Select	Chandler Lake	A–2	15S	06E	1	SW	Umiat	
CL133	4670	1993		Cockedhat Mtn South	Colville	Limestone	Float	Select	Chandler Lake	A–2	15S	06E	2	SE	Umiat	
CL134	4636	1993		Cockedhat Mtn East	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–2	15S	06E	13	NW	Umiat	
CL134	4717	1993		Cockedhat Mtn East	Colville	Chert	Outcrop	Select	Chandler Lake	A–2	15S	06E	13	NW	Umiat	
CL135	4631	1993		Cockedhat Mtn SW	Colville	Limestone	Outcrop	Select	Chandler Lake	A–2	15S	06E	21	NW	Umiat	
CL136	4603	1993		Cockedhat Mtn South	Colville	Limestone	Outcrop	Select	Chandler Lake	A–2	15S	06E	22	NW	Umiat	
CL136	4604	1993		Cockedhat Mtn South	Colville	Shale	Outcrop	Contin chip	Chandler Lake	A–2	15S	06E	22	NW	Umiat	
CL136	4605	1993	Cockedhat Mtn SW	Cockedhat Mtn South	Colville	Chert	Outcrop	Select	Chandler Lake	A–2	15S	06E	22	NW	Umiat	
CL136	4606	1993		Cockedhat Mtn South	Colville	Chert	Outcrop	Select	Chandler Lake	A–2	15S	06E	22	NW	Umiat	
CL136	4607	1993		Cockedhat Mtn South	Colville	Chert	Outcrop	Select	Chandler Lake	A–2	15S	06E	22	NW	Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
CL102	4602	<0.5	0.77	<5		224			<5	6.24	<2.0	7	23		18		>10.00	28	0.10	<5	11	1.56	6060		<1
CL103	4587	1.1	2.24	13		469			22	1.75	<2.0	38	67		17		>10.00	20	0.48	<5	18	0.31	14240		1
CL103	4588	<0.5	6.33	45		545			9	0.08	<2.0	10	156		62		0.94	22	0.52	26	68	0.16	57		4
CL104	4677	<0.5	1.11	<5		728			7	3.38	<2.0	4	26		18		>10.00	25	0.24	<5	18	1.75	5176		1
CL104	4696	<0.5	1.00	<5		215			22	5.73	<2.0	9	26		31		>10.00	29	0.17	<5	16	2.38	4419		20
CL105	4496	<0.5	0.53	23		>2000			<5	0.25	<2.0	<1	20		35		1.68	<10	0.01	8	9	0.19	134		17
CL106	4480	<0.5	2.01	8		1589			10	>10.00	<2.0	5	35		13		3.37	16	0.63	8	12	0.38	1136		4
CL107	4774	<0.5	0.91	<5		1719			11	4.67	<2.0	2	16		9		>10.00	25	0.25	<5	16	1.97	2975		3
CL108	4760	<0.5	0.74	<5		209			13	>10.00	<2.0	11	32		12		>10.00	29	0.22	<5	12	1.03	6988		<1
CL108	4773	<0.5	1.03	<5		322			31	6.68	<2.0	5	17		15		>10.00	29	0.27	<5	15	1.34	5922		6
CL109	4494	<0.5	1.19	<5		1319			7	5.78	<2.0	8	19		9		>10.00	29	0.28	<5	21	1.44	2787		5
CL109	4722	<0.5	1.03	<5		298			<5	2.66	<2.0	2	40		17		>10.00	21	0.25	<5	20	1.93	3096		<1
CL109	4723	<0.5	0.93	<5		371			<5	6.92	<2.0	8	38		22		>10.00	12	0.19	<5	17	1.50	2651		4
CL110	4419	<0.5	1.46	18		174			<5	0.06	<2.0	7	288		17		1.2	<10	0.32	12	13	0.14	202		<1
CL111	4420	<0.5	2.52	25		252			6	0.13	<2.0	11	257		19		2.58	<10	0.47	15	23	0.43	138		<1
CL112	4421	<0.5	0.63	<5		996			6	>10.00	<2.0	4	37		12		>10.00	21	0.13	7	9	1.22	2894		<1
CL113	4357	<0.5	1.47	25		1099			7	0.04	<2.0	8	267		22		3.02	<10	0.14	10	16	0.03	740		4
CL113	4358	<0.5	0.72	13		218			12	0.06	<2.0	41	209		39		1.77	<10	0.14	10	13	0.03	62		1
CL114	4356	<0.5	0.19	<5		>2000			<5	0.11	<2.0	3	10		5		0.57	<10	0.01	<5	4	0.07	48		<1
CL115	4675	<0.5	1.65	<5		1056			19	1.68	<2.0	4	33		25		>10.00	34	0.36	<5	22	1.04	14373		8
CL116	4674	<0.5	3.14	15		589			7	1.55	<2.0	17	219		32		3.04	12	0.48	27	32	0.59	802		14
CL117	4720	<0.5	0.75	<5		1340			16	5.70	<2.0	<1	31		4		>10.00	18	0.18	<5	11	2.47	4361		<1
CL117	4721	<0.5	0.93	<5		334			10	7.52	<2.0	<1	31		6		>10.00	21	0.22	<5	14	1.36	3734		<1
CL118	4818	<0.5	2.99	30		331			11	9.27	<2.0	14	80		55		5.97	12	0.48	12	23	2.17	3088		2
CL118	4819	<0.5	1.56	<5		1224			8	9.80	<2.0	37	70		420		5.21	<10	0.20	<5	10	1.99	3122		<1
CL118	4834	<0.5	1.66	30		>2000			14	7.79	<2.0	14	143		83		6.11	<10	0.22	32	15	2.24	3908		28
CL118	4835	<0.5	1.06	12		1233			20	>10.00	<2.0	15	25		238		8.52	13	0.11	<5	9	4.10	4960		5
CL119	4815	<0.5	6.86	20		444			<5	0.24	<2.0	16	101		44		4.11	20	0.85	33	45	0.82	705		4
CL119	4816	<0.5	0.92	30		>2000			9	>10.00	<2.0	9	22		190		5.2	15	0.11	<5	8	1.74	10835		2
CL119	4817	<0.5	2.78	40		408			<5	2.79	<2.0	15	121		31		7.6	<10	0.38	14	21	1.07	3149		2
CL120	4785	<0.5	1.51	<5		725			17	3.47	<2.0	<1	19		<1		>10.00	30	0.26	<5	11	1.63	7006		<1
CL121	4784	<0.5	0.71	<5		272			20	9.99	<2.0	4	15		11		>10.00	27	0.19	<5	8	1.68	3412		4
CL122	4803	<0.5	1.23	<5		1118			<5	8.80	<2.0	4	26		15		>10.00	24	0.26	<5	18	1.33	4157		8
CL122	4804	<0.5	4.22	<5		1000			6	0.30	<2.0	21	125		33		5.48	22	0.84	9	141	0.72	590		2
CL123	4486	<0.5	2.29	<5		1167			12	4.95	<2.0	8	31		11		>10.00	29	0.41	6	26	1.82	5076		8
CL124	4790	<0.5	6.41	10		411			8	0.23	<2.0	16	106		38		4.01	17	1.18	32	37	0.98	431		3
CL125	4791	<0.5	1.21	28		639			<5	0.33	<2.0	4	225		<1		3.02	<10	0.25	<5	3	0.08	317		<1
CL126	4792	<0.5	1.49	<5		125			<5	0.07	<2.0	<1	209		<1		1.04	<10	0.05	<5	11	0.01	213		<1
CL126	4793	<0.5	8.67	<5		661			9	0.27	<2.0	16	105		27		5.91	27	1.37	12	38	1.51	706		<1
CL126	4794	<0.5	3.14	<5		555			<5	0.30	<2.0	152	78		1125		>10.00	23	0.40	<5	34	0.17	7555		<1
CL127	4483	<0.5	2.24	<5		866			14	1.60	<2.0	7	28		25		>10.00	28	0.47	<5	13	3.55	5514		6
CL128	4651	<0.5	1.65	<5		330			<5	1.08	<2.0	7	68		34		>10.00	23	0.28	<5	9	0.63	3047		<1
CL129	4622	<0.5	3.97	6		314			14	0.21	<2.0	17	152		34		7.59	19	0.50	14	39	0.64	495		7
CL130	4465	1.4	2.25	42		652			14	4.78	<2.0	4	44		30		>10.00	11	0.45	<5	21	0.54	2694		2
CL131	4724	<0.5	0.93	<5		241			11	7.21	<2.0	3	36		12		>10.00	22	0.22	<5	15	1.33	5063		5
CL131	4725	<0.5	1.24	<5		353			25	5.97	<2.0	6	39		16		>10.00	19	0.28	<5	21	1.48	4096		10
CL132	4463	<0.5	0.07	11		10			9	>10.00	<2.0	<1	9		4		0.15	11	<0.01	<5	<2	1.04	144		<1
CL133	4464	1.4	0.92	75		369			11	3.36	<2.0	4	20		13		>10.00	<10	0.22	<5	10	1.58	5745		3
CL133	4669	<0.5	0.05	54		51			27	>10.00	<2.0	5	41		28		0.03	<10	0.01	22	4	7.12	50		27
CL133	4670	<0.5	0.04	47		33			16	>10.00	<2.0	<1	9		9		0.04	13	<0.01	<5	<2	5.60	33		7
CL134	4636	<0.5	0.87	<5		521			11	4.23	<2.0	6	28		18		>10.00	23	0.15	<5	12	1.46	4930		<1
CL134	4717	<0.5	1.96	<5		1395			14	1.64	<2.0	10	68		38		>10.00	27	0.18	6	16	1.53	14658		<1
CL135	4631	<0.5	0.99	<5		280			14	>10.00	<2.0	8	25		8		>10.00	20	0.08	7	16	1.36	2411		<1
CL136	4603	<0.5	0.59	<5		82			6	>10.00	<2.0	2	32		11		>10.00	21	0.11	<5	8	0.98	2648		<1
CL136	4604	<0.5	8.18	80		>2000			5	0.65	<2.0	23	140		36		5.83	25	1.15	16	175	0.81	744		3
CL136	4605	<0.5	0.65	<5		251			6	3.64	<2.0	6	22		83		>10.00	26	0.09	<5	12	1.18	3464		9
CL136	4606	<0.5	0.92	<5		641			8	5.09	<2.0	7	30		12		>10.00	28	0.17	<5	14	1.37	4286		<1
CL136	4607	<0.5	0.83	<5		847			<5	6.08	<2.0	9	23		14		>10.00	26	0.19	<5	14	1.22	3434		4

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
CL102	4602	0.16	38	27	16					<5	29	953	<100	<25	0.03		24	<20	18	1747		<5	
CL103	4587	0.23	37	79	26					<5	<20	80	<100	<25	0.22		65	<20	20	22		46	
CL103	4588	0.28	13	47	16					<5	<20	70	<100	<25	0.42		165	<20	17	65		104	
CL104	4677	0.36	42	16	31					<5	33	67	<100	<25	0.04		20	<20	7	61		15	
CL104	4696	0.19	34	22	51					<5	51	68	<100	<25	0.05		23	<20	22	13656		9	
CL105	4496	0.15	<5	29	5					<5	<20	120	<100	<25	0.03		21	<20	<5	70		6	
CL106	4480	0.40	11	28	29					<5	<20	509	<100	<25	0.11		66	<20	13	53		31	
CL107	4774	0.46	35	14	23					<5	44	124	<100	<25	0.03		23	<20	7	979		17	
CL108	4760	0.38	35	35	41					<5	<20	144	<100	<25	0.03		24	<20	12	137		14	
CL108	4773	0.50	38	17	28					<5	<20	125	<100	<25	0.04		28	<20	7	4163		20	
CL109	4494	0.44	40	22	35					<5	40	>2000	<100	<25	0.05		29	<20	<5	494		22	
CL109	4722	0.32	48	16	24					<5	30	73	<100	<25	0.04		25	<20	5	284		13	
CL109	4723	0.24	41	18	32					11	33	>2000	<100	<25	0.04		28	<20	<5	2109		10	
CL110	4419	0.22	<5	17	4					<5	<20	29	<100	<25	0.11	<9.0	39	<20	6	26		32	
CL111	4420	0.42	8	26	18					<5	<20	37	<100	<25	0.19	<9.0	58	<20	7	48		44	
CL112	4421	0.29	33	16	23					<5	33	411	<100	<25	0.02	<9.0	54	<20	16	123		13	
CL113	4357	0.04	<5	22	12					<5	<20	54	<100	<25	0.10	<9.0	52	<20	11	37		28	
CL113	4358	0.05	11	48	21					<5	<20	23	<100	<25	0.34	<9.0	45	<20	9	192		154	
CL114	4356	0.03	<5	5	5					<5	<20	182	<100	<25	0.01	<9.0	4	<20	<5	23		<5	
CL115	4675	0.49	37	21	39					<5	49	268	<100	<25	0.08		36	<20	9	828		24	
CL116	4674	0.51	10	45	35					<5	<20	82	<100	<25	0.31		77	<20	20	113		99	
CL117	4720	0.24	41	7	19					<5	<20	110	<100	<25	0.03		11	<20	5	326		9	
CL117	4721	0.26	44	7	28					<5	29	89	<100	<25	0.04		16	<20	6	3846		11	
CL118	4818	0.20	15	26	22					<5	<20	103	<100	<25	0.23		77	<20	16	103		71	
CL118	4819	0.11	9	50	5					17	<20	189	<100	<25	0.09		47	<20	12	67		29	
CL118	4834	0.12	13	57	54					15	<20	169	<100	<25	0.23		93	<20	20	84		103	
CL118	4835	0.14	14	23	22					8	<20	239	<100	<25	0.06		40	<20	15	343		13	
CL119	4815	0.47	21	52	17					<5	<20	80	<100	<25	0.52		120	<20	19	102		131	
CL119	4816	0.09	11	11	20					6	<20	142	<100	<25	0.05		44	<20	45	47		17	
CL119	4817	0.12	12	39	50					15	<20	61	<100	<25	0.18		65	<20	16	75		53	
CL120	4785	0.54	41	<1	17					6	31	102	<100	<25	0.05		4	<20	6	5294		28	
CL121	4784	0.35	33	22	50					6	23	119	<100	<25	0.03		20	<20	<5	4558		13	
CL122	4803	0.42	37	15	33	<0.01				<5	24	219	<100	<25	0.04		29	<20	9	3774	0	25	
CL122	4804	0.38	18	71	19					<5	<20	66	<100	<25	0.45		172	<20	11	259		105	
CL123	4486	0.37	35	30	158					<5	<20	133	<100	<25	0.10		42	<20	16	441		31	
CL124	4790	0.56	22	53	18					11	<20	75	<100	<25	0.55		120	<20	20	94		136	
CL125	4791	0.04	<5	5	29					7	<20	26	<100	<25	0.06		52	<20	9	152		24	
CL126	4792	0.04	<5	<1	<2					10	<20	25	<100	<25	0.09		7	<20	<5	<2		30	
CL126	4793	0.67	24	43	7					<5	<20	69	<100	<25	0.57		118	<20	20	155		138	
CL126	4794	0.20	25	125	<2					12	<20	60	<100	<25	0.39		76	<20	11	272		95	
CL127	4483	0.50	36	50	33					<5	22	72	<100	<25	0.11		55	<20	14	1993		45	
CL128	4651	0.25	40	37	53					<5	42	108	<100	<25	0.13		129	<20	9	96		23	
CL129	4622	0.51	15	53	27					<	<20	42	<100	<25	0.30	<9.0	86	<20	14	201		68	
CL130	4465	0.44	40	16	20					6	22	208	<100	<25	0.12	<9.0	79	<20	59	74		39	
CL131	4724	0.37	40	14	38					<5	36	137	<100	<25	0.04		28	<20	13	3787		16	
CL131	4725	0.34	43	15	25					<5	<20	529	<100	<25	0.06		29	<20	6	4563		15	
CL132	4463	0.02	8	3	7					<5	<20	139	<100	<25	<0.01	<9.0	35	<20	<5	4		<5	
CL133	4464	0.57	40	11	15					<5	<20	82	<100	<25	0.03	<9.0	25	<20	<5	17		24	
CL133	4669	0.06	<5	24	29					<5	<20	135	<100	<25	<0.01	<9.0	51	<20	<5	33		<5	
CL133	4670	0.05	<5	8	10					<5	<20	293	<100	<25	<0.01	<9.0	35	<20	<5	3		<5	
CL134	4636	0.23	41	17	91					9	33	78	<100	<25	0.04		27	<20	7	120		9	
CL134	4717	0.26	35	43	77					<5	<20	177	<100	<25	0.09		84	<20	41	553		22	
CL135	4631	0.23	21	31	30					14	<20	438	<100	<25	0.04	<9.0	37	<20	8	160		14	
CL136	4603	0.06	17	17	7					<5	<20	305	<100	<25	0.02		57	<20	6	109		<5	
CL136	4604	0.62	19	77	5					<5	<20	230	<100	<25	0.48		211	<20	16	284		106	
CL136	4605	0.11	35	21	27					<5	36	335	<100	<25	0.03		23	<20	<5	8443		<5	
CL136	4606	0.21	39	15	21					<5	<20	101	<100	<25	0.04		30	<20	6	49		9	
CL136	4607	0.30	34	14	21					<5	24	102	<100	<25	0.04		27	<20	6	100		13	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
CL136	4608	1993		Cockedhat Mtn South	Colville	Chert	Outcrop	Select	Chandler Lake	A–2	15S	06E	22	NW	Umiat	
CL136	4609	1993		Cockedhat Mtn South	Colville	Shale	Outcrop	Contin chip	Chandler Lake	A–2	15S	06E	22	NW	Umiat	
CL136	4610	1993		Cockedhat Mtn South	Colville	Chert	Outcrop	Select	Chandler Lake	A–2	15S	06E	22	NW	Umiat	
CL136	4611	1993		Cockedhat Mtn South	Colville	Chert	Outcrop	Select	Chandler Lake	A–2	15S	06E	22	NW	Umiat	
CL136	4628	1993		Cockedhat Mtn South	Colville	Chert	Outcrop	Select	Chandler Lake	A–2	15S	06E	22	NW	Umiat	
CL136	4629	1993	Cockedhat Mtn SW	Cockedhat Mtn South	Colville	Chert	Outcrop	Select	Chandler Lake	A–2	15S	06E	22	NW	Umiat	
CL136	4701	1993		Cockedhat Mtn South	Colville	Chert	Outcrop	Select	Chandler Lake	A–2	15S	06E	22	NW	Umiat	
CL136	4702	1993		Cockedhat Mtn South	Colville	Chert	Outcrop	Select	Chandler Lake	A–2	15S	06E	22	NW	Umiat	
CL136	4703	1993		Cockedhat Mtn South	Colville	Shale	Outcrop	Contin chip	Chandler Lake	A–2	15S	06E	22	NW	Umiat	
CL136	4704	1993		Cockedhat Mtn South	Colville			Stream sed	Chandler Lake	A–2	15S	06E	22	SE	Umiat	
CL137	4634	1993		Cockedhat Mtn South	Colville	Chert	Float	Select	Chandler Lake	A–2	15S	06E	23	NW	Umiat	
CL137	4635	1993		Cockedhat Mtn South	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–2	15S	06E	23	NW	Umiat	
CL138	4692	1993		Cockedhat Mtn South	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–2	15S	06E	22	SE	Umiat	
CL139	4623	1993		Cockedhat Mtn South	Colville	Sandstone	Outcrop	Select	Chandler Lake	A–2	15S	06E	27	NE	Umiat	
CL140	4624	1993		Cockedhat Mtn South	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–2	15S	06E	27	NE	Umiat	
CL141	4691	1993		Cockedhat Mtn South	Colville	Chert	Float	Select	Chandler Lake	A–2	15S	06E	26	NW	Umiat	
CL142	4648	1993		Cockedhat Mtn South	Colville	Chert	Outcrop	Select	Chandler Lake	A–2	15S	06E	25	SW	Umiat	
CL143	4625	1993	Cockedhat Mtn SW	Cockedhat Mtn South	Colville	Chert	Float	Select	Chandler Lake	A–2	15S	06E	23	SW	Umiat	
CL143	4626	1993	Cockedhat Mtn SW	Cockedhat Mtn South	Colville	Chert	Float	Select	Chandler Lake	A–2	15S	06E	23	SW	Umiat	
CL143	4627	1993		Cockedhat Mtn South	Colville	Chert	Float	Select	Chandler Lake	A–2	15S	06E	23	SW	Umiat	
CL144	4632	1993		Cockedhat Mtn SE	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–2	15S	06E	13	SW	Umiat	
CL144	4633	1993		Cockedhat Mtn SE	Colville	Shale	Rubblecrop	Select	Chandler Lake	A–2	15S	06E	13	SW	Umiat	
CL145	4718	1993		Cockedhat Mtn East	Colville	Chert	Outcrop	Select	Chandler Lake	A–2	15S	07E	18	NW	Umiat	
CL146	4592	1993		Itkillik River trib	Colville	Shale	Outcrop	Select	Chandler Lake	A–1	14S	07E	22	NW	Umiat	
CL147	4552	1993	Itkillik River Northwest	Itkillik River trib	Colville	Barite	Float	Select	Chandler Lake	A–1	14S	07E	22	NW	Umiat	0.05
CL147	4553	1993	Itkillik River Northwest	Itkillik River trib	Colville	Barite	Float	Select	Chandler Lake	A–1	14S	07E	16	SE	Umiat	<0.02
CL148	4580	1993		Itkillik River trib	Colville	Sandstone	Outcrop	Random chip	Chandler Lake	A–1	14S	07E	15	SE	Umiat	
CL148	4618	1993		Itkillik River trib	Colville	Sandstone	Float	Select	Chandler Lake	A–1	14S	07E	15	SE	Umiat	
CL148	4619	1993		Itkillik River trib	Colville	Sandstone	Rubblecrop	Select	Chandler Lake	A–1	14S	07E	15	SW	Umiat	
CL148	4620	1993		Itkillik River trib	Colville	Sandstone	Float	Select	Chandler Lake	A–1	14S	07E	15	NW	Umiat	
CL149	4578	1993	Itkillik River Northwest	Itkillik River trib	Colville	Sandstone	Float	Select	Chandler Lake	A–1	14S	07E	15	SE	Umiat	
CL149	4579	1993		Itkillik River trib	Colville	Shale	Outcrop	Random chip	Chandler Lake	A–1	14S	07E	15	SE	Umiat	
CL150	4576	1993		Itkillik River trib	Colville	Sandstone	Float	Select	Chandler Lake	A–1	14S	07E	23	NW	Umiat	
CL150	4577	1993		Itkillik River trib	Colville			Stream sed	Chandler Lake	A–1	14S	07E	23	NW	Umiat	
CL151	4393	1993		Itkillik River trib	Colville	Sandstone	Float	Select	Chandler Lake	A–1	14S	07E	23	NW	Umiat	
CL152	4364	1993		Itkillik River trib	Colville	Sandstone	Outcrop	Select	Chandler Lake	A–1	14S	07E	26	NW	Umiat	
CL153	4365	1993		Itkillik River trib	Colville	Sandstone	Outcrop	Select	Chandler Lake	A–1	14S	07E	26	NW	Umiat	
CL154	4649	1993		Itkillik River West	Colville	Conglomerate	Float	Grab	Chandler Lake	A–1	14S	08E	31	NW	Umiat	
CL155	4705	1993		Itkillik River trib	Colville	Sandstone	Float	Select	Chandler Lake	A–1	14S	08E	31	NW	Umiat	
CL156	4650	1993		Itkillik River West	Colville	Sandstone	Outcrop	Select	Chandler Lake	A–1	14S	08E	30	SW	Umiat	
CL156	4706	1993		Itkillik River trib	Colville	Sandstone	Float	Select	Chandler Lake	A–1	14S	08E	30	NW	Umiat	
CL157	4707	1993		Itkillik River trib	Colville	Sandstone	Outcrop	Select	Chandler Lake	A–1	14S	08E	30	NW	Umiat	
CL158	4708	1993		Itkillik River trib	Colville	Sandstone	Float	Select	Chandler Lake	A–1	14S	08E	19	NW	Umiat	
CL158	4709	1993		Itkillik River trib	Colville	Sandstone	Float	Select	Chandler Lake	A–1	14S	08E	19	NW	Umiat	
CL159	4710	1993		Itkillik River trib	Colville	Shale	Float	Grab	Chandler Lake	A–1	14S	08E	19	N Cent	Umiat	
CL160	4711	1993		Itkillik River trib	Colville			Stream sed	Chandler Lake	A–1	14S	08E	18	SE	Umiat	
CL161	4361	1993		Kushuman Creek	Colville	Conglomerate	Float	Grab	Chandler Lake	B–1	13S	08E	29	SW	Umiat	
CL162	4440	1993		Kuhsuman Creek	Colville	Sandstone	Float	Grab	Chandler Lake	B–1	13S	07E	24	NE	Umiat	
CL163	4400	1993		Kuhshuman Creek trib	Colville	Sandstone	Float	Select	Chandler Lake	B–1	13S	07E	19	NW	Umiat	
CL164	4437	1993		Kuhsuman Creek	Colville	Sandstone	Float	Grab	Chandler Lake	B–1	13S	08E	7	SW	Umiat	
CL164	4438	1993		Kuhsuman Creek	Colville	Shale	Outcrop	Random chip	Chandler Lake	B–1	13S	08E	7	SW	Umiat	
CL164	4439	1993		Kuhsuman Creek	Colville	Sandstone	Outcrop	Select	Chandler Lake	B–1	13S	07E	12	SE	Umiat	
CL165	4436	1993		Kuhsuman Creek	Colville	Sandstone	Rubblecrop	Grab	Chandler Lake	B–1	13S	08E	7	SE	Umiat	
CL166	4362	1993		Kushuman Creek trib	Colville	Chert	Float	Select	Chandler Lake	B–1	13S	07E	2	NW	Umiat	
CL167	4575	1993		Peregrine Creek	Colville			Stream sed	Chandler Lake	B–1	12S	07E	25	SW	Umiat	
CL168	4459	1993		Peregrine Creek	Colville	Chert	Float	Grab	Chandler Lake	B–1	12S	07E	22	NE	Umiat	
CL168	4460	1993		Peregrine Creek	Colville	Chert	Float	Grab	Chandler Lake	B–1	12S	07E	22	NE	Umiat	
CL169	4456	1993		Cobblestone Creek	Colville	Chert	Rubblecrop	Grab	Chandler Lake	B–1	12S	08E	18	NW	Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
CL136	4608	<0.5	0.88	<5		217			<5	5.11	<2.0	5	106		15		>10.00	27	0.13	<5	15	1.23	4552		<1
CL136	4609	<0.5	4.67	13		696			8	0.21	<2.0	22	138		39		4.75	25	1.14	10	207	0.75	556		<1
CL136	4610	<0.5	1.18	36		>2000			<5	5.07	<2.0	4	25		21		>10.00	24	0.23	<5	18	1.40	4524		3
CL136	4611	<0.5	1.31	<5		305			<5	3.37	<2.0	2	31		18		>10.00	26	0.27	<5	20	1.41	5057		<1
CL136	4628	<0.5	0.92	<5		198			10	5.25	<2.0	7	27		19		>10.00	24	0.18	<5	14	1.12	4398		<1
CL136	4629	<0.5	1.06	<5		328			19	4.31	<2.0	8	26		23		>10.00	22	0.17	<5	16	1.08	4598		8
CL136	4701	<0.5	0.92	<5		884			24	3.78	<2.0	7	29		21		>10.00	25	0.19	<5	16	1.26	5078		2
CL136	4702	<0.5	0.82	<5		267			<5	4.61	<2.0	10	23		27		>10.00	30	0.15	<5	15	1.09	4204		4
CL136	4703	<0.5	6.39	46		1154			21	0.34	<2.0	20	149		49		5.66	27	0.94	14	180	0.81	608		7
CL136	4704	<0.5	4.21	56		427			27	7.73	<2.0	16	91		50		3.47	19	0.75	15	64	2.33	320		3
CL137	4634	<0.5	1.27	<5		239			17	4.74	<2.0	5	30		24		>10.00	25	0.23	<5	13	1.28	6496		4
CL137	4635	<0.5	1.34	<5		343			<5	2.09	<2.0	6	38		18		>10.00	21	0.16	<5	16	1.54	7037		<1
CL138	4692	<0.5	0.84	<5		283			<5	3.71	<2.0	5	30		13		>10.00	28	0.21	<5	14	1.43	5263		2
CL139	4623	<0.5	2.64	<5		653			16	2.09	<2.0	20	84		75		>10.00	44	0.46	22	33	1.22	14085		5
CL140	4624	<0.5	1.63	<5		394			<5	1.14	<2.0	6	38		21		>10.00	28	0.27	<5	19	0.86	8825		<1
CL141	4691	<0.5	0.85	<5		361			<5	9.34	<2.0	<1	35		11		>10.00	23	0.21	<5	14	1.54	3387		1
CL142	4648	<0.5	2.34	10		572			10	8.03	<2.0	20	82		79		>10.00	31	0.17	101	21	0.93	14754		3
CL143	4625	<0.5	1.04	<5		1363			11	8.05	<2.0	6	41		11		>10.00	27	0.18	<5	16	1.32	4078		<1
CL143	4626	<0.5	1.08	<5		389			12	6.65	<2.0	<1	37		9		>10.00	29	0.25	<5	16	1.13	4994		3
CL143	4627	<0.5	0.85	<5		823			5	7.15	<2.0	<1	36		8		>10.00	30	0.19	<5	11	1.17	4858		4
CL144	4632	<0.5	0.95	<5		700			12	4.12	<2.0	<1	33		22		>10.00	24	0.13	<5	12	1.30	5892		2
CL144	4633	<0.5	1.42	<5		380			9	1.59	<2.0	5	43		28		>10.00	27	0.20	<5	12	0.98	12610		9
CL145	4718	<0.5	5.03	<5		555			25	0.72	<2.0	15	98		24		>10.00	20	0.84	15	34	1.47	7580		<1
CL146	4592	1.0	5.11	34		785			14	2.21	<2.0	22	75		33		>10.00	14	0.98	25	21	1.63	7326		<1
CL147	4552	1.5	0.13	12		<5	61.99		15	0.14	<2.0	24	6		12		0.03	<10	0.09	<5	2	0.06	20	<9.00	3
CL147	4553	<0.5	0.05	21		<5	59.64		<5	0.10	<2.0	14	3		25		<0.01	<10	0.05	<5	<2	0.06	<5	<9.00	3
CL148	4580	0.9	1.47	11		170			15	>10.00	<2.0	13	84		188		6.45	<10	0.24	<5	13	2.90	5482		<1
CL148	4618	<0.5	2.15	23		368			<5	4.83	<2.0	14	99		8		5.8	17	0.51	9	16	1.76	1525		<1
CL148	4619	<0.5	1.61	37		204			<5	2.20	<2.0	4	228		735		2.47	<10	0.57	<5	13	0.78	1525		2
CL148	4620	<0.5	1.81	53		183			8	5.63	<2.0	6	169		17		4.12	16	0.38	8	18	1.45	8063		<1
CL149	4578	1.1	2.25	6		895			32	>10.00	19	21	47		33		8.38	12	0.32	5	10	3.66	3945		<1
CL149	4579	<0.5	6.47	20		546			<5	0.30	<2.0	22	113		53		4.95	16	1.16	26	38	0.91	628		<1
CL150	4576	<0.5	1.69	17		188			9	0.82	<2.0	17	189		174		5.47	<10	0.43	<5	17	0.85	1809		<1
CL150	4577	<0.5	5.27	24		421			6	0.21	<2.0	16	86		42		3.74	18	1.20	27	32	0.73	573		<1
CL151	4393	<0.5	3.23	11		1347			14	0.88	<2.0	17	396		412		4.82	10	0.46	33	26	0.72	874		3
CL152	4364	<0.5	1.87	51		534			18	7.33	<2.0	8	77		33		6.11	16	0.46	8	14	2.21	5143		<1
CL153	4365	0.6	1.36	57		647			37	>10.00	<2.0	13	45		52		7.92	17	0.31	<5	6	4.73	1793		8
CL154	4649	<0.5	0.05	25		106			<5	1.28	2.8	5	248		11		4.03	<10	0.01	<5	<2	0.26	1023		<1
CL155	4705	<0.5	1.25	<5		327			23	5.54	<2.0	4	190		13		4.18	<10	0.18	<5	7	1.91	1442		<1
CL156	4650	<0.5	2.41	54		558			14	1.66	<2.0	18	194		35		5.01	<10	0.29	18	37	0.87	1485		3
CL156	4706	<0.5	0.91	<5		98			30	6.04	<2.0	4	128		24		5.62	<10	0.11	<5	15	1.85	3578		<1
CL157	4707	<0.5	3.86	9		259			21	0.22	<2.0	12	190		144		4.24	<10	0.55	13	35	1.04	151		<1
CL158	4708	<0.5	1.14	<5		206			28	>10.00	<2.0	4	52		352		5.23	<10	0.21	<5	13	2.21	7927		<1
CL158	4709	<0.5	2.15	<5		177			20	0.31	<2.0	4	199		140		2.91	<10	0.32	7	30	0.51	256		<1
CL159	4710	<0.5	7.60	46		761			25	0.80	<2.0	19	112		59		7.02	26	0.79	18	60	1.07	1578		<1
CL160	4711	<0.5	4.50	11		385			15	0.20	<2.0	17	87		45		4.04	10	0.72	16	26	0.51	581		<1
CL161	4361	<0.5	2.51	<5		638			12	3.97	<2.0	15	100		19		>10.00	33	0.51	13	23	0.85	>20000		6
CL162	4440	<0.5	2.66	10		244			6	9.91	<2.0	12	192		18		3.15	12	0.58	13	20	0.47	1991		<1
CL163	4400	<0.5	3.27	96		346			14	0.83	<2.0	14	234		25		4.34	<10	0.47	25	34	0.39	182		4
CL164	4437	<0.5	2.53	96		343			<5	0.23	<2.0	15	205		22		4.36	<10	0.60	20	23	0.40	199		5
CL164	4438	<0.5	4.95	55		665			<5	0.10	<2.0	11	138		50		5.89	23	0.94	16	39	0.70	191		3
CL164	4439	<0.5	4.23	29		460			10	2.04	<2.0	16	233		33		5.31	15	0.67	22	30	0.55	959		<1
CL165	4436	<0.5	2.75	<5		384			17	>10.00	<2.0	11	99		14		3.24	17	0.61	17	15	0.54	5907		3
CL166	4362	<0.5	1.01	11		662			9	>10.00	<2.0	2	35		9		8.3	13	0.23	8	8	1.18	323		17
CL167	4575	<0.5	2.14	50		1217			16	>10.00	<2.0	8	69		34		1.97	15	0.99	14	26	2.49	155		3
CL168	4459	1.0	1.26	69		>2000			21	1.62	<2.0	3	30		17		>10.00	13	0.39	<5	28	1.25	5719		3
CL168	4460	0.7	1.72	72		>2000			9	3.87	<2.0	8	55		44		>10.00	10	0.40	22	31	2.62	1100		18
CL169	4456	<0.5	2.02	20		568			9	0.13	<2.0	13	115		42		2.73	<10	0.47	8	35	0.61	1978		<1

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
CL136	4608	0.22	35	14	18					<5	27	72	<100	<25	0.03		27	<20	6	52		8	
CL136	4609	0.40	16	77	5					<5	<20	62	<100	<25	0.50		223	<20	13	156		104	
CL136	4610	0.51	43	18	34					<5	31	204	<100	<25	0.05		33	<20	6	44		25	
CL136	4611	0.33	43	21	75					<5	53	68	<100	<25	0.06		36	<20	8	288		16	
CL136	4628	0.23	41	17	50					<5	33	120	<100	<25	0.04		28	<20	6	781		8	
CL136	4629	0.20	41	20	78					<5	42	71	<100	<25	0.04		28	<20	7	11962		8	
CL136	4701	0.34	37	17	43					<5	26	162	<100	<25	0.04		30	<20	7	157		11	
CL136	4702	0.21	37	14	47					<5	31	262	<100	<25	0.04		24	<20	<5	1411		6	
CL136	4703	0.46	19	81	25					<5	<20	80	<100	<25	0.52		230	<20	15	204		113	
CL136	4704	0.40	15	65	24					<5	<20	143	<100	<25	0.32		127	<20	11	169		67	
CL137	4634	0.26	42	20	53					20	30	282	<100	<25	0.06		35	<20	9	4637		13	
CL137	4635	0.21	38	21	34					<5	43	241	<100	<25	0.07		32	<20	6	162		10	
CL138	4692	0.36	40	13	19					<5	32	74	<100	<25	0.04		25	<20	6	15		14	
CL139	4623	0.84	43	60	88					<5	<20	136	<100	<25	0.12	<9.0	187	<20	56	124		48	
CL140	4624	0.37	49	21	40					<5	56	93	<100	<25	0.07		39	<20	9	522		21	
CL141	4691	0.54	42	12	27					<5	33	155	<100	<25	0.03	<9.0	21	<20	<5	<2		21	
CL142	4648	0.17	25	62	150					19	33	426	<100	<25	0.05		120	<20	262	2702		14	
CL143	4625	0.49	36	17	101					<5	<20	332	<100	<25	0.04	<9.0	35	<20	12	2733		17	
CL143	4626	0.63	40	13	35					6	20	115	<100	<25	0.04	<9.0	29	<20	8	1214		23	
CL143	4627	0.58	39	11	19					<5	<20	112	<100	<25	0.03	<9.0	21	<20	7	188		19	
CL144	4632	0.22	40	22	46					<5	39	76	<100	<25	0.03		21	<20	8	226		8	
CL144	4633	0.34	38	22	44					<5	36	275	<100	<25	0.07		26	<20	7	3689		18	
CL145	4718	0.65	21	40	31					<5	<20	57	<100	<25	0.35		83	<20	21	473		99	
CL146	4592	0.70	28	34	39					<5	28	77	<100	<25	0.33	<9.0	82	<20	39	118		91	
CL147	4552	0.16	<5	<1	6653	1			<9.00	<5	<20	1683	<100	<25	<0.01	<9.0	<2	<20	<5	3	<0.01	17	
CL147	4553	0.10	<5	3	848	0			<9.00	<5	<20	581	<100	<25	<0.01	<9.0	<2	<20	<5	<2	0	9	
CL148	4580	0.30	13	16	11					<5	<20	71	<100	<25	0.12	<9.0	76	<20	13	26		33	
CL148	4618	0.36	14	25	118					<5	<20	65	<100	<25	0.23	<9.0	63	<20	8	68		49	
CL148	4619	0.64	11	19	6					<5	<20	43	<100	<25	0.34	<9.0	66	<20	<5	97		56	
CL148	4620	0.51	11	24	17					<5	22	53	<100	<25	0.23	<9.0	56	<20	22	37		63	
CL149	4578	0.35	17	32	24					<5	26	97	<100	<25	0.14	<9.0	83	<20	21	3910		46	
CL149	4579	0.63	22	62	32					<5	29	61	<100	<25	0.54	<9.0	142	<20	18	131		128	
CL150	4576	0.66	13	33	27					<5	<20	31	<100	<25	0.27	<9.0	65	<20	<5	41		65	
CL150	4577	0.66	20	48	16					<5	<20	61	<100	<25	0.51	<9.0	113	<20	17	84		137	
CL151	4393	0.43	24	48	39					<5	24	63	<100	<25	0.84	<9.0	121	<20	21	103		313	
CL152	4364	0.54	14	22	12					<5	<20	57	<100	<25	0.17	<9.0	54	<20	14	52		44	
CL153	4365	0.92	15	18	12					21	<20	104	<100	<25	0.06	<9.0	51	<20	28	12		44	
CL154	4649	0.02	<5	27	15					<5	<20	9	<100	<25	<0.01		15	<20	<5	191		<5	
CL155	4705	0.04	5	16	5					<5	25	36	<100	<25	0.07		35	<20	7	39		19	
CL156	4650	0.24	10	36	38					<5	<20	58	<100	<25	0.20		51	<20	19	240		42	
CL156	4706	0.06	7	7	<2					<5	<20	26	<100	<25	0.06		31	<20	10	673		13	
CL157	4707	0.32	13	31	15					11	<20	29	<100	<25	0.30		66	<20	10	38		74	
CL158	4708	0.19	9	9	11					<5	<20	68	<100	<25	0.11		31	<20	36	27		20	
CL158	4709	0.40	7	21	<2					<5	<20	21	<100	<25	0.21		40	<20	6	45		50	
CL159	4710	0.92	24	57	29					<5	<20	73	<100	<25	0.52		131	<20	21	144		139	
CL160	4711	0.55	11	45	20					<5	<20	56	<100	<25	0.37		89	<20	12	103		100	
CL161	4361	0.23	23	28	48					<5	<20	152	<100	<25	0.15	<9.0	57	<20	19	95		38	
CL162	4440	0.49	10	24	38					<5	<20	128	<100	<25	0.19	<9.0	60	<20	9	249		53	
CL163	4400	0.45	9	36	102					<5	23	54	<100	<25	0.16	<9.0	70	<20	25	48		55	
CL164	4437	0.66	13	31	31					<5	<20	41	<100	<25	0.34	<9.0	76	<20	11	65		90	
CL164	4438	0.78	26	39	39					<5	<20	55	<100	<25	0.62	<9.0	148	<20	11	79		145	
CL164	4439	0.46	15	57	44					31	<20	79	<100	<25	0.33	<9.0	80	<20	16	72		87	
CL165	4436	0.55	12	19	23					<5	<20	314	<100	<25	0.19	<9.0	59	<20	17	62		65	
CL166	4362	0.13	12	17	15					<5	<20	897	<100	<25	0.06	<9.0	44	<20	46	30		13	
CL167	4575	0.43	12	38	20					<5	<20	118	<100	<25	0.18		97	<20	10	146		59	
CL168	4459	0.63	44	24	28					<5	27	190	<100	<25	0.05	<9.0	40	<20	9	301		34	
CL168	4460	0.46	42	48	38					<5	22	248	<100	<25	0.08	<9.0	83	<20	25	139		32	
CL169	4456	0.13	<5	43	7					<5	<20	39	<100	<25	0.08	<9.0	42	<20	7	55		42	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
CL170	4457	1993		Peregrine Creek	Colville	Chert	Rubblecrop	Grab	Chandler Lake	B–1	12S	07E	13	SE	Umiat	
CL171	4458	1993		Peregrine Creek	Colville	Chert	Outcrop	Grab	Chandler Lake	B–1	12S	07E	13	SE	Umiat	
CL172	4554	1993		Peregrine Creek trib	Colville	Shale	Float	Select	Chandler Lake	B–1	12S	07E	13	NE	Umiat	
CL173	4450	1993	Cobblestone Creek	Cobblestone Creek	Colville	Shale	Outcrop	Select	Chandler Lake	C–1	11S	07E	12	NW	Umiat	<9.00
CL173	4451	1993	Cobblestone Creek	Cobblestone Creek	Colville	Shale	Outcrop	Select	Chandler Lake	C–1	11S	07E	12	NW	Umiat	<9.00
CL173	4452	1993	Cobblestone Creek	Cobblestone Creek	Colville	Shale	Outcrop	Select	Chandler Lake	C–1	11S	07E	12	NW	Umiat	<9.00
CL173	4453	1993	Cobblestone Creek	Cobblestone Creek	Colville	Shale	Outcrop	Select	Chandler Lake	C–1	11S	07E	12	NW	Umiat	
CL173	4454	1993	Cobblestone Creek	Cobblestone Creek	Colville	Shale	Outcrop	Select	Chandler Lake	C–1	11S	07E	12	NW	Umiat	
CL174	4455	1993	Cobblestone Creek	Cobblestone Creek	Colville	Shale	Outcrop	Select	Chandler Lake	C–1	11S	07E	1	SW	Umiat	
CL175	4441	1993		Cobblestone Creek	Colville	Shale	Outcrop	Select	Chandler Lake	C–1	11S	08E	6	NE	Umiat	
CL175	4442	1993	Cobblestone Creek	Cobblestone Creek	Colville	Shale	Outcrop	Grab	Chandler Lake	C–1	11S	08E	6	NE	Umiat	<9.00
CL175	4443	1993		Cobblestone Creek	Colville	Shale	Outcrop	Repr chip	Chandler Lake	C–1	11S	08E	6	NE	Umiat	<9.00
CL175	4444	1993	Cobblestone Creek	Cobblestone Creek	Colville	Shale	Outcrop	Repr chip	Chandler Lake	C–1	11S	08E	6	NE	Umiat	<9.00
CL175	4445	1993		Cobblestone Creek	Colville	Shale	Outcrop	Select	Chandler Lake	C–1	11S	08E	6	NE	Umiat	<9.00
CL175	4446	1993	Cobblestone Creek	Cobblestone Creek	Colville	Shale	Outcrop	Select	Chandler Lake	C–1	11S	08E	6	NE	Umiat	<9.00
CL175	4447	1993	Cobblestone Creek	Cobblestone Creek	Colville	Shale	Outcrop	Grab	Chandler Lake	C–1	11S	08E	6	NE	Umiat	<9.00
CL175	4448	1993	Cobblestone Creek	Cobblestone Creek	Colville	Shale	Outcrop	Grab	Chandler Lake	C–1	11S	08E	6	NE	Umiat	<9.00
CL175	4449	1993	Cobblestone Creek	Cobblestone Creek	Colville	Quartz vein	Outcrop	Select	Chandler Lake	C–1	11S	08E	6	NE	Umiat	<9.00
CL176	4795	1993		May/Cobblestone Cr	Colville	Chert	Rubblecrop	Grab	Chandler Lake	B–1	12S	08E	3	SE	Umiat	
CL177	4574	1993		Cobblestone Creek	Colville			Placer	Chandler Lake	B–1	12S	08E	5	NE	Umiat	
CL178	4573	1993		Cobblestone Creek	Colville			Placer	Chandler Lake	B–1	12S	08E	20	NW	Umiat	
CL179	4569	1993		Cobblestone Creek	Colville			Stream sed	Chandler Lake	B–1	13S	08E	9	NW	Umiat	
CL180	4570	1993		Cobblestone Creek	Colville	Chert	Float	Grab	Chandler Lake	B–1	13S	08E	16	NW	Umiat	
CL181	4571	1993		Cobblestone Creek	Colville	Shale	Outcrop	Random chip	Chandler Lake	B–1	13S	08E	16	NW	Umiat	
CL181	4572	1993		Cobblestone Creek	Colville			Stream sed	Chandler Lake	B–1	13S	08E	16	NW	Umiat	
CL182	4560	1993		Inikakik Creek	Colville	Sandstone/shale	Outcrop	Grab	Chandler Lake	B–1	13S	08E	21	NE	Umiat	
CL182	4561	1993		Inikakik Creek	Colville	Sandstone	Outcrop	Select	Chandler Lake	B–1	13S	08E	21	NE	Umiat	
CL183	4562	1993		Inikakik Creek	Colville	Sandstone/shale	Rubblecrop	Grab	Chandler Lake	B–1	13S	08E	21	NE	Umiat	
CL184	4591	1993		Inikakik Creek	Colville	Chert	Outcrop	Grab	Chandler Lake	B–1	13S	08E	15	SW	Umiat	
CL185	4476	1993		Inikakik Creek	Colville			Stream sed	Chandler Lake	B–1	13S	08E	22	NW	Umiat	
CL186	4475	1993		Inikakik Creek	Colville	Sandstone	Grab	Grab	Chandler Lake	B–1	13S	08E	22	SW	Umiat	
CL187	4470	1993		Inikakik Creek	Colville			Pan con	Chandler Lake	B–1	13S	09E	8	NE	Umiat	
CL187	4471	1993		Inikakik Creek	Colville			Stream sed	Chandler Lake	B–1	13S	09E	8	NW	Umiat	
CL188	4489	1993		Inikakik Creek trib	Colville	Chert	Outcrop	Select	Chandler Lake	B–1	13S	09E	18	NE	Umiat	
CL189	4468	1993		Thibideaux Mtn North	Colville	Limestone	Outcrop	Grab	Chandler Lake	B–1	13S	09E	17	NE	Umiat	
CL189	4469	1993		Inikakik Creek	Colville	Shale	Outcrop	Repr chip	Chandler Lake	B–1	13S	09E	17	NE	Umiat	
CL189	4490	1993		Inikakik Creek trib	Colville	Chert	Outcrop	Select	Chandler Lake	B–1	13S	09E	8	SE	Umiat	
CL190	4467	1993		Thibideaux Mtn North	Colville	Shale	Rubblecrop	Select	Chandler Lake	B–1	13S	09E	20	NE	Umiat	
CL191	4466	1993		Thibideaux Mtn North	Colville	Limestone	Float	Grab	Chandler Lake	B–1	13S	09E	20	NW	Umiat	
CL191	4472	1993		Thibideaux Mtn North	Colville			Stream sed	Chandler Lake	B–1	13S	09E	20	NW	Umiat	
CL191	4473	1993		Thibideaux Mtn North	Colville			Stream sed	Chandler Lake	B–1	13S	09E	20	NW	Umiat	
CL191	4474	1993		Inikakik Creek	Colville	Limestone	Outcrop	Grab	Chandler Lake	B–1	13S	09E	20	NW	Umiat	
CL192	4491	1993		Inikakik Creek trib	Colville	Sandstone	Float	Select	Chandler Lake	B–1	13S	09E	20	SE	Umiat	
CL193	4719	1993		Itkillik River trib	Colville	Sandstone	Rubblecrop	Select	Chandler Lake	B–1	13S	08E	33	NE	Umiat	
CL194	4808	1993		Itkillik River trib	Colville	Shale/wacke	Outcrop	Random chip	Chandler Lake	A–1	15S	08E	3	NW	Umiat	
CL195	4806	1993		Itkillik River trib	Colville			Stream sed	Chandler Lake	A–1	15S	08E	3	NE	Umiat	
CL195	4807	1993		Itkillik River trib	Colville	Mudstone	Float	Select	Chandler Lake	A–1	15S	08E	3	NE	Umiat	
CL196	4484	1993		Itkillik River trib	Colville			Stream sed	Chandler Lake	A–1	15S	08E	3	NE	Umiat	
CL197	4805	1993		Itkillik River trib	Colville			Stream sed	Chandler Lake	A–1	15S	08E	3	NE	Umiat	
CL198	4700	1993		Oolah Mtn	Colville	Shale	Float	Select	Chandler Lake	A–1	15S	09E	30	SW	Umiat	
CL199	4678	1993		Oolah Mtn East	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–1	15S	09E	30	SE	Umiat	
CL199	4726	1993		Oolah Mtn	Colville	Chert	Rubblecrop	Select	Chandler Lake	A–1	15S	09E	30	SE	Umiat	
CL200	4748	1993		Oolah Mtn East	Colville			Stream sed	Chandler Lake	A–1	15S	09E	20	SE	Umiat	
CL201	4747	1993		Oolah Mtn East	Colville	Shale	Outcrop	Select	Chandler Lake	A–1	15S	09E	21	NW	Umiat	
CL202	4745	1993		Oolah Mtn East	Colville			Stream sed	Chandler Lake	A–1	15S	09E	16	SE	Umiat	
CL202	4746	1993		Oolah Mtn East	Colville			Stream sed	Chandler Lake	A–1	15S	09E	16	SE	Umiat	
CL203	4743	1993		Oolah Mtn	Colville			Stream sed	Chandler Lake	A–1	15S	09E	16	NE	Umiat	
CL203	4744	1993		Oolah Mtn	Colville	Ss/conglomerate	Outcrop	Random chip	Chandler Lake	A–1	15S	09E	16	SE	Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
CL170	4457	<0.5	2.34	<5		671			9	0.09	<2.0	7	110		37		1.36	<10	0.69	9	26	0.51	309		2
CL171	4458	<0.5	6.96	83		1552			13	0.76	<2.0	10	78		82		8.07	17	1.16	21	52	1.22	1588		13
CL172	4554	1.3	1.49	38		486			27	>10.00	<2.0	7	48		12		8.46	<10	0.14	15	24	2.92	495		125
CL173	4450	7.3	2.80	489		670	<9.00		57	1.53	<2.0	38	50		36		>10.00	62	0.54	13	36	1.79	>20000	10	7
CL173	4451	2.6	3.22	438		543	<9.00		38	8.27	<2.0	57	270		74		>10.00	28	0.34	36	46	1.35	>20000	2	12
CL173	4452	8.5	1.72	87		700	<9.00		65	2.72	<2.0	54	49		29		>10.00	59	0.51	7	28	1.35	>20000	12	2
CL173	4453	2.5	2.31	146		903			33	2.06	<2.0	118	72		58		>10.00	36	0.28	8	37	0.84	>20000	3	5
CL173	4454	2.6	1.69	44		782			43	3.35	<2.0	25	33		26		>10.00	41	0.13	8	20	0.93	>20000	6	6
CL174	4455	1.1	3.99	102		667			18	3.58	<2.0	149	116		91		>10.00	23	0.39	46	56	1.33	12644	1	26
CL175	4441	1.6	1.13	1229		329			33	>10.00	<2.0	359	48		36		>10.00	<10	0.08	7	13	0.28	2138		170
CL175	4442	2.0	2.31	106		668	<9.00		33	1.10	<2.0	142	62		62		>10.00	34	0.40	<5	51	1.17	>20000	3	14
CL175	4443	2.1	2.35	411		610	<9.00		23	8.38	<2.0	35	203		59		>10.00	16	0.10	41	41	0.55	2483		6
CL175	4444	0.8	2.12	81		1061	<9.00		30	2.40	<2.0	146	92		72		>10.00	25	0.27	6	57	0.87	6392	1	9
CL175	4445	<0.5	2.35	28		651	<9.00		17	1.75	<2.0	77	53		36		>10.00	27	0.31	6	37	0.88	13130		8
CL175	4446	0.6	2.71	106		>2000	<9.00		45	7.87	<2.0	41	147		47		>10.00	24	0.42	26	44	0.67	6615	1	10
CL175	4447	0.8	2.52	135		742	<9.00		20	7.92	<2.0	22	269		57		>10.00	17	0.14	23	45	0.82	5215	1	5
CL175	4448	4.2	1.35	1780		338	<9.00		21	>10.00	15.3	4	49		51		>10.00	<10	0.15	<5	13	0.16	1014		132
CL175	4449	0.9	1.51	65		356	<9.00		22	>10.00	<2.0	38	128		53		>10.00	16	0.07	22	43	0.65	12462	1	24
CL176	4795	<0.5	0.61	<5		486			<5	0.03	<2.0	4	169		<1		0.71	<10	0.40	<5	18	0.08	84		<1
CL177	4574	<0.5	1.84	39	<5	1129			31	>10.00	<2.0	9	70		26		2.2	13	0.54	10	18	2.37	878		2
CL178	4573	1.7	1.72	48		214			20	>10.00	<2.0	15	146		31		4.51	17	0.51	10	17	2.32	676		4
CL179	4569	<0.5	6.76	58		454			<5	2.25	<2.0	18	81		44		3.81	19	1.34	31	46	0.94	551		3
CL180	4570	0.8	0.14	<5		33			8	8.64	<2.0	2	180		7		0.17	<10	0.04	<5	3	0.05	50		<1
CL181	4571	<0.5	3.61	<5		521			<5	4.69	<2.0	19	95		41		4.65	15	1.02	10	58	0.44	918		<1
CL181	4572	<0.5	2.52	12		364			12	0.13	<2.0	18	86		48		3.47	20	1.24	10	39	0.42	550		2
CL182	4560	<0.5	5.91	30		539			8	0.27	<2.0	16	165		44		5.31	12	1.21	27	37	1.02	225		<1
CL182	4561	<0.5	2.88	19		186			<5	0.50	<2.0	19	232		19		4.41	<10	0.29	14	36	1.06	501		<1
CL183	4562	0.7	4.07	10		328			9	4.09	<2.0	16	152		27		4.43	12	0.91	19	29	0.70	2525		<1
CL184	4591	0.8	1.78	5		240			<5	0.75	<2.0	4	232		10		2.61	<10	0.32	10	24	0.27	52		<1
CL185	4476	<0.5	5.26	57		464			<5	0.23	<2.0	16	89		44		3.86	17	0.77	13	42	0.76	656		5
CL186	4475	<0.5	2.15	30		245			19	4.19	<2.0	15	179		24		3.85	11	0.54	16	24	0.66	3090		10
CL187	4470	<0.5	4.08	<5		357			16	8.81	<2.0	12	154		32		3.64	13	0.44	19	30	1.31	680		<1
CL187	4471	<0.5	3.78	45		374			8	7.20	<2.0	14	62		38		2.9	16	0.67	19	31	1.35	406		5
CL188	4489	<0.5	1.54	13		303			22	>10.00	<2.0	5	30		27		>10.00	13	0.28	8	24	1.41	3686		7
CL189	4468	0.8	0.08	17		58			24	>10.00	<2.0	3	22		3		1	13	0.02	7	3	0.77	139		<1
CL189	4469	<0.5	6.21	38		554			28	3.74	<2.0	19	145		22		>10.00	21	0.93	18	122	1.30	1583		1
CL189	4490	0.8	1.29	9		213			25	6.32	<2.0	26	31		15		>10.00	12	0.31	<5	17	2.63	2574		3
CL190	4467	<0.5	1.12	35		669			17	>10.00	<2.0	9	36		10		>10.00	13	0.14	<5	14	0.80	3498		4
CL191	4466	0.8	0.90	10		139			23	>10.00	<2.0	7	31		11		>10.00	12	0.11	<5	17	1.64	2560		<1
CL191	4472	<0.5	6.93	42		646			6	0.33	<2.0	19	98		51		4.27	21	0.79	23	51	0.81	574		3
CL191	4473	<0.5	5.53	26		453			12	0.32	<2.0	16	85		48		3.98	14	0.65	19	38	0.74	590		7
CL191	4474	0.7	0.12	15		43			27	>10.00	<2.0	<1	17		4		0.1	12	0.04	<5	3	2.08	30		<1
CL192	4491	<0.5	1.25	<5		91			12	1.04	<2.0	5	251		11		1.84	<10	0.24	11	9	0.26	666		4
CL193	4719	<0.5	2.33	<5		593			12	0.51	<2.0	11	198		62		4.96	12	0.27	6	28	0.66	1847		<1
CL194	4808	<0.5	3.33	37		599			<5	0.16	3.1	23	166		71		3.74	18	1.08	31	35	0.25	503		30
CL195	4806	<0.5	4.05	<5		271			<5	0.20	<2.0	14	129		42		3.93	15	0.89	21	20	0.27	636		7
CL195	4807	<0.5	3.06	29		651			8	1.24	<2.0	47	58		28		>10.00	21	0.73	11	19	2.94	5129		3
CL196	4484	<0.5	4.72	6		316			11	0.17	<2.0	21	86		59		4.29	13	0.99	25	28	0.33	659		2
CL197	4805	<0.5	4.74	5		325			19	0.20	<2.0	15	110		53		4.03	15	0.99	23	30	0.33	637		<1
CL198	4700	<0.5	1.98	<5		640			32	2.69	36	10	27		28		>10.00	32	0.47	6	20	1.89	19524		4
CL199	4678	<0.5	1.79	<5		1899			16	2.22	<2.0	12	36		28		>10.00	32	0.34	9	21	1.85	18214		3
CL199	4726	<0.5	2.94	20		255			27	5.16	14.1	16	42		66		>10.00	26	0.42	20	42	2.33	13514		16
CL200	4748	<0.5	4.22	10		304			16	0.13	<2.0	16	79		47		4.49	12	0.95	22	25	0.46	935		5
CL201	4747	<0.5	3.88	7		353			10	0.33	<2.0	20	187		54		4.47	24	1.13	16	47	0.87	238		1
CL202	4745	<0.5	5.34	<5		360			19	0.17	<2.0	16	92		47		4.25	16	0.97	28	32	0.60	931		1
CL202	4746	<0.5	6.26	21		410			16	0.21	<2.0	20	98		54		4.36	18	1.24	33	33	0.74	615		2
CL203	4743	<0.5	5.19	27		441			9	0.20	<2.0	18	90		65		4.33	13	0.87	35	31	0.62	781		17
CL203	4744	<0.5	1.44	15		950			9	0.67	<2.0	9	288		17		3.8	11	0.29	10	15	0.19	755		4

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
CL170	4457	0.14	<5	15	3					10	<20	30	<100	<25	0.12	<9.0	37	<20	11	47		57	
CL171	4458	0.86	18	47	35					<5	29	112	<100	<25	0.36	<9.0	314	<20	16	125		114	
CL172	4554	0.31	16	67	29					<5	<20	442	<100	<25	0.10	<9.0	57	<20	27	78		35	
CL173	4450	0.62	28	168	24	<9.00			<9.00	24	<20	123	<100	<25	0.15	<9.0	163	<20	14	201	<9.00	59	
CL173	4451	0.40	26	71	27	<9.00			<9.00	<5	<20	79	<100	<25	0.19	<9.0	632	<20	48	170	<9.00	68	
CL173	4452	0.47	21	153	12	<9.00			<9.00	<5	<20	343	<100	<25	0.12	<9.0	158	<20	12	206	<9.00	44	
CL173	4453	0.50	32	157	16					<5	<20	335	<100	<25	0.22	<9.0	318	<20	13	350		62	
CL173	4454	0.41	31	46	16					<5	<20	444	<100	<25	0.07	<9.0	130	<20	11	199		34	
CL174	4455	0.42	27	203	42					8	35	387	<100	<25	0.23	<9.0	384	<20	37	374		78	
CL175	4441	0.17	18	101	57					87	<20	1117	<100	<25	0.08	<9.0	302	<20	7	74		30	
CL175	4442	0.65	33	168	27	<9.00			<9.00	<5	<20	113	<100	<25	0.18	<9.0	286	<20	8	297	<9.00	60	
CL175	4443	0.24	25	44	43	<9.00			<9.00	37	<20	1200	<100	<25	0.15	<9.0	613	<20	41	117	<9.00	55	
CL175	4444	0.46	34	125	24	<9.00			<9.00	<5	<20	317	<100	<25	0.25	<9.0	361	<20	12	240	<9.00	73	
CL175	4445	1.03	39	74	29	<9.00			<9.00	<5	<20	218	<100	<25	0.11	<9.0	135	<20	10	152	<9.00	66	
CL175	4446	1.46	27	41	27	<9.00			<9.00	<5	26	1477	<100	<25	0.11	<9.0	494	<20	43	181	<9.00	87	
CL175	4447	0.36	28	37	30	<9.00			<9.00	<5	<20	1372	<100	<25	0.15	<9.0	607	<20	18	101	<9.00	58	
CL175	4448	0.24	17	13	17	<9.00			<9.00	11	<20	1294	<100	<25	0.05	<9.0	150	<20	30	79	<9.00	18	
CL175	4449	0.17	20	45	25	<9.00			<9.00	10	20	>2000	<100	<25	0.07	<9.0	166	<20	9	120	<9.00	19	
CL176	4795	0.18	<5	<1	<2					<5	<20	4	<100	<25	0.06		<2	<20	<5	<2		27	
CL177	4574	0.35	13	28	11					<5	<20	187	<100	<25	0.12	<9.0	74	<20	8	76		40	
CL178	4573	0.35	14	56	30					<5	<20	158	<100	<25	0.15	<9.0	65	<20	8	105		39	
CL179	4569	0.57	21	47	14					<5	<20	81	<100	<25	0.46	<9.0	111	<20	20	98		140	
CL180	4570	0.04	<5	14	<2					<5	<20	71	<100	<25	<0.01	<9.0	13	<20	<5	21		<5	
CL181	4571	0.47	19	54	28					<5	<20	126	<100	<25	0.37	<9.0	138	<20	11	120		111	
CL181	4572	0.61	21	50	27					<5	<20	37	<100	<25	0.51	<9.0	121	<20	7	88		108	
CL182	4560	0.57	18	45	23					<5	<20	68	<100	<25	0.46	<9.0	117	<20	22	115		134	
CL182	4561	0.32	11	36	34					<5	<20	38	<100	<25	0.22	<9.0	62	<20	11	78		67	
CL183	4562	0.52	18	39	20					<5	21	114	<100	<25	0.39	<9.0	87	<20	15	98		107	
CL184	4591	0.05	<5	31	5					<5	<20	59	<100	<25	0.09	<9.0	168	<20	31	36		41	
CL185	4476	0.71	12	48	26					<5	<20	60	<100	<25	0.46		105	<20	12	107		143	
CL186	4475	0.53	12	42	35					<5	<20	91	<100	<25	0.26		72	<20	16	102		54	
CL187	4470	0.43	16	39	11					<5	27	117	<100	<25	0.30		85	<20	14	95		77	
CL187	4471	0.54	14	40	23					<5	21	102	<100	<25	0.31		88	<20	11	89		76	
CL188	4489	0.17	25	32	240					<5	<20	261	<100	<25	0.07		54	<20	13	142		17	
CL189	4468	0.02	7	7	10					<5	<20	246	<100	<25	<0.01		30	<20	6	30		<5	
CL189	4469	0.58	24	64	27					<5	<20	128	<100	<25	0.32		140	<20	13	251		80	
CL189	4490	0.15	33	70	31					<5	30	164	<100	<25	0.06		31	<20	6	44		10	
CL190	4467	0.09	19	19	19					7	<20	451	<100	<25	0.06		44	<20	9	53		16	
CL191	4466	0.14	30	18	15					<5	<20	340	<100	<25	0.04		31	<20	10	240		6	
CL191	4472	0.80	18	54	22					<5	20	76	<100	<25	0.55		125	<20	17	122		144	
CL191	4473	0.65	11	49	36					<5	23	61	<100	<25	0.41		102	<20	15	129		122	
CL191	4474	0.02	7	12	12					9	<20	258	<100	<25	<0.01		38	<20	<5	42		<5	
CL192	4491	0.15	<5	19	14					<5	<20	34	<100	<25	0.12		37	<20	6	31		28	
CL193	4719	0.22	8	25	232					<5	<20	27	<100	<25	0.20		43	<20	9	132		45	
CL194	4808	0.24	19	81	45					<5	26	88	<100	<25	0.57		169	<20	16	149		117	
CL195	4806	0.18	18	54	17					<5	<20	76	<100	<25	0.49		110	<20	15	80		91	
CL195	4807	0.69	36	162	26					<5	22	81	<100	<25	0.21		95	<20	16	256		74	
CL196	4484	0.15	18	56	23					<5	<20	76	<100	<25	0.47		114	<20	15	100		89	
CL197	4805	0.19	19	51	11					<5	<20	77	<100	<25	0.52		121	<20	16	92		109	
CL198	4700	0.29	29	25	70					<5	<20	73	<100	<25	0.09		36	<20	26	4372		26	
CL199	4678	0.21	30	23	45					<5	21	120	<100	<25	0.11		35	<20	42	875		22	
CL199	4726	0.24	25	40	85					<5	27	82	<100	<25	0.12		54	<20	38	2543		33	
CL200	4748	0.24	17	44	21					22	<20	54	<100	<25	0.45		103	<20	15	74		98	
CL201	4747	0.51	21	64	30					<5	<20	54	<100	<25	0.59		155	<20	12	104		94	
CL202	4745	0.31	19	49	22					12	<20	62	<100	<25	0.46		113	<20	17	100		98	
CL202	4746	0.32	21	53	15					<5	<20	77	<100	<25	0.53		123	<20	19	97		114	
CL203	4743	0.27	17	53	27					<5	<20	71	<100	<25	0.42		116	<20	19	106		93	
CL203	4744	0.08	5	24	31					<5	<20	38	<100	<25	0.10		56	<20	7	31		28	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
CL204	4679	1993		Oolah Mtn East	Colville	Conglomerate	Float	Select	Chandler Lake	A–1	15S	09E	28	NE	Umiat	
CL205	4712	1993		Itkillik River trib	Colville			Stream sed	Chandler Lake	A–1	15S	09E	22	SE	Umiat	
CL206	4713	1993		Oolah Mtn East	Colville			Stream sed	Chandler Lake	A–1	15S	09E	22	S Cent	Umiat	
CL207	4714	1993		Itkillik River trib	Colville	Shale	Outcrop	Select	Chandler Lake	A–1	15S	09E	27	NE	Umiat	
CL207	4715	1993		Itkillik River trib	Colville	Shale	Float	Select	Chandler Lake	A–1	15S	09E	27	NE	Umiat	
CL207	4716	1993		Itkillik River trib	Colville	Sandstone	Float	Select	Chandler Lake	A–1	15S	09E	27	NE	Umiat	
CL207	4732	1993		Itkillik River trib	Colville	Shale	Outcrop	Random chip	Chandler Lake	A–1	15S	09E	27	NE	Umiat	
CL207	4733	1993		Oolah Mtn East	Colville	Sandstone	Float	Select	Chandler Lake	A–1	15S	09E	27	NE	Umiat	
CL208	4731	1993		Itkillik River trib	Colville			Stream sed	Chandler Lake	A–1	15S	09E	27	NE	Umiat	
CL209	4761	1993		Oolah Mtn East	Colville	Conglomerate	Float	Select	Chandler Lake	A–1	15S	09E	27	SE	Umiat	
CL210	4775	1993		Oolah Mtn South	Colville	Sandstone	Rubblecrop	Select	Chandler Lake	A–1	16S	09E	4	NE	Umiat	
CL210	4786	1993		Oolah Mtn South	Colville	Sandstone	Rubblecrop	Select	Chandler Lake	A–1	16S	09E	4	NW	Umiat	
CL211	4780	1993		Oolah Pass	Colville	Quartz vein	Float	Select	Chandler Lake	A–1	16S	09E	10	NW	Umiat	
CL212	4781	1993		Oolah Pass	Colville	Sandstone	Outcrop	Select	Chandler Lake	A–1	16S	09E	9	SE	Umiat	
CL213	4699	1993		Oolah Pass South	Colville	Sandstone	Rubblecrop	Select	Chandler Lake	A–1	16S	09E	22	SW	Umiat	
CL214	4789	1993		Itkillik River	Colville	Sandstone	Rubblecrop	Select	Chandler Lake	A–1	15S	09E	30	NE	Umiat	
HP1	4104	1991		Etigonik Mtn	Colville	Alluvium	Stream	Placer	Howard Pass	D–4	05S	26W	32	SW	Umiat	
HP1	4105	1991		Etigonik Mtn	Colville	Alluvium	Stream	Placer	Howard Pass	D–4	05S	26W	32	SW	Umiat	
HP2	4106	1991		Killgwa River	Colville	Alluvium	Stream	Placer	Howard Pass	D–5	06S	28W	15	SW	Umiat	
HP3	4096	1991		Liberator Ridge	Colville	Sandstone	Rubblecrop	Grab	Howard Pass	D–4	07S	27W	17	SE	Umiat	
HP3	4097	1991		Liberator Ridge	Colville	Conglomerate	Outcrop	Grab	Howard Pass	D–4	07S	27W	17	SE	Umiat	
HP4	4109	1991		Anuk Creek	Colville	Sandstone	Float	Grab	Howard Pass	D–4	08S	26W	8	SW	Umiat	
HP4	4110	1991		Anuk Creek	Colville	Conglomerate	Float	Grab	Howard Pass	D–4	08S	26W	8	SW	Umiat	
HP4	4111	1991		Anuk Creek	Colville	Sandstone	Float	Grab	Howard Pass	D–4	08S	26W	8	SW	Umiat	
HP5	5785	1992		Anuk Creek	Colville	Shale	Outcrop	Repr chip	Howard Pass	D–4	8S	26W	8	SW	Umiat	
HP5	5786	1992		Anuk Creek	Colville	Mudstone	Outcrop	Repr chip	Howard Pass	D–4	8S	26W	8	SW	Umiat	
HP5	5787	1992		Anuk Creek	Colville	Mudstone	Outcrop	Chip channel	Howard Pass	D–4	8S	26W	8	SW	Umiat	
HP5	5788	1992		Anuk Creek	Colville	Shale	Outcrop	Chip channel	Howard Pass	D–4	8S	26W	8	SW	Umiat	
HP5	5789	1992		Anuk Creek	Colville	Shale	Rubblecrop	Grab	Howard Pass	D–4	8S	26W	8	SW	Umiat	
HP6	4107	1991		Anuk Creek	Colville	Alluvium	Stream	Placer	Howard Pass	D–4	08S	26W	8	SW	Umiat	
HP6	4108	1991		Anuk Creek	Colville	Alluvium	Stream	Pan Con	Howard Pass	D–4	08S	26W	8	SW	Umiat	
HP7	4098	1991		Stan Ridge	Colville	Mafic intrusive	Outcrop	Grab	Howard Pass	C–4	08S	27W	36	NW	Umiat	
HP8	4095	1991		Jubilee Creek	Colville	Chert	Outcrop	Grab	Howard Pass	C–5	08S	29W	18	SE	Umiat	
HP9	4057	1991		Jubilee Creek trib	Colville	Chert	Float	Grab	Howard Pass	C–5	09S	30W	2	NE	Umiat	
HP10	4058	1991		Jubilee Creek trib	Colville	Chert	Float	Grab	Howard Pass	C–5	09S	30W	2	NE	Umiat	
HP11	4035	1991		Rolling Pin Creek	Colville	Chert	Outcrop	Grab	Howard Pass	C–5	09S	29W	26	SE	Umiat	
HP12	5837	1992		Rampart Creek	Colville	Stream sed		Stream sed	Howard Pass	C–5	9S	30W	34	NE	Umiat	
HP12	5838	1992		Rampart Creek	Colville	Stream sed		Stream sed	Howard Pass	C–5	9S	30W	34	NE	Umiat	
HP13	5836	1992		Rampart Creek	Colville	Chert	Outcrop	Repr chip	Howard Pass	C–5	9S	30W	35	NW	Umiat	
HP14	4030	1991	Rampart Ck East	Rampart Creek	Colville	Chert	Outcrop	Grab	Howard Pass	C–5	30N	09E	35	NE	Umiat	
HP15	4029	1991	Rampart Ck East	Rampart Creek	Colville	Chert	Outcrop	Chip channel	Howard Pass	C–5	09S	30W	35	NE	Umiat	
HP16	4033	1991	Rampart Ck East	Rampart Creek	Colville	Chert	Outcrop	Select	Howard Pass	C–5	09S	30W	35	SE	Umiat	
HP17	4034	1991	Rampart Ck East	Rampart Creek	Colville	Quartz	Rubblecrop	Grab	Howard Pass	C–5	09S	30W	35	SE	Umiat	
HP18	4031	1991	Rampart Ck East	Rampart Creek	Colville	Chert	Outcrop	Grab	Howard Pass	C–5	09S	30W	35	SE	Umiat	
HP19	4032	1991	Rampart Ck East	Rampart Creek	Colville	Chert	Outcrop	Select	Howard Pass	C–5	09S	30W	35	SE	Umiat	
HP20	4046	1991		Rampart Creek	Colville	Chert	Rubblecrop	Select	Howard Pass	C–5	10S	30W	1	NW	Umiat	
HP21	4028	1991		Rampart Creek	Colville	Chert	Outcrop	Chip channel	Howard Pass	C–5	10S	30W	9	SE	Umiat	
HP22	4027	1991	Rampart Ck West	Rampart Creek	Colville	Chert	Rubblecrop	Grab	Howard Pass	C–5	10S	30W	9	SW	Umiat	
HP22	4094	1991	Rampart Ck West	Rampart Creek	Colville	Mafic intrusive	Rubblecrop	Grab	Howard Pass	C–5	10S	30W	16	NW	Umiat	
HP23	4019	1991	Rampart Ck West	Rampart Creek	Colville	Mafic intrusive	Rubblecrop	Select	Howard Pass	C–5	10S	30W	16	NW	Umiat	
HP23	4093	1991	Rampart Ck West	Rampart Creek	Colville	Mafic intrusive	Rubblecrop	Grab	Howard Pass	C–5	10S	30W	16	NW	Umiat	
HP24	4018	1991	Rampart Ck West	Rampart Creek	Colville	Chert	Rubblecrop	Select	Howard Pass	C–5	10S	30W	16	NE	Umiat	
HP25	4017	1991	Rampart Ck West	Rampart Creek	Colville	Mafic intrusive	Rubblecrop	Grab	Howard Pass	C–5	10S	30W	16	NE	Umiat	
HP26	4090	1991	Rampart Ck West	Rampart Creek	Colville	Mafic intrusive	Rubblecrop	Grab	Howard Pass	C–5	10S	30W	16	NE	Umiat	
HP26	4091	1991	Rampart Ck West	Rampart Creek	Colville	Mafic intrusive	Rubblecrop	Grab	Howard Pass	C–5	10S	30W	16	NE	Umiat	
HP26	4092	1991	Rampart Ck West	Rampart Creek	Colville	Mafic intrusive	Rubblecrop	Grab	Howard Pass	C–5	10S	30W	16	NC	Umiat	
HP27	4065	1991		Rampart Creek	Colville	Chert	Outcrop	Random chip	Howard Pass	C–5	10S	30W	27	NW	Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
CL204	4679	<0.5	0.93	19		96			<5	0.16	<2.0	10	355		23		1.24	<10	0.32	7	7	0.06	69		4
CL205	4712	<0.5	5.08	25		340			11	0.19	<2.0	12	74		36		3.42	15	0.99	30	33	0.63	493		3
CL206	4713	<0.5	6.02	14		382			16	0.23	<2.0	16	84		37		3.74	18	1.10	34	38	0.78	552		1
CL207	4714	<0.5	2.20	41		143			10	3.71	<2.0	20	227		14		4.81	14	0.48	16	16	1.51	2684		4
CL207	4715	<0.5	3.74	12		316			<5	1.25	<2.0	7	190		13		3.36	10	0.74	18	24	0.66	1451		<1
CL207	4716	<0.5	0.97	23		237			<5	0.81	2.5	1	396		22		0.99	<10	0.44	13	7	0.05	58		5
CL207	4732	<0.5	7.42	8		430			7	0.19	<2.0	20	144		51		4.37	22	0.92	35	48	0.90	409		4
CL207	4733	<0.5	2.29	7		120			17	1.44	<2.0	13	301		32		2.79	11	0.51	23	28	0.80	1124		20
CL208	4731	<0.5	6.06	<5		370			12	0.22	<2.0	14	89		39		3.71	17	1.05	31	41	0.81	533		4
CL209	4761	0.6	1.19	484		197			10	1.49	<2.0	8	349		31		6.09	11	0.45	8	6	0.42	762		5
CL210	4775	<0.5	1.43	<5		101			8	0.29	<2.0	11	223		37		2.44	<10	0.17	21	22	0.50	368		18
CL210	4786	<0.5	1.08	<5		110			7	3.19	<2.0	<1	101		<1		3.34	<10	0.18	<5	20	0.49	1236		<1
CL211	4780	<0.5	0.27	8		1291			21	>10.00	<2.0	12	54		51		>10.00	14	0.03	<5	39	3.84	3370		14
CL212	4781	<0.5	1.09	<5		94			14	0.79	<2.0	7	108		17		5.65	<10	0.31	8	11	0.31	512		3
CL213	4699	<0.5	0.63	<5		294			9	0.14	<2.0	2	261		7		2.35	<10	0.02	<5	12	0.25	283		4
CL214	4789	<0.5	1.35	15		228			<5	6.22	<2.0	<1	84		<1		2.09	<10	0.20	<5	8	0.36	1950		<1
HP1	4104	<0.5	4.09	224	187	116			<5	5.38	<2.0	51	14026		44		>10.00	24	0.60	14	23	1.79	2298		10
HP1	4105	<0.5	2.85	93	4	1461			<5	4.04	<2.0	32	1379		42		6.54	15	0.82	12	38	1.37	2610		5
HP2	4106	<0.5	3.05	37	41	>2000			7	4.28	<2.0	33	976		86		5.46	<10	0.47	14	27	1.67	7235		5
HP3	4096	<0.5	4.32	43	3	1110			14	>10.00	<2.0	25	454		55		4.49	13	0.55	11	30	2.56	2192		3
HP3	4097	<0.5	3.47	12	3	840			<5	8.61	<2.0	17	294		51		4.3	<10	0.49	8	24	2.02	1342		1
HP4	4109	<0.5	4.37	37	1	1665			10	3.90	<2.0	23	407		56		5.18	15	0.68	13	40	2.61	1088		<1
HP4	4110	<0.5	3.04	23	4	540			<5	5.74	<2.0	21	254		60		3.98	<10	0.81	17	37	2.13	1314		32
HP4	4111	4.4	1.59	27	3	>2000			54	5.00	<2.0	27	39		93		2.36	127	0.38	40	19	0.72	>20000		7
HP5	5785	<0.5	6.69	48	7	777			14	3.99	<2.0	23	182		57		5.23	22	1.77	16	55	3.14	663		<1
HP5	5786	1.0	2.30	34	11	30			<5	1.48	<2.0	6	172		115		1.97	10	0.73	<5	11	0.32	750		2
HP5	5787	0.6	3.83	41	5	100			6	1.74	<2.0	11	66		27		2.85	18	1.66	10	16	0.67	649		4
HP5	5788	<0.5	2.91	57	10	35			<5	0.37	<2.0	8	59		30		2.44	12	1.40	10	9	0.41	53		43
HP5	5789	<0.5	5.38	58	6	722			10	4.18	<2.0	25	177		56		5.16	22	1.53	12	54	2.75	764		6
HP6	4107	<0.5	4.51	<5	3	>2000			7	3.53	<2.0	25	1872		69		5.55	11	0.92	14	39	1.98	7133		4
HP6	4108	<0.5	5.64	38	3	>2000			6	2.57	<2.0	22	373		66		5.14	12	1.16	18	47	2.13	2649		3
HP7	4098	0.6	3.66	50	6	>2000			26	7.70	<2.0	34	71		195		7.95	20	0.65	<5	12	2.64	1364		3
HP8	4095	0.7	0.19	35	3	338			6	8.36	<2.0	<1	194		6		0.24	<10	0.07	<5	5	0.40	77		2
HP9	4057	<0.5	1.06	13	26	>2000			7	0.14	<2.0	2	300		37		1.25	<10	0.20	<5	35	0.45	576		5
HP10	4058	1.5	3.43	277	14	599			<5	0.51	<2.0	3	157		105		5.45	<10	0.34	<5	26	0.84	461		5
HP11	4035	0.7	1.03	21	4	>2000			7	0.08	<2.0	6	343		25		0.86	<10	0.30	<5	27	0.14	437		6
HP12	5837	<0.5	4.81	45	6	1943			<5	0.65	<2.0	22	91		64		4.07	17	1.06	11	38	0.88	1506		4
HP12	5838	<0.5	4.84	19	9	1988			<5	0.37	<2.0	25	96		90		4.42	23	1.44	7	47	0.80	2785		5
HP13	5836	2.3	2.85	41	20	43			7	0.70	<2.0	7	240		59		2.52	<10	0.88	19	25	0.62	347		<1
HP14	4030	<0.5	2.05	<5	3	1022			10	0.04	<2.0	5	195		62		1.72	<10	0.61	13	23	0.27	86		5
HP15	4029	<0.5	1.22	<5	1	1039			<5	3.69	<2.0	3	79		4		>10.00	<10	0.42	6	21	1.84	3891		3
HP16	4033	<0.5	0.98	14	3	>2000			9	0.07	<2.0	8	360		23		1.17	<10	0.12	<5	18	0.33	1617		2
HP17	4034	<0.5	1.35	23	4	1053			9	>10.00	<2.0	10	23		40		2.78	<10	0.21	13	4	2.04	12304		2
HP18	4031	0.9	1.10	19	11	1323			13	0.06	<2.0	3	384		39		1.41	<10	0.41	6	31	0.13	132		2
HP19	4032	<0.5	0.64	<5	8	509			14	>10.00	<2.0	11	38		8		3.13	<10	0.22	<5	12	8.37	3017		1
HP20	4046	<0.5	1.46	21	2	999			<5	0.10	<2.0	8	110		55		5.13	<10	0.62	8	29	0.53	310		10
HP21	4028	<0.5	1.17	<5	3	>2000			11	0.05	<2.0	3	196		15		1.33	<10	0.44	<5	17	0.18	53		7
HP22	4027	<0.5	1.01	9	3	>2000			9	0.79	<2.0	7	240	0.04	16		1.38	<10	0.28	<5	32	0.33	624		2
HP22	4094	<0.5	4.95	34	4	>2000			14	7.78	<2.0	39	65		174		8.35	16	0.21	<5	11	3.10	1394		1
HP23	4019	<0.5	4.73	15	3	>2000			12	1.26	<2.0	17	114	0.04	34		4.18	13	0.11	<5	32	1.78	1138		2
HP23	4093	<0.5	4.06	29	2	>2000			<5	1.70	<2.0	12	126		38		3.9	<10	0.15	<5	30	1.56	982		<1
HP24	4018	<0.5	1.48	17	2	>2000			21	>10.00	<2.0	18	40		45		1.88	16	0.53	10	13	7.02	10702		<1
HP25	4017	<0.5	5.41	16	6	>2000			22	6.93	<2.0	42	160	0.05	159		9.69	<10	0.28	<5	12	4.11	1323		4
HP26	4090	<0.5	2.22	18	3	813			<5	0.08	<2.0	2	449		18		2.66	<10	0.63	28	18	0.30	284		6
HP26	4091	<0.5	3.95	33	4	912			14	5.25	<2.0	40	46		252		>10.00	18	0.29	<5	13	2.74	1400		3
HP26	4092	<0.5	5.06	29	3	1526			18	6.88	<2.0	36	154		136		7.2	19	0.24	<5	10	3.99	1146		5
HP27	4065	<0.5	3.00	17	8	39			5	0.52	<2.0	5	186		19		1.5	<10	0.36	18	24	0.76	129		2

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
CL204	4679	0.04	<5	14	8					<5	<20	25	<100	<25	0.06		37	<20	7	20		8	
CL205	4712	0.37	16	39	23					30	<20	60	<100	<25	0.42		103	<20	16	88		94	
CL206	4713	0.49	19	48	30					<5	<20	71	<100	<25	0.48		113	<20	18	95		102	
CL207	4714	0.22	8	35	29					<5	<20	61	<100	<25	0.12		47	<20	16	199		31	
CL207	4715	0.30	10	28	21					<5	<20	53	<100	<25	0.21		59	<20	13	176		45	
CL207	4716	0.07	<5	14	56					<5	<20	51	<100	<25	0.08		52	<20	50	67		24	
CL207	4732	0.53	23	65	27					11	<20	67	<100	<25	0.63		150	<20	19	118		116	
CL207	4733	0.20	7	32	51					<5	<20	76	<100	<25	0.22		70	<20	10	215		45	
CL208	4731	0.48	20	44	23					<5	<20	69	<100	<25	0.49		116	<20	18	100		104	
CL209	4761	0.12	7	25	150					20	<20	39	<100	<25	0.07		52	<20	12	123		42	
CL210	4775	0.30	8	30	26					<5	<20	31	<100	<25	0.25		61	<20	8	90		40	
CL210	4786	0.08	<5	<1	13					<5	<20	80	<100	<25	0.06		<2	<20	<5	159		13	
CL211	4780	0.04	11	21	29					<5	<20	108	<100	<25	0.01		27	<20	12	111		<5	
CL212	4781	0.08	7	16	31					<5	<20	20	<100	<25	0.09		27	<20	<5	78		18	
CL213	4699	0.11	<5	13	19					12	<20	28	<100	<25	0.01		9	<20	<5	57		<5	
CL214	4789	0.27	<5	<1	35					<5	<20	314	<100	<25	0.06		7	<20	7	85		14	
HP1	4104	1.06	7	121	67		2	<5		78	<20	141	<5	<25	0.93		380	<20	18	247		28	
HP1	4105	1.28	12	91	46		3	<5		8	<20	132	<5	<25	0.55		246	<20	14	278		44	
HP2	4106	1.20	9	92	36		5	<5		<5	<20	732	<5	<25	0.47		245	<20	26	221		31	
HP3	4096	1.34	20	149	<2		4	5		<5	<20	157	35	<25	0.55		190	<20	17	104		50	
HP3	4097	1.29	13	72	<2		3	<5		<5	<20	184	31	<25	0.49		169	<20	15	81		48	
HP4	4109	1.65	15	113	<2		3	7		<5	<20	122	35	<25	0.55		198	<20	14	117		48	
HP4	4110	1.02	10	112	<2		4	<5		<5	<20	189	20	<25	0.34		173	<20	14	121		41	
HP4	4111	0.15	7	36	13		1	<5		<5	<20	185	24	<25	0.08		71	<20	106	36		15	
HP5	5785	1.27	13	87	319		7	18		<5	<20	149	<100	<25	0.49		186	<20	14	161		89	
HP5	5786	0.25	<5	61	346		11	17		<5	<20	73	<100	<25	0.14		248	<20	9	158		56	
HP5	5787	0.50	9	26	54		8	12		<5	<20	61	<100	<25	0.30		99	<20	10	74		74	
HP5	5788	0.37	<5	27	40		11	15		<5	<20	44	<100	<25	0.20		141	<20	8	28		71	
HP5	5789	1.24	12	95	30		6	12		<5	<20	137	<100	<25	0.48		189	<20	10	127		74	
HP6	4107	1.51	12	90	25		5	<5		<5	<20	174	<5	<25	0.65		255	<20	19	142		53	
HP6	4108	1.49	15	91	30		5	<5		10	<20	134	<5	<25	0.56		209	<20	21	130		71	
HP7	4098	2.11	19	51	<2		12	10		<5	25	579	60	<25	0.79		349	<20	13	134		24	
HP8	4095	0.06	7	10	<2		<1	<5		11	<20	201	21	<25	0.01		15	<20	<5	73		<5	
HP9	4057	0.15	<5	23	<2		2	<5		<5	<20	68	38	<25	0.05		14	<20	<5	72		13	
HP10	4058	1.99	<5	29	193		2	5		<5	<20	138	59	<25	0.38		206	<20	19	279		112	
HP11	4035	0.04	<5	24	<2		4	11		<5	<20	52	<5	<25	0.05		28	<20	<5	34		18	
HP12	5837	0.87	9	67	19		4	28		9	<20	138	<100	<25	0.39		175	<20	14	174		80	
HP12	5838	0.89	11	95	29		6	63		<5	<20	227	<100	<25	0.37		187	<20	13	261		84	
HP13	5836	0.69	21	30	14		10	<5		<5	<20	128	<100	<25	0.12		147	<20	16	60		57	
HP14	4030	0.16	<5	16	<2		4	7		<5	<20	94	<5	<25	0.15		47	<20	11	20		44	
HP15	4029	0.15	16	14	<2		3	12		<5	25	110	79	<25	0.09		54	<20	11	6		21	
HP16	4033	0.04	<5	28	<2		5	15		6	<20	53	11	<25	0.04		19	<20	5	47		21	
HP17	4034	0.81	11	15	<2		6	11		<5	<20	808	75	<25	0.07		44	<20	16	85		49	
HP18	4031	0.06	<5	16	<2		9	15		6	<20	31	<5	<25	0.06		59	<20	8	20		23	
HP19	4032	<0.01	7	18	<2		2	7		<5	<20	1090	66	<25	0.03		31	<20	8	32		25	
HP20	4046	0.37	5	48	8		3	5		<5	<20	42	<5	<25	0.12		53	<20	9	108		58	
HP21	4028	0.10	<5	10	<2		4	6		<5	<20	40	34	<25	0.05		22	<20	<5	27		20	
HP22	4027	0.21	<5	28	<2		3	14		<5	<20	69	<5	<25	0.04		18	<20	8	52		12	
HP22	4094	1.95	12	54	<2		9	15		<5	<20	213	56	<25	0.84		324	<20	16	159		31	
HP23	4019	4.82	8	30	<2		5	10		<5	<20	146	27	<25	0.32		147	<20	11	68		29	
HP23	4093	4.16	<5	27	<2		2	6		<5	<20	225	<5	<25	0.32		152	45	7	175		16	
HP24	4018	0.31	7	55	<2		5	8		<5	<20	382	60	<25	0.08		51	<20	14	74		22	
HP25	4017	2.43	44	67	<2		16	22		6	<20	236	45	<25	0.90		347	<20	18	96		97	
HP26	4090	0.37	7	30	<2		<1	<5		<5	<20	40	<5	<25	0.39		83	<20	12	103		87	
HP26	4091	2.30	16	45	<2		29	30		6	<20	216	78	<25	1.21		517	<20	19	210		12	
HP26	4092	2.16	14	87	<2		10	15		8	24	260	60	<25	0.69		282	<20	13	134		22	
HP27	4065	2.13	6	36	39		16	<5		<5	<20	52	13	<25	0.17		148	<20	18	105		50	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
HP28	4064	1991		Rampart Creek	Colville	Chert	Rubblecrop	Grab	Howard Pass	C–5	10S	30W	28	SE	Umiat	
HP29	4056	1991	Rolling Pin Creek	Rolling Pin Creek	Colville	Chert	Outcrop	Random chip	Howard Pass	C–5	10S	29W	18	NE	Umiat	
HP30	4047	1991	Rolling Pin Creek	Rolling Pin Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	18	SW	Umiat	
HP30	4048	1991	Rolling Pin Creek	Rolling Pin Creek	Colville	Chert	Outcrop	Contin chip	Howard Pass	C–5	10S	29W	18	SW	Umiat	
HP31	4049	1991	Rolling Pin Creek	Rolling Pin Creek	Colville	Chert	Outcrop	Random chip	Howard Pass	C–5	10S	29W	18	NE	Umiat	
HP32	5823	1992		Rolling Pin Creek	Colville	Stream sed		Stream sed	Howard Pass	C–5	10S	29W	8	SW	Umiat	
HP32	5824	1992		Rolling Pin Creek	Colville	Stream sed		Stream sed	Howard Pass	C–5	10S	29W	7	SE	Umiat	
HP33	5820	1992	Drenchwater Creek	Drenchwater Creek	Colville	Chert brec	Float	Select	Howard Pass	C–5	10S	29W	8	SW	Umiat	
HP33	5821	1992	Drenchwater Creek	Drenchwater Creek	Colville	Chert brec	Float	Select	Howard Pass	C–5	10S	29W	8	SW	Umiat	
HP34	5722	1992	Drenchwater Creek	Drenchwater Creek	Colville	Chert/mudstone	Rubblecrop	Repr chip	Howard Pass	C–5	10S	29W	17	NW	Umiat	
HP34	5815	1992	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Rubblecrop	Select	Howard Pass	C–5	10S	29W	17	NE	Umiat	
HP34	5816	1992	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Rubblecrop	Select	Howard Pass	C–5	10S	29W	17	NE	Umiat	
HP34	5817	1992	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	17	NE	Umiat	
HP34	5818	1992	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone	Float	Select	Howard Pass	C–5	10S	29W	17	NE	Umiat	
HP34	5819	1992	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Select	Howard Pass	C–5	10S	29W	17	NW	Umiat	
HP34	5822	1992	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Outcrop	Repr chip	Howard Pass	C–5	10S	29W	17	NE	Umiat	
HP35	5709	1992	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone	Outcrop	Select	Howard Pass	C–5	10S	29W	17	NE	Umiat	
HP35	5720	1992	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Outcrop	Repr chip	Howard Pass	C–5	10S	29W	17	SE	Umiat	
HP35	5721	1992	Drenchwater Creek	Drenchwater Creek	Colville	Shale	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	17	SE	Umiat	
HP36	4011	1990	Drenchwater Creek	Drenchwater Creek	Colville	Alluvium	Stream	Placer	Howard Pass	C–5	10S	29W	16	NW	Umiat	
HP37	4099	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mafic intrusive	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	16	SC	Umiat	
HP38	5001	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5002	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5003	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5004	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5005	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5006	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5007	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5008	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5009	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5010	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5011	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5012	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5013	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5014	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5015	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5016	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5017	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5018	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5019	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5020	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5021	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5022	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5023	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5024	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5025	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5026	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5027	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5028	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5029	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5030	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5031	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5032	1991	Drenchwater Creek	Drenchwater Creek	Colville	Shale/chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5033	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5034	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5035	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5036	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5037	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
HP28	4064	1.3	3.35	29	<1	>2000			<5	0.36	<2.0	<1	213		23		0.69	<10	0.45	9	4	0.22	79		4
HP29	4056	<0.5	1.06	<5	8	588			<5	0.26	<2.0	6	189		53		>10.00	<10	0.42	<5	22	0.30	341		<1
HP30	4047	<0.5	0.78	26	4	>2000			15	>10.00	<2.0	10	32		25		1.8	26	0.02	9	23	0.53	>20000		2
HP30	4048	<0.5	1.94	17	2	>2000			<5	0.68	<2.0	7	175		57		2.12	<10	0.78	11	40	0.88	1284		3
HP31	4049	<0.5	0.77	<5	2	>2000			<5	0.35	<2.0	18	285		47		1.65	<10	0.21	<5	55	0.73	2435		1
HP32	5823	<0.5	5.36	51	9	533			14	0.30	<2.0	35	87		146		5.02	25	1.79	6	57	0.77	5321		9
HP32	5824	<0.5	4.91	46	9	525			<5	0.26	<2.0	61	88		180		4.94	24	1.46	<5	46	0.75	6077		11
HP33	5820	<0.5	0.87	7	2	719			<5	0.32	<2.0	8	314		18		0.94	<10	0.07	<5	28	0.21	686		<1
HP33	5821	<0.5	0.09	17	3	643			<5	<0.01	<2.0	7	277		6		2.76	<10	0.01	<5	<2	0.02	124		<1
HP34	5722	<0.5	0.88	33	2	333			<5	0.07	<2.0	8	248		35		0.77	<10	0.18	<5	26	0.12	179		1
HP34	5815	2.9	0.47	25	7	78			<5	<0.01	<2.0	3	222		<1		0.85	<10	0.20	<5	80	0.02	19		2
HP34	5816	1.3	0.75	35	6	463			<5	<0.01	<2.0	<1	175		3		0.71	<10	0.25	7	83	0.04	15		<1
HP34	5817	1.9	0.37	19	4	401			<5	<0.01	<2.0	3	371		5		0.53	<10	0.09	<5	79	0.01	33		13
HP34	5818	8.5	0.74	22	7	101			<5	<0.01	<2.0	2	309		29		0.86	13	0.17	<5	157	0.03	28		10
HP34	5819	<0.5	0.87	80	6	169			<5	0.01	<2.0	3	397		33		2.26	<10	0.07	<5	44	0.03	57		6
HP34	5822	0.9	3.29	32	11	107			<5	1.00	2.7	11	299		109		3.36	11	0.81	5	37	1.06	449		15
HP35	5709	9.8	0.57	52	12	55			11	0.04	11.1	8	266		49		1.05	<10	0.15	<5	118	0.03	74		4
HP35	5720	1.4	0.50	62	5	27			<5	<0.01	<2.0	9	287		16		1.74	<10	0.12	<5	99	0.02	75		<1
HP35	5721	8.1	0.99	39	10	63			<5	0.02	<2.0	3	279		14		1.01	<10	0.38	14	29	0.06	123		12
HP36	4011	1.4	2.98	39	6	>2000			<5	0.63	<1.0	24	134		68		5.47	<2	0.34	<1	36	0.71	1800		3
HP37	4099	<0.5	4.40	19	2	1142			15	7.83	<2.0	36	101		184		8.75	19	0.28	<5	17	3.00	1421		3
HP38	5001	5.9	0.43	<5	5	845			7	<0.01	3.9	<1	265		11		0.41	<10	0.11	<5	86	0.04	26		3
HP38	5002	6.1	1.10	<5	16	520			<5	0.03	<2.0	9	104		48		1.39	<10	0.54	22	40	0.09	197		38
HP38	5003	22.2	0.97	68	31	278			<5	0.04	<2.0	6	121		52		1.63	<10	0.42	19	39	0.05	73		31
HP38	5004	5.5	0.34	<5	5	350			<5	0.05	<2.0	4	483		13		0.58	<10	0.05	<5	76	0.05	55		3
HP38	5005	11.4	1.19	47	18	322			<5	0.06	<2.0	7	108		33		1.8	<10	0.49	26	31	0.11	167		23
HP38	5006	5.4	0.22	<5	5	388			9	0.01	<2.0	2	425		9		0.5	<10	0.04	<5	40	0.03	41		4
HP38	5007	7.6	1.55	56	17	483			<5	0.04	<2.0	8	147		33		1.98	<10	0.53	43	62	0.10	130		27
HP38	5008	7.3	1.87	48	21	404			<5	0.01	<2.0	6	108		33		1.69	<10	0.55	56	90	0.02	32		22
HP38	5009	5.0	2.64	79	19	842			<5	0.02	<2.0	5	69		45		1.38	<10	0.86	46	115	0.02	13		15
HP38	5010	2.5	2.28	42	20	1660			<5	0.01	<2.0	6	68		54		1.43	<10	1.09	45	60	<0.01	15		11
HP38	5011	<0.5	2.13	22	16	1127			<5	0.02	<2.0	7	101		83		3.93	<10	0.77	25	69	<0.01	72		7
HP38	5012	<0.5	2.04	32	43	1600			<5	0.05	<2.0	8	83		60		4.04	<10	0.91	34	57	<0.01	54		5
HP38	5013	1.9	1.87	<5	11	1168			<5	0.05	<2.0	4	74		66		1.41	<10	0.88	42	61	0.02	17		6
HP38	5014	4.7	0.92	38	6	384			<5	<0.01	<2.0	3	128		60		1.83	<10	0.34	17	21	<0.01	6		8
HP38	5015	1.6	1.14	9	4	1199			<5	0.36	<2.0	4	281		21		1.13	<10	0.32	10	86	0.22	106		2
HP38	5016	4.1	1.03	52	28	539			<5	0.02	<2.0	7	36		26		1.35	<10	0.45	28	36	0.05	196		9
HP38	5017	6.4	1.39	36	5	1270			<5	<0.01	<2.0	11	49		86		2.14	<10	0.89	16	87	0.07	253		8
HP38	5018	1.9	1.76	27	<1	1018			<5	0.08	<2.0	7	20		17		1.06	<10	0.86	33	64	0.08	168		4
HP38	5019	1.9	2.37	23	<1	1161			<5	0.07	<2.0	9	33		16		1.74	<10	0.83	27	66	0.09	910		11
HP38	5020	2.6	1.94	15	4	959			<5	0.06	<2.0	9	19		17		0.49	<10	0.97	56	61	0.04	162		3
HP38	5021	3.2	1.89	37	4	926			<5	0.86	<2.0	13	46		30		6.01	<10	0.50	36	60	0.09	1911		9
HP38	5022	3.1	1.79	36	8	225			<5	1.23	9.7	17	48		78		2.94	<10	0.34	17	15	0.15	943		15
HP38	5023	<0.5	1.75	20	9	790			<5	0.07	<2.0	7	135		38		2.68	<10	0.42	29	47	0.07	153		9
HP38	5024	1.8	1.03	20	5	242			<5	0.04	2.1	1	429		55		1.12	<10	0.54	25	22	0.12	195		26
HP38	5025	8.0	1.77	19	16	1082			<5	1.14	5.1	7	327		86		1.57	<10	0.61	26	29	0.22	2279		20
HP38	5026	15.6	1.77	9	12	583			<5	1.78	6.3	8	374		97		1.78	<10	0.49	33	24	0.18	1021		22
HP38	5027	26.8	1.90	19	13	227			<5	2.14	11.1	7	512		141		2.74	<10	0.44	40	22	0.17	1180		29
HP38	5028	3.0	0.12	<5	2	213			<5	0.05	<2.0	1	382		12		0.49	<10	<0.01	<5	13	0.02	45		3
HP38	5029	1.8	0.13	<5	2	253			<5	0.01	<2.0	3	355		12		0.44	<10	<0.01	<5	22	0.02	41		1
HP38	5030	1.9	1.92	24	3	1186			<5	0.05	<2.0	5	99		51		2.73	<10	0.76	19	48	0.30	504		10
HP38	5031	4.8	2.02	25	4	218			<5	0.03	<2.0	<1	346		40		1.4	11	0.84	40	26	0.18	22		16
HP38	5032	2.2	0.29	<5	2	441			<5	0.03	<2.0	3	415		9		0.56	<10	0.05	<5	51	0.03	41		3
HP38	5033	10.1	1.11	27	8	107			<5	0.02	<2.0	<1	117		38		2.11	<10	0.44	27	41	0.07	43		30
HP38	5034	1.8	0.45	<5	5	412			6	0.01	<2.0	2	387		10		0.51	<10	0.09	<5	64	0.04	34		5
HP38	5035	7.0	2.19	23	7	740			<5	0.07	<2.0	<1	325		49		2.31	<10	0.82	41	25	0.20	32		19
HP38	5036	2.8	0.48	<5	3	495			<5	<0.01	<2.0	3	427		23		0.64	<10	0.12	<5	79	0.04	41		5
HP38	5037	6.4	1.69	30	7	392			<5	0.02	<2.0	<1	103		33		1.84	<10	0.59	36	36	0.10	34		18

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
HP28	4064	3.35	9	24	122		2	<5		<5	<20	42	41	<25	0.33		96	<20	7	96		67	
HP29	4056	0.47	<5	62	8		5	9		<5	<20	37	14	<25	0.07		32	<20	7	77		35	
HP30	4047	0.10	9	26	12		4	<5		8	<20	711	15	35	0.07		56	<20	14	176		19	
HP30	4048	0.22	6	47	<2		4	<5		<5	<20	109	<5	<25	0.14		46	<20	11	149		51	
HP31	4049	0.08	<5	65	<2		2	<5		<5	<20	84	11	<25	0.05		21	<20	<5	150		34	
HP32	5823	1.02	13	102	29		7	15		<5	<20	226	<100	<25	0.40		218	<20	14	260		93	
HP32	5824	0.99	11	166	32		8	9		5	<20	242	<100	<25	0.38		240	<20	18	450		91	
HP33	5820	0.51	<5	11	24		2	9		<5	<20	58	<100	<25	0.03		28	<20	10	50		11	
HP33	5821	0.02	<5	19	6		1	<5		<5	<20	1	<100	<25	<0.01		16	<20	<5	113		<5	
HP34	5722	0.29	<5	19	13		3	<5		<5	<20	40	<100	<25	0.04		17	<20	<5	51		15	
HP34	5815	0.03	<5	3	786		3	15		<5	<20	39	<100	<25	0.04		21	<20	<5	16		11	
HP34	5816	0.03	<5	<1	458		3	15		6	<20	41	<100	<25	0.04		25	<20	<5	16		14	
HP34	5817	0.04	<5	10	451		2	14		<5	<20	13	<100	<25	0.02		18	<20	<5	53		7	
HP34	5818	0.04	<5	4	4815		3	9		14	<20	86	<100	<25	0.03		35	<20	<5	645		<5	
HP34	5819	0.48	<5	13	23		4	11		<5	<20	82	<100	<25	0.05		106	<20	<5	55		19	
HP34	5822	0.60	<5	55	9		10	6		<5	<20	123	<100	<25	0.17		307	<20	18	260		75	
HP35	5709	0.06	<5	47	3261	0.32	3	26		<5	<20	42	<100	<25	0.03		29	<20	<5	2708	0.26	12	
HP35	5720	0.04	<5	67	200	0.02	4	13		<5	<20	13	<100	<25	0.03		21	<20	<5	181	0.02	13	
HP35	5721	0.05	<5	38	573		18	7		<5	<20	25	<100	<25	0.13		104	<20	<5	56		40	
HP36	4011	0.38	5	89		0.00	<20	29		<5	<20	145	<1	<10	0.54		233	<10	21		0.04	44	
HP37	4099	1.84	14	65	<2		10	<5		<5	<20	229	36	<25	0.85		387	<20	15	163		36	
HP38	5001	<0.01	<5	8	425		4	<5		16	<20	10	<5	<25	0.03		26	<20	<5	691		12	
HP38	5002	0.12	9	174	1257		16	25		29	<20	48	21	<25	0.16		100	<20	17	70		57	
HP38	5003	0.13	6	121	2950		12	10		68	<20	39	25	<25	0.14		129	<20	13	167		51	
HP38	5004	<0.01	<5	19	1294		4	<5		19	<20	9	<5	<25	0.02		29	<20	<5	7		7	
HP38	5005	0.19	7	67	2473		10	<5		51	<20	53	<5	<25	0.18		165	<20	15	96		65	
HP38	5006	<0.01	<5	22	157		5	5		12	<20	7	<5	<25	0.01		34	<20	5	10		9	
HP38	5007	0.17	31	82	1018		11	19		47	<20	65	<5	<25	0.26		160	<20	18	65		130	
HP38	5008	0.11	65	43	932		13	78		35	<20	54	<5	<25	0.17		80	<20	18	41		233	
HP38	5009	0.19	84	31	684		8	78		37	<20	37	25	<25	0.28		70	<20	20	104		289	
HP38	5010	0.13	21	53	727		10	91		<5	<20	46	<5	<25	0.18		102	<20	29	356		156	
HP38	5011	0.16	36	41	216		7	86		<5	<20	51	<5	<25	0.37		80	<20	22	416		226	
HP38	5012	0.15	65	55	130		19	221		<5	<20	59	<5	<25	0.54		101	<20	27	412		262	
HP38	5013	0.14	34	35	282		6	<5		<5	<20	46	<5	<25	0.44		88	<20	28	153		224	
HP38	5014	0.05	8	49	171		8	<5		7	<20	27	<5	<25	0.15		68	50	14	33		55	
HP38	5015	0.14	<5	12	463		4	<5		8	<20	34	<5	<25	0.13		53	<20	<5	148		27	
HP38	5016	0.18	24	49	1720		8	<5		44	<20	40	<5	<25	0.33		53	<20	15	92		96	
HP38	5017	0.19	92	22	1397		5	<5		14	<20	27	9	<25	0.18		54	<20	12	441		307	
HP38	5018	0.17	63	17	62		3	<5		<5	<20	40	<5	<25	0.24		38	<20	17	170		279	
HP38	5019	0.18	84	28	42		6	<5		<5	<20	62	<5	<25	0.26		40	<20	16	107		356	
HP38	5020	0.17	59	20	8		2	<5		<5	<20	52	<5	<25	0.24		32	<20	16	68		263	
HP38	5021	0.18	85	65	197		16	78		<5	<20	57	<5	<25	0.15		57	<20	20	1500		186	
HP38	5022	0.18	20	78	23		13	40		12	<20	40	<5	<25	0.10		76	<20	29	611		44	
HP38	5023	0.16	48	60	64		10	3		<5	<20	46	<5	<25	0.27		101	<20	18	113		134	
HP38	5024	0.01	<5	108	<2		10	<5		<5	<20	41	7	<25	0.13		113	<20	14	58		42	
HP38	5025	0.19	<5	123	4		24	<5		11	<20	60	24	<25	0.15		267	<20	40	456		53	
HP38	5026	0.09	<5	126	58		23	<5		9	<20	58	<5	<25	0.11		310	<20	49	350		54	
HP38	5027	0.05	<5	298	90		40	<5		19	<20	73	<5	<25	0.13		388	<20	61	930		83	
HP38	5028	<0.01	<5	32	19		4	<5		<5	<20	5	86	<25	<0.01		33	<20	<5	10		<5	
HP38	5029	<0.01	<5	15	25		3	<5		<5	<20	4	<5	<25	<0.01		14	<20	<5	<2		<5	
HP38	5030	0.35	11	52	95		7	<5		<5	<20	57	13	<25	0.30		153	<20	10	98		101	
HP38	5031	0.04	9	79	129		17	6		14	<20	39	<5	<25	0.20		122	<20	8	45		85	
HP38	5032	<0.01	<5	16	153		4	<5		13	<20	8	<5	<25	0.01		37	<20	<5	11		6	
HP38	5033	<0.01	10	42	1001		15	6		47	<20	37	13	<25	0.18		189	<20	7	32		78	
HP38	5034	<0.01	<5	12	197		4	9		<5	<20	11	22	<25	0.03		45	<20	<5	20		13	
HP38	5035	0.12	9	40	157		11	<5		10	<20	53	12	<25	0.13		320	<20	25	75		86	
HP38	5036	<0.01	<5	14	639		3	<5		19	<20	17	<5	<25	0.03		30	<20	<5	303		13	
HP38	5037	0.04	6	36	632		9	<5		18	<20	41	<5	<25	0.10		100	<20	13	30		65	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
HP38	5038	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5039	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5040	1991	Drenchwater Creek	Drenchwater Creek	Colville	Quartzite/chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5041	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5042	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5043	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5044	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff/chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5045	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5046	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5047	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5048	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5049	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5050	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5051	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5052	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5053	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5054	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5055	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5056	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5057	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5058	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5059	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5060	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5061	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5062	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5063	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5064	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5065	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5066	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5067	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5068	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5069	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff/chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5070	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5071	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5072	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5073	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5074	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5075	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5076	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5077	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5078	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5079	1991	Drenchwater Creek	Drenchwater Creek	Colville	Dacite	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5080	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5081	1991	Drenchwater Creek	Drenchwater Creek	Colville	Dacite	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5082	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5083	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5084	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5085	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5086	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5087	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5088	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5089	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone/chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5090	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5091	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5092	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5093	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5094	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff/chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5095	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
HP38	5038	2.3	1.36	<5	5	662			<5	<0.01	<2.0	3	229		6		0.35	<10	0.52	11	39	0.10	26		1
HP38	5039	7.6	1.57	54	4	316			5	0.02	<2.0	<1	81		24		2.67	<10	0.68	29	44	0.11	62		19
HP38	5040	<0.5	0.06	<5	3	1842			<5	<0.01	<2.0	3	228		5		0.4	<10	<0.01	<5	15	0.02	26		1
HP38	5041	0.7	1.13	8	7	>2000			<5	<0.01	<2.0	<1	50		27		3.45	18	1.00	9	93	0.14	219		14
HP38	5042	<0.5	2.60	<5	3	1788			9	2.49	<2.0	18	229		65		3.73	<10	0.19	5	61	1.13	543		<1
HP38	5043	<0.5	1.03	20	5	998			<5	0.03	<2.0	56	29		206		3.36	23	0.91	<5	76	0.07	3202		5
HP38	5044	<0.5	3.38	<5	3	802			15	5.14	<2.0	29	170		131		6.82	<10	0.17	<5	12	2.06	1015		2
HP38	5045	<0.5	1.89	17	5	996			8	0.07	<2.0	<1	15		8		2.89	28	0.82	36	60	0.14	2268		2
HP38	5046	0.5	3.14	<5	2	888			6	0.03	<2.0	<1	44		30		2.4	19	1.22	50	94	0.15	91		9
HP38	5047	1.5	2.09	23	5	1134			6	0.02	<2.0	<1	60		42		2.42	20	1.03	58	91	0.13	97		10
HP38	5048	3.2	1.61	<5	2	791			<5	0.01	<2.0	<1	51		3		0.21	11	0.69	35	83	0.05	20		1
HP38	5049	5.0	3.12	49	3	211			<5	0.02	<2.0	<1	27		33		5.26	16	0.72	50	121	0.06	69		14
HP38	5050	<0.5	1.67	19	5	109			6	0.01	<2.0	<1	67		4		0.22	<10	0.46	27	93	0.04	11		1
HP38	5051	1.3	6.64	54	4	338			<5	0.04	<2.0	<1	47		34		4.13	24	1.29	70	90	0.16	78		16
HP38	5052	1.1	1.45	5	2	417			7	<0.01	<2.0	2	51		4		0.1	<10	0.09	27	82	0.02	5		1
HP38	5053	1.9	2.56	123	3	361			6	0.02	6.7	8	111		78		3.3	21	0.90	72	98	0.13	163		73
HP38	5054	<0.5	1.43	42	1	627			<5	0.05	<2.0	1	52		5		0.39	<10	0.39	37	118	0.03	95		2
HP38	5055	<0.5	2.93	139	3	441			<5	0.06	<2.0	7	37		37		4.56	16	0.63	44	148	0.05	484		15
HP38	5056	<0.5	1.82	<5	2	493			8	<0.01	<2.0	<1	45		5		0.17	13	0.50	16	128	0.03	6		<1
HP38	5057	1.0	2.46	49	3	427			<5	0.01	<2.0	<1	36		26		2.4	20	0.63	43	137	0.06	55		9
HP38	5058	<0.5	1.37	<5	1	488			10	0.01	<2.0	<1	57		6		0.31	<10	0.20	16	116	0.02	8		5
HP38	5059	1.9	3.19	59	10	217			<5	0.02	<2.0	<1	49		53		>10.00	<10	0.47	8	119	0.06	83		8
HP38	5060	<0.5	1.09	38	3	265			11	<0.01	2.2	1	80		9		0.14	10	0.31	25	102	0.03	12		4
HP38	5061	0.9	3.33	215	5	176			<5	0.02	<2.0	<1	92		37		4.75	25	0.98	68	151	0.06	88		14
HP38	5062	0.8	3.70	<5	<1	1177			<5	0.02	<2.0	<1	51		5		0.17	<10	0.22	17	92	0.03	10		9
HP38	5063	4.2	3.00	28	7	183			6	0.02	<2.0	<1	38		65		>10.00	<10	0.42	11	149	0.04	44		7
HP38	5064	<0.5	3.29	<5	1	437			<5	0.16	<2.0	2	41		39		4.23	18	0.90	45	107	0.10	498		4
HP38	5065	1.8	2.64	46	3	1067			12	0.12	<2.0	13	51		51		4.63	26	0.97	49	79	0.14	523		8
HP38	5066	<0.5	3.17	<5	3	771			<5	0.22	<2.0	2	45		34		3.07	16	0.84	42	86	0.12	569		4
HP38	5067	0.7	1.53	<5	2	1320			7	<0.01	<2.0	<1	42		4		0.32	<10	0.68	27	65	0.05	6		2
HP38	5068	1.4	3.69	46	<1	235			8	0.02	<2.0	<1	26		35		4.06	26	0.77	46	76	0.08	29		7
HP38	5069	1.1	0.72	<5	3	131			<5	<0.01	3	2	365		7		0.59	<10	0.09	13	52	0.03	38		4
HP38	5070	24.9	2.05	202	9	178			<5	0.02	<2.0	<1	103		76		>10.00	<10	0.75	11	74	0.09	120		37
HP38	5071	15.8	2.50	97	6	320			<5	0.04	<2.0	<1	136		54		4.85	17	0.87	70	71	0.12	30		30
HP38	5072	4.2	1.95	50	12	196			<5	0.02	<2.0	<1	284		62		2.89	10	0.67	34	29	0.18	29		18
HP38	5073	13.9	1.82	10	27	127			<5	0.10	<2.0	1	97		290		3.28	<10	0.38	32	10	0.10	51		50
HP38	5074	6.0	1.27	10	13	93			<5	0.10	<2.0	<1	53		111		0.43	<10	0.40	17	10	0.11	55		18
HP38	5075	3.1	1.85	15	7	323			6	0.04	<2.0	<1	66		43		2.03	<10	0.45	23	23	0.13	26		11
HP38	5076	<0.5	2.36	21	2	88			8	0.01	<2.0	<1	42		4		0.9	13	0.40	42	151	0.03	157		5
HP38	5077	5.3	3.45	125	23	339			<5	0.03	<2.0	8	53		101		6.3	19	0.62	57	154	0.13	595		17
HP38	5078	<0.5	2.95	6	4	866			<5	0.16	<2.0	4	29		54		2.69	19	1.20	57	50	0.22	948		7
HP38	5079	<0.5	1.53	<5	2	944			12	0.06	<2.0	5	49		4		2	<10	1.52	25	12	0.09	336		4
HP38	5080	0.6	2.62	<5	2	770			<5	0.06	<2.0	7	44		42		2.76	15	1.11	40	48	0.26	1109		5
HP38	5081	<0.5	1.98	<5	3	>2000			12	0.59	<2.0	6	38		4		2.03	<10	1.69	21	44	0.11	549		3
HP38	5082	0.6	2.28	44	22	1051			<5	0.21	<2.0	4	46		80		2.54	17	1.25	47	45	0.25	433		35
HP38	5083	2.2	1.34	<5	5	190			9	<0.01	2.4	1	104		14		0.62	10	0.62	28	75	0.05	15		5
HP38	5084	6.5	3.88	114	13	238			<5	0.03	2.3	3	39		115		>10.00	25	1.08	23	192	0.07	279		23
HP38	5085	8.4	0.91	25	19	78			12	<0.01	20.4	3	154		15		1.36	<10	0.14	31	150	0.02	12		8
HP38	5086	20.4	2.58	403	54	156			<5	0.01	<2.0	<1	32		56		>10.00	24	0.62	28	696	0.05	249		30
HP38	5087	21.7	2.17	39	22	300			<5	0.05	<2.0	2	98		121		3.83	11	0.71	29	53	0.24	234		20
HP38	5088	7.0	1.08	<5	10	851			5	<0.01	8.3	3	105		11		0.5	10	0.36	30	95	0.04	15		5
HP38	5089	6.2	0.35	<5	10	493			7	<0.01	<2.0	3	507		11		0.66	<10	0.09	<5	65	0.04	44		1
HP38	5090	2.7	1.23	<5	4	510			<5	<0.01	<2.0	2	478		9		0.52	<10	0.21	32	33	0.04	48		4
HP38	5091	6.5	2.44	34	9	477			<5	0.03	<2.0	<1	71		33		1.8	<10	0.38	81	55	0.06	53		19
HP38	5092	4.9	0.43	<5	6	530			<5	0.07	<2.0	2	552		15		0.73	<10	0.03	7	38	0.07	62		5
HP38	5093	12.1	2.31	25	14	194			<5	0.04	<2.0	1	85		54		2.31	11	0.58	55	59	0.11	92		32
HP38	5094	2.4	1.05	<5	4	946			<5	<0.01	<2.0	<1	395		9		0.75	<10	0.23	27	71	0.04	57		3
HP38	5095	6.5	2.72	66	9	774			<5	0.05	<2.0	<1	71		60		3.04	14	0.81	53	78	0.12	94		16

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
HP38	5038	0.03	<5	6	286		3	<5		8	<20	27	46	<25	0 11		51	<20	6	4		39	
HP38	5039	0.04	<5	30	3495		7	<5		43	<20	100	65	<25	0.15		99	<20	10	43		65	
HP38	5040	<0.01	<5	6	16		2	8		<5	<20	26	<5	<25	<0 01		12	<20	<5	<2		<5	
HP38	5041	0.19	79	9	107		9	<5		6	<20	70	20	<25	0 32		113	<20	<5	57		206	
HP38	5042	0.87	11	28	137		6	10		<5	<20	75	19	<25	0.40		151	<20	10	45		41	
HP38	5043	0.19	168	97	126		8	31		18	<20	19	<5	<25	0.17		45	<20	<5	483		337	
HP38	5044	1.59	13	46	10		10	11		<5	<20	133	<5	<25	0.65		273	<20	11	88		38	
HP38	5045	0.14	136	50	6		3	<5		15	<20	63	14	<25	0.17		22	<20	7	73		447	
HP38	5046	0.28	140	26	52		4	6		7	<20	64	7	<25	0.27		78	<20	10	89		401	
HP38	5047	0.20	131	31	105		5	<5		15	<20	59	<5	<25	0.27		77	<20	12	207		392	
HP38	5048	0.06	42	<1	160		2	10		5	<20	38	<5	<25	0.15		18	<20	9	11		271	
HP38	5049	0.20	168	7	276		<1	<5		64	<20	91	<5	<25	0.29		49	<20	12	47		607	
HP38	5050	0.05	45	1	77		3	<5		21	<20	22	<5	<25	0.17		18	<20	10	<2		189	
HP38	5051	0.48	167	10	89		<1	<5		17	<20	83	<5	<25	0.34		62	<20	20	87		683	
HP38	5052	0.03	38	1	32		3	7		9	<20	28	<5	<25	0.31		24	<20	26	<2		477	
HP38	5053	0.29	140	51	142		2	<5		34	<20	95	38	<25	0.41		115	<20	18	155		451	
HP38	5054	0.05	49	6	24		2	<5		7	<20	28	<5	<25	0.36		38	<20	10	137		228	
HP38	5055	0.21	100	57	70		<1	7		30	<20	48	11	<25	0.53		70	<20	15	599		381	
HP38	5056	0.07	68	1	15		2	<5		<5	<20	12	<5	<25	0.40		44	<20	11	2		254	
HP38	5057	0.15	59	9	101		<1	<5		14	<20	36	27	<25	0.40		76	<20	11	66		275	
HP38	5058	0.04	48	2	96		2	9		10	<20	14	44	<25	0.37		33	<20	8	24		206	
HP38	5059	0.27	79	11	522		2	7		39	<20	27	8	<25	0.37		79	<20	5	98		239	
HP38	5060	0.04	36	7	41		3	<5		<5	<20	18	55	<25	0.36		37	<20	9	5		167	
HP38	5061	0.20	86	6	359		1	<5		36	<20	133	32	<25	0.47		133	<20	15	130		418	
HP38	5062	0.21	72	3	209		2	<5		<5	<20	17	<5	<25	0.35		34	<20	12	<2		240	
HP38	5063	0.19	91	19	824		2	6		61	21	33	22	<25	0.48		73	<20	8	158		332	
HP38	5064	0.22	98	34	15		2	15		<5	<20	52	<5	<25	0.68		108	<20	25	463		393	
HP38	5065	0.20	85	38	76		3	36		12	<20	47	7	<25	0.57		134	<20	24	327		318	
HP38	5066	0.18	84	29	26		5	11		6	<20	51	24	<25	0.80		116	<20	18	148		306	
HP38	5067	0.04	55	<1	128		3	7		<5	<20	26	30	<25	0.15		13	<20	8	<2		258	
HP38	5068	0.19	139	4	119		1	<5		14	<20	38	<5	<25	0.30		33	<20	15	47		654	
HP38	5069	<0.01	21	9	378		3	11		<5	<20	16	<5	<25	0.03		13	<20	<5	57		47	
HP38	5070	0.30	161	24	3609		3	5		111	<20	70	63	<25	0.38		115	<20	6	239		287	
HP38	5071	0.16	149	25	1015		8	8		39	<20	112	13	<25	0.42		138	<20	13	71		305	
HP38	5072	0.06	29	35	1011		15	<5		12	<20	50	<5	<25	0.23		154	<20	9	33		109	
HP38	5073	0.08	15	22	1300		21	<5		35	<20	26	7	<25	0.09		115	<20	33	30		47	
HP38	5074	0.09	13	18	462		18	8		25	<20	23	<5	<25	0.09		75	<20	10	24		56	
HP38	5075	0.09	15	15	399		7	<5		13	<20	42	<5	<25	0.15		75	<20	8	12		75	
HP38	5076	0.09	93	6	322		2	7		6	<20	40	27	<25	0.28		15	<20	18	162		374	
HP38	5077	0.35	155	25	1439		4	16		31	25	84	34	<25	0.49		82	<20	25	559		511	
HP38	5078	1.13	85	15	49		2	10		7	<20	46	17	<25	0.52		77	<20	26	134		290	
HP38	5079	2.47	63	3	14		2	<5		<5	<20	47	<5	<25	0.38		39	<20	12	57		247	
HP38	5080	0.97	77	20	72		2	8		9	<20	47	11	<25	0.47		94	<20	17	123		237	
HP38	5081	1.57	67	3	12		2	7		<5	<20	115	<5	<25	0.35		41	<20	11	102		216	
HP38	5082	0.60	54	24	48		11	26		14	<20	72	10	<25	0.36		96	<20	17	135		203	
HP38	5083	0.05	50	3	175		3	10		14	<20	28	<5	<25	0.23		28	<20	9	1159		167	
HP38	5084	0.32	206	55	262		2	5		51	20	54	70	<25	0.40		67	<20	24	5525		903	
HP38	5085	0.02	54	4	1948	0.23	2	7		27	<20	18	<5	<25	0.16		19	<20	9	4933	0.57	205	
HP38	5086	0.17	164	13	3203		1	6		107	<20	70	31	<25	0.43		59	<20	18	1674		619	
HP38	5087	0.34	25	41	9493		6	10		151	<20	94	5	<25	0.33		117	<20	11	234		120	
HP38	5088	0.02	43	1	438		2	5		22	<20	30	<5	<25	0.15		26	<20	9	1945		151	
HP38	5089	<0.01	<5	21	366		6	12		18	<20	14	<5	<25	0.02		36	<20	<5	41		13	
HP38	5090	0.01	32	19	183		5	10		6	<20	29	8	<25	0.05		29	<20	<5	11		114	
HP38	5091	0.08	88	23	1208		4	<5		57	<20	136	<5	<25	0.22		107	<20	12	49		253	
HP38	5092	0.02	6	18	220		4	7		11	<20	14	34	<25	0.03		29	<20	<5	54		16	
HP38	5093	0.12	73	29	1719		10	<5		78	<20	80	20	<25	0.23		181	<20	10	65		192	
HP38	5094	0.02	31	16	146		4	9		22	<20	26	<5	<25	0.06		37	<20	5	74		105	
HP38	5095	0.18	129	36	1057		6	<5		57	<20	71	6	<25	0 24		100	<20	11	153		299	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
HP38	5096	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5097	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5098	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5099	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff/chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5100	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5101	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Outcrop	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5102	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5103	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/shale	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5105	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5106	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5107	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5108	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5109	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5110	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5111	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5112	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5113	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5114	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5115	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/quartz	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5116	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5117	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5118	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5119	1991	Drenchwater Creek	Drenchwater Creek	Colville	Quartzite/chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5120	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5121	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5122	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5123	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5124	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5125	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5126	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5127	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5128	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5129	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5130	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5131	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5132	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5133	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5134	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5135	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5136	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5137	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5138	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5139	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5140	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5141	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone/chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5142	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5143	1991	Drenchwater Creek	Drenchwater Creek	Colville	Dacite/chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5144	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5145	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/quartz	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5146	1991	Drenchwater Creek	Drenchwater Creek	Colville	Dacite/chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5147	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5148	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5149	1991	Drenchwater Creek	Drenchwater Creek	Colville	Dacite/shale	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5150	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5151	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5152	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5153	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5154	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
HP38	5096	2.1	0.70	<5	4	451			11	0.01	<2.0	3	436		11		0.56	<10	0.12	12	66	0.04	40		3
HP38	5097	5.0	2.92	45	8	506			<5	0.03	<2.0	<1	104		58		3.15	14	0.80	63	78	0.14	65		21
HP38	5098	<0.5	3.60	8	1	108			<5	0.05	<2.0	1	36		5		0.61	26	0.24	26	191	<0.01	<5		<1
HP38	5099	<0.5	1.05	<5	2	622			7	<0.01	<2.0	<1	105		5		0.14	<10	0.37	16	104	0.02	8		3
HP38	5100	0.8	7.71	81	4	934			6	0.04	<2.0	<1	41		33		3.43	27	0.78	53	172	0.03	14		13
HP38	5101	3.8	0.74	<5	4	322			12	<0.01	2.2	4	386		21		0.67	<10	0.18	7	86	0.05	43		3
HP38	5102	14.8	2.69	157	24	312			<5	0.04	16.5	15	65		121		>10.00	25	0.71	27	343	0.08	988		29
HP38	5103	3.6	0.73	19	15	1230			14	<0.01	<2.0	2	383		9		1.03	<10	0.22	7	48	0.05	41		4
HP38	5105	<0.5	2.53	<5	4	573			<5	0.03	<2.0	<1	54		24		3.07	17	1.25	31	104	0.20	322		10
HP38	5106	0.6	2.92	21	4	>2000			<5	0.14	<2.0	<1	17		24		1.41	18	1.23	79	94	0.14	143		6
HP38	5107	1.3	2.73	15	6	1794			<5	0.32	<2.0	22	100		47		7.09	14	0.60	47	65	0.15	6861		13
HP38	5108	3.2	3.33	33	10	508			<5	0.41	<2.0	7	200		67		3.24	11	0.67	32	47	0.21	1881		11
HP38	5109	2.6	2.43	32	6	841			<5	0.28	<2.0	10	224		57		7.71	<10	0.61	34	51	0.15	581		15
HP38	5110	0.6	1.55	<5	6	1319			6	0.23	<2.0	3	166		15		0.64	<10	0.37	8	50	0.11	225		<1
HP38	5111	5.2	1.93	25	9	191			<5	0.24	<2.0	<1	379		92		2.28	<10	0.47	29	26	0.18	120		12
HP38	5112	<0.5	1.47	12	5	1228			7	0.45	<2.0	4	216		16		0.67	<10	0.32	7	43	0.12	251		2
HP38	5113	5.5	2.00	8	12	594			<5	1.26	5.5	6	212		66		1.81	12	0.47	24	22	0.20	671		11
HP38	5114	10.0	2.32	27	12	165			11	1.59	<2.0	8	305		67		2.54	<10	0.47	33	31	0.19	674		20
HP38	5115	0.9	0.58	6	4	267			7	<0.01	<2.0	5	643		20		1.3	<10	0.13	<5	85	0.04	75		4
HP38	5116	3.2	2.27	59	12	253			<5	0.12	<2.0	4	132		51		5.83	<10	0.78	32	38	0.35	258		18
HP38	5117	<0.5	2.81	<5	4	1748			9	2.55	<2.0	16	302		53		3.19	<10	0.21	<5	33	1.57	445		2
HP38	5118	0.8	2.69	<5	13	1065			<5	0.13	<2.0	23	85		99		4.13	<10	0.90	23	49	0.39	1181		7
HP38	5119	<0.5	1.31	<5	4	926			<5	0.03	<2.0	<1	262		11		0.76	<10	0.37	9	95	0.09	34		3
HP38	5120	2.1	2.75	32	17	609			<5	0.03	<2.0	<1	94		31		5.65	11	0.54	31	59	0.22	117		18
HP38	5121	1.4	0.36	<5	2	710			<5	0.01	<2.0	1	435		6		0.52	<10	0.07	<5	19	0.04	44		4
HP38	5122	<0.5	3.14	11	10	1523			<5	0.01	<2.0	<1	99		20		3.55	14	0.91	5	65	0.18	25		20
HP38	5123	3.9	2.16	16	10	343			<5	0.02	<2.0	<1	267		35		0.85	<10	0.95	38	24	0.19	15		12
HP38	5124	1.4	1.56	<5	3	482			10	0.02	<2.0	3	386		10		0.7	<10	0.39	13	50	0.08	54		7
HP38	5125	1.9	2.15	<5	4	387			<5	0.88	<2.0	2	217		12		0.97	<10	0.45	32	60	0.23	422		4
HP38	5126	0.6	6.42	52	9	1268			5	0.07	<2.0	13	63		47		3.64	19	1.97	65	91	0.20	669		14
HP38	5127	<0.5	7.05	<5	2	519			10	0.03	<2.0	<1	65		3		0.15	<10	0.35	41	124	0.04	9		3
HP38	5128	0.7	7.10	18	3	288			5	0.02	<2.0	<1	57		5		0.26	11	0.37	34	140	0.03	8		1
HP38	5129	<0.5	6.07	<5	2	520			8	0.03	<2.0	1	76		7		0.54	16	0.27	55	96	0.04	21		2
HP38	5130	<0.5	3.52	87	9	556			<5	0.03	<2.0	<1	55		58		6.29	16	1.40	35	138	0.06	138		5
HP38	5131	<0.5	7.50	<5	<1	423			<5	0.07	<2.0	<1	57		7		0.54	15	0.46	50	147	0.04	105		4
HP38	5132	1.4	3.46	67	14	658			<5	0.05	<2.0	<1	38		34		2.69	22	0.94	57	149	0.07	65		4
HP38	5133	<0.5	7.22	<5	2	475			12	0.04	<2.0	<1	63		7		0.67	13	0.54	35	146	0.04	15		1
HP38	5134	<0.5	3.88	30	13	531			<5	0.03	<2.0	<1	29		26		4.6	18	1.09	38	115	0.07	30		6
HP38	5135	<0.5	5.28	<5	2	310			<5	0.11	<2.0	2	36		6		0.65	13	0.26	49	131	0.03	98		<1
HP38	5136	<0.5	3.89	74	5	791			<5	0.07	<2.0	<1	31		25		3.99	20	1.21	61	147	0.07	60		6
HP38	5137	0.5	2.93	29	3	811			<5	0.43	<2.0	4	65		38		4.87	11	0.66	38	84	0.14	377		6
HP38	5138	3.0	1.76	<5	5	607			<5	0.04	<2.0	<1	84		36		5.32	<10	0.37	21	20	0.10	41		16
HP38	5139	3.7	0.55	<5	4	242			<5	0.02	<2.0	2	372		21		0.57	<10	0.10	8	61	0.04	32		7
HP38	5140	19.5	2.05	24	19	195			<5	0.05	<2.0	<1	305		93		1.8	<10	0.84	45	38	0.16	29		32
HP38	5141	1.5	0.87	<5	3	590			8	<0.01	<2.0	2	461		10		0.63	<10	0.21	6	71	0.06	46		2
HP38	5142	10.0	1.56	44	5	162			6	0.05	<2.0	<1	147		40		3.1	<10	0.63	30	45	0.09	77		21
HP38	5143	1.3	1.58	7	3	690			7	1.16	<2.0	11	359		31		2.05	<10	0.14	<5	74	0.68	255		4
HP38	5144	5.8	2.86	35	9	252			<5	0.22	<2.0	7	126		105		6.81	13	1.78	22	64	0.45	265		15
HP38	5145	3.9	0.47	6	5	399			10	0.02	<2.0	2	380		14		0.65	<10	0.09	<5	103	0.03	33		4
HP38	5146	<0.5	2.04	9	2	>2000			9	1.09	<2.0	10	349		48		1.86	<10	0.28	13	24	0.54	361		2
HP38	5147	1.3	3.01	22	2	>2000			<5	0.11	<2.0	9	95		84		3.23	13	1.92	46	75	0.34	406		68
HP38	5148	1.9	3.97	<5	8	736			<5	0.87	<2.0	8	91		71		3.03	10	1.67	32	52	0.30	3030		13
HP38	5149	<0.5	3.24	8	<1	625			<5	9.19	<2.0	<1	141		4		1	<10	0.05	32	51	1.11	1331		3
HP38	5150	1.3	4.85	46	2	718			<5	1.52	<2.0	3	43		19		>10.00	20	0.57	68	141	0.20	4521		21
HP38	5151	<0.5	0.31	<5	1	209			16	0.05	<2.0	3	524		6		0.67	<10	<0.01	<5	11	0.03	504		3
HP38	5152	0.9	9.22	52	7	767			<5	0.10	<2.0	3	78		23		5.23	17	0.71	95	104	0.15	242		12
HP38	5153	3.6	2.48	58	4	545			11	0.11	<2.0	<1	248		72		1.5	15	0.59	31	35	0.22	44		10
HP38	5154	3.0	0.76	<5	3	706			6	0.15	<2.0	2	539		20		0.82	<10	0.19	<5	41	0.09	304		6

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
HP38	5096	<0.01	14	17	236		5	10		12	<20	17	<5	<25	0.03		49	<20	<5	4		39	
HP38	5097	0.19	134	32	843		5	<5		64	<20	80	<5	<25	0.28		126	<20	13	66		339	
HP38	5098	0.39	155	2	32	<0.01	1	6		13	<20	22	87	<25	0.72		69	<20	12	6	<0.01	347	
HP38	5099	0.04	43	3	125		3	7		<5	<20	9	<5	<25	0.34		37	<20	8	2		198	
HP38	5100	0.43	136	21	654		1	<5		18	<20	60	<5	<25	0.64		93	<20	17	38		478	
HP38	5101	<0.01	7	13	1437		4	10		19	<20	14	26	<25	0.05		38	<20	<5	258		28	
HP38	5102	0.20	119	34	2530		2	8		90	<20	67	24	<25	0.53		107	<20	18	5434		399	
HP38	5103	<0.01	7	8	885		5	8		37	<20	26	<5	<25	0.13		35	<20	<5	102		23	
HP38	5105	0.23	88	33	63		4	<5		<5	<20	154	18	<25	0.37		105	<20	11	125		265	
HP38	5106	0.21	116	15	13		1	7		<5	<20	93	<5	<25	0.32		44	<20	14	104		398	
HP38	5107	0.21	113	102	536		6	9		14	<20	79	<5	<25	0.24		100	<20	19	694		237	
HP38	5108	0.24	82	68	558		9	15		10	<20	80	17	<25	0.30		129	<20	24	501		244	
HP38	5109	0.16	71	76	170		6	8		29	<20	80	<5	<25	0.28		130	<20	20	438		158	
HP38	5110	<0.01	<5	23	19		5	8		<5	<20	33	<5	<25	0.09		53	<20	<5	24		24	
HP38	5111	0.08	17	83	38		16	11		8	<20	56	9	<25	0.20		166	<20	24	126		69	
HP38	5112	0.01	<5	21	21		5	8		9	<20	35	<5	<25	0.08		51	<20	<5	18		20	
HP38	5113	0.13	5	109	3		11	8		<5	<20	60	<5	<25	0.14		210	37	35	288		50	
HP38	5114	0.11	<5	137	119		17	12		14	<20	98	<5	<25	0.16		185	<20	37	357		68	
HP38	5115	<0.01	<5	36	43		4	8		<5	<20	12	<5	<25	0.04		27	<20	<5	<2		13	
HP38	5116	0.44	9	58	211		10	8		17	<20	89	<5	<25	0.33		141	<20	14	84		116	
HP38	5117	0.65	<5	48	18		5	11		<5	<20	95	<5	<25	0.28		120	<20	8	25		23	
HP38	5118	0.35	12	98	35		7	32		11	<20	89	34	<25	0.35		156	<20	16	171		98	
HP38	5119	<0.01	<5	7	195		5	9		18	<20	41	<5	<25	0.10		44	<20	<5	3		23	
HP38	5120	0.24	19	14	526		14	31		77	<20	117	<5	<25	0.48		145	<20	13	49		142	
HP38	5121	<0.01	<5	14	315		3	8		<5	<20	17	81	<25	0.02		20	<20	<5	15		<5	
HP38	5122	0.17	13	8	58		10	42		<5	<20	194	<5	<25	0.37		153	<20	<5	13		108	
HP38	5123	0.05	21	53	111		13	30		8	<20	51	<5	<25	0.21		134	<20	10	17		92	
HP38	5124	0.02	10	24	91		4	10		<5	<20	36	47	<25	0.09		53	<20	<5	24		54	
HP38	5125	0.07	31	18	176		5	17		9	<20	46	<5	<25	0.09		50	<20	6	110		103	
HP38	5126	0.38	100	49	84		3	40		22	<20	83	<5	<25	0.37		85	<20	22	900		409	
HP38	5127	0.22	83	2	15		<1	7		14	<20	19	<5	<25	0.39		35	<20	17	<2		311	
HP38	5128	0.21	82	2	55		<1	<5		<5	<20	18	<5	<25	0.44		36	<20	17	<2		308	
HP38	5129	0.14	73	2	41		<1	<5		9	<20	49	38	<25	0.36		39	<20	24	25		295	
HP38	5130	0.18	77	15	452		2	28		28	<20	58	37	<25	0.52		104	<20	13	409		334	
HP38	5131	0.18	80	4	44		<1	<5		14	<20	24	<5	<25	0.45		40	<20	19	69		359	
HP38	5132	0.16	55	24	297		3	48		26	<20	44	<5	<25	0.32		76	<20	14	203		315	
HP38	5133	0.16	69	2	31		<1	6		<5	<20	19	<5	<25	0.40		37	<20	19	42		334	
HP38	5134	0.25	94	12	145		5	57		19	<20	41	<5	<25	0.44		68	<20	14	95		408	
HP38	5135	0.06	54	4	18		<1	<5		<5	<20	29	<5	<25	0.44		40	<20	23	135		345	
HP38	5136	0.25	89	22	156		5	8		20	<20	55	34	<25	0.48		80	<20	17	153		391	
HP38	5137	0.14	61	42	44		3	<5		<5	<20	73	20	<25	0.58		130	<20	20	527		214	
HP38	5138	0.07	20	24	276		12	14		9	<20	30	30	<25	0.11		111	<20	8	24		63	
HP38	5139	<0.01	<5	22	336		5	5		12	<20	12	<5	<25	0.04		96	<20	<5	47		16	
HP38	5140	0.11	24	49	1907		24	5		58	<20	37	7	<25	0.16		270	<20	15	42		115	
HP38	5141	<0.01	<5	13	238		1	<5		14	<20	16	<5	<25	0.05		33	<20	<5	17		18	
HP38	5142	0.05	6	41	3288		9	<5		38	<20	57	15	<25	0.16		155	<20	9	101		33	
HP38	5143	0.39	<5	24	500		3	7		11	<20	48	<5	<25	0.21		91	<20	7	191		26	
HP38	5144	0.47	63	46	2608		13	<5		23	<20	74	5	<25	0.39		172	<20	10	286		206	
HP38	5145	<0.01	<5	7	810		3	5		11	<20	23	36	<25	0.02		30	<20	<5	742		7	
HP38	5146	0.39	<5	35	11		3	7		<5	<20	140	30	<25	0.16		77	<20	15	70		41	
HP38	5147	0.49	84	91	79		7	10		<5	<20	146	<5	<25	0.39		148	<20	20	457		279	
HP38	5148	0.33	69	80	27		12	20		<5	<20	122	8	<25	0.21		141	<20	19	191		182	
HP38	5149	0.03	54	6	39		<1	7		<5	<20	65	66	<25	0.07		19	<20	9	141		167	
HP38	5150	0.30	293	70	543		4	<5		30	21	104	6	<25	0.27		76	<20	20	3260		653	
HP38	5151	<0.01	10	16	34		2	9		13	<20	6	25	<25	<0.01		6	<20	<5	81		30	
HP38	5152	0.61	180	28	152		9	5		<5	<20	133	<5	<25	0.31		92	<20	20	139		437	
HP38	5153	0.18	20	52	17		9	<5		14	<20	66	19	<25	0.21		126	<20	23	66		73	
HP38	5154	0.02	<5	31	26		3	5		<5	<20	26	61	<25	0.04		71	<20	<5	17		16	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
HP38	5155	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5156	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5157	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5158	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5159	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5160	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5161	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5162	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5163	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5164	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5165	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5166	1991	Drenchwater Creek	Drenchwater Creek	Colville	Felsite	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5167	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5168	1991	Drenchwater Creek	Drenchwater Creek	Colville	Felsite	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5169	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5170	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5171	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5172	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5173	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5174	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5175	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5176	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5177	1991	Drenchwater Creek	Drenchwater Creek	Colville	Felsite/shale	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5178	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5179	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone/shale	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5180	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5181	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone/shale	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5182	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5183	1991	Drenchwater Creek	Drenchwater Creek	Colville	Quartzite/quartz	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5184	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/quartz	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5185	1991	Drenchwater Creek	Drenchwater Creek	Colville	Quartzite/chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5186	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5187	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5188	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5189	1991	Drenchwater Creek	Drenchwater Creek	Colville	Quartzite/chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5190	1991	Drenchwater Creek	Drenchwater Creek	Colville	Felsite/tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5191	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5192	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5193	1991	Drenchwater Creek	Drenchwater Creek	Colville	Quartzite/quartz	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5194	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C5	10S	29W	16		Umiat	
HP38	5195	1991	Drenchwater Creek	Drenchwater Creek	Colville	Felsite	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5196	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5197	1991	Drenchwater Creek	Drenchwater Creek	Colville	Felsite	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5198	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5199	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5200	1991	Drenchwater Creek	Drenchwater Creek	Colville	Dacite	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5201	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5202	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5203	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5204	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5205	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5206	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5207	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5208	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5209	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5210	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5211	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5212	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
HP38	5155	2.4	2.00	18	8	63			8	0 05	<2.0	<1	427		118		1.91	<10	0.88	43	30	0.16	34		14
HP38	5156	0.6	9.64	25	2	326			11	0.07	<2.0	2	46		8		1.82	17	1.07	100	115	0.09	198		3
HP38	5157	1.7	>10.00	60	3	1170			<5	0.05	<2.0	9	68		93		6.21	21	1.84	52	134	0.13	656		12
HP38	5158	<0.5	6.26	<5		>2000			8	1.61	5.2	2	46		10		1.13	16	1.22	108	109	0.09	762		4
HP38	5159	0.7	8.59	81	3	664			<5	0.05	5.2	44	50		112		5.73	20	1.67	80	96	0.14	2438		9
HP38	5160	<0.5	5.99	<5	<1	301			11	0.10	<2.0	6	45		21		2.01	12	0.77	50	179	0.05	280		1
HP38	5161	0.7	4.82	122	4	286			<5	0.02	<2.0	43	53		173		9.08	11	1.42	25	152	0.06	1038		5
HP38	5162	0.6	6.45	14	2	771			<5	0.07	<2.0	2	56		7		0.48	13	1.09	81	118	0.06	35		2
HP38	5163	<0.5	5.40	32	3	535			<5	0.03	<2.0	<1	23		27		2.92	21	1.95	58	63	0.10	56		3
HP38	5164	<0.5	7.06	<5	2	708			<5	0.04	<2.0	<1	73		5		0.38	16	0.64	43	144	0.05	14		2
HP38	5165	0.8	4.45	45	8	628			<5	0.02	<2.0	<1	31		28		3.98	20	1.75	38	95	0.08	48		3
HP38	5166	0.7	9.19	<5	3	231			16	0.35	<2.0	<1	46		6		1.19	19	0.46	51	181	0.03	176		5
HP38	5167	<0.5	8.63	49	5	525			<5	0.05	<2.0	<1	27		26		5.81	22	1.28	47	155	0.07	49		9
HP38	5168	<0.5	8.69	<5	3	563			<5	0.04	<2.0	<1	44		4		0.47	15	0.54	44	136	0.03	11		4
HP38	5169	<0.5	3.30	17	3	517			<5	0.02	<2.0	<1	24		24		6.25	18	0.76	30	169	0.03	19		8
HP38	5170	0.7	3.42	15	49	457			8	0.13	<2.0	2	168		5		0.51	<10	0.36	28	65	0.03	103		<1
HP38	5171	<0.5	3.67	44	2	475			7	0.21	2.5	4	33		29		2.03	22	0.66	68	136	0.06	547		7
HP38	5172	<0.5	3.44	8	<1	833			<5	0.26	<2.0	9	52		25		6.41	20	1.00	37	88	0.14	1033		3
HP38	5173	1.5	1.38	9	47	459			8	0.04	<2.0	2	371		17		0.49	<10	0.25	16	49	0.06	42		2
HP38	5174	<0.5	3.13	29	5	977			<5	0.33	<2.0	5	71		28		4.62	15	1.49	41	79	0.18	391		6
HP38	5175	2.5	6.10	9	3	416			7	0.02	<2.0	<1	56		4		0.41	13	0.64	91	90	0.07	17		10
HP38	5176	10.7	4.80	47	6	1199			<5	0.03	<2.0	<1	62		37		>10.00	19	1.21	31	106	0.12	117		11
HP38	5177	1.3	4.03	19	12	1340			14	0.01	<2.0	1	139		5		0.56	<10	0.32	59	93	0.05	20		2
HP38	5178	3.5	5.49	37	5	594			<5	0.04	<2.0	<1	76		29		6.02	17	1.10	53	96	0.16	48		17
HP38	5179	4.8	1.11	15	11	296			14	0.02	<2.0	3	393		26		0.47	<10	0.37	9	60	0.08	31		5
HP38	5180	8.3	1.37	20	5	185			<5	0.03	<2.0	<1	244		66		1.01	<10	0.51	20	51	0.10	12		20
HP38	5181	1.4	0.48	<5	3	294			6	<0.01	<2.0	2	505		10		0.58	<10	0.10	<5	51	0.04	45		3
HP38	5182	8.3	1.05	73	11	73			<5	0.05	<2.0	1	184		83		3.4	<10	0.44	50	31	0.07	33		67
HP38	5183	0.8	0.49	8	3	958			<5	0.03	<2.0	3	452		10		0.72	<10	0.10	<5	83	0.04	47		10
HP38	5184	<0.5	0.65	37	2	759			13	<0.01	<2.0	2	404		10		0.85	<10	0.16	<5	62	0.05	43		5
HP38	5185	0.6	1.51	<5	2	1605			8	<0.01	<2.0	3	261		11		0.64	<10	0.35	10	51	0.10	29		1
HP38	5186	4.6	2.96	33	12	76			<5	0.02	<2.0	<1	115		43		6.92	<10	1.23	25	54	0.27	79		30
HP38	5187	1.1	1.86	8	2	1668			11	<0.01	<2.0	2	183		9		0.7	<10	0.40	10	59	0.12	22		3
HP38	5188	3.8	3.40	28	12	1084			5	0.02	<2.0	<1	98		42		3.34	13	1.06	33	66	0.27	31		22
HP38	5189	1.0	0.41	<5	<1	1318			<5	<0.01	<2.0	1	470		12		0.68	<10	0.09	<5	32	0.04	46		1
HP38	5190	1.9	6.71	9	1	509			<5	0.03	<2.0	<1	59		6		0.44	<10	0.53	69	102	0.06	15		4
HP38	5191	<0.5	7.75	58	2	1011			9	0.16	<2.0	5	29		37		2.87	21	1.76	59	52	0.39	733		12
HP38	5192	1.1	4.48	19	3	1288			<5	0.07	<2.0	3	65		26		3.02	16	1.45	52	65	0.23	72		13
HP38	5193	2.7	0.58	10	8	475			10	0.01	<2.0	2	412		13		0.86	<10	0.14	<5	94	0.04	40		3
HP38	5194	2.1	5.94	55	5	714			<5	0.03	<2.0	<1	53		42		5.48	24	0.99	62	116	0.13	56		16
HP38	5195	0.7	5.38	9	1	479			10	0.01	<2.0	<1	60		5		0.24	10	0.28	48	136	0.04	8		2
HP38	5196	0.7	4.31	34	1	410			<5	0.02	<2.0	<1	71		34		5.17	18	0.80	39	72	0.17	78		6
HP38	5197	0.6	5.16	32	15	1401			<5	0.07	<2.0	1	110		7		0.62	11	0.94	45	85	0.08	51		2
HP38	5198	<0.5	5.38	<5	2	1056			<5	0.11	<2.0	<1	20		24		1.67	22	1.42	58	44	0.11	209		3
HP38	5199	<0.5	4.44	34	5	914			<5	0.19	<2.0	5	29		17		2.59	17	2.08	44	48	0.21	728		7
HP38	5200	<0.5	6.55	<5	<1	1412			<5	0.56	<2.0	7	34		6		2.79	12	2.32	56	21	0.21	557		3
HP38	5201	1.4	0.32	5	2	229			6	0.02	<2.0	<1	349		2		0.48	<10	0.06	13	39	<0.01	78		3
HP38	5202	2.9	2.77	56	3	993			<5	0.01	<2.0	<1	109		1		0.29	14	0.21	71	97	0.01	77		2
HP38	5203	6.2	4.90	121	6	272			6	0.02	<2.0	<1	34		14		5.54	25	0.44	115	152	0.06	86		43
HP38	5204	1.6	1.29	<5	4	428			<5	0.88	<2.0	8	347		20		1.58	<10	0.11	13	54	0.38	250		3
HP38	5205	3.8	1.25	116	4	462			14	0.02	<2.0	<1	59		26		5.64	21	0.43	30	75	<0.01	44		29
HP38	5206	1.8	0.81	17	2	1227			11	0.02	<2.0	1	420		13		0.73	<10	0.11	20	39	<0.01	40		6
HP38	5207	3.2	1.99	58	4	843			16	0.01	<2.0	<1	129		36		3.74	17	0.96	47	57	0.05	35		17
HP38	5208	3.7	0.33	<5	7	210			<5	<0.01	7.1	3	469		8		0.79	<10	0.05	8	29	<0.01	188		<1
HP38	5209	2.9	1.73	69	19	1044			21	0.01	<2.0	<1	62		24		3.31	22	0.99	54	73	0.04	24		13
HP38	5210	0.6	3.18	25	4	1249			16	3.75	<2.0	20	301		63		5.32	<10	0.14	11	29	2.14	596		6
HP38	5211	6.3	1.93	48	42	1590			12	0.01	<2.0	<1	90		40		3.01	25	1.18	59	78	0.07	27		29
HP38	5212	1.9	2.35	29	3	794			9	0.02	<2.0	1	204		8		0.37	10	0.12	61	55	<0.01	43		5

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
HP38	5155	0.05	6	77	2		18	5		6	<20	63	<5	<25	0.16		160	<20	21	95		67	
HP38	5156	0.40	170	6	128		1	8		12	<20	64	<5	<25	0.16		20	<20	19	180		431	
HP38	5157	0.59	202	46	476		3	<5		42	<20	84	36	<25	0.29		68	<20	16	669		651	
HP38	5158	0.30	168	18	33		1	8		7	<20	41	<5	<25	0.17		11	<20	20	1571		445	
HP38	5159	0.53	182	65	197		5	<5		32	<20	66	24	<25	0.28		55	<20	19	1840		530	
HP38	5160	0.26	100	9	14		<1	10		11	<20	32	21	<25	0.42		38	<20	35	233		384	
HP38	5161	0.24	93	56	254		2	<5		21	<20	52	30	<25	0.41		75	<20	14	879		331	
HP38	5162	0.25	81	6	27		<1	9		<5	<20	78	<5	<25	0.38		31	<20	17	83		296	
HP38	5163	0.30	90	17	37		7	<5		16	<20	47	<5	<25	0.40		67	<20	15	108		403	
HP38	5164	0.27	93	3	67		<1	9		13	<20	33	<5	<25	0.41		39	<20	16	8		350	
HP38	5165	0.23	78	20	254		8	<5		20	<20	42	19	<25	0.36		67	<20	13	84		396	
HP38	5166	0.36	109	8	23		1	11		<5	<20	26	21	<25	0.55		44	<20	24	124		425	
HP38	5167	0.48	109	15	96		2	<5		11	<20	50	<5	<25	0.50		75	<20	16	100		463	
HP38	5168	0.32	102	3	60		1	9		<5	<20	24	<5	<25	0.46		36	<20	20	3		373	
HP38	5169	0.16	88	12	83		2	<5		19	<20	26	22	<25	0.52		73	<20	11	50		376	
HP38	5170	<0.01	26	5	24		<1	<5		6	<20	19	<5	<25	0.22		42	<20	16	30		202	
HP38	5171	0.21	103	50	33		2	5		6	<20	67	25	<25	0.72		82	<20	28	698		443	
HP38	5172	0.24	100	41	<2		<5	2		8	<20	66	28	<25	0.81		137	<20	23	748		413	
HP38	5173	<0.01	9	47	130		3	<5		<5	<20	34	<5	<25	0.09		71	<20	6	19		49	
HP38	5174	0.20	82	29	108		8	<5		25	<20	96	12	<25	0.83		146	<20	17	398		291	
HP38	5175	0.14	109	<1	150		<1	<5		12	<20	86	27	<25	0.23		23	<20	18	78		340	
HP38	5176	0.29	208	12	1154		3	<5		79	<20	91	36	<25	0.33		82	<20	12	92		651	
HP38	5177	0.01	66	4	341		<1	8		11	<20	60	<5	<25	0.20		29	<20	14	13		254	
HP38	5178	0.31	152	16	704		4	5		16	<20	127	<5	<25	0.53		131	<20	14	133		398	
HP38	5179	<0.01	5	31	338		6	16		16	<20	16	<5	<25	0.06		91	<20	<5	12		25	
HP38	5180	<0.01	7	42	859		11	7		43	<20	47	<5	<25	0.15		156	<20	<5	26		56	
HP38	5181	<0.01	<5	20	154		3	10		<5	<20	10	<5	<25	0.03		31	<20	<5	3		15	
HP38	5182	<0.01	<5	86	2108		14	<5		21	<20	98	<5	<25	0.13		132	<20	12	59		<5	
HP38	5183	<0.01	<5	13	148		<1	<5		<5	<20	13	<5	<25	0.03		25	<20	<5	6		11	
HP38	5184	<0.01	<5	11	102		<1	<5		5	<20	12	91	<25	0.04		30	<20	<5	<2		14	
HP38	5185	<0.01	<5	10	196		1	<5		<5	<20	45	<5	<25	0.09		48	<20	<5	18		24	
HP38	5186	0.18	21	19	1758		13	7		31	<20	176	<5	<25	0.42		190	<20	13	39		137	
HP38	5187	<0.01	<5	6	139		2	<5		11	<20	49	<5	<25	0.11		50	<20	5	6		30	
HP38	5188	0.18	26	13	884		14	<5		34	<20	166	<5	<25	0.36		154	<20	15	36		159	
HP38	5189	<0.01	<5	8	54		<1	<5		<5	<20	25	24	<25	0.02		25	<20	<5	18		10	
HP38	5190	0.16	126	2	195		<1	<5		6	<20	75	<5	<25	0.21		25	<20	21	9		368	
HP38	5191	0.39	128	30	73		3	<5		20	<20	94	25	<25	0.37		65	<20	21	384		467	
HP38	5192	0.26	97	20	72		7	5		7	<20	71	<5	<25	0.25		88	<20	14	55		347	
HP38	5193	<0.01	<5	8	373		<1	<5		7	<20	11	<5	<25	0.04		22	<20	<5	281		15	
HP38	5194	0.31	183	11	329		5	6		37	<20	112	<5	<25	0.42		68	<20	21	44		721	
HP38	5195	0.10	63	2	42		11	<5		8	<20	61	<5	<25	0.32		33	<20	21	3		271	
HP38	5196	0.19	80	7	106		3	6		23	<20	112	48	<25	0.62		125	<20	17	269		325	
HP38	5197	0.35	66	3	41		<1	5		14	<20	59	<5	<25	0.31		34	<20	16	24		248	
HP38	5198	0.20	81	19	18		2	<5		9	<20	65	<5	<25	0.44		62	<20	23	216		442	
HP38	5199	0.76	77	30	50		9	23		<5	<20	70	<5	<25	0.38		65	<20	19	155		295	
HP38	5200	3.10	96	6	20		<1	7		<5	<20	181	14	<25	0.46		45	<20	26	159		374	
HP38	5201	0.05	8	12	<2		<1	<5		6	<20	18	<5	<25	0.03		13	<20	<5	<2		15	
HP38	5202	0.08	180	12	131		<1	<5		28	<20	51	<5	<25	0.14		27	<20	14	<2		333	
HP38	5203	0.21	256	16	274		3	6		86	<20	187	<5	<25	0.29		63	<20	21	<2		566	
HP38	5204	0.27	16	15	20		4	10		11	<20	37	<5	<25	0.15		59	<20	7	18		46	
HP38	5205	0.10	166	16	975		3	15		55	<20	56	16	<25	0.25		86	<20	9	27		275	
HP38	5206	0.02	11	14	215		3	14		17	<20	32	<5	<25	0.03		33	<20	<5	23		43	
HP38	5207	0.10	182	31	269		3	14		35	<20	67	<5	<25	0.24		78	<20	10	55		358	
HP38	5208	0.07	6	6	81	0.01	2	6		12	<20	13	<5	<25	0.01		6	<20	<5	1701	0.16	26	
HP38	5209	0.08	123	14	313		6	19		35	<20	59	<5	<25	0.23		59	<20	12	41		404	
HP38	5210	1.05	24	36	37		7	18		14	<20	137	22	<25	0.42		162	<20	11	251		51	
HP38	5211	0.15	162	16	1160		4	12		54	<20	80	23	<25	0.26		78	<20	13	74		468	
HP38	5212	<0.01	64	10	174		4	11		18	<20	77	7	<25	0.12		33	<20	12	14		235	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
HP38	5213	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5214	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5215	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5216	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5217	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5218	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5219	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5220	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5221	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5222	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5223	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5224	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5225	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5226	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5227	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5228	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5229	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5230	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5231	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5232	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5233	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5234	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5235	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5236	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5237	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5238	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5239	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5240	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5241	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone	Outcrop	Select	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5242	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5243	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone	Outcrop	Contin chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5244	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/quartz	Outcrop	Contin chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5245	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Outcrop	Random chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5247	1991	Drenchwater Creek	Drenchwater Creek	Colville	Quartzite	Rubblecrop	Random chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5248	1991	Drenchwater Creek	Drenchwater Creek	Colville	Quartzite	Outcrop	Random chip	Howard Pass	C–5	10S	29W	16		Umiat	5.29
HP38	5249	1991	Drenchwater Creek	Drenchwater Creek	Colville	Quartzite	Rubblecrop	Random chip	Howard Pass	C–5	10S	29W	16		Umiat	2.96
HP38	5250	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Outcrop	Contin chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5251	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Rubblecrop	Select	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5252	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Rubblecrop	Select	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5265	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5266	1991	Drenchwater Creek	Drenchwater Creek	Colville	Sulfides	outcrop	Select	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5267	1991	Drenchwater Creek	Drenchwater Creek	Colville	Sulfides	Outcrop	Contin chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5268	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Outcrop	Contin chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5269	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Outcrop	Contin chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5270	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone	Rubblecrop	Random chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5271	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone	Outcrop	Contin chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5272	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone/chert	Rubblecrop	Random chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5273	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Outcrop	Contin chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5274	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Outcrop	Random chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5275	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5276	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5277	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5278	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5279	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5280	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5281	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone/chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5282	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5283	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
HP38	5213	4.6	1.48	18	77	1824			14	0.02	<2.0	3	146		53		2.2	<10	0.78	21	35	0.17	55		15
HP38	5214	4.1	0.79	35	8	285			11	0.02	<2.0	1	401		13		0.62	<10	0.23	7	71	<0.01	28		8
HP38	5215	8.9	0.95	62	17	488			16	<0.01	<2.0	<1	218		39		1.08	<10	0.46	23	51	<0.01	11		30
HP38	5216	3.0	0.63	18	7	433			13	0.01	<2.0	1	325		12		0.64	<10	0.10	8	93	<0.01	29		6
HP38	5217	8.6	1.21	27	27	816			15	0.07	<2.0	2	246		54		2.64	<10	0.41	24	82	0.04	48		12
HP38	5218																								
HP38	5219	4.2	0.35	18	5	357			9	<0.01	<2.0	1	382		10		0.57	<10	<0.01	<5	80	<0.01	32		6
HP38	5220	45.9	1.81	115	20	676			13	0.06	<2.0	6	149		61		6.22	17	0.78	37	98	0.21	282		50
HP38	5221	1.1	3.35	46	5	871			7	0.04	<2.0	<1	92		6		0.64	17	0.42	28	124	<0.01	12		2
HP38	5222	0.9	2.05	31	4	838			<5	0.06	<2.0	2	47		29		3.94	15	1.65	37	118	<0.01	97		6
HP38	5223	2.1	3.48	53	4	439			21	0.08	<2.0	2	61		8		0.31	22	0.42	45	149	<0.01	240		5
HP38	5224	1.1	2.09	38	5	893			8	0.04	<2.0	9	67		37		4.58	19	1.21	32	118	<0.01	229		7
HP38	5225	1.4	1.49	48	4	336			7	0.05	<2.0	10	68		32		4.83	14	0.91	21	74	<0.01	374		28
HP38	5226	0.9	2.86	9	3	177			<5	0.19	<2.0	<1	46		5		0.26	14	0.22	27	106	<0.01	63		5
HP38	5227	2.3	2.11	56	4	979			14	0.07	<2.0	12	48		40		3.78	22	1.60	33	107	<0.01	291		11
HP38	5228	1.6	2.04	6	13	826			24	0.17	<2.0	5	47		22		3.24	19	1.00	36	80	0.03	322		8
HP38	5229	1.2	1.68	59	7	540			16	0.01	<2.0	<1	31		23		4.19	17	1.56	23	72	<0.01	44		6
HP38	5230	1.4	0.52	<5	5	1387			<5	<0.01	<2.0	<1	319		9		0.56	<10	<0.01	10	24	<0.01	29		5
HP38	5231	1.8	2.14	25	133	423			<5	0.01	<2.0	3	98		38		6.58	12	1.09	28	79	0.02	249		14
HP38	5232	1.8	1.45	31	8	1104			9	0.01	<2.0	3	217		15		0.7	<10	0.36	11	73	<0.01	28		3
HP38	5233	1.0	0.69	<5	6	973			<5	<0.01	<2.0	2	294		4		0.43	<10	0.12	<5	28	<0.01	26		4
HP38	5234	1.7	0.48	14	6	379			<5	<0.01	<2.0	2	356		11		0.62	<10	0.04	<5	29	<0.01	34		4
HP38	5235	2.0	1.81	40	9	764			15	0.02	<2.0	5	101		36		2.91	15	0.86	22	53	0.14	249		14
HP38	5236	2.2	0.45	31	6	499			10	<0.01	<2.0	2	278		15		0.48	<10	0.06	8	45	<0.01	29		19
HP38	5237	4.0	2.04	37	65	754			9	0.03	<2.0	6	122		43		3.92	10	0.85	26	52	0.20	358		18
HP38	5238	6.0	1.34	32	17	499			17	0.02	<2.0	<1	116		38		2.94	13	0.54	32	31	0.04	66		23
HP38	5239	1.6	0.43	18	5	145			10	<0.01	<2.0	1	296		16		0.64	<10	0.04	<5	37	<0.01	31		10
HP38	5240	9.7	0.43	21	10	244			7	0.04	<2.0	<1	197		62		3.11	<10	0.19	20	19	<0.01	11		20
HP38	5241	26.5	0.41	61	11	61			<5	0.01	179.5	13	386		122		0.92	<10	0.11	<5	137	<0.01	103		73
HP38	5242	3.0	0.21	13	9	136			<5	0.01	<2.0	<1	417		8		0.79	<10	0.06	<5	54	<0.01	208		<1
HP38	5243	3.2	0.27	5	8	182			<5	0.03	<2.0	2	379		6		1.07	<10	0.07	<5	91	<0.01	<5		1
HP38	5244	6.5	0.90	<5	9	217			<5	<0.01	7.1	10	354		50		0.98	<10	0.30	8	129	0.04	221		9
HP38	5245	1.1	0.88	38	2	56			<5	0.24	<2.0	3	446		5		1.48	<10	0.05	24	38	<0.01	285		4
HP38	5247	26.4	0.09	136	13	234			<5	0.09	130.7	17	380		12		1.82	<10	0.03	<5	21	<0.01	16		132
HP38	5248	>50.0	0.15	256	17	130			<5	<0.01	679.4	90	285		162		3.25	<10	0.03	<5	32	<0.01	120		185
HP38	5249	>50.0	0.11	234	15	432			<5	0.32	63	14	520		35		2.14	<10	0.04	<5	23	<0.01	94		67
HP38	5250	5.8	0.62	7	6	176			<5	<0.01	7.6	6	405		14		0.86	<10	0.21	7	102	0.02	40		4
HP38	5251	5.2	0.46	23	9	240			<5	<0.01	4.2	4	432		21		0.67	<10	0.16	10	115	0.01	136		53
HP38	5252	21.5	0.47	18	8	118			<5	<0.01	28	8	460		91		0.97	<10	0.12	5	141	<0.01	<5		15
HP38	5265	0.9	1.16	8	5	474			6	0.01	<2.0	<1	344		5		0.45	<10	<0.01	27	22	<0.01	33		15
HP38	5266	22.9	0.32	156	18	96			<5	<0.01	333.8	57	180		102		>10.00	<10	0.09	<5	32	<0.01	22		138
HP38	5267	13.5	0.54	103	14	112			<5	<0.01	247.9	45	185		88		>10.00	<10	0.16	<5	29	0.02	90		93
HP38	5268	6.4	1.92	39	6	292			<5	<0.01	4.8	8	230		35		1.69	<10	0.63	23	110	0.08	49		7
HP38	5269	1.6	1.12	8	5	228			<5	<0.01	<2.0	1	207		8		0.52	<10	0.35	11	84	<0.01	22		9
HP38	5270	3.8	0.23	<5	4	45			<5	0.01	<2.0	<1	479		6		0.84	<10	0.05	<5	105	<0.01	15		2
HP38	5271	4.3	0.47	6	8	106			<5	0.01	<2.0	<1	328		5		0.48	<10	0.16	7	92	0.02	20		28
HP38	5272	4.3	0.37	15	6	55			<5	1.03	<2.0	1	515		16		0.89	<10	0.14	6	48	0.01	132		10
HP38	5273	4.1	0.28	36	3	154			<5	0.06	3	<1	494		14		1.85	<10	0.06	<5	105	<0.01	103		14
HP38	5274	4.2	0.74	48	6	180			15	0.05	<2.0	13	409		35		1.17	<10	0.17	7	74	<0.01	51		12
HP38	5275	2.3	0.43	16	6	208			10	<0.01	<2.0	<1	391		9		0.55	<10	0.03	<5	54	<0.01	28		11
HP38	5276	12.2	0.47	40	17	239			7	0.04	<2.0	<1	279		79		4.16	<10	0.21	29	17	<0.01	9		28
HP38	5277	1.6	1.25	<5	5	436			10	<0.01	<2.0	2	260		11		0.58	<10	0.28	9	23	<0.01	32		5
HP38	5278	11.4	1.73	35	21	419			8	0.10	<2.0	1	183		57		6.95	<10	0.91	37	34	0.05	53		45
HP38	5279	1.8	0.54	16	6	245			7	<0.01	<2.0	1	286		13		0.62	<10	0.07	<5	25	<0.01	29		11
HP38	5280	9.0	0.97	19	14	413			6	0.06	<2.0	<1	165		29		3.72	<10	0.19	25	19	<0.01	12		15
HP38	5281	1.6	0.23	8	6	213			12	<0.01	<2.0	<1	435		6		0.44	<10	<0.01	<5	14	<0.01	32		4
HP38	5282	11.8	1.29	34	9	369			9	0.04	<2.0	2	346		50		3.87	<10	0.46	27	20	0.02	15		31
HP38	5283	2.7	0.42	<5	5	424			7	0.01	<2.0	1	473		11		0.64	<10	0.04	<5	40	<0.01	42		14

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
HP38	5213	0.18	23	35	615		5	14		27	<20	59	9	<25	0.24		144	<20	10	48		88	
HP38	5214	<0.01	<5	24	308		7	14		36	<20	13	<5	<25	0.05		55	<20	<5	19		21	
HP38	5215	<0.01	<5	42	1706		8	15		69	<20	38	<5	<25	0.14		133	<20	6	46		39	
HP38	5216	<0.01	<5	10	663		3	12		23	<20	23	<5	<25	0.04		43	<20	<5	21		17	
HP38	5217	<0.01	9	51	3082		8	13		37	<20	46	<5	<25	0.11		163	<20	11	132		55	
HP38	5218					0.17															<0.01		
HP38	5219	<0.01	<5	8	1354		3	13		29	<20	14	<5	<25	0.02		22	<20	<5	17		<5	
HP38	5220	0.33	44	27	>10000		7	39		189	<20	178	12	<25	0.27		137	<20	12	226		149	
HP38	5221	0.05	50	3	64		1	14		9	<20	15	29	<25	0.40		37	<20	13	49		319	
HP38	5222	0.15	73	25	133		1	12		17	<20	40	<5	<25	0.44		88	<20	17	320		324	
HP38	5223	0.05	73	5	84		3	19		13	<20	23	<5	<25	0.52		52	<20	17	57		374	
HP38	5224	0.18	94	36	95		3	12		11	<20	51	29	<25	0.58		116	<20	13	468		317	
HP38	5225	0.15	79	39	114		3	18		16	<20	25	6	<25	0.52		106	<20	10	410		280	
HP38	5226	<0.01	64	6	13		3	13		<5	<20	15	10	<25	0.49		56	<20	20	115		380	
HP38	5227	0.16	89	38	220		2	13		18	<20	33	10	<25	0.53		99	<20	17	609		324	
HP38	5228	0.12	90	27	33		3	11		17	<20	37	15	<25	0.67		107	<20	18	388		324	
HP38	5229	0.18	87	8	98		2	12		19	<20	35	24	<25	0.45		69	<20	10	88		295	
HP38	5230	<0.01	7	8	73		3	19		17	<20	32	<5	<25	0.03		21	<20	<5	8		22	
HP38	5231	0.15	131	11	244		6	12		23	<20	59	16	<25	0.40		108	<20	9	93		339	
HP38	5232	<0.01	<5	12	304		5	23		16	<20	37	<5	<25	0.09		50	<20	<5	107		34	
HP38	5233	<0.01	<5	6	36		4	19		15	<20	26	26	<25	0.05		28	<20	<5	8		18	
HP38	5234	<0.01	<5	12	63		4	14		13	<20	9	<5	<25	0.03		27	<20	<5	26		11	
HP38	5235	0.19	49	18	223		24	12		11	<20	108	<5	<25	0.42		135	<20	11	56		150	
HP38	5236	<0.01	<5	15	65		4	14		14	<20	15	<5	<25	0.03		35	<20	<5	7		13	
HP38	5237	0.36	61	25	827		9	16		39	<20	90	12	<25	0.50		148	<20	12	85		196	
HP38	5238	0.04	21	46	704		10	27		17	<20	69	17	<25	0.19		118	<20	10	44		101	
HP38	5239	<0.01	<5	13	145		3	17		5	<20	9	<5	<25	0.03		33	<20	<5	20		11	
HP38	5240	<0.01	<5	62	560		19	17		29	<20	29	8	<25	0.07		144	<20	19	55		15	
HP38	5241	0.06	<5	29	1726	0.16	5	7		79	<20	6	<5	<25	0.02		39	<20	<5	>20000	5.18	8	
HP38	5242	0.06	<5	26	98	0.01	3	8		8	<20	9	<5	<25	0.01		33	<20	<5	204	0.01	10	
HP38	5243	0.06	<5	29	301	0.03	6	7		18	<20	6	<5	<25	0.01		43	<20	<5	119	0.02	7	
HP38	5244	0.08	<5	34	934	0.09	4	<5		26	<20	20	<5	<25	0.06		55	<20	7	1563	0.14	24	
HP38	5245	0.07	16	14	4	<0.01	<1	5		5	<20	27	<5	<25	0.02		9	<20	<5	68	0.04	32	
HP38	5247	0.05	<5	15	>10000	1.90	3	7		282	<20	8	<5	<25	<0.01		11	<20	<5	>20000	9.23	<5	
HP38	5248	0.06	<5	31	>10000	5.46	4	6		526	<20	9	<5	<25	<0.01		21	<20	<5	>20000	12.95	<5	
HP38	5249	0.06	<5	22	>10000	3.16	4	7		193	<20	9	<5	<25	<0.01		17	<20	5	>20000	2.97	<5	
HP38	5250	0.07	<5	18	1655	0.16	4	5		14	<20	16	<5	<25	0.04		35	<20	<5	1630	0.14	13	
HP38	5251	0.11	<5	27	1836	0.19	2	8		25	<20	19	<5	<25	0.04		33	<20	<5	395	0.04	14	
HP38	5252	0.07	<5	28	3429	0.32	3	7		31	<20	19	<5	<25	0.03		30	<20	<5	5732	0.51	8	
HP38	5265	<0.01	26	8	53		4	24		<5	<20	37	<5	<25	0.03		10	<20	<5	16		69	
HP38	5266	0.06	14	67	3026	0.33	8	16		144	<20	9	<5	<25	0.03		20	<20	<5	>20000	10.04	8	
HP38	5267	0.07	6	102	3761	0.39	6	10		80	<20	13	<5	<25	0.07		36	<20	<5	>20000	8.58	12	
HP38	5268	0.13	7	43	1534	0.15	5	7		34	<20	51	<5	<25	0.15		85	<20	7	1439	0.12	36	
HP38	5269	<0.01	<5	7	196		3	19		16	<20	19	10	<25	0.07		36	<20	<5	142		24	
HP38	5270	0.06	<5	21	1099	0.11	3	10		10	<20	9	<5	<25	0.01		25	<20	<5	128	0.01	7	
HP38	5271	0.06	<5	28	254	0.03	9	16		19	<20	9	<5	<25	0.03		270	<20	<5	66	<0.01	10	
HP38	5272	0.06	<5	31	357	0.04	7	29		9	<20	14	<5	<25	0.02		207	<20	<5	211	0.03	11	
HP38	5273	0.06	<5	30	414	0.05	1	<5		9	<20	6	<5	<25	0.01		36	<20	<5	2850	0.26	6	
HP38	5274	<0.01	<5	46	271		6	17		24	<20	12	<5	<25	0.05		58	<20	8	51		19	
HP38	5275	<0.01	<5	10	65		5	13		14	<20	8	<5	<25	0.03		28	<20	<5	17		13	
HP38	5276	<0.01	6	112	502		28	18		33	<20	37	<5	<25	0.15		204	<20	16	44		42	
HP38	5277	<0.01	<5	14	37		3	14		13	<20	21	<5	<25	0.08		45	<20	<5	14		31	
HP38	5278	0.06	21	44	1354		19	57		27	<20	101	9	<25	0.17		209	<20	12	46		90	
HP38	5279	<0.01	<5	13	63		4	13		16	<20	8	15	<25	0.03		35	<20	<5	6		18	
HP38	5280	<0.01	8	43	537		16	16		20	<20	37	12	<25	0.11		122	<20	9	13		44	
HP38	5281	<0.01	<5	10	54		3	12		13	<20	7	<5	<25	0.01		15	<20	<5	9		7	
HP38	5282	<0.01	<5	54	572		17	14		16	<20	47	45	<25	0.09		213	<20	12	27		34	
HP38	5283	<0.01	<5	22	70		5	12		14	<20	13	<5	<25	0.03		31	<20	<5	16		13	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
HP38	5284	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5285	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5286	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff/chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5287	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff/mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5288	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5289	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff/chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5290	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5301	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5302	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5303	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5304	1991	Drenchwater Creek	Drenchwater Creek	Colville	Dacite	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5305	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5306	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5307	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5308	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff/dacite	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5309	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5310	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5311	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5312	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5313	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5314	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5315	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5316	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5317	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5318	1991	Drenchwater Creek	Drenchwater Creek	Colville	Felsite	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5319	1991	Drenchwater Creek	Drenchwater Creek	Colville	Felsite	Float	Select	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5320	1991	Drenchwater Creek	Drenchwater Creek	Colville	Felsite	Float	Select	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5321	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5322	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5323	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5324	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/quartz	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5325	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5326	1991	Drenchwater Creek	Drenchwater Creek	Colville	Quartzite	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5327	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5328	1991	Drenchwater Creek	Drenchwater Creek	Colville	Quartzite	Rubblecrop	Select	Howard Pass	C–5	10S	29W	16		Umiat	3.93
HP38	5329	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5330	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5331	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5332	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/felsite	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5333	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5334	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/quartz	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5335	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5336	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/quartz	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5337	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5338	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/quartz	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5339	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5340	1991	Drenchwater Creek	Drenchwater Creek	Colville	Felsite	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5341	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5342	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5343	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Rubblecrop	Select	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5344	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5345	1991	Drenchwater Creek	Drenchwater Creek	Colville	Quartzite	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5346	1991	Drenchwater Creek	Drenchwater Creek	Colville	Dacite	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5347	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/quartz	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5348	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5349	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone/chert	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5350	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5351	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone/chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
HP38	5284	1.4	2.62	44	5	790			<5	0.03	<2.0	3	80		35		5.56	19	1.05	30	77	0.02	219		16
HP38	5285	0.7	0.53	19	4	1706			9	<0.01	<2.0	<1	301		4		0.39	<10	<0.01	20	13	<0.01	25		2
HP38	5286	0.8	1.05	32	4	762			15	<0.01	<2.0	1	267		4		0.54	<10	<0.01	32	20	<0.01	28		9
HP38	5287	0.9	0.35	8	7	233			6	0.01	<2.0	<1	279		5		0.75	<10	<0.01	12	16	<0.01	91		8
HP38	5288	2.1	2.06	44	5	782			12	0.30	<2.0	22	328		89		9.38	14	0.42	27	53	<0.01	1336		8
HP38	5289	2.5	1.56	35	4	>2000			13	0.51	<2.0	4	317		19		1.26	<10	0.10	21	59	0.35	134		5
HP38	5290	1.2	3.14	113	3	899			14	0.02	<2.0	<1	53		27		9.09	30	1.46	16	70	<0.01	163		16
HP38	5301	0.5	4.62	9	17	910			<5	0.50	<2.0	3	28		19		2.22	16	2.00	48	47	0.18	1350		3
HP38	5302	<0.5	3.74	<5	5	689			<5	0.21	<2.0	4	40		15		2.89	20	0.91	46	63	0.13	326		5
HP38	5303	<0.5	4.29	27	5	647			<5	0.19	<2.0	4	35		19		2.4	15	0.81	53	63	0.14	223		4
HP38	5304	<0.5	8.27	<5	<1	1338			<5	0.03	<2.0	5	30		37		3.76	17	1.35	63	82	0.24	551		3
HP38	5305	0.7	4.47	32	5	1018			<5	0.06	<2.0	<1	44		42		3.99	16	1.49	41	51	0.28	59		9
HP38	5306	0.7	2.80	32	13	75			6	0.43	<2.0	2	39		31		3.34	<10	1.03	22	20	0.16	66		6
HP38	5307	2.0	2.71	47	12	121			<5	0.10	<2.0	<1	51		48		1.01	<10	1.30	32	22	0.19	58		10
HP38	5308	0.9	6.28	12	<1	561			12	0.02	<2.0	<1	57		6		0.47	<10	0.43	63	65	0.06	14		5
HP38	5309	0.7	9.44	80	4	502			<5	0.05	<2.0	<1	50		39		6.72	25	1.75	60	91	0.12	50		15
HP38	5310	1.0	7.33	<5	<1	1178			<5	0.23	<2.0	2	45		6		0.58	14	0.73	77	101	0.07	147		2
HP38	5311	0.7	>10.00	51	6	444			<5	0.05	<2.0	<1	32		21		4.46	30	1.71	76	91	0.14	103		5
HP38	5312	13.4	1.22	21	8	176			<5	0.03	<2.0	<1	123		38		1.38	<10	0.36	38	50	0.06	17		14
HP38	5313	2.6	4.20	<5	1	864			9	0.01	<2.0	2	155		9		0.77	<10	0.47	56	89	0.08	19		4
HP38	5314	10.1	2.66	53	7	96			<5	0.02	<2.0	<1	221		63		4.98	<10	1.04	58	42	0.13	29		22
HP38	5315	7.6	2.59	24	7	610			6	0.07	<2.0	2	275		71		2.74	<10	0.57	46	28	0.23	29		18
HP38	5316	3.0	2.40	6	11	497			9	0.17	<2.0	2	99		73		2.13	<10	0.60	30	21	0.24	44		12
HP38	5317	3.0	2.23	31	9	581			<5	0.15	<2.0	1	115		45		1.73	<10	0.70	32	21	0.21	48		10
HP38	5318	38.1	3.09	143	30	487			6	<0.01	6.7	1	128		35		7.66	<10	0.25	39	133	0.04	15		13
HP38	5319	16.4	2.20	77	13	256			6	0.02	6.4	<1	202		14		4.55	16	0.37	15	125	0.02	23		<1
HP38	5320	19.5	4.28	84	17	165			12	<0.01	12.2	3	132		14		2.22	<10	0.26	78	106	0.04	15		14
HP38	5321	2.6	4.26	157	8	427			<5	0.02	<2.0	3	61		46		>10.00	<10	0.88	22	104	0.08	110		33
HP38	5322	3.8	0.40	<5	4	661			11	<0.01	<2.0	4	451		9		0.49	<10	0.08	<5	82	0.03	35		5
HP38	5323	6.3	2.76	28	14	190			<5	0.04	<2.0	2	109		43		3.43	<10	1.16	23	40	0.24	249		15
HP38	5324	1.9	1.76	<5	3	>2000			<5	0.01	<2.0	3	320		16		1.08	<10	0.56	9	88	0.14	58		2
HP38	5325	8.2	2.21	73	22	46			<5	0.03	<2.0	<1	194		52		>10.00	<10	1.96	14	35	0.17	62		36
HP38	5326	41.7	0.12	78	15	180			21	0.07	29.3	<1	402		8		0.95	<10	0.03	<5	34	<0.01	50		<1
HP38	5327	27.3	3.33	220	42	145			<5	0.06	<2.0	1	88		51		5.13	15	1.78	20	64	0.24	145		48
HP38	5328	>50.0	0.08	97	12	113			37	<0.01	152.9	15	435		36		2.26	<10	0.03	<5	22	<0.01	59		18
HP38	5329	7.0	4.47	23	6	990			<5	0.07	<2.0	4	79		62		3.14	15	1.83	26	66	0.30	391		19
HP38	5330	4.9	3.45	30	9	374			8	0.49	2.7	23	197		66		3.28	<10	1.05	26	37	0.33	2777		15
HP38	5331	7.3	1.63	42	9	1646			18	0.16	<2.0	4	306		72		3.22	18	0.69	30	50	0.17	111		18
HP38	5332	2.3	1.58	30	6	1306			12	<0.01	<2.0	<1	105		3		0.59	<10	0.32	101	132	<0.01	18		7
HP38	5333	5.3	1.57	49	12	353			6	<0.01	<2.0	<1	32		20		1.86	16	0.89	45	216	<0.01	14		12
HP38	5334	5.2	0.33	14	7	524			9	0.01	2.3	2	410		16		0.58	<10	<0.01	<5	67	<0.01	38		5
HP38	5335	6.0	0.73	24	7	458			16	0.03	<2.0	<1	88		40		1.14	<10	0.23	18	60	<0.01	27		12
HP38	5336	6.3	0.50	20	6	386			8	<0.01	<2.0	<1	357		10		0.62	<10	0.07	6	92	<0.01	32		12
HP38	5337	16.9	0.47	25	11	938			14	0.01	<2.0	<1	134		52		1.27	<10	0.23	16	62	<0.01	31		15
HP38	5338	5.1	0.59	54	5	988			14	<0.01	4.1	3	461		19		0.65	<10	0.12	12	103	<0.01	44		31
HP38	5339	2.6	1.61	21	16	1023			8	0.06	<2.0	3	177		73		1.34	<10	0.76	31	70	0.07	34		9
HP38	5340	<0.5	7.17	<5	1	1117			9	0.33	<2.0	4	65		7		3.05	15	3.15	62	19	0.24	647		8
HP38	5341	2.0	0.29	7	5	671			9	<0.01	<2.0	2	386		10		0.42	<10	<0.01	<5	37	<0.01	35		15
HP38	5342	2.5	1.39	11	10	883			<5	0.05	<2.0	3	90		378		2.56	<10	0.63	23	28	0.21	101		13
HP38	5343	2.7	1.49	62	5	159			<5	<0.01	<2.0	<1	157		7		1.79	<10	0.25	73	101	<0.01	32		7
HP38	5344	12.6	2.58	35	12	253			9	0.02	<2.0	<1	34		56		3.65	22	0.60	44	485	<0.01	35		16
HP38	5345	0.7	0.90	19	5	55			<5	0.24	<2.0	2	424		5		1.45	<10	0.06	23	36	<0.01	267		5
HP38	5346	<0.5	2.02	25	5	1452			<5	0.09	<2.0	5	61		4		2.45	13	1.21	35	36	0.02	358		7
HP38	5347	1.5	0.42	8	6	1082			8	0.01	<2.0	<1	344		11		0.5	<10	0.03	<5	55	<0.01	31		11
HP38	5348	1.3	1.95	<5	11	>2000			<5	0.03	<2.0	21	104		90		4.93	<10	1.10	9	59	0.30	698		13
HP38	5349	1.5	0.51	<5	6	390			9	<0.01	<2.0	<1	384		13		0.51	<10	0.06	5	53	<0.01	38		6
HP38	5350	5.3	1.42	56	12	292			22	0.02	<2.0	10	156		82		4.19	18	0.77	28	34	0.15	703		43
HP38	5351	4.5	0.19	<5	4	277			8	0.01	<2.0	1	456		11		0.51	<10	<0.01	<5	27	<0.01	44		13

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
HP38	5284	0.18	151	12	233		3	12		11	<20	46	48	<25	0.35		84	<20	10	121		446	
HP38	5285	<0.01	10	5	51		2	17		12	<20	32	<5	<25	0.01		8	<20	<5	7		34	
HP38	5286	<0.01	25	9	55		3	12		10	<20	26	<5	<25	0.03		11	<20	<5	4		72	
HP38	5287	<0.01	7	10	5		4	16		7	<20	14	<5	<25	0.01		8	<20	<5	15		23	
HP38	5288	0.10	98	50	509		5	8		23	<20	56	25	<25	0.89		272	<20	9	139		118	
HP38	5289	0.08	20	23	101		4	16		19	<20	59	22	<25	0.11		49	<20	<5	790		46	
HP38	5290	0.19	279	10	129		2	11		19	<20	49	23	<25	0.30		63	<20	7	196		587	
HP38	5301	0.29	76	27	54		18	33		<5	<20	54	19	<25	0.47		69	<20	23	142		347	
HP38	5302	0.24	98	19	3		8	16		<5	<20	54	26	<25	0.73		104	<20	22	234		354	
HP38	5303	0.39	94	13	16		6	14		17	<20	54	15	<25	0.65		86	<20	23	103		345	
HP38	5304	0.39	104	13	32		<1	<1		<5	<20	73	30	<25	0.14		14	<20	15	340		436	
HP38	5305	0.24	86	16	180		7	6		10	<20	74	76	<25	0.27		77	<20	14	67		298	
HP38	5306	0.12	35	24	64		20	12		12	<20	39	22	<25	0.14		69	<20	9	219		107	
HP38	5307	0.13	44	15	196		21	<5		15	<20	46	<5	<25	0.19		73	<20	13	38		148	
HP38	5308	0.14	93	2	62		<1	<5		<5	<20	71	<5	<25	0.19		23	<20	16	10		302	
HP38	5309	0.44	215	5	70		4	8		32	<20	125	30	<25	0.37		54	<20	22	92		725	
HP38	5310	0.27	140	3	38		<1	<5		8	<20	61	51	<25	0.28		37	<20	19	42		375	
HP38	5311	0.50	215	6	79		5	<5		22	<20	95	44	<25	0.39		52	<20	24	110		819	
HP38	5312	<0.01	19	49	1821		9	<5		22	<20	41	16	<25	0.12		64	<20	6	31		65	
HP38	5313	0.05	67	4	331		<1	<5		<5	<20	74	90	<25	0.22		66	<20	10	200		164	
HP38	5314	0.09	61	31	2702		12	<5		35	<20	89	<5	<25	0.30		131	<20	10	65		135	
HP38	5315	0.09	53	28	755		16	15		18	<20	59	20	<25	0.24		151	<20	13	62		156	
HP38	5316	0.14	15	17	240		19	25		<5	<20	47	<5	<25	0.13		139	<20	14	73		56	
HP38	5317	0.16	31	15	245		11	<5		<5	<20	45	10	<25	0.16		105	<20	13	58		98	
HP38	5318	<0.01	28	3	9702		<1	<5		16	<20	31	<5	<25	0.12		18	<20	15	2535		175	
HP38	5319	0.25	66	8	4730	0.47	2	<5		40	<20	18	477	28	0.24		35	<20	6	1961	0.19	140	
HP38	5320	0.03	62	7	5083		<1	<5		11	<20	56	<5	<25	0.14		20	<20	23	4479		280	
HP38	5321	0.24	190	20	2067		3	<5		16	<20	70	52	<25	0.47		89	<20	16	813		609	
HP38	5322	<0.01	<5	18	349		3	6		8	<20	10	<5	<25	0.02		41	<20	<5	32		12	
HP38	5323	0.21	30	21	1180		11	6		48	<20	96	31	<25	0.27		162	<20	10	102		111	
HP38	5324	0.38	6	17	346		1	6		8	<20	44	6	<25	0.11		43	<20	<5	70		42	
HP38	5325	0.13	16	32	2944		15	7		108	<20	48	<5	<25	0.28		237	<20	11	102		97	
HP38	5326	0.03	<5	10	>10000	1.55	2	<5		77	<20	6	90	<25	<0.01		11	<20	<5	19403	1.97	5	
HP38	5327	0.21	51	12	>10000		8	6		105	<20	116	5	<25	0.31		154	<20	12	1274		188	
HP38	5328	0.03	<5	14	>10000	2.19	4	<5		96	<20	1	<5	64	<0.01		8	<20	<5	>20000	4.69	<5	
HP38	5329	0.34	56	19	2052		6	8		25	<20	141	<5	<25	0.33		132	<20	13	287		201	
HP38	5330	0.34	27	71	63		14	6		11	<20	98	<5	<25	0.23		213	<20	24	234		126	
HP38	5331	0.15	40	57	75		7	10		18	<20	62	29	<25	0.30		268	<20	20	232		123	
HP38	5332	<0.01	96	4	174		2	17		45	<20	179	<5	<25	0.13		34	<20	9	19		221	
HP38	5333	0.18	151	11	187		10	19		62	<20	109	<5	<25	0.31		62	<20	7	13		334	
HP38	5334	<0.01	<5	11	374		4	14		26	<20	15	12	<25	0.02		28	<20	<5	402		11	
HP38	5335	<0.01	9	34	1323		5	13		39	<20	37	<5	<25	0.09		94	<20	<5	26		33	
HP38	5336	<0.01	<5	13	1087		5	14		32	<20	14	<5	<25	0.03		32	<20	<5	39		18	
HP38	5337	<0.01	7	27	4851		6	16		136	<20	74	<5	<25	0.11		104	23	5	106		42	
HP38	5338	<0.01	<5	17	1278		5	18		34	<20	20	<5	<25	0.04		42	<20	<5	393		17	
HP38	5339	0.10	40	39	166		11	33		11	<20	56	<5	<25	0.28		140	<20	13	49		119	
HP38	5340	3.03	93	6	99		<1	6		<5	<20	116	<5	<25	0.47		46	<20	28	175		382	
HP38	5341	<0.01	<5	16	23		4	19		7	<20	9	<5	<25	0.02		25	<20	<5	6		7	
HP38	5342	0.15	7	24	170		9	26		<5	<20	59	<5	<25	0.18		151	<20	10	77		59	
HP38	5343	<0.01	110	8	155		4	15		45	<20	87	18	<25	0.11		27	<20	13	5		314	
HP38	5344	0.24	171	5	187		2	11		205	<20	101	<5	<25	0.29		71	<20	14	13		481	
HP38	5345	0.12	18	13	9	0.01	1	<5		11	<20	27	<5	<25	0.02		10	<20	<5	60	0.81	36	
HP38	5346	2.27	88	7	9		4	15		<5	<20	43	14	<25	0.43		44	<20	16	187		316	
HP38	5347	<0.01	<5	12	<2		5	22		<5	<20	18	<5	<25	0.02		29	<20	<5	23		13	
HP38	5348	0.23	23	40	187		9	36		8	<20	77	8	<25	0.30		172	<20	9	83		96	
HP38	5349	<0.01	<5	16	27		5	16		<5	<20	14	<5	<25	0.04		36	<20	<5	7		22	
HP38	5350	0.08	15	46	336		11	15		18	<20	124	33	<25	0.29		178	<20	13	56		104	
HP38	5351	<0.01	<5	25	<2		6	17		10	<20	6	<5	<25	0.01		39	<20	<5	69		8	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
HP38	5352	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5353	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5354	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5355	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5356	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5357	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/quartz	Float	Select	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5358	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Select	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5359	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/quartz	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5360	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5361	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5362	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5363	1991	Drenchwater Creek	Drenchwater Creek	Colville	Felsite	Rubblecrop	Select	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5364	1991	Drenchwater Creek	Drenchwater Creek	Colville	Felsite	Outcrop	Select	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5365	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/quartz	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5366	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Outcrop	Select	Howard Pass	C–5	10S	29W	16		Umiat	4.17
HP38	5367	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Outcrop	Select	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5368	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/quartzite	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5369	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5370	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff/quartzite	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5371	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5372	1991	Drenchwater Creek	Drenchwater Creek	Colville	Tuff/chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5373	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5374	1991	Drenchwater Creek	Drenchwater Creek	Colville	Quartzite	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5375	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/quartzite	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5376	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5377	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5378	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5379	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5380	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5381	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5382	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5383	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5384	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5385	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5386	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5387	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5388	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone/chert	Float	Grab	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5389	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5390	1991	Drenchwater Creek	Drenchwater Creek	Colville			Soil	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5391	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Outcrop	Select	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5392	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert/quartz	Outcrop	Select	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5393	1991	Drenchwater Creek	Drenchwater Creek	Colville	Quartzite	Outcrop	Contin chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5394	1991	Drenchwater Creek	Drenchwater Creek	Colville	Quartzite	Outcrop	Contin chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5395	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Outcrop	Random chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5396	1991	Drenchwater Creek	Drenchwater Creek	Colville	Sulfides	Outcrop	Contin chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5397	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Outcrop	Contin chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5398	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Outcrop	Contin chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5399	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Outcrop	Contin chip	Howard Pass	C–5	10S	29W	16		Umiat	9.79
HP38	5400	1991	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone	Outcrop	Contin chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP38	5525	1991	Drenchwater Creek	Drenchwater Creek	Colville	Chert	Outcrop	Random chip	Howard Pass	C–5	10S	29W	16		Umiat	
HP39	5710	1992	Drenchwater Creek	Drenchwater Creek	Colville	Stream sed		Soil	Howard Pass	C–5	10S	29W	22	NW	Umiat	
HP39	5711	1992	Drenchwater Creek	Drenchwater Creek	Colville	Chert/dacite	Float	Grab	Howard Pass	C–5	10S	29W	22	NW	Umiat	
HP39	5712	1992	Drenchwater Creek	Drenchwater Creek	Colville	Sil. volcanic (?)	Float	Select	Howard Pass	C–5	10S	29W	22	NW	Umiat	
HP39	5713	1992	Drenchwater Creek	Drenchwater Creek	Colville	Stream sed		Soil	Howard Pass	C–5	10S	29W	22	NW	Umiat	
HP39	5714	1992	Drenchwater Creek	Drenchwater Creek	Colville	Chert/dacite	Float	Grab	Howard Pass	C–5	10S	29W	22	NW	Umiat	
HP39	5715	1992	Drenchwater Creek	Drenchwater Creek	Colville	Stream sed		Soil	Howard Pass	C–5	10S	29W	22	NW	Umiat	
HP39	5716	1992	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	22	NW	Umiat	
HP39	5717	1992	Drenchwater Creek	Drenchwater Creek	Colville	Stream sed		Soil	Howard Pass	C–5	10S	29W	22	NW	Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
HP38	5352	10.9	0.82	58	13	340			14	0 03	<2.0	<1	312		58		3.1	<10	0.25	20	28	<0.01	60		31
HP38	5353	2.7	0.14	13	4	296			9	< 0 01	<2.0	1	569		10		0.86	<10	<0.01	<5	14	<0.01	52		6
HP38	5354	12.4	1.45	57	12	323			15	0 08	<2.0	<1	411		76		2.54	<10	0.29	49	26	0.03	82		27
HP38	5355	2.2	1.61	30	5	1068			13	0 48	<2.0	3	451		23		1.53	<10	0.09	20	41	0.26	124		13
HP38	5356	8.4	2.29	79	9	207			19	0 03	<2.0	1	194		74		>10.00	<10	0.40	45	32	0.04	25		25
HP38	5357	11.2	0.57	40	7	487			<5	0.01	6.2	2	365		17		1.35	<10	0.13	6	111	<0.01	47		6
HP38	5358	9.3	0.70	<5	8	319			<5	<0.01	12.5	1	337		17		0.91	<10	0.22	9	153	0.02	<5		10
HP38	5359	5.9	0.36	15	6	400			<5	0.01	<2.0	1	457		11		0.82	<10	0.02	<5	67	<0.01	47		6
HP38	5360	12.1	1.77	44	15	568			16	0.03	<2.0	1	46		41		1.35	<10	0.39	23	30	0.06	126		7
HP38	5361	2.0	4.29	29	4	1081			7	0.04	<2.0	1	27		44		3.37	23	0.97	59	99	<0.01	46		7
HP38	5362	3.2	4.39	53	7	919			15	0.27	<2.0	3	30		31		3.2	20	0.90	54	92	0.04	233		8
HP38	5363	2.4	2.15	63	5	128			15	0.38	<2.0	9	81		21		3.97	12	<0.01	15	93	<0.01	329		10
HP38	5364	3.0	>10.00	191	6	1356			<5	0.10	<2.0	2	30		45		3.96	<10	2.62	104	117	0.12	84		10
HP38	5365	8.5	0.21	9	14	135			9	0.01	<2.0	1	338		7		0.5	<10	<0.01	<5	33	<0.01	39		13
HP38	5366	>50.0	2.83	75	4	70			<5	3.07	12.4	15	152		26		2.51	<10	0.37	40	60	0.02	<5		4
HP38	5367	<0.5	1.80	25	5	60			7	0.40	<2.0	7	124		14		7.68	<10	0.40	20	58	0.08	337		6
HP38	5368	1.7	1.18	20	5	1591			6	0.04	<2.0	<1	298		6		0.43	<10	0.39	7	48	0.01	44		3
HP38	5369	1.4	2.94	45	6	784			13	0.10	<2.0	3	81		25		3.18	14	0.84	25	35	0.15	292		10
HP38	5370	2.1	1.40	30	4	312			<5	0.02	<2.0	2	394		7		0.87	<10	0.11	63	33	<0.01	50		15
HP38	5371	6.9	6.18	113	8	576			11	0.07	<2.0	2	69		30		8.93	19	0.61	93	86	<0.01	245		21
HP38	5372	2.3	1.64	16	5	668			5	0.04	<2.0	<1	146		5		0.84	15	0.05	42	52	<0.01	39		3
HP38	5373	2.6	3.21	48	12	485			22	0.63	<2.0	22	279		98		8.36	27	0.29	40	60	0.18	1607		9
HP38	5374	1.7	1.41	33	5	313			<5	<0.01	<2.0	<1	120		4		1.24	10	0.03	28	56	<0.01	29		5
HP38	5375	3.1	0.38	8	6	255			6	<0.01	<2.0	<1	370		8		0.55	<10	<0.01	<5	85	<0.01	36		4
HP38	5376	1.1	4.23	83	7	994			19	0.02	<2.0	1	82		51		6.01	23	0.89	17	40	0.27	23		15
HP38	5377	1.6	0.70	19	7	539			9	<0.01	<2.0	<1	191		9		0.57	<10	0.18	6	25	<0.01	26		8
HP38	5378	1.1	0.80	11	6	403			<5	<0.01	<2.0	1	241		6		0.53	<10	0.15	5	25	<0.01	24		3
HP38	5379	1.5	0.58	12	8	195			11	<0.01	<2.0	<1	289		11		0.67	<10	0.08	<5	28	<0.01	33		9
HP38	5380	8.5	2.40	64	39	542			29	0.02	<2.0	3	180		58		>10.00	23	0.69	26	79	0.10	182		31
HP38	5381	1.0	1.27	7	7	612			8	0.01	<2.0	1	177		9		0.57	<10	0.39	12	28	<0.01	33		2
HP38	5382	2.2	2.25	42	20	532			<5	0.05	<2.0	5	154		47		9.7	<10	0.63	27	44	0.08	260		36
HP38	5383	1.2	1.12	<5	6	676			<5	0.02	<2.0	<1	211		9		0.54	<10	0.29	10	26	<0.01	51		7
HP38	5384	2.1	2.73	44	9	828			15	0.10	<2.0	8	179		44		7.78	11	0.73	24	51	0.12	624		23
HP38	5385	8.0	1.46	42	10	376			<5	0.06	<2.0	<1	207		35		3.77	<10	0.33	27	24	<0.01	32		25
HP38	5386	3.7	0.23	6	5	164			6	0.02	<2.0	<1	370		7		0.38	<10	<0.01	<5	19	<0.01	29		5
HP38	5387	10.4	1.07	32	10	504			10	0.03	<2.0	<1	185		43		2.53	<10	0.41	22	20	<0.01	14		28
HP38	5388	2.8	1.02	12	6	923			12	0.11	<2.0	<1	289		10		0.76	<10	0.19	10	28	0.05	43		13
HP38	5389	11.1	1.34	57	12	378			16	0.05	<2.0	<1	198		51		2.38	<10	0.26	25	16	0.02	16		29
HP38	5390	10.1	1.77	45	12	810			19	0.07	<2.0	2	243		67		2.05	12	0.42	28	21	0.10	18		22
HP38	5391	2.2	1.35	34	6	482			10	<0.01	<2.0	1	263		15		0.84	<10	0.37	14	68	<0.01	42		11
HP38	5392	28.6	0.28	98	6	160			<5	<0.01	120	25	452		39		1.84	<10	0.07	8	36	<0.01	164		97
HP38	5393	43.2	0.43	189	14	180			<5	<0.01	258.2	46	458		70		3.99	<10	0.08	5	49	<0.01	258		482
HP38	5394	11.5	0.84	90	8	602			<5	0.31	73.8	23	464		38		1.64	<10	0.20	10	85	0.03	117		199
HP38	5395	8.8	1.01	43	8	78			<5	<0.01	22.7	4	432		30		0.94	<10	0.35	16	95	0.05	66		22
HP38	5396	17.2	0.65	177	15	133			<5	<0.01	131	30	246		66		>10.00	<10	0.19	18	38	0.03	304		97
HP38	5397	5.8	1.56	24	5	68			<5	<0.01	8.3	12	279		40		1.45	<10	0.61	23	95	0.08	35		4
HP38	5398	4.2	0.65	8	6	147			<5	<0.01	3.6	6	410		22		0.7	<10	0.25	6	112	0.03	82		14
HP38	5399	>50.0	1.12	<5	13	93			<5	<0.01	<2.0	<1	343		35		1.92	<10	0.49	13	99	0.05	85		1
HP38	5400	14.3	0.38	30	14	47			<5	0.03	66.7	8	325		35		0.79	<10	0.11	<5	117	0.01	58		45
HP38	5525	2.5	3.46	47	5	92			<5	0.06	<2.0	2	123		9		1.28	17	0.04	45	108	<0.01	115		11
HP39	5710	12.6	4.09	66	59	974			12	0.16	16.3	46	75		74		4.38	37	0.99	49	70	0.31	1443		9
HP39	5711	3.9	3.84	37	14	831			<5	0.11	7.4	6	50		7		0.71	16	0.92	40	76	0.08	138		<1
HP39	5712	11.7	3.34	60	38	958			<5	0.12	15.8	3	87		14		0.82	18	0.43	45	85	0.06	85		5
HP39	5713	1.3	5.93	44	9	393			<5	0.11	<2.0	5	21		13		2.86	23	1.64	75	64	0.20	650		3
HP39	5714	1.5	3.53	41	4	1239			6	0.05	<2.0	2	77		4		0.66	15	0.54	43	82	0.06	84		<1
HP39	5715	12.9	4.86	227	37	368			<5	0.04	<2.0	7	47		38		6.5	34	1.06	37	63	0.20	307		34
HP39	5716	5.5	5.15	52	9	303			<5	0.03	<2.0	<1	41		5		0.43	21	0.72	59	88	0.06	48		8
HP39	5717	1.1	6.70	52	10	973			<5	0.06	<2.0	8	49		28		3.65	25	1.55	35	53	0.31	964		5

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
HP38	5352	<0.01	<5	70	285		21	14		28	<20	81	7	<25	0.07		195	<20	10	42		34	
HP38	5353	<0.01	<5	16	35		4	17		<5	<20	11	<5	<25	<0.01		28	<20	<5	9		<5	
HP38	5354	<0.01	<5	65	323		20	16		17	<20	154	<5	<25	0.10		209	<20	31	39		48	
HP38	5355	0.11	35	27	18		6	18		13	<20	44	19	<25	0.13		67	<20	8	21		144	
HP38	5356	0.06	81	26	493		10	21		21	<20	138	11	<25	0.17		126	<20	12	10		191	
HP38	5357	<0.01	<5	12	2412		6	17		44	<20	13	17	<25	0.05		34	<20	<5	1175		18	
HP38	5358	0.08	<5	8	304	0.04	3	<5		24	<20	16	<5	<25	0.05		29	<20	<5	2005	0.19	10	
HP38	5359	<0.01	<5	22	580		4	18		29	<20	10	<5	<25	0.03		23	<20	<5	21		17	
HP38	5360	0.03	14	32	1642		11	17		42	<20	38	<5	<25	0.14		61	<20	9	44		75	
HP38	5361	0.23	73	17	318		1	13		35	<20	51	10	<25	0.38		77	<20	19	143		380	
HP38	5362	0.19	75	26	189		4	18		25	<20	44	36	<25	0.38		76	<20	20	316		328	
HP38	5363	<0.01	68	13	48		4	15		33	<20	9	<5	<25	0.39		48	<20	10	183		277	
HP38	5364	0.82	107	22	290	1.71	2	<5		40	33	82	<5	<25	0.46		83	<20	32	146	3.50	411	
HP38	5365	<0.01	<5	16	161		5	17		27	<20	5	8	<25	<0.01		16	<20	<5	62		7	
HP38	5366	0.17	59	60	>10000	9.81	2	5		179	<20	46	<5	<25	0.56		74	<20	28	5273	0.51	158	
HP38	5367	0.03	59	20	156		4	21		9	<20	30	6	<25	0.36		85	<20	14	196		189	
HP38	5368	<0.01	<5	6	588		4	21		10	<20	26	<5	<25	0.09		40	<20	<5	41		29	
HP38	5369	0.06	31	12	121		5	11		11	<20	85	14	<25	0.43		123	<20	12	37		108	
HP38	5370	<0.01	53	11	128		3	18		12	<20	80	<5	<25	0.07		17	<20	7	7		167	
HP38	5371	0.27	288	28	327		3	19		110	<20	159	21	<25	0.52		86	<20	26	30		681	
HP38	5372	<0.01	100	5	97		5	17		14	<20	47	<5	<25	0.15		24	<20	12	5		410	
HP38	5373	0.08	134	56	191		12	42		24	<20	59	23	<25	0.87		247	<20	15	160		251	
HP38	5374	<0.01	132	7	104		4	14		19	<20	32	<5	<25	0.14		17	<20	9	7		428	
HP38	5375	<0.01	<5	11	413		5	18		17	<20	10	<5	<25	0.02		23	<20	<5	15		15	
HP38	5376	0.13	27	13	18		6	14		18	20	191	15	<25	0.29		157	<20	12	19		89	
HP38	5377	<0.01	7	5	84		4	20		11	<20	13	19	<25	0.05		45	<20	<5	12		25	
HP38	5378	<0.01	<5	5	68		5	17		14	<20	13	<5	<25	0.04		43	<20	<5	12		18	
HP38	5379	<0.01	<5	12	123		6	20		5	<20	15	<5	<25	0.04		26	<20	<5	5		17	
HP38	5380	0.17	45	17	435		17	20		41	28	163	30	<25	0.74		196	<20	18	38		203	
HP38	5381	<0.01	8	8	90		7	15		17	<20	87	17	<25	0.11		54	<20	6	117		39	
HP38	5382	0.13	35	22	191		11	19		10	<20	128	16	<25	0.56		171	<20	14	51		147	
HP38	5383	<0.01	<5	10	54		3	15		13	<20	56	<5	<25	0.09		51	<20	<5	6		32	
HP38	5384	0.12	51	25	257		8	16		9	<20	150	5	<25	0.54		200	<20	11	95		142	
HP38	5385	<0.01	<5	56	925		16	17		18	<20	70	<5	<25	0.11		176	<20	11	45		34	
HP38	5386	<0.01	<5	22	18		7	17		11	<20	6	<5	<25	0.02		40	<20	<5	5		11	
HP38	5387	<0.01	<5	60	576		15	20		23	<20	43	<5	<25	0.16		150	<20	8	15		56	
HP38	5388	<0.01	6	18	52		6	19		12	<20	68	<5	<25	0.08		74	<20	<5	10		36	
HP38	5389	<0.01	<5	43	418		20	19		19	<20	44	<5	<25	0.10		174	<20	10	11		42	
HP38	5390	<0.01	<5	39	581		18	17		17	<20	59	<5	<25	0.09		201	<20	15	15		31	
HP38	5391	<0.01	<5	16	355		7	12		23	<20	46	6	<25	0.09		60	<20	<5	16		30	
HP38	5392	0.05	<5	29	>10000	2.62	3	6		103	21	29	<5	<25	0.01		69	<20	<5	>20000	5.14	<5	
HP38	5393	0.06	<5	90	>10000	2.88	6	13		269	43	27	<5	<25	0.02		90	<20	<5	>20000	10.08	10	
HP38	5394	0.07	<5	58	3045	0.29	5	8		110	31	55	<5	<25	0.04		157	<20	13	>20000	2.79	11	
HP38	5395	0.09	<5	19	1752	0.18	5	7		40	<20	20	<5	<25	0.08		64	<20	<5	6635	0.60	22	
HP38	5396	0.07	15	100	3366	0.34	8	16		104	45	41	<5	<25	0.08		51	<20	<5	>20000	4.86	18	
HP38	5397	0.11	6	47	1355	0.15	3	6		30	<20	52	<5	<25	0.12		67	<20	7	2965	0.28	33	
HP38	5398	0.08	<5	38	701	0.08	8	11		23	<20	12	<5	<25	0.05		53	<20	<5	724	0.09	24	
HP38	5399	0.10	<5	8	>10000	9.66	3	<5		480	<20	32	<5	<25	0.07		60	<20	5	770	0.08	21	
HP38	5400	0.06	<5	21	2017	0.20	8	12		58	<20	6	<5	<25	0.02		38	<20	<5	>20000	3.05	6	
HP38	5525	<0.01	201	8	315		2	14		11	<20	34	25	<25	0.17		33	<20	18	28		604	
HP39	5710	0.54	68	72	5224		2	<5		35	21	104	<100	<25	0.59		95	<20	23	8618		233	
HP39	5711	0.18	51	7	2234		<1	31		7	<20	44	<100	<25	0.36		57	<20	16	1486		202	
HP39	5712	0.13	61	3	2514		<1	24		13	<20	36	<100	<25	0.23		35	<20	15	1808		201	
HP39	5713	0.36	99	23	271		4	<5		<5	<20	96	<100	<25	0.49		53	<20	24	933		373	
HP39	5714	0.12	58	3	423		<1	19		<5	<20	40	<100	<25	0.23		26	<20	18	406		244	
HP39	5715	0.47	89	16	2305		2	9		60	<20	77	<100	<25	0.31		71	<20	11	758		308	
HP39	5716	0.25	77	2	303		2	<5		17	<20	43	<100	<25	0.16		21	<20	13	482		288	
HP39	5717	0.48	73	24	119		5	17		<5	<20	84	<100	<25	0.40		101	<20	17	446		255	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
HP39	5718	1992	Drenchwater Creek	Drenchwater Creek	Colville	Tuff	Float	Grab	Howard Pass	C–5	10S	29W	22	NW	Umiat	
HP39	5719	1992	Drenchwater Creek	Drenchwater Creek	Colville	Mudstone/chert	Outcrop	Grab	Howard Pass	C–5	10S	29W	21	NE	Umiat	
HP40	5835	1992	Drenchwater Creek	False Wager Creek	Colville	Stream sed		Stream sed	Howard Pass	C–5	10S	29W	15	SE	Umiat	
HP41	4043	1991	Wager Ck West	Wager Creek	Colville	Mafic intrusive	Outcrop	Grab	Howard Pass	C–5	10S	29W	14	SW	Umiat	
HP42	5827	1992		Wager Creek	Colville	Chert (?)	Float	Select	Howard Pass	C–5	10S	29W	14	SW	Umiat	
HP42	5828	1992		Wager Creek	Colville	Chert (?)	Float	Select	Howard Pass	C–5	10S	29W	14	SW	Umiat	
HP42	5829	1992		Wager Creek	Colville	Stream sed		Soil	Howard Pass	C–5	10S	29W	14	SW	Umiat	
HP42	5830	1992		Wager Creek	Colville	Mudstone	Float	Select	Howard Pass	C–5	10S	29W	14	SE	Umiat	
HP42	5832	1992		Wager Creek	Colville	Mudstone/chert	Float	Select	Howard Pass	C–5	10S	29W	14	SW	Umiat	
HP42	5833	1992		Wager Creek	Colville	Mudstone	Float	Select	Howard Pass	C–5	10S	29W	14	SW	Umiat	
HP42	5834	1992	Drenchwater Creek	False Wager Creek	Colville	Siliceous brec	Float	Select	Howard Pass	C–5	10S	29W	14	SW	Umiat	
HP43	5725	1992	Drenchwater Creek	False Wager Creek	Colville	Mudstone	Float	Grab	Howard Pass	C–5	10S	29W	22	SE	Umiat	
HP43	5726	1992	Drenchwater Creek	False Wager Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	22	SW	Umiat	
HP43	5727	1992	Drenchwater Creek	False Wager Creek	Colville	Shale	Float	Grab	Howard Pass	C–5	10S	29W	22	SW	Umiat	
HP43	5728	1992	Drenchwater Creek	False Wager Creek	Colville	Chert	Float	Select	Howard Pass	C–5	10S	29W	22	SW	Umiat	
HP43	5729	1992	Drenchwater Creek	False Wager Creek	Colville	Shale	Float	Grab	Howard Pass	C–5	10S	29W	22	NW	Umiat	
HP43	5730	1992	Drenchwater Creek	False Wager Creek	Colville	Shale	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	22	NW	Umiat	
HP43	5731	1992	Drenchwater Creek	False Wager Creek	Colville	Mudstone	Float	Select	Howard Pass	C–5	10S	29W	22	NW	Umiat	5.95
HP43	5732	1992	Drenchwater Creek	False Wager Creek	Colville	Felsic volcanic	Outcrop	Repr chip	Howard Pass	C–5	10S	29W	22	NW	Umiat	
HP43	5733	1992	Drenchwater Creek	False Wager Creek	Colville	Shale/chert	Float	Grab	Howard Pass	C–5	10S	29W	22	NW	Umiat	
HP43	5734	1992	Drenchwater Creek	False Wager Creek	Colville	Stream sed		Stream sed	Howard Pass	C–5	10S	29W	22	NW	Umiat	
HP43	5735	1992	Drenchwater Creek	False Wager Creek	Colville	Stream sed		Stream sed	Howard Pass	C–5	10S	29W	22	NW	Umiat	
HP44	5825	1992	Drenchwater Creek	False Wager Creek	Colville	Chert	Float	Select	Howard Pass	C–5	10S	29W	22	SE	Umiat	
HP45	4041	1991	Wager Ck Barite	Wager Creek	Colville	Chert	Outcrop	Grab	Howard Pass	C–5	10S	29W	27	NW	Umiat	
HP46	4039	1991	Wager Ck Barite	Wager Creek	Colville	Felsic intrusive	Float	Grab	Howard Pass	C–5	10S	29W	27	NW	Umiat	
HP46	4040	1991	Wager Ck Barite	Wager Creek	Colville	Chert	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	27	NW	Umiat	
HP47	5723	1992	Drenchwater Creek	False Wager Creek	Colville	Shale	Float	Grab	Howard Pass	C–5	10S	29W	22	SE	Umiat	
HP47	5724	1992	Drenchwater Creek	False Wager Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	22	SE	Umiat	
HP48	4042	1991		Wager Creek	Colville	Arkose/tuff	Outcrop	Grab	Howard Pass	C–5	10S	29W	23	NW	Umiat	
HP48	5826	1992		Wager Creek	Colville	Chert	Float	Select	Howard Pass	C–5	10S	29W	23	NW	Umiat	
HP49	5831	1992		Wager Creek	Colville	Stream sed		Stream sed	Howard Pass	C–5	10S	29W	13	SW	Umiat	
HP50	4084	1991		Wager Creek	Colville	Andesite	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	24	NE	Umiat	
HP51	5839	1992		Killgwa River	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	29W	25	NW	Umiat	
HP52	5840	1992		Killgwa River	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	28W	19	SW	Umiat	
HP52	5841	1992		Killgwa River	Colville	Stream sed		Stream sed	Howard Pass	C–5	10S	28W	19	SE	Umiat	
HP53	4038	1991		Killgwa River	Colville	Chert	Outcrop	Grab	Howard Pass	C–5	10S	28W	20	SW	Umiat	
HP54	4124	1991		Twistem Creek	Colville	Chert	Outcrop	Select	Howard Pass	C–5	10S	29W	36	SE	Umiat	
HP55	5761	1992		Twistem Creek	Colville	Chert	Outcrop	Chip channel	Howard Pass	C–5	10S	24W	36	SE	Umiat	
HP55	5762	1992		Twistem Creek	Colville	Chert	Rubblecrop	Select	Howard Pass	C–5	10S	24W	36	SE	Umiat	
HP56	5763	1992		Twistem Creek	Colville	Chert/mudstone	Rubblecrop	Grab	Howard Pass	C–5	11S	24W	1	NE	Umiat	
HP57	4121	1991		Wager Creek	Colville	Mafic intrusive	Float	Grab	Howard Pass	C–5	10S	29W	35	NE	Umiat	
HP57	4122	1991		Wager Creek	Colville	Chert	Rubblecrop	Grab	Howard Pass	C–5	10S	29W	35	NE	Umiat	
HP58	5752	1992		Twistem Creek	Colville	Chert	Float	Grab	Howard Pass	C–5	11S	24W	1	SE	Umiat	
HP58	5753	1992		Twistem Creek	Colville	Chert	Outcrop	Grab	Howard Pass	C–5	11S	24W	1	SE	Umiat	
HP58	5754	1992		Twistem Creek	Colville	Mudstone	Float	Grab	Howard Pass	C–5	11S	24W	1	SE	Umiat	
HP58	5755	1992		Twistem Creek	Colville	Mudstone	Float	Repr chip	Howard Pass	C–5	11S	24W	1	SE	Umiat	
HP58	5756	1992		Twistem Creek	Colville	Mudstone	Outcrop	Chip channel	Howard Pass	C–5	11S	24W	1	SE	Umiat	
HP58	5757	1992		Twistem Creek	Colville	Stream sed		Stream sed	Howard Pass	C–5	11S	24W	1	SE	Umiat	
HP58	5758	1992		Twistem Creek	Colville	Chert/mudstone	Float	Select	Howard Pass	C–5	11S	24W	1	SE	Umiat	
HP58	5759	1992		Twistem Creek	Colville	Chert	Outcrop	Grab	Howard Pass	C–5	11S	24W	1	SE	Umiat	
HP58	5760	1992		Twistem Creek	Colville	Shale	Float	Grab	Howard Pass	C–5	11S	24W	1	SE	Umiat	
HP58	5764	1992		Twistem Creek	Colville	Stream sed		Stream sed	Howard Pass	C–5	11S	24W	1	SE	Umiat	
HP59	4123	1991		Twistem Creek	Colville	Chert	Outcrop	Select	Howard Pass	C–5	11S	28W	6	SW	Umiat	
HP60	5842	1992		Twistem Creek	Colville	Mudstone	Float	Grab	Howard Pass	C–5	11S	28W	6	SW	Umiat	
HP60	5880	1992		Twistem Creek	Colville	Mudstone	Outcrop	Repr chip	Howard Pass	C–5	11S	28W	6	SW	Umiat	
HP60	5881	1992		Twistem Creek	Colville	Mudstone	Outcrop	Select	Howard Pass	C–5	11S	28W	6	NW	Umiat	
HP60	5882	1992		Twistem Creek	Colville	Mudstone	Outcrop	Repr chip	Howard Pass	C–5	11S	28W	6	NW	Umiat	
HP60	5883	1992		Twistem Creek	Colville	Mudstone	Outcrop	Repr chip	Howard Pass	C–5	11S	28W	6	NW	Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
HP39	5718	<0.5	6.45	59	5	615			<5	0.03	2.4	2	31		3		1.26	19	0.68	57	88	0.06	888		<1
HP39	5719	0.9	0.68	54	7	337			<5	0.01	<2.0	3	264		10		1.36	<10	0.17	<5	114	0.03	32		<1
HP40	5835	<0.5	3.64	17	9	59			<5	0.08	<2.0	7	233		51		>10.00	20	1.19	8	31	0.27	353		14
HP41	4043	0.5	4.47	<5	3	1046			7	>10.00	<2.0	43	226	0.07	95		6.85	14	0.37	38	45	5.32	1146		5
HP42	5827	<0.5	0.81	52	3	74			<5	0.02	<2.0	3	391		5		1.09	<10	0.21	34	58	0.01	37		<1
HP42	5828	<0.5	0.25	21	4	189			<5	<0.01	<2.0	<1	443		<1		0.46	<10	0.03	<5	50	<0.01	34		2
HP42	5829	12.4	1.43	20	7	98			<5	0.02	<2.0	2	362		10		0.87	<10	0.31	26	77	0.05	26		30
HP42	5830	<0.5	0.19	47	2	126			<5	<0.01	<2.0	1	447		8		1.05	<10	0.03	5	38	<0.01	38		2
HP42	5832	<0.5	0.09	21	4	118			<5	<0.01	<2.0	2	435		<1		0.39	<10	0.01	<5	7	<0.01	33		4
HP42	5833	6.3	0.83	59	7	40			<5	0.07	<2.0	1	209		15		1.68	<10	0.31	9	13	0.03	26		16
HP42	5834	<0.5	0.57	25	3	125			<5	<0.01	<2.0	3	365		<1		2.34	<10	0.03	<5	23	<0.01	46		7
HP43	5725	1.1	0.97	10	9	336			<5	0.02	<2.0	4	280		15		0.48	<10	0.27	11	19	0.07	37		19
HP43	5726	2.3	0.33	43	7	618			<5	0.34	2.4	5	446		53		0.47	<10	0.08	7	6	0.02	115		2
HP43	5727	1.5	1.11	30	6	407			<5	0.07	<2.0	5	256		45		0.41	<10	0.24	15	14	0.06	37		6
HP43	5728	<0.5	1.03	17	19	<5			<5	<0.01	<2.0	14	160		28		>10.00	13	0.23	<5	5	0.07	83		2
HP43	5729	2.5	2.08	21	8	134			<5	0.03	<2.0	2	353		14		0.42	<10	0.51	10	24	0.13	32		<1
HP43	5730	12.2	2.43	32	14	74			<5	0.46	<2.0	2	696		134		2	<10	0.59	25	26	0.15	58		14
HP43	5731	>50.0	0.67	61	76	7			85	1.49	292.3	10	221		94		4.62	67	0.01	<5	8	<0.01	424		56
HP43	5732	0.7	7.06	18	2	120			<5	1.68	<2.0	4	33		6		1.33	25	0.60	45	101	0.05	258		<1
HP43	5733	1.9	1.60	54	7	162			<5	0.09	<2.0	4	337		35		1.2	<10	0.34	14	34	0.11	76		4
HP43	5734	<0.5	3.10	36	7	81			<5	0.11	<2.0	9	248		49		>10.00	19	1.15	<5	34	0.27	373		19
HP43	5735	<0.5	5.12	55	12	539			21	0.34	<2.0	593	67		168		>10.00	53	1.22	43	47	0.39	>20000		5
HP44	5825	3.9	1.49	84	6	177			<5	0.03	<2.0	7	421		229		3.66	<10	0.26	<5	33	0.08	145		37
HP45	4041	<0.5	0.08	19	3	>2000			9	<0.01	<2.0	4	338		9		1.32	<10	<0.01	<5	15	<0.01	276		<1
HP46	4039	<0.5	0.52	18	3	1537			<5	<0.01	<2.0	2	23		9		0.4	<10	<0.01	<5	4	<0.01	20		1
HP46	4040	<0.5	0.95	16	3	>2000			14	0.76	<2.0	5	320		24		1.57	<10	0.25	<5	64	0.33	654		9
HP47	5723	<0.5	2.99	16	3	953			<5	0.02	<2.0	2	73		11		0.74	13	1.19	11	66	0.27	44		<1
HP47	5724	0.6	0.59	15	5	1161			<5	<0.01	<2.0	3	396		12		0.6	<10	0.15	<5	126	0.03	58		2
HP48	4042	<0.5	2.49	5	<1	130			<5	0.74	<2.0	2	49		11		0.81	16	0.25	17	115	0.04	149		7
HP48	5826	2.7	1.07	35	7	82			<5	0.20	<2.0	7	370		51		0.88	<10	0.31	<5	36	0.07	63		18
HP49	5831	<0.5	6.16	47	44	1411			<5	0.70	<2.0	24	119		77		4.43	20	1.26	27	51	0.97	1863		6
HP50	4084	<0.5	0.16	<5	5	166			<5	>10.00	<2.0	1	173		4		0.66	<10	<0.01	6	29	0.92	1716		6
HP51	5839	<0.5	2.17	16	3	353			<5	0.01	<2.0	3	198		86		1.24	<10	0.61	12	37	0.20	32		1
HP52	5840	1.8	0.86	54	3	91			8	0.11	3.1	11	431		223		1.05	<10	0.14	10	18	0.03	61		6
HP52	5841	<0.5	4.96	60	11	568			7	0.16	<2.0	63	73		141		5.54	28	1.93	<5	136	0.55	5604		2
HP53	4038	<0.5	1.10	<5	3	>2000			13	0.10	<2.0	6	363		38		0.75	<10	0.22	6	44	0.09	1231		10
HP54	4124	0.7	0.13	38	8	133			<5	0.15	3	<1	428		24		1	<10	0.03	<5	8	0.09	323		24
HP55	5761	<0.5	2.32	45	6	13			7	0.05	<2.0	14	288		79		5.08	16	0.65	<5	46	0.39	756		6
HP55	5762	<0.5	1.53	12	8	68			<5	0.12	<2.0	7	303		53		1.94	11	0.41	<5	41	0.38	1059		<1
HP56	5763	0.6	0.40	<5	4	1909			<5	0.05	<2.0	17	487		30		0.78	<10	0.10	<5	29	0.03	96		<1
HP57	4121	<0.5	3.88	<5	13	1597			<5	5.68	<2.0	36	40		387		>10.00	<10	0.15	<5	7	2.00	1970		1
HP57	4122	<0.5	1.49	20	3	430			<5	0.03	<2.0	<1	246		35		1.62	<10	0.47	8	38	0.19	223		6
HP58	5752	<0.5	0.60	33	6	512			<5	0.06	<2.0	5	494		23		0.72	<10	0.11	6	32	0.03	95		8
HP58	5753	<0.5	1.06	32	6	98			<5	0.05	<2.0	11	480		42		0.82	<10	0.30	7	37	0.06	164		3
HP58	5754	1.1	0.59	29	4	213			<5	0.98	<2.0	6	521		92		0.47	<10	0.06	<5	22	0.02	215		<1
HP58	5755	0.9	0.44	13	3	224			<5	0.94	<2.0	3	528		40		0.64	<10	0.12	8	50	0.28	215		3
HP58	5756	1.7	2.84	37	9	211			10	0.04	<2.0	<1	223		9		1.22	<10	1.45	16	15	0.24	23		17
HP58	5757	0.9	1.55	31	4	195			<5	0.15	<2.0	10	62		28		1.41	<10	0.67	<5	27	0.39	335		4
HP58	5758	<0.5	0.71	46	3	51			<5	0.43	<2.0	6	455		11		1.21	<10	0.19	<5	20	0.28	326		<1
HP58	5759	<0.5	0.15	13	2	512			<5	0.22	<2.0	8	626		19		1.09	<10	0.02	<5	9	0.06	1228		<1
HP58	5760	<0.5	7.27	82	6	>2000			17	0.36	<2.0	35	111		93		6.71	32	1.79	6	94	1.40	9400		<1
HP58	5764	<0.5	2.31	18	5	271			6	0.17	<2.0	11	36		22		1.47	<10	0.68	<5	26	0.56	351		<1
HP59	4123	<0.5	1.29	8	<1	1756			<5	0.05	<2.0	3	309		66		0.66	<10	0.28	6	20	0.17	1289		2
HP60	5842	<0.5	1.82	25	3	1067			7	0.03	<2.0	11	212		73		1.58	12	0.29	6	28	0.46	691		<1
HP60	5880	0.7	2.66	39	5	65			60	7.53	<2.0	15	63		79		3.46	71	0.57	8	44	3.34	>20000		12
HP60	5881	5.0	3.52	33	3	103			9	0.96	<2.0	5	491		145		3.11	15	0.98	36	30	0.35	307		10
HP60	5882	8.8	2.39	30	5	338			<5	0.07	<2.0	2	527		24		1.01	<10	0.84	13	30	0.24	597		5
HP60	5883	2.6	3.62	32	16	110			6	0.33	<2.0	4	380		25		1.38	10	1.09	13	23	0.23	62		6

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
HP39	5718	0.29	87	8	83		2	10		9	<20	52	<100	<25	0.13		15	<20	13	762		279	
HP39	5719	0.05	<5	8	74		4	6		<5	<20	13	<100	<25	0.04		21	<20	<5	12		15	
HP40	5835	0.43	28	35	33		7	86		<5	<20	97	<100	<25	0.26		298	<20	12	131		82	
HP41	4043	1.47	62	140	13		7	12		7	22	837	28	<25	1.07		276	<20	18	132		138	
HP42	5827	0.03	81	20	130		1	<5		<5	<20	46	<100	<25	0.05		17	<20	10	7		108	
HP42	5828	0.02	<5	3	27		<1	<5		<5	<20	4	<100	<25	<0.01		2	<20	<5	22		10	
HP42	5829	0.04	12	83	225		24	12		<5	<20	64	<100	<25	0.16		140	<20	<5	12		49	
HP42	5830	0.03	6	9	40		<1	<5		<5	<20	13	<100	<25	<0.01		3	<20	<5	94		19	
HP42	5832	0.02	<5	3	139		1	<5		<5	<20	2	<100	<25	<0.01		<2	<20	<5	<2		<5	
HP42	5833	0.04	6	35	55		8	10		<5	<20	64	<100	<25	0.08		91	<20	<5	9		20	
HP42	5834	0.03	5	11	31		<1	<5		<5	<20	6	<100	<25	<0.01		4	<20	<5	233		23	
HP43	5725	0.05	<5	17	10		8	7		<5	<20	44	<100	<25	0.05		74	<20	9	11		23	
HP43	5726	0.04	<5	44	4		5	11		<5	<20	22	<100	<25	0.02		39	<20	20	56		<5	
HP43	5727	0.04	<5	29	10		7	<5		<5	<20	66	<100	<25	0.06		83	<20	11	84		34	
HP43	5728	0.78	12	124	34		7	9		<5	24	16	<100	<25	0.06		19	<20	<5	17		19	
HP43	5729	0.06	<5	64	<2		17	11		<5	<20	18	<100	<25	0.11		112	<20	9	34		36	
HP43	5730	0.05	<5	189	12		27	18		<5	<20	51	<100	<25	0.12		142	<20	67	137		40	
HP43	5731	0.02	8	9	>10000	1.89	2	<5		126	<20	18	<100	<25	<0.01		11	<20	<5	>20000	12.64	26	
HP43	5732	0.30	195	10	67		2	<5		<5	<20	108	<100	<25	0.32		41	<20	9	214		353	
HP43	5733	0.08	13	24	80		7	8		<5	<20	100	<100	<25	0.10		60	<20	8	250		38	
HP43	5734	0.40	28	40	42		8	19		<5	<20	118	<100	<25	0.29		333	<20	9	131		86	
HP43	5735	0.58	36	1594	37		11	35		<5	<20	188	<100	<25	0.22		108	<20	74	2158		106	
HP44	5825	0.05	<5	119	10		10	<5		12	<20	97	<100	<25	0.05		176	<20	16	397		24	
HP45	4041	<0.01	<5	13	<2		4	9		<5	<20	32	13	<25	<0.01		31	<20	<5	28		8	
HP46	4039	0.34	<5	3	<2		6	10		<5	<20	144	<5	<25	0.02		16	<20	<5	13		<5	
HP46	4040	0.16	<5	28	<2		6	12		8	<20	238	<5	<25	0.03		18	<20	6	51		12	
HP47	5723	0.19	<5	5	12		6	9		<5	<20	331	<100	<25	0.22		72	<20	10	17		51	
HP47	5724	0.04	<5	10	6		3	7		<5	<20	20	<100	<25	0.03		26	<20	<5	12		14	
HP48	4042	0.07	128	25	15		<1	<5		<5	<20	49	23	<25	0.29		36	<20	<5	587		230	
HP48	5826	0.05	<5	38	10		7	<5		<5	<20	42	<100	<25	0.06		104	<20	7	31		<5	
HP49	5831	0.96	19	107	30		28	184		<5	<20	178	<100	<25	0.41		184	<20	26	386		92	
HP50	4084	<0.01	11	15	3		4	23		<5	<20	112	6	<25	<0.01		16	<20	<5	65		13	
HP51	5839	0.15	<5	13	3		4	<5		<5	<20	133	<100	<25	0.12		29	<20	7	12		54	
HP52	5840	0.04	<5	209	5		6	<5		<5	<20	42	<100	<25	0.03		60	<20	27	129		<5	
HP52	5841	0.57	11	126	39		6	49		<5	<20	374	<100	<25	0.35		156	<20	12	262		79	
HP53	4038	0.43	<5	17	<2		5	10		<5	<20	117	11	<25	0.05		17	<20	5	25		27	
HP54	4124	0.04	<5	22	4		<1	<5		<5	<20	31	30	<25	<0.01		19	<20	<5	107		<5	
HP55	5761	0.60	6	43	15		5	<5		<5	<20	60	<100	<25	0.13		61	<20	8	56		55	
HP55	5762	0.43	<5	27	8		6	9		<5	<20	147	<100	<25	0.09		29	<20	6	43		45	
HP56	5763	0.08	<5	23	13		3	<5		<5	<20	32	<100	<25	0.02		23	<20	<5	17		9	
HP57	4121	1.69	12	18	<2		175	30		<5	<20	165	53	<25	1.61		480	<20	28	168		47	
HP57	4122	0.24	<5	16	<2		2	<5		<5	<20	66	48	<25	0.09		23	<20	<5	36		28	
HP58	5752	0.22	<5	21	17		4	<5		<5	<20	23	<100	<25	0.03		54	<20	<5	13		25	
HP58	5753	0.08	<5	93	12		6	<5		<5	<20	35	<100	<25	0.06		56	<20	<5	36		23	
HP58	5754	0.04	<5	76	5		6	6		<5	<20	58	<100	<25	0.01		28	<20	11	169		<5	
HP58	5755	0.04	<5	67	7		6	6		<5	<20	49	<100	<25	0.03		33	<20	22	216		<5	
HP58	5756	0.16	7	20	20		16	6		<5	<20	110	<100	<25	0.24		134	<20	10	12		75	
HP58	5757	0.43	<5	37	15		5	<5		<5	<20	22	<100	<25	0.12		76	<20	<5	309		23	
HP58	5758	0.09	<5	20	8		3	6		<5	<20	54	<100	<25	0.05		31	<20	<5	34		15	
HP58	5759	0.05	<5	20	5		2	<5		<5	<20	161	<100	<25	<0.01		11	<20	<5	68		<5	
HP58	5760	1.41	14	66	31		4	<5		<5	<20	112	<100	<25	0.45		193	<20	11	154		110	
HP58	5764	0.47	<5	28	19		4	<5		<5	<20	19	<100	<25	0.14		83	<20	<5	199		24	
HP59	4123	0.46	<5	27	<2		3	9		<5	<20	75	24	<25	0.06		34	<20	5	54		29	
HP60	5842	0.35	<5	35	3		4	5		<5	<20	536	<100	<25	0.08		41	<20	7	78		43	
HP60	5880	0.19	<5	106	20		8	11		<5	<20	329	<100	<25	0.10		112	<20	33	351		39	
HP60	5881	0.13	14	271	12		8	<5		<5	<20	264	<100	<25	0.15		222	<20	48	549		62	
HP60	5882	0.05	<5	119	7		13	6		<5	<20	42	<100	<25	0.11		212	<20	8	57		38	
HP60	5883	0.10	<5	56	7		9	7		<5	<20	48	<100	<25	0.15		149	<20	7	56		40	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
HP60	5884	1992		Twistem Creek	Colville	Mudstone	Outcrop	Select	Howard Pass	C–5	11S	28W	6	NW	Umiat	
HP60	5885	1992		Twistem Creek	Colville	Stream sed		Stream sed	Howard Pass	C–5	11S	28W	6	NW	Umiat	
HP60	5886	1992		Twistem Creek	Colville	Chert	Rubblecrop	Grab	Howard Pass	C–5	11S	28W	6	NE	Umiat	
HP60	5887	1992		Twistem Creek	Colville	Chert	Outcrop	Repr chip	Howard Pass	C–5	11S	28W	6	NE	Umiat	
HP60	5888	1992		Twistem Creek	Colville	Stream sed		Stream sed	Howard Pass	C–5	11S	28W	6	NE	Umiat	
HP60	5891	1992		Twistem Creek	Colville	Stream sed		Stream sed	Howard Pass	C–5	11S	28W	6	SW	Umiat	
HP60	5892	1992		Twistem Creek	Colville	Stream sed		Stream sed	Howard Pass	C–5	11S	28W	6	SW	Umiat	
HP61	4125	1991	Twistem Ck Barite	Twistem Creek	Colville	Barite	Outcrop	Select	Howard Pass	C–5	10S	28W	31	SW	Umiat	
HP62	4037	1991		Killgwa River	Colville	Chert	Outcrop	Grab	Howard Pass	C–5	10S	28W	32	NE	Umiat	
HP62	5889	1992		Killgwa River	Colville	Stream sed		Stream sed	Howard Pass	C–5	10S	28W	32	NE	Umiat	
HP62	5890	1992		Killgwa River	Colville	Mudstone	Outcrop	Select	Howard Pass	C–5	10S	28W	32	NE	Umiat	
HP63	5736	1992		Killgwa River	Colville	Sil. volcanic	Float	Grab	Howard Pass	C–5	10S	28W	8	SE	Umiat	
HP63	5737	1992		Killgwa River	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	28W	8	SE	Umiat	
HP63	5738	1992		Killgwa River	Colville	Chert	Float	Grab	Howard Pass	C–5	10S	28W	8	SE	Umiat	
HP63	5739	1992		Killgwa River	Colville	Stream sed		Stream sed	Howard Pass	C–5	10S	28W	8	NW	Umiat	
HP64	4081	1991		Killgwa River	Colville	Chert	Rubblecrop	Grab	Howard Pass	C–4	10S	28W	14	SE	Umiat	
HP65	4082	1991		Killgwa River	Colville	Chert	Rubblecrop	Grab	Howard Pass	C–4	10S	28W	14	SE	Umiat	
HP66	4083	1991		Killgwa River	Colville	Chert	Outcrop	Contin chip	Howard Pass	C–4	10S	28W	11	NE	Umiat	
HP67	5922	1992		Swayback Creek	Colville	Stream sed		Stream sed	Howard Pass	C–4	9S	27W	31	SE	Umiat	
HP68	5791	1992		Swayback Creek	Colville	Stream sed		Stream sed	Howard Pass	C–4	9S	26W	31	NE	Umiat	
HP69	5790	1992		Swayback Creek	Colville	Chert/siltstone	Rubblecrop	Grab	Howard Pass	C–4	10S	26W	5	NE	Umiat	
HP70	5797	1992		Apex Mtn	Colville	Ultramafic (?)	Float	Select	Howard Pass	B–4	12S	27W	20	SW	Umiat	
HP71	5784	1992	Whoopee Creek	Whoopee Creek	Colville	Mudstone brec	Float	Select	Howard Pass	A–4	33N	4E	25	NW	Kateel River	5.17
HP72	4180	1991		Ipnavik River	Colville	Sandstone	Rubblecrop	Grab	Howard Pass	B–3	34N	07E	29	SW	Kateel River	
HP73	4175	1991		Tukuto Creek	Colville	Shale	Float	Grab	Howard Pass	B–2	34N	08E	24	SE	Kateel River	
HP74	5800	1992		Tukuto Creek	Colville	Tuff	Rubblecrop	Grab	Howard Pass	B–2	34N	7E	14	NE	Kateel River	
HP75	5799	1992		Tukuto Creek	Colville	Stream sed		Stream sed	Howard Pass	B–2	34N	7E	14	NE	Kateel River	
HP76	5798	1992		Tukoto Creek	Colville	Shale	Outcrop	Repr chip	Howard Pass	B–2	34N	7E	14	NW	Kateel River	
HP77	6046	1993		Ipnavik River trib	Colville			Stream sed	Howard Pass	B–3	34N	07E	16	NW	Kateel River	
HP78	6041	1993		Ipnavik River trib	Colville	Sandstone	Float	Select	Howard Pass	B–3	34N	07E	9	SE	Kateel River	
HP78	6042	1993	Ipnavik River East	Ipnavik River trib	Colville	Sandstone	Float	Select	Howard Pass	B–3	34N	07E	9	SE	Kateel River	
HP78	6043	1993	Ipnavik River East	Ipnavik River trib	Colville	Sandstone	Float	Select	Howard Pass	B–3	34N	07E	9	SE	Kateel River	0.27
HP78	6044	1993	Ipnavik River East	Ipnavik River trib	Colville	Sandstone	Float	Select	Howard Pass	B–3	34N	07E	9	SE	Kateel River	0.06
HP79	6045	1993	Ipnavik River East	Ipnavik River trib	Colville	Shale	Float	Select	Howard Pass	B–3	34N	07E	9	SE	Kateel River	0.02
HP80	6005	1993	Ipnavik River East	Ipnavik River	Colville	Sandstone	Rubblecrop	Grab	Howard Pass	B–3	34N	07E	9	SW	Kateel River	
HP80	6006	1993		Ipnavik River	Colville	Sandstone	Float	Grab	Howard Pass	B–3	34N	07E	9	SW	Kateel River	
HP81	6004	1993		Ipnavik River	Colville	Sandstone	Float	Grab	Howard Pass	B–3	34N	07E	8	SE	Kateel River	
HP81	6007	1993		Ipnavik River	Colville	Sandstone	Float	Grab	Howard Pass	B–3	34N	07E	8	SE	Kateel River	
HP82	6037	1993		Ipnavik River trib	Colville			Stream sed	Howard Pass	B–3	12S	23W	29	SW	Umiat	
HP83	6033	1993	Ipnavik River West	Ipnavik River trib	Colville	Sandstone	Float	Select	Howard Pass	B–3	34N	07E	7	NW	Kateel River	0.67
HP83	6034	1993	Ipnavik River West	Ipnavik River trib	Colville	Sandstone	Float	Select	Howard Pass	B–3	34N	07E	7	NW	Kateel River	
HP83	6035	1993	Ipnavik River West	Ipnavik River trib	Colville	Sandstone	Float	Select	Howard Pass	B–3	34N	07E	7	NW	Kateel River	0.73
HP83	6036	1993	Ipnavik River West	Ipnavik River trib	Colville	Sandstone	Rubblecrop	Select	Howard Pass	B–3	12S	23W	29	SW	Umiat	11.04
HP84	6027	1993	Ipnavik River West	Ipnavik River trib	Colville	Sandstone	Rubblecrop	Select	Howard Pass	B–3	34N	07E	7	NW	Kateel River	0.22
HP84	6028	1993	Ipnavik River West	Ipnavik River	Colville	Sandstone	Rubblecrop	Select	Howard Pass	B–3	34N	07E	7	NW	Kateel River	12.80
HP84	6029	1993	Ipnavik River West	Ipnavik River trib	Colville	Sandstone	Float	Select	Howard Pass	B–3	34N	07E	7	NW	Kateel River	7.14
HP84	6030	1993	Ipnavik River West	Ipnavik River trib	Colville	Sandstone	Rubblecrop	Grab	Howard Pass	B–3	34N	07E	7	NW	Kateel River	
HP84	6031	1993	Ipnavik River West	Ipnavik River trib	Colville	Sandstone	Float	Select	Howard Pass	B–3	34N	07E	7	NW	Kateel River	0.87
HP84	6032	1993	Ipnavik River West	Ipnavik River trib	Colville	Sandstone	Rubblecrop	Contin chip	Howard Pass	B–3	34N	07E	7	NW	Kateel River	4.08
HP85	6003	1993		Ipnavik River	Colville	Shale	Rubblecrop	Grab	Howard Pass	B–3	34N	07E	7	SW	Kateel River	
HP86	6002	1993	Ipnavik River West	Ipnavik River	Colville	Ss/conglomerate	Rubblecrop	Select	Howard Pass	B–3	34N	06E	12	SE	Kateel River	
HP87	6001	1993	Ipnavik River West	Ipnavik River	Colville	Ss/conglomerate	Float	Grab	Howard Pass	B–3	34N	06E	12	NW	Kateel River	
HP87	6026	1993	Ipnavik River West	Ipnavik River	Colville	Sandstone	Float	Select	Howard Pass	B–3	34N	06E	12	NE	Kateel River	
HP88	6038	1993		Ipnavik River trib	Colville	Chert	Float	Select	Howard Pass	B–3	12S	23W	30	NW	Umiat	
HP89	6039	1993		Ipnavik River trib	Colville			Stream sed	Howard Pass	B–3	12S	23W	30	NW	Umiat	
HP90	6040	1993		Ipnavik River trib	Colville	Chert	Float	Select	Howard Pass	B–3	12S	23W	30	SW	Umiat	
HP91	6008	1993	Ipnavik River West	Ipnavik River	Colville	Shale	Rubblecrop	Grab	Howard Pass	B–3	34N	06E	15	NE	Kateel River	
HP92	4103	1991		Ipnavik Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–3	34N	05E	24	SE	Kateel River	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
HP60	5884	3.6	0.89	33		123			31	>10.00	<2.0	10	692		31		1.17	<10	0.23	<5	26	5.24	642		<1
HP60	5885	<0.5	2.21	32	3	307			<5	0.15	<2.0	21	60		32		1.7	<10	0.65	<5	35	0.44	1138		1
HP60	5886	1.7	0.37	33	3	233			7	0.05	<2.0	5	645		24		0.8	<10	0.12	<5	15	0.04	55		10
HP60	5887	4.9	2.01	28	3	329			9	1.39	<2.0	2	546		40		1.31	<10	0.32	23	33	0.10	34		6
HP60	5888	<0.5	2.12	<5	2	68			13	0.13	<2.0	29	55		36		3.71	<10	0.44	<5	29	0.34	1115		<1
HP60	5891	<0.5	2.40	35	2	504			9	0.14	<2.0	14	38		24		1.57	<10	0.66	<5	31	0.59	496		<1
HP60	5892	<0.5	2.24	42	4	303			8	0.16	<2.0	11	34		23		1.43	<10	0.66	<5	27	0.53	433		<1
HP61	4125	<0.5	0.45	12	<1	432	53.98		<5	0.03	<2.0	<1	10		6		0.36	<10	0.04	<5	4	0.08	23		2
HP62	4037	0.8	0.05	18	3	175			10	0.01	<2.0	<1	263		7		1.39	<10	<0.01	<5	6	<0.01	52		1
HP62	5889	<0.5	1.72	27	3	123			14	0.16	<2.0	23	67		33		1.28	<10	0.50	<5	30	0.29	969		<1
HP62	5890	<0.5	6.22	50	9	>2000			19	0.10	<2.0	14	85		28		4.73	23	1.91	12	28	0.97	1091		<1
HP63	5736	<0.5	2.74	52	5	47			42	7.50	<2.0	14	59		80		3.54	75	0.59	6	43	3.26	>20000		10
HP63	5737	<0.5	1.50	23	54	164			<5	0.22	<2.0	8	307		42		1.25	<10	0.33	<5	163	0.21	1001		1
HP63	5738	<0.5	1.94	36	2	14			7	3.28	<2.0	11	154		69		4.26	11	0.42	<5	47	1.48	3428		<1
HP63	5739	<0.5	4.78	28	6	680			<5	0.41	<2.0	31	127		95		4.13	21	1.56	12	57	0.68	3129		2
HP64	4081	<0.5	0.63	28	14	1063			<5	0.03	<2.0	3	339		38		1.04	<10	0.32	12	38	0.13	56		41
HP65	4082	0.7	1.45	18	9	>2000			6	0.04	<2.0	3	254		56		3.37	<10	0.88	13	24	0.31	48		18
HP66	4083	<0.5	1.87	39	7	1817			8	2.69	<2.0	9	143		122		2.01	14	0.40	15	17	1.09	9126		7
HP67	5922	<0.5	6.70	6	3	1396			8	2.68	<2.0	26	86		66		5.17	22	1.51	14	48	1.63	1344		<1
HP68	5791	<0.5	4.96	36	4	971			<5	0.69	<2.0	24	171		18		4.07	15	0.99	9	39	1.06	1439		<1
HP69	5790	0.7	1.54	12	5	763			<5	0.15	<2.0	14	291		52		1.72	<10	0.29	6	24	0.34	1039		<1
HP70	5797	0.8	6.88	29	5	33			22	>10.00	<2.0	22	178		6943		4.91	22	0.15	<5	<2	1.49	631		<1
HP71	5784	>50.0	1.15	249	862	15			17	0.10	54.2	70	253		808		2.12	21	0.37	<5	54	0.06	351		7
HP72	4180	<0.5	1.03	<5	3	75			<5	>10.00	<2.0	11	39		25		5.71	<10	0.34	<5	16	5.25	1967		<1
HP73	4175	<0.5	2.35	<5	3	1089			<5	0.78	<2.0	21	71		46	<0.01	>10.00	<10	0.51	<5	26	1.43	4138		10
HP74	5800	7.4	3.39	59	8	154			<5	0.09	4	5	239		50		1.55	14	0.57	28	52	0.06	93		6
HP75	5799	<0.5	5.90	27	5	641			10	0.12	<2.0	25	111		35		4.6	25	1.81	10	79	0.27	1009		<1
HP76	5798	<0.5	5.85	43	4	233			14	0.53	<2.0	15	138		31		1.21	25	1.25	31	205	0.18	229		<1
HP77	6046	<0.5	5.85	33		775			15	0.17	<2.0	17	106		29		3.63	18	0.96	21	68	0.24	725		3
HP78	6041	0.8	2.43	15		420			<5	0.03	<2.0	3	273		20		0.45	<10	0.33	24	37	0.04	75		18
HP78	6042	19.2	1.79	32		55			43	0.04	84.6	4	253		102		2.25	12	0.28	11	16	0.08	461		39
HP78	6043	9.5	2.11	<5		163			14	0.08	19.3	3	179		45		0.68	<10	0.38	14	20	0.05	104		12
HP78	6044	2.0	1.26	61		237			<5	0.03	<2.0	<1	355		13		0.46	<10	0.09	10	19	0.02	38		2
HP79	6045	<0.5	2.06	32		141			14	10.00	<2.0	6	119		30		4.98	10	0.17	7	22	1.41	815		6
HP80	6005	25.0	0.75	62		68			34	<0.01	137.1	8	293		104		0.49	14	0.08	12	8	0.01	47		24
HP80	6006	<0.5	2.91	<5		540			11	0.03	<2.0	11	228		40		2.54	11	0.45	30	24	0.09	598		18
HP81	6004	<0.5	4.95	31		764			8	0.06	<2.0	5	174		22		3.08	21	0.89	13	66	0.11	68		4
HP81	6007	<0.5	3.30	8		890			<5	0.06	5.7	15	222		673		3.61	11	0.61	23	29	0.17	681		4
HP82	6037	<0.5	4.42	26		384			7	0.14	4.6	12	122		30		3.53	12	0.61	21	11	0.21	1157		4
HP83	6033	23.2	1.97	68		263			6	0.10	2.8	6	298		81		4.01	12	0.67	10	25	0.12	1198		7
HP83	6034	10.4	1.10	39		86			<5	0.06	<2.0	<1	359		13		0.45	<10	0.34	9	18	0.04	58		4
HP83	6035	25.4	1.30	170		102			26	0.02	66.5	9	353		63		0.89	<10	0.52	8	41	0.04	43		22
HP83	6036	50.0	0.90	63		29			<5	0.03	5.7	4	208		138		0.44	<10	0.34	<5	26	0.03	65		6
HP84	6027	7.3	1.27	34		74			23	0.01	73.8	9	261		83		2.22	11	0.48	6	37	0.04	207		27
HP84	6028	50.0	1.25	364		37			<5	0.03	2.1	26	172		99		0.41	<10	0.58	7	19	0.05	39		3
HP84	6029	50.0	1.87	319		101			<5	0.04	<2.0	17	200		49		0.52	<10	0.93	12	16	0.08	64		3
HP84	6030	3.5	1.46	30		114			<5	0.02	5	4	372		14		0.4	<10	0.61	15	15	0.04	39		10
HP84	6031	29.6	1.13	40		108			42	0.02	167	11	314		108		0.98	<10	0.46	8	20	0.03	143		33
HP84	6032	50.0	2.59	460		177			<5	0.65	<2.0	14	180		29		2.4	<10	1.03	13	23	0.18	501		4
HP85	6003	<0.5	2.59	7		272			11	0.06	<2.0	13	298		53		8.09	13	0.73	26	6	0.10	3814		3
HP86	6002	5.8	0.95	533		105			11	0.15	9.2	44	237		3688		2.61	<10	0.37	<5	14	0.08	428		8
HP87	6001	<0.5	2.93	82		264			16	0.15	<2.0	12	221		30		>10.00	15	0.61	16	20	0.09	494		4
HP87	6026	<0.5	2.31	56		182			10	0.05	<2.0	18	247		46		>10.00	14	0.50	23	39	0.08	309		5
HP88	6038	<0.5	0.79	<5		142			<5	0.35	<2.0	5	48		20		>10.00	25	0.15	<5	12	1.49	9969		3
HP89	6039	<0.5	2.78	46		320			<5	0.06	<2.0	17	87		30		3.87	<10	0.74	14	30	0.10	1460		2
HP90	6040	<0.5	1.26	<5		216			<5	0.46	<2.0	15	54		25		>10.00	22	0.31	<5	20	1.66	8722		5
HP91	6008	0.5	1.93	<5		1122			15	0.06	18.8	12	123		74		>10.00	25	0.24	10	18	0.11	9335		15
HP92	4103	<0.5	2.07	25	1	105			17	8.75	<2.0	10	97		6		7.07	<10	0.38	18	10	2.93	2496		<1

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
HP60	5884	0.03	<5	100	10					<5	<20	177	<100	<25	0.03		88	<20	11	505		7	
HP60	5885	0.46	<5	103	11		3	<5		<5	<20	25	<100	<25	0.12		71	<20	<5	1088		23	
HP60	5886	0.04	<5	22	65		3	<5		<5	<20	19	<100	<25	0.03		41	<20	<5	23		10	
HP60	5887	0.04	<5	67	11		5	9		<5	<20	117	<100	<25	0.06		97	<20	36	195		<5	
HP60	5888	0.37	10	122	21		3	<5		<5	<20	38	<100	<25	0.09		52	<20	7	1895		30	
HP60	5891	0.59	<5	28	6		2	<5		<5	<20	27	<100	<25	0.13		61	<20	<5	173		23	
HP60	5892	0.47	<5	29	6		4	8		<5	<20	21	<100	<25	0.12		72	<20	<5	228		22	
HP61	4125	0.31	<5	3	<2		1	<5		<5	<20	151	34	<25	0.04		41	<20	<5	31		<5	
HP62	4037	<0.01	<5	7	<2		3	7		<5	<20	9	<5	<25	<0.01		10	<20	<5	24		<5	
HP62	5889	0.25	<5	130	15		3	<5		<5	<20	22	<100	<25	0.09		56	<20	<5	942		20	
HP62	5890	0.59	11	54	25		2	<5		<5	<20	139	<100	<25	0.32		119	<20	10	147		80	
HP63	5736	0.20	<5	105	14		2	10		<5	<20	332	<100	<25	0.11		110	<20	33	25		39	
HP63	5737	0.18	<5	29	8		4	<5		<5	<20	106	<100	<25	0.07		23	<20	<5	56		36	
HP63	5738	0.56	<5	38	8		5	<5		<5	<20	514	<100	<25	0.09		57	<20	11	69		40	
HP63	5739	0.71	12	154	14		7	13		<5	<20	227	<100	<25	0.32		156	<20	19	405		84	
HP64	4081	0.02	<5	33	7		11	25		8	<20	57	<5	<25	0.05		77	<20	6	82		29	
HP65	4082	0.15	<5	23	5		8	20		9	<20	104	<5	<25	0.12		73	<20	8	96		44	
HP66	4083	1.53	6	34	7		6	21		6	<20	571	<5	<25	0.11		46	20	14	126		68	
HP67	5922	1.12	13	56	18		5	10		<5	<20	123	<100	<25	0.52		161	<20	18	141		104	
HP68	5791	1.46	10	52	20		4	10		<5	<20	88	<100	<25	0.42		118	<20	12	146		85	
HP69	5790	0.18	<5	43	78		7	9		<5	<20	33	<100	<25	0.07		102	<20	10	97		31	
HP70	5797	0.38	7	24	16		8	15		<5	<20	357	<100	<25	0.04		82	<20	<5	36		10	
HP71	5784	0.04	<5	73	>10000	15.25	3	9		49	40	8	<100	30	0.06		17	<20	<5	12777	1.22	12	
HP72	4180	0.20	15	31	41		<1	5		<5	<20	442	<5	<25	0.05		37	<20	10	128		31	
HP73	4175	0.53	11	72	33	<0.01	<1	5		<5	<20	59	<5	<25	0.15		60	<20	10	428	0.04	62	
HP74	5800	0.19	45	12	1686		6	8		<5	<20	138	<100	<25	0.81		124	<20	11	1838		126	
HP75	5799	0.44	14	55	67		4	7		<5	21	94	<100	<25	0.53		144	<20	13	386		109	
HP76	5798	0.31	8	39	105		8	10		<5	<20	79	<100	<25	0.78		165	<20	18	449		124	
HP77	6046	0.38	17	51	32					<5	<20	99	<100	<25	0.46		119	<20	15	197		115	
HP78	6041	0.04	<5	11	418					8	<20	139	<100	<25	0.18		54	<20	10	56		38	
HP78	6042	0.04	<5	7	662					54	20	161	<100	<25	0.12		37	<20	8	>20000	3	26	
HP78	6043	0.05	<5	6	918	0				44	<20	142	<100	<25	0.15		43	<20	9	7323	1	32	
HP78	6044	0.02	<5	7	1012	0				10	<20	64	<100	<25	0.05		19	<20	<5	56	<0.01	13	
HP79	6045	0.07	9	22	177	0				10	<20	239	<100	<25	0.18		52	<20	10	471	0	24	
HP80	6005	0.02	<5	5	1920					95	25	211	<100	<25	0.09		17	<20	<5	>20000	3	17	
HP80	6006	0.11	9	29	29					<5	<20	230	<100	<25	0.27		68	<20	10	148		55	
HP81	6004	0.35	25	37	10					<5	<20	203	<100	<25	0.71		132	<20	13	455		117	
HP81	6007	0.13	14	32	39					11	<20	183	<100	<25	0.40		76	<20	12	149		104	
HP82	6037	0.18	12	42	104					<5	<20	68	<100	<25	0.44		98	<20	16	783		120	
HP83	6033	0.04	6	22	>10000	2				12	22	30	<100	<25	0.16		46	<20	7	2640	0	41	
HP83	6034	0.03	<5	9	6712					41	<20	15	<100	<25	0.13		21	<20	<5	86		15	
HP83	6035	0.03	<5	11	>10000	3				43	26	22	<100	<25	0.09		22	<20	<5	16334	2	20	
HP83	6036	0.03	<5	15	>10000	33				111	<20	25	<100	<25	0.04		14	<20	<5	288	0	10	
HP84	6027	0.03	<5	6	1442	0				9	<20	84	<100	<25	0.09		22	<20	<5	>20000	2	20	
HP84	6028	0.04	<5	180	>10000	36				379	<20	30	<100	<25	0.11		17	<20	6	112	0	30	
HP84	6029	0.06	<5	133	>10000	19				124	<20	64	<100	<25	0.20		31	<20	9	128	0	52	
HP84	6030	0.03	<5	8	1466					6	<20	29	<100	<25	0.07		22	<20	7	1526		18	
HP84	6031	0.03	<5	9	>10000	2				56	27	23	<100	35	0.07		17	<20	5	>20000	4	18	
HP84	6032	0.05	6	169	>10000	9				53	<20	79	<100	<25	0.24		39	<20	14	438	0	67	
HP85	6003	0.10	13	38	138					<5	<20	47	<100	<25	0.20		41	<20	12	761		53	
HP86	6002	0.03	<5	199	287					32	<20	14	<100	<25	0.05		17	<20	<5	3456		14	
HP87	6001	0.14	19	50	60					7	25	114	<100	<25	0.29		96	<20	17	2991		87	
HP87	6026	0.09	17	74	55					<5	<20	84	<100	<25	0.17		72	<20	18	2693		47	
HP88	6038	0.16	53	57	547					<5	23	17	<100	<25	0.03		17	<20	<5	618		5	
HP89	6039	0.17	14	42	114					<5	<20	97	<100	<25	0.39		81	<20	11	415		99	
HP90	6040	0.25	44	74	166					<5	32	29	<100	<25	0.09		33	<20	5	603		20	
HP91	6008	0.20	35	43	41					24	35	>2000	<100	<25	0.15		79	<20	12	9423		35	
HP92	4103	0.08	13	32	<2		<1	<5		<5	<20	122	32	<25	0.14		66	<20	22	46		25	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
HP93	4102	1991		Memorial Creek	Colville	Sandstone	Float	Select	Howard Pass	B–3	34N	06E	18	SW	Kateel River	
HP94	4101	1991		Memorial Creek	Colville	Sandstone	Float	Select	Howard Pass	B–3	34N	06E	18	SW	Kateel River	
HP95	5910	1992		Memorial Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–3	34N	5E	13	SW	Kateel River	
HP95	5911	1992		Memorial Creek	Colville	Stream sed		Stream sed	Howard Pass	B–3	34N	5E	13	SE	Kateel River	
HP95	4100	1991		Memorial Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–3	34N	05E	13	SE	Kateel River	
HP96	6047	1993	Safari Creek	Safari Creek	Colville	Sandstone	Outcrop	Select	Howard Pass	B–3	34N	05E	16	NE	Kateel River	9.07
HP96	6048	1993	Safari Creek	Safari Creek	Colville	Shale	Outcrop	Repr chip	Howard Pass	B–3	34N	05E	16	NE	Kateel River	
HP96	6049	1993	Safari Creek	Safari Creek	Colville	Shale	Rubblecrop	Select	Howard Pass	B–3	34N	05E	16	NE	Kateel River	
HP96	6050	1993	Safari Creek	Safari Creek	Colville			Stream sed	Howard Pass	B–3	34N	05E	16	NE	Kateel River	
HP96	6051	1993	Safari Creek	Safari Creek	Colville	Sandstone	Rubblecrop	Select	Howard Pass	B–3	34N	05E	16	NE	Kateel River	
HP97	4088	1991	Middle Fork	Safari Creek	Colville	Shale	Outcrop	Contin chip	Howard Pass	B–3	34N	05E	16	NE	Kateel River	
HP97	5768	1992		Safari Creek	Colville	Sandstone	Outcrop	Repr chip	Howard Pass	B–3	34N	5E	16	NE	Kateel River	
HP97	5769	1992		Safari Creek	Colville	Sandstone	Outcrop	Repr chip	Howard Pass	B–3	34N	5E	16	NE	Kateel River	1.69
HP97	5770	1992		Safari Creek	Colville	Sandstone	Outcrop	Select	Howard Pass	B–3	34N	5E	16	NE	Kateel River	19.60
HP97	5771	1992		Safari Creek	Colville	Sandstone	Float	Select	Howard Pass	B–3	34N	5E	16	NE	Kateel River	1.57
HP97	5900	1992	Safari Creek	Safari Creek	Colville	Sandstone	Outcrop	Chip channel	Howard Pass	B–3	34N	5E	16	NE	Kateel River	8.14
HP97	5901	1992	Safari Creek	Safari Creek	Colville	Sandstone	Outcrop	Chip channel	Howard Pass	B–3	34N	5E	16	NE	Kateel River	
HP97	5902	1992	Safari Creek	Safari Creek	Colville	Sandstone	Outcrop	Repr chip	Howard Pass	B–3	34N	5E	16	NE	Kateel River	
HP97	5903	1992	Safari Creek	Safari Creek	Colville	Sandstone	Outcrop	Repr chip	Howard Pass	B–3	34N	5E	16	NE	Kateel River	
HP97	5904	1992	Safari Creek	Safari Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–3	34N	5E	16	NE	Kateel River	
HP97	5905	1992	Safari Creek	Safari Creek	Colville	Volcanic (?)	Rubblecrop	Grab	Howard Pass	B–3	34N	5E	16	NE	Kateel River	
HP97	5906	1992	Safari Creek	Safari Creek	Colville	Shale	Outcrop	Repr chip	Howard Pass	B–3	34N	5E	16	NE	Kateel River	
HP97	5907	1992	Safari Creek	Safari Creek	Colville	Sandstone	Outcrop	Repr chip	Howard Pass	B–3	34N	5E	16	NE	Kateel River	4.98
HP97	5908	1992	Safari Creek	Safari Creek	Colville	Sandstone	Outcrop	Repr chip	Howard Pass	B–3	34N	5E	16	NE	Kateel River	4.76
HP97	5913	1992	Safari Creek	Safari Creek	Colville	Sandstone	Outcrop	Select	Howard Pass	B–3	34N	5E	16	NE	Kateel River	5.95
HP98	4087	1991	Middle Fork	Safari Creek	Colville	Chert	Float	Grab	Howard Pass	B–3	34N	05E	16	NE	Kateel River	
HP99	5774	1992		Safari Creek	Colville	Mafic igneous	Outcrop	Repr chip	Howard Pass	B–3	34N	5E	16	NW	Kateel River	
HP99	5775	1992		Safari Creek	Colville	Sandstone	Float	Select	Howard Pass	B–3	34N	5E	9	SW	Kateel River	
HP100	5772	1992		Safari Creek	Colville	Mudstone	Float	Grab	Howard Pass	B–3	34N	5E	16	NW	Kateel River	0.10
HP101	5765	1992		Safari Creek	Colville	Ironstone con	Float	Grab	Howard Pass	B–3	34N	5E	21	NE	Kateel River	
HP102	5766	1992		Safari Creek	Colville	Chert	Outcrop	Grab	Howard Pass	B–3	34N	5E	21	NW	Kateel River	
HP102	5767	1992		Safari Creek	Colville	Mudstone	Outcrop	Repr chip	Howard Pass	B–3	34N	5E	21	NW	Kateel River	
HP102	5893	1992		Safari Creek	Colville	Mudstone	Outcrop	Repr chip	Howard Pass	B–3	34N	5E	21	NW	Kateel River	
HP102	5894	1992		Safari Creek	Colville	Shale	Outcrop	Repr chip	Howard Pass	B–3	34N	5E	21	NW	Kateel River	
HP102	5895	1992		Safari Creek	Colville	Shale	Rubblecrop	Repr chip	Howard Pass	B–3	34N	5E	21	NW	Kateel River	
HP102	5896	1992		Safari Creek	Colville	Stream sed		Stream sed	Howard Pass	B–3	34N	5E	21	NW	Kateel River	
HP103	5899	1992	Safari Creek	Safari Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–3	34N	5E	16	SW	Kateel River	
HP104	5897	1992	Safari Creek	Safari Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–3	34N	5E	16	NW	Kateel River	
HP104	5898	1992	Safari Creek	Safari Creek	Colville	Siltstn/sandstn	Float	Grab	Howard Pass	B–3	34N	5E	16	NW	Kateel River	0.05
HP104	5909	1992	Safari Creek	Safari Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–3	34N	5E	16	NW	Kateel River	
HP103	4089	1991	Middle Fork	Safari Creek	Colville	Chert	Float	Grab	Howard Pass	B–3	34N	05E	16	SW	Kateel River	
HP105	5776	1992		Safari Creek	Colville	Stream sed		Stream sed	Howard Pass	B–3	34N	5E	9	SW	Kateel River	
HP106	4085	1991		Safari Creek	Colville	Shale	Outcrop	Select	Howard Pass	B–4	12S	26W	26	SE	Umiat	
HP107	4045	1991		Safari Creek	Colville	Shale	Float	Grab	Howard Pass	B–4	12S	26W	26	SE	Umiat	
HP108	4044	1991		Safari Creek	Colville	Shale	Float	Grab	Howard Pass	B–4	12S	26W	26	NE	Umiat	
HP109	4066	1991		Safari Creek	Colville	Shale	Outcrop	Grab	Howard Pass	B–4	12S	26W	26	NE	Umiat	
HP110	5792	1992	Story Creek West	Story Creek	Colville	Siltstone brec	Float	Select	Howard Pass	B–4	12S	26W	27	NE	Umiat	0.72
HP110	5793	1992	Story Creek West	Story Creek	Colville	Siltstone brec	Rubblecrop	Select	Howard Pass	B–4	12S	26W	27	NE	Umiat	0.50
HP110	5923	1992	Story Creek West	Story Creek	Colville	Quartz vein	Float	Grab	Howard Pass	B–4	12S	26W	27	NE	Umiat	3.03
HP111	5773	1992	Story Creek	Story Creek	Colville	Siltstone brec	Float	Select	Howard Pass	B–3	12S	26W	27	NW	Umiat	0.14
HP111	5777	1992	Story Creek West	Story Creek	Colville	Siltstone	Rubblecrop	Grab	Howard Pass	B–4	12S	26W	27	NW	Umiat	0.11
HP111	5778	1992	Story Creek West	Story Creek	Colville	Siltstone brec	Float	Select	Howard Pass	B–4	12S	26W	27	NW	Umiat	0.32
HP111	5779	1992	Story Creek West	Story Creek	Colville	Siltstone brec	Float	Select	Howard Pass	B–4	12S	26W	27	NW	Umiat	0.17
HP111	5780	1992	Story Creek West	Story Creek	Colville	Siltstone brec	Float	Select	Howard Pass	B–4	12S	26W	27	NW	Umiat	0.40
HP111	5781	1992	Story Creek West	Story Creek	Colville	Siltstone brec	Float	Select	Howard Pass	B–4	12S	26W	27	NW	Umiat	0.12
HP111	5782	1992	Story Creek West	Story Creek	Colville	Siltstone brec	Float	Select	Howard Pass	B–4	12S	26W	27	NW	Umiat	
HP111	5914	1992	Story Creek West	Story Creek	Colville	Breccia	Float	Select	Howard Pass	B–4	12S	26W	27	NW	Umiat	1.54
HP111	5916	1992	Story Creek West	Story Creek	Colville	Siltstone brec	Float	Grab	Howard Pass	B–4	12S	26W	27	NW	Umiat	0.28

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
HP93	4102	<0.5	2.32	8	<1	203			<5	0.70	<2.0	28	149		29		>10.00	<10	0.39	16	13	0.72	7381		3
HP94	4101	<0.5	2.29	28	1	171			<5	1.26	<2.0	37	129		14		>10.00	<10	0.45	20	12	0.77	8381		2
HP95	5910	<0.5	2.37	18	5	104			12	>10.00	<2.0	18	149		6		7.82	11	0.51	12	16	3.82	2812		<1
HP95	5911	<0.5	4.44	23	9	473			<5	0.11	<2.0	25	104		40		5.25	22	1.38	6	32	0.23	1236		<1
HP95	4100	<0.5	3.30	16	<1	233			<5	0.06	<2.0	10	158		33		3.1	<10	0.84	15	18	0.16	737		1
HP96	6047	50.0	0.51	27		17			41	0.05	89.8	31	132		507		0.26	<10	0.20	<5	7	0.02	33		22
HP96	6048	<0.5	3.79	16		557			<5	0.35	<2.0	8	219		33		2.8	12	0.80	25	95	0.40	687		6
HP96	6049	<0.5	3.23	29		372			8	1.98	<2.0	15	249		21		7.54	14	0.59	21	140	1.27	1405		6
HP96	6050	<0.5	4.20	27		493			6	0.14	<2.0	18	100		32		3.72	12	0.83	15	29	0.21	702		5
HP96	6051	<0.5	1.21	<5		280			<5	0.19	<2.0	5	350		13		1.28	<10	0.45	12	17	0.06	289		3
HP97	4088	<0.5	2.82	<5	<1	240			<5	0.63	<2.0	13	159		19		>10.00	<10	0.45	22	60	1.06	4294		1
HP97	5768	<0.5	2.27	46	6	353			<5	0.11	<2.0	6	328		8		2.27	<10	0.61	16	109	0.10	517		<1
HP97	5769	>50.0	1.12	38	39	203			64	0.39	310.6	26	261		334		0.51	22	0.42	<5	17	0.06	440		39
HP97	5770	>50.0	0.40	54	34	<5			61	0.01	355.5	17	202		1156		0.46	20	0.15	<5	8	0.01	29		37
HP97	5771	>50.0	1.28	12	101	58			20	0.07	100.3	9	414		171		1.15	<10	0.43	6	23	0.09	244		11
HP97	5900	>50.0	0.89	76	67	8			68	0.01	347.1	21	351		925		0.64	22	0.34	<5	17	0.02	50		50
HP97	5901	15.9	0.96	37	14	44			15	0.19	69.5	10	425		92		0.43	<10	0.35	5	20	0.05	189		12
HP97	5902	13.8	1.06	46	8	89			7	0.20	60.7	9	471		74		0.45	<10	0.41	7	22	0.03	142		12
HP97	5903	34.7	1.35	53	22	102			48	0.14	179.2	15	456		185		0.51	16	0.54	7	19	0.04	227		21
HP97	5904	<0.5	5.19	29	6	562			<5	0.35	<2.0	41	222		34		>10.00	25	1.30	19	102	1.12	4502		3
HP97	5905	<0.5	3.89	<5	4	172			24	>10.00	<2.0	49	153		44		9.17	29	0.12	86	79	6.73	1995		<1
HP97	5906	<0.5	2.22	22	5	160			<5	1.89	<2.0	34	177		18		>10.00	13	0.42	23	67	2.38	2952		<1
HP97	5907	>50.0	0.96	36	33	13			34	0.33	169.5	14	228		315		0.68	14	0.30	<5	14	0.25	126		20
HP97	5908	>50.0	0.82	40	61	12			51	0.03	270	13	375		523		0.6	20	0.31	<5	14	0.03	101		30
HP97	5913	>50.0	0.54	69	59	<5			85	0.03	432.7	47	185		2629		0.66	15	0.20	<5	16	0.01	21		60
HP98	4087	0.9	1.52	55	2	226			30	0.76	<2.0	21	72		41		>10.00	20	0.46	<5	31	2.51	7327		10
HP99	5774	<0.5	3.89	20	2	821			29	7.50	<2.0	68	468		69		7.85	23	0.91	63	43	>10.00	1322		<1
HP99	5775	<0.5	1.12	31	4	226			<5	0.03	<2.0	7	331		8		0.99	<10	0.28	9	31	0.06	134		<1
HP100	5772	2.6	1.19	21	2	>2000			<5	0.16	<2.0	8	374		39		1.19	<10	0.35	<5	61	0.20	241		<1
HP101	5765	<0.5	2.09	9	3	187			<5	0.62	<2.0	14	28		14		>10.00	18	0.82	<5	70	2.26	7494		2
HP102	5766	0.9	0.22	23	2	302			<5	0.88	<2.0	4	535		11		0.51	<10	0.06	13	9	0.14	139		<1
HP102	5767	0.9	2.29	33	3	452			<5	0.19	<2.0	4	260		22		0.93	<10	1.02	16	13	0.21	22		<1
HP102	5893	<0.5	3.69	35	<1	53			8	0.20	<2.0	14	82		25		2	14	1.45	8	16	0.77	824		2
HP102	5894	<0.5	5.37	56	4	401			10	0.34	<2.0	8	324		32		2.37	15	1.69	17	14	0.43	25		2
HP102	5895	0.6	5.98	46	2	537			<5	0.14	<2.0	<1	211		11		1.05	17	1.75	20	30	0.27	31		<1
HP102	5896	0.6	2.02	34	3	113			6	0.27	<2.0	12	65		40		1.31	<10	0.68	<5	25	0.31	509		<1
HP103	5899	<0.5	1.12	23	<1	246			7	0.25	<2.0	9	359		7		1.95	<10	0.32	10	14	0.17	404		<1
HP104	5897	<0.5	3.19	45	5	193			24	>10.00	<2.0	54	536		50		6.47	17	0.41	40	27	6.70	1324		<1
HP104	5898	<0.5	1.15	20	2	146			<5	0.56	<2.0	13	58		11		>10.00	12	0.24	<5	54	1.80	5706		<1
HP104	5909	<0.5	4.26	27	3	228			<5	0.58	<2.0	23	289		30		4.24	17	1.24	17	27	0.59	797		<1
HP103	4089	<0.5	1.99	34	36	283			<5	0.61	33.8	38	70		37		>10.00	<10	0.66	<5	17	1.91	7487		3
HP105	5776	<0.5	4.52	30	4	493			<5	0.12	<2.0	22	113		29		4.3	21	1.69	8	54	0.23	1025		<1
HP106	4085	0.9	0.98	<5	11	125			<5	7.11	<2.0	34	42		25		>10.00	<10	0.27	<5	20	3.79	4098		4
HP107	4045	1.6	1.19	<5	1	175			<5	4.28	<2.0	15	30		15		>10.00	<10	0.35	<5	20	3.55	3546		5
HP108	4044	1.8	1.33	<5	3	145			<5	1.18	<2.0	18	27		13		>10.00	<10	0.53	<5	14	2.87	7793		4
HP109	4066	<0.5	1.64	<5	<1	220			<5	1.71	<2.0	4	67		7		>10.00	<10	0.44	<5	29	2.08	5331		2
HP110	5792	22.5	1.04	65	17	78			<5	0.04	23.5	8	352		27		3.08	<10	0.21	<5	26	0.12	781		<1
HP110	5793	15.4	1.05	59	41	115			<5	<0.01	29.1	3	298		360		0.88	<10	0.34	<5	72	0.03	35		<1
HP110	5923	>50.0	1.50	238	31	60			<5	0.03	<2.0	11	320		7		2.87	<10	0.27	<5	79	0.08	895		<1
HP111	5773	4.3	1.79	85	23	120			<5	0.11	31.6	11	343		226		3.39	<10	0.48	9	87	0.13	898		<1
HP111	5777	3.4	0.98	77	26	79			<5	0.07	5.3	5	347		34		1.21	<10	0.27	<5	75	0.18	115		<1
HP111	5778	10.6	2.16	90	22	22			81	0.04	579.1	39	297		118		3.25	20	0.78	<5	59	0.12	373		61
HP111	5779	5.2	0.64	165	45	293			<5	<0.01	8.5	5	427		84		1.14	11	0.14	<5	83	0.02	50		2
HP111	5780	14.2	1.42	335	60	29			27	<0.01	185.1	15	379		530		1.67	20	0.45	<5	67	0.05	55		15
HP111	5781	4.0	1.83	403	24	42			23	0.01	135.1	15	420		45		1.44	15	0.60	10	75	0.07	95		21
HP111	5782	18.8	1.41	58	59	106			5	<0.01	74.4	7	372		1366		1.17	<10	0.43	<5	85	0.04	49		5
HP111	5914	49.5	1.62	35	94	114			<5	0.02	<2.0	2	292		267		1.58	<10	0.49	6	60	0.04	111		<1
HP111	5916	8.3	1.38	77	35	163			7	<0.01	39.9	11	324		955		1.53	13	0.38	<5	76	0.03	82		5

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
HP93	4102	0.07	8	92	<2		<1	<5		<5	<20	97	80	<25	0.14		86	<20	25	69		29	
HP94	4101	0.10	6	108	<2		<1	<5		<5	<20	128	26	<25	0.15		79	<20	47	72		38	
HP95	5910	0.07	7	27	377		1	9		<5	<20	141	<100	<25	0.19		61	<20	17	204		36	
HP95	5911	0.27	12	62	58		3	<5		<5	<20	107	<100	<25	0.51		129	<20	11	119		94	
HP95	4100	0.11	7	43	<2		<1	<5		8	<20	117	13	<25	0.29		92	<20	11	54		50	
HP96	6047	0.03	<5	67	>10000	53				124	<20	11	<100	<25	0.05		9	<20	<5	19573	2	10	
HP96	6048	0.20	<5	39	661					<5	<20	67	<100	<25	0.28		57	<20	13	281		79	
HP96	6049	0.18	13	51	270					<5	<20	83	<100	<25	0.24		63	<20	18	459		67	
HP96	6050	0.25	12	50	82					<5	<20	99	<100	<25	0.43		102	<20	13	229		96	
HP96	6051	0.03	<5	15	379					5	<20	25	<100	<25	0.12		23	<20	5	572		24	
HP97	4088	0.13	7	61	9		<1	6		<5	<20	76	33	<25	0.20		72	<20	24	360		59	
HP97	5768	0.06	<5	11	102		<1	<5		<5	<20	100	<100	<25	0.14		45	<20	9	53		35	
HP97	5769	0.04	<5	28	>10000	5.83	<1	<5		70	<20	58	<100	29	0.09		19	<20	6	>20000	8.47	18	
HP97	5770	0.02	<5	42	>10000	45.89	<1	6		1930	<20	4	<100	37	0.03		5	<20	<5	>20000	6.42	8	
HP97	5771	0.04	<5	21	>10000	6.93	<1	<5		23	<20	25	<100	<25	0.11		24	<20	7	>20000	2.27	23	
HP97	5900	0.03	<5	41	>10000	25.21	<1	<5		254	29	10	<100	44	0.08		15	<20	<5	>20000	8.47	17	
HP97	5901	0.03	<5	15	>10000	2.87	<1	8		<5	<20	45	<100	<25	0.07		18	<20	<5	18390		16	
HP97	5902	0.03	<5	11	>10000	2.15	<1	6		26	<20	45	<100	<25	0.07		20	<20	<5	14685		17	
HP97	5903	0.03	<5	21	>10000	3.75	<1	17		49	24	45	<100	<25	0.13		26	<20	6	>20000	4.41	28	
HP97	5904	0.41	14	85	225		<1	7		<5	26	68	<100	<25	0.34		110	<20	16	519		79	
HP97	5905	0.26	48	171	174		2	<5		<5	51	810	<100	<25	1.61		243	<20	18	434		149	
HP97	5906	0.12	9	73	78		<1	5		<5	<20	77	<100	<25	0.18		59	<20	42	285		51	
HP97	5907	0.03	<5	32	>10000	23.38	<1	14		51	32	27	<100	<25	0.11		21	<20	<5	>20000	4.60	17	
HP97	5908	0.03	<5	24	>10000	13.82	<1	10		15	<20	11	<100	<25	0.05		16	<20	<5	>20000	6.33	12	
HP97	5913	0.03	<5	60	>10000	27.00	7	9		325	44	5	<100	40	0.04		8	<20	<5	>20000	11.93	9	
HP98	4087	0.28	14	82	47		<1	<5		<5	46	32	57	<25	0.06		49	<20	12	1601		19	
HP99	5774	0.31	56	629	51		2	8		<5	34	614	<100	<25	1.07		220	<20	13	114		103	
HP99	5775	0.03	<5	19	91		<1	<5		<5	<20	24	<100	<25	0.08		25	<20	<5	165		21	
HP100	5772	0.15	<5	22	1822	0.17	<1	<5		<5	<20	389	<100	<25	0.05		25	<20	<5	281	0.02	21	
HP101	5765	0.72	23	49	18		3	7		<5	<20	30	<100	31	0.09		35	<20	6	60		33	
HP102	5766	0.04	<5	31	11		4	25		<5	<20	68	<100	<25	<0.01		21	<20	25	75		<5	
HP102	5767	0.16	<5	53	11		7	9		<5	<20	55	<100	<25	0.11		130	<20	15	115		25	
HP102	5893	0.30	6	47	11		2	<5		<5	<20	123	<100	<25	0.24		88	<20	10	119		53	
HP102	5894	0.33	7	112	<2		8	7		<5	<20	55	<100	<25	0.23		130	<20	25	303		50	
HP102	5895	0.34	8	41	6		4	<5		<5	<20	95	<100	<25	0.25		123	<20	5	18		55	
HP102	5896	0.37	<5	63	16		4	<5		<5	<20	47	<100	<25	0.09		92	<20	<5	488		23	
HP103	5899	0.03	<5	25	13		1	5		<5	<20	31	<100	<25	0.06		43	<20	8	9		<5	
HP104	5897	0.22	51	601	12		2	5		<5	<20	317	<100	<25	0.92		181	<20	7	86		89	
HP104	5898	0.18	15	64	673	0.08	2	<5		<5	<20	16	<100	<25	0.04		31	<20	<5	61	<0.01	8	
HP104	5909	0.23	10	50	758		<1	10		<5	<20	92	<100	<25	0.40		95	<20	10	165		80	
HP103	4089	0.37	6	122	25		<1	<5		<5	<20	31	53	<25	0.10		40	<20	8	3230		27	
HP105	5776	0.28	14	50	26		<1	<5		<5	<20	90	<100	<25	0.54		123	<20	11	104		108	
HP106	4085	0.05	16	78	15		6	24		<5	42	47	79	<25	0.06		46	23	13	241		26	
HP107	4045	0.28	23	55	27		3	<5		<5	26	50	23	<25	0.10		46	<20	13	121		30	
HP108	4044	0.48	31	77	13		<1	5		<5	39	46	63	<25	0.09		36	<20	18	85		38	
HP109	4066	0.28	6	24	12		<1	<5		<5	<20	95	28	<25	0.09		54	<20	11	141		22	
HP110	5792	0.03	<5	21	>10000	1.46	6	6		8	<20	15	<100	<25	0.09		23	<20	<5	5819	0.58	30	
HP110	5793	0.04	<5	6	>10000	1.08	5	11		9	<20	12	<100	<25	0.06		15	<20	<5	5653	0.52	15	
HP110	5923	0.04	<5	602	>10000	6.94	7	9		43	<20	13	<100	<25	0.08		14	<20	<5	440	0.04	26	
HP111	5773	0.04	<5	49	3581	0.33	<1	<5		12	<20	21	<100	<25	0.13		40	<20	8	6735	0.58	29	
HP111	5777	0.03	<5	14	208	0.01	<1	8		<5	<20	15	<100	<25	0.08		18	<20	<5	1800	0.16	20	
HP111	5778	0.07	<5	9	7729	0.74	<1	<5		76	60	21	<100	67	0.16		40	<20	8	>20000	11.01	34	
HP111	5779	0.03	<5	12	500	0.05	<1	<5		13	22	8	<100	<25	0.04		9	<20	<5	1620	0.15	9	
HP111	5780	0.04	<5	81	1537	0.15	<1	6		37	33	11	<100	<25	0.09		18	<20	<5	>20000	3.20	20	
HP111	5781	0.05	<5	54	372	0.03	<1	5		34	<20	22	<100	<25	0.17		33	<20	7	>20000	2.56	45	
HP111	5782	0.04	<5	20	>10000	1.18	<1	5		7	<20	9	<100	<25	0.07		18	<20	<5	10995		14	
HP111	5914	0.06	<5	9	>10000	2.81	7	10		18	<20	17	<100	<25	0.11		23	<20	<5	857	0.08	25	
HP111	5916	0.04	<5	23	1129	0.11	8	10		19	37	11	<100	<25	0.07		18	<20	<5	7765	0.72	14	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
HP111	5917	1992	Story Creek West	Story Creek	Colville	Siltstone brec	Float	Grab	Howard Pass	B–4	12S	26W	27	NW	Umiat	0.28
HP111	5918	1992	Story Creek West	Story Creek	Colville	Silicious gossan	Float	Select	Howard Pass	B–4	12S	26W	27	NW	Umiat	1.16
HP111	5919	1992	Story Creek West	Story Creek	Colville	Quartz vein	Float	Grab	Howard Pass	B–4	12S	26W	27	NW	Umiat	0.18
HP111	5920	1992	Story Creek West	Story Creek	Colville	Breccia	Float	Select	Howard Pass	B–4	12S	26W	27	NW	Umiat	0.20
HP112	5253	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5254	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5255	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5256	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5257	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5258	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5259	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5260	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5261	1991	Story Creek	Story Creek	Colville	Shale breccia	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5262	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5263	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5264	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5291	1991	Story Creek	Story Creek	Colville	Sandstone	Rubblecrop	Select	Howard Pass	B–4	12S	26W	23	SW	Umiat	<0.02
HP112	5292	1991	Story Creek	Story Creek	Colville	Sandstone	Outcrop	Contin chip	Howard Pass	B–4	12S	26W	23	SW	Umiat	<0.02
HP112	5293	1991	Story Creek	Story Creek	Colville	Sandstone	Rubblecrop	Random chip	Howard Pass	B–4	12S	26W	23	SW	Umiat	0.11
HP112	5294	1991	Story Creek	Story Creek	Colville	Sulfides	Float	Select	Howard Pass	B–4	12S	26W	23	SW	Umiat	20.29
HP112	5295	1991	Story Creek	Story Creek	Colville	Sandstone	Outcrop	Contin chip	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5296	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	0.02
HP112	5297	1991	Story Creek	Story Creek	Colville	Mudstone	Rubblecrop	Random chip	Howard Pass	B–4	12S	26W	23	SW	Umiat	0.22
HP112	5298	1991	Story Creek	Story Creek	Colville	Mudstone	Rubblecrop	Random chip	Howard Pass	B–4	12S	26W	23	SW	Umiat	0.02
HP112	5299	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5300	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5401	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	0.02
HP112	5402	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5403	1991	Story Creek	Story Creek	Colville	Shale	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5404	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5405	1991	Story Creek	Story Creek	Colville	Shale	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5406	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5407	1991	Story Creek	Story Creek	Colville	Shale	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5408	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5409	1991	Story Creek	Story Creek	Colville	Shale	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5410	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5411	1991	Story Creek	Story Creek	Colville	Siltstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5412	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5413	1991	Story Creek	Story Creek	Colville	Shale	Rubblecrop	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5414	1991	Story Creek	Story Creek	Colville	Shale	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5415	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5416	1991	Story Creek	Story Creek	Colville	Shale	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	0.03
HP112	5417	1991	Story Creek	Story Creek	Colville	Shale	Outcrop	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5418	1991	Story Creek	Story Creek	Colville	Shale	Outcrop	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5419	1991	Story Creek	Story Creek	Colville	Shale	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5420	1991	Story Creek	Story Creek	Colville	Siltstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5421	1991	Story Creek	Story Creek	Colville	Siltstone	Float	Select	Howard Pass	B–4	12S	26W	23	SW	Umiat	0.93
HP112	5422	1991	Story Creek	Story Creek	Colville	Siltstone	Float	Select	Howard Pass	B–4	12S	26W	23	SW	Umiat	0.61
HP112	5423	1991	Story Creek	Story Creek	Colville	Siltstone	Float	Select	Howard Pass	B–4	12S	26W	23	SW	Umiat	0.20
HP112	5424	1991	Story Creek	Story Creek	Colville	Siltstone	Float	Select	Howard Pass	B–4	12S	26W	23	SW	Umiat	0.02
HP112	5425	1991	Story Creek	Story Creek	Colville	Siltstone	Rubblecrop	Select	Howard Pass	B–4	12S	26W	23	SW	Umiat	1.76
HP112	5426	1991	Story Creek	Story Creek	Colville	Sulfides	Rubblecrop	Contin chip	Howard Pass	B–4	12S	26W	23	SW	Umiat	3.46
HP112	5427	1991	Story Creek	Story Creek	Colville	Sulfides	Rubblecrop	Contin chip	Howard Pass	B–4	12S	26W	23	SW	Umiat	13.13
HP112	5428	1991	Story Creek	Story Creek	Colville	Sulfides	Rubblecrop	Contin chip	Howard Pass	B–4	12S	26W	23	SW	Umiat	3.54
HP112	5429	1991	Story Creek	Story Creek	Colville	Sulfides	Rubblecrop	Contin chip	Howard Pass	B–4	12S	26W	23	SW	Umiat	1.12
HP112	5430	1991	Story Creek	Story Creek	Colville	Sulfides	Rubblecrop	Contin chip	Howard Pass	B–4	12S	26W	23	SW	Umiat	1.89
HP112	5431	1991	Story Creek	Story Creek	Colville	Siltstone	Outcrop	Contin chip	Howard Pass	B–4	12S	26W	23	SW	Umiat	0.06
HP112	5432	1991	Story Creek	Story Creek	Colville	Sulfides	Float	Select	Howard Pass	B–4	12S	26W	23	SW	Umiat	8.00

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
HP111	5917	8.1	1.31	68	27	145			<5	0.01	30.3	10	344		1304		2.36	13	0.41	<5	58	0.04	347		1
HP111	5918	34.7	0.94	32	186	43			11	<0.01	64.2	7	347		142		1.95	44	0.28	<5	54	0.02	40		12
HP111	5919	4.1	2.73	65	15	203			<5	0.01	3.4	8	247		45		3.75	12	1.04	10	44	0.08	505		<1
HP111	5920	5.0	2.27	39	29	200			<5	0.01	28.4	5	284		79		1.98	14	0.80	12	54	0.06	320		3
HP112	5253	<0.5	2.40	12	2	174			<5	0.84	<2.0	8	303		25		3.11	<10	0.42	20	34	0.22	1026		2
HP112	5254	<0.5	4.55	46	4	492			<5	0.09	<2.0	12	102		35		2.92	20	0.63	23	67	0.26	632		16
HP112	5255	<0.5	2.49	<5	2	170			<5	0.03	<2.0	10	318		22		3.68	<10	0.48	9	31	0.10	687		<1
HP112	5256	<0.5	4.50	<5	3	634			<5	0.06	<2.0	5	116		31		2.59	21	1.01	27	85	0.28	375		7
HP112	5257	<0.5	2.20	29	1	116			<5	0.10	<2.0	16	296		20		5.35	<10	0.28	9	31	0.17	935		2
HP112	5258	<0.5	4.40	21	2	515			<5	0.06	<2.0	10	103		32		2.85	20	0.64	20	70	0.24	702		4
HP112	5259	<0.5	2.40	<5	1	162			<5	0.03	<2.0	15	296		19		4.9	<10	0.34	10	36	0.10	921		<1
HP112	5260	<0.5	4.11	21	1	482			<5	0.04	<2.0	10	100		34		2.75	17	0.62	20	67	0.22	484		<1
HP112	5261	2.1	3.34	61	3	306			<5	0.10	5.2	4	253		29		1.94	10	0.63	37	55	0.13	315		112
HP112	5262	1.0	4.42	19	2	513			<5	0.05	<2.0	13	101		34		2.91	18	0.99	22	64	0.22	754		<1
HP112	5263	<0.5	3.94	<5	3	565			<5	0.06	8.4	9	251		22		2.72	14	0.64	29	49	0.16	722		20
HP112	5264	4.1	4.57	32	273	614			<5	0.07	<2.0	20	106		45		3.31	19	0.51	15	73	0.26	1343		3
HP112	5291	<0.5	3.14	6	1	377			7	0.08	21.3	4	251		20		2.61	13	0.70	24	42	0.20	864		15
HP112	5292	<0.5	4.31	39	2	717			6	0.24	18.6	10	218		30		5.88	12	0.71	27	57	0.33	2055		11
HP112	5293	3.7	2.45	11	6	540			6	0.05	46.9	2	225		28		3.14	<10	0.63	19	36	0.18	928		13
HP112	5294	>50.0	1.33	101	705	118			113	0.01	1288.8	66	112		374		3.05	27	0.14	<5	21	0.03	113		109
HP112	5295	<0.5	4.36	9	5	794			7	0.27	17.3	10	230		24		6.58	16	0.70	33	57	0.52	2287		8
HP112	5296	3.1	3.72	15	6	1038			11	0.19	36	6	268		27		5.25	14	0.63	23	58	0.31	1526		8
HP112	5297	7.0	3.22	<5	3	494			7	0.04	12.2	<1	200		20		2.33	12	0.53	22	39	0.10	649		5
HP112	5298	2.0	3.15	14	2	560			<5	0.06	13.2	<1	213		9		2.98	<10	0.49	23	35	0.12	932		5
HP112	5299	<0.5	3.43	29	2	226			<5	0.04	<2.0	9	230		23		3.26	10	0.55	28	36	0.13	447		55
HP112	5300	<0.5	4.70	<5	70	610			<5	0.04	<2.0	16	109		31		2.95	21	0.60	15	89	0.26	731		<1
HP112	5401	2.2	3.51	<5	3	321			<5	0.09	7.3	4	191		55		4.73	<10	0.59	21	40	0.15	844		14
HP112	5402	14.6	4.51	8	55	549			<5	0.02	<2.0	22	113		72		2.91	23	0.54	11	85	0.23	1223		4
HP112	5403	0.5	3.02	<5	1	915			<5	0.03	4.2	6	179		34		3.96	<10	0.58	14	42	0.10	516		9
HP112	5404	<0.5	4.04	<5	743	650			<5	0.03	24.3	39	98		37		2.72	19	0.39	13	62	0.20	2150		3
HP112	5405	<0.5	3.27	<5	<1	252			<5	0.04	<2.0	6	201		18		3.34	<10	0.59	14	41	0.12	470		6
HP112	5406	<0.5	4.27	25	178	635			<5	0.04	<2.0	23	105		37		2.47	21	0.63	16	68	0.23	1154		2
HP112	5407	3.0	2.39	28	4	617			<5	0.02	<2.0	3	262		18		3.34	11	0.41	13	50	0.09	397		6
HP112	5408	0.5	4.42	50	11	570			<5	0.04	10.6	32	110		52		3.32	21	0.70	11	76	0.23	1645		<1
HP112	5409	<0.5	2.98	<5	1	283			<5	0.07	2.3	15	187		18		5.97	<10	0.42	16	46	0.13	1286		3
HP112	5410	<0.5	4.09	18	<1	668			<5	0.03	3.7	22	98		44		3.21	13	0.60	10	81	0.23	806		<1
HP112	5411	3.7	2.54	13	6	448			<5	0.03	<2.0	1	221		15		1.75	12	0.52	16	38	0.09	327		1
HP112	5412	1.2	3.41	31	3	1464			<5	0.04	6.2	20	89		51		2.89	15	0.65	14	50	0.22	937		1
HP112	5413	<0.5	2.97	9	<1	306			6	0.03	<2.0	6	237		14		3.08	10	0.51	21	31	0.09	823		3
HP112	5414	1.7	3.14	9	2	1979			<5	0.06	6.5	3	227		25		4.28	<10	0.79	16	42	0.09	852		5
HP112	5415	1.3	4.05	<5	10	701			<5	0.03	12.1	27	107		54		3.76	16	0.77	11	78	0.20	1401		2
HP112	5416	<0.5	2.82	16	1	361			<5	0.07	7.1	10	218		12		4.09	11	0.52	15	51	0.13	1283		5
HP112	5417	<0.5	4.65	<5	4	346			<5	0.06	<2.0	16	218		28		5.87	12	0.85	25	58	0.19	1003		2
HP112	5418	<0.5	3.73	<5	2	304			<5	0.30	<2.0	13	211		16		3.96	12	0.64	31	41	0.21	700		3
HP112	5419	<0.5	3.36	<5	1	244			6	0.17	<2.0	16	240		11		6.03	<10	0.55	20	49	0.15	990		1
HP112	5420	<0.5	3.73	<5	<1	296			<5	0.18	<2.0	20	180		16		7.13	<10	0.58	19	49	0.26	1474		3
HP112	5421	28.3	2.24	26	23	553			<5	0.10	24.9	11	170		27		6.42	<10	0.51	10	42	0.20	2225		5
HP112	5422	20.0	1.97	81	22	332			<5	0.03	7.6	2	288		34		1.56	<10	0.45	14	50	0.07	360		<1
HP112	5423	4.7	2.54	<5	11	728			<5	0.21	12.2	2	231		101		5.56	<10	0.59	16	48	0.11	1135		6
HP112	5424	<0.5	3.36	<5	2	276			<5	0.12	13.4	13	223		17		4.35	<10	0.56	22	46	0.14	893		4
HP112	5425	>50.0	0.81	<5	84	597			17	<0.01	71.6	3	332		118		1.23	11	0.17	<5	62	0.02	68		17
HP112	5426	>50.0	1.40	97	59	390			60	0.04	466.6	11	171		223		2.46	25	1.20	12	72	0.10	425		112
HP112	5427	>50.0	0.16	192	216	74			208	<0.01	>2000	84	99		886		2.67	58	0.04	<5	4	<0.01	33		233
HP112	5428	>50.0	1.65	54	131	471			36	0.01	247.8	9	244		128		1.95	20	1.02	7	71	0.09	205		46
HP112	5429	34.4	3.18	36	49	694			15	0.06	59.6	4	270		78		2.66	15	1.01	14	91	0.15	422		13
HP112	5430	>50.0	2.21	<5	98	172			17	0.05	85.9	4	230		51		2.7	13	0.89	9	69	0.13	634		17
HP112	5431	3.0	4.81	21	5	1099			17	0.11	60.2	8	167		17		4.92	13	1.18	26	66	0.46	1469		11
HP112	5432	>50.0	0.31	224	86	75			247	<0.01	>2000	82	85		359		2.81	19	0.07	<5	5	0.01	50		311

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
HP111	5917	0.04	<5	34	1983	0.20	6	9		8	33	13	<100	<25	0.09		21	<20	<5	5826	0.53	19	
HP111	5918	0.03	<5	7	4195	0.43	8	9		5	90	8	<100	<25	0.05		14	<20	<5	17160	1.75	11	
HP111	5919	0.10	<5	29	919	0.09	9	11		7	<20	26	<100	<25	0.22		49	<20	6	2048	0.19	44	
HP111	5920	0.07	<5	15	1142	0.11	7	6		10	<20	23	<100	<25	0.17		38	<20	6	7594	0.72	40	
HP112	5253	0.12	12	35	20		1	11		<5	<20	41	<5	<25	0.37		65	<20	13	106		147	
HP112	5254	0.43	71	44	24		1	13		<5	<20	71	<5	<25	0.63		132	<20	17	72		613	
HP112	5255	0.16	11	30	13		1	7		<5	<20	36	<5	<25	0.30		59	<20	8	77		94	
HP112	5256	0.48	48	46	18		<1	12		<5	<20	87	<5	<25	0.75		164	<20	17	54		166	
HP112	5257	0.11	9	51	20		1	13		<5	<20	27	<5	<25	0.20		52	<20	8	111		68	
HP112	5258	0.42	40	60	16		1	11		<5	<20	70	<5	<25	0.71		133	<20	15	61		158	
HP112	5259	0.11	8	50	325		1	11		<5	<20	27	<5	<25	0.23		57	<20	6	281		72	
HP112	5260	0.38	38	46	29		1	16		<5	<20	72	<5	<25	0.75		127	<20	15	224		158	
HP112	5261	0.21	7	33	444		<1	9		64	<20	53	<5	<25	0.32		86	<20	12	1775		70	
HP112	5262	0.39	39	37	334		<1	14		<5	<20	73	<5	<25	0.73		124	<20	16	356		163	
HP112	5263	0.26	10	29	427		2	17		24	<20	60	<5	<25	0.43		96	<20	11	1773		98	
HP112	5264	0.45	38	41	1702		<1	10		19	<20	73	<5	<25	0.76		136	<20	12	401		162	
HP112	5291	0.21	10	11	803	0.09	1	10		<5	<20	51	<5	<25	0.42		85	<20	10	5252	0.52	89	
HP112	5292	0.36	13	26	1206	0.13	<1	12		10	<20	63	<5	<25	0.46		115	<20	18	4844	0.49	104	
HP112	5293	0.15	8	6	2001	0.21	<1	12		42	<20	52	<5	<25	0.37		77	<20	7	7852	0.81	79	
HP112	5294	0.05	<5	103	>10000	30.03	4	20		880	118	10	<5	30	0.06		18	<20	<5	>20000	18.94	15	
HP112	5295	0.35	12	33	1274		<1	9		13	29	75	<5	<25	0.48		128	<20	20	3751		116	
HP112	5296	0.28	11	23	2675	0.32	1	8		45	<20	58	<5	<25	0.40		97	<20	16	5674	0.55	95	
HP112	5297	0.20	10	4	8666	0.95	2	7		55	<20	52	<5	<25	0.41		81	<20	9	4113	0.44	88	
HP112	5298	0.22	10	9	3109	0.33	1	8		33	<20	56	<5	<25	0.39		78	<20	9	3887	0.40	100	
HP112	5299	0.22	6	27	77		1	11		<5	<20	50	<5	<25	0.30		79	<20	9	212		69	
HP112	5300	0.34	36	61	46		2	9		<5	<20	68	<5	<25	0.63		132	<20	13	139		139	
HP112	5401	0.24	7	21	7724	0.86	1	10		26	<20	40	<5	<25	0.30		75	<20	9	2800	0.28	76	
HP112	5402	0.33	32	51	2774		<1	9		52	<20	62	<5	<25	0.60		140	<20	9	1139		135	
HP112	5403	0.20	7	21	298		2	12		19	<20	30	<5	<25	0.27		62	<20	6	2765		68	
HP112	5404	0.26	28	56	578		4	34		<5	<20	56	<5	<25	0.58		108	<20	10	1403		137	
HP112	5405	0.24	7	23	175		<1	7		10	<20	33	<5	<25	0.32		67	<20	7	1066		77	
HP112	5406	0.29	32	53	238		4	29		<5	<20	60	<5	<25	0.67		118	<20	12	352		153	
HP112	5407	0.14	<5	12	434		2	10		30	20	26	<5	<25	0.22		54	<20	<5	1851		53	
HP112	5408	0.38	34	60	471		4	18		<5	22	56	<5	<25	0.57		124	216	12	1031		142	
HP112	5409	0.21	7	37	180		2	6		13	<20	32	<5	<25	0.29		69	<20	7	1430		72	
HP112	5410	0.32	33	50	209		<1	8		<5	<20	56	<5	<25	0.71		120	58	11	665		145	
HP112	5411	0.15	8	4	533		1	10		36	<20	35	<5	<25	0.31		64	<20	7	975		71	
HP112	5412	0.31	30	39	1203		<1	5		<5	<20	60	<5	<25	0.71		100	<20	12	1265		163	
HP112	5413	0.19	9	23	581		<1	11		14	<20	46	<5	<25	0.37		77	<20	8	1043		101	
HP112	5414	0.22	8	16	616		1	12		17	<20	40	<5	<25	0.31		74	<20	9	3087		78	
HP112	5415	0.31	30	57	682		<1	6		<5	<20	62	<5	<25	0.80		124	<20	12	2213		173	
HP112	5416	0.18	6	28	434	0.05	1	13		6	<20	32	<5	<25	0.27		64	<20	6	2093	0.22	54	
HP112	5417	0.37	12	39	128		2	13		6	<20	51	<5	<25	0.44		98	<20	13	873		110	
HP112	5418	0.27	12	36	31		2	7		<5	<20	55	<5	<25	0.44		84	<20	11	154		118	
HP112	5419	0.23	8	38	49		1	10		<5	<20	36	<5	<25	0.31		75	<20	11	754		84	
HP112	5420	0.30	9	53	55		2	9		<5	<20	38	<5	<25	0.32		82	<20	13	353		86	
HP112	5421	0.14	<5	35	>10000	3.08	1	8		124	<20	25	<5	<25	0.20		55	<20	6	5316	0.57	43	
HP112	5422	0.10	<5	33	>10000	1.41	1	13		245	<20	27	<5	<25	0.19		43	<20	<5	867	0.09	45	
HP112	5423	0.19	6	15	3852	0.40	3	12		46	21	36	<5	<25	0.22		77	<20	15	4375	0.45	55	
HP112	5424	0.26	11	40	96	<0.01	2	13		<5	<20	47	<5	<25	0.36		79	<20	10	2247	0.23	89	
HP112	5425	0.04	<5	<1	>10000	2.12	2	11		73	23	11	<5	<25	0.07		22	<20	<5	14207	1.45	10	
HP112	5426	0.14	6	159	>10000	3.40	2	13		574	55	47	<5	<25	0.38		108	<20	<5	>20000	9.03	<5	
HP112	5427	0.03	<5	14	>10000	3.79	3	9		778	183	3	<5	73	0.01		10	<20	<5	>20000	54.23	<5	
HP112	5428	0.11	6	13	>10000	6.67	4	14		96	42	32	<5	<25	0.34		93	<20	<5	>20000	5.01	16	
HP112	5429	0.25	9	34	>10000	1.58	2	9		169	30	45	<5	<25	0.42		115	<20	8	11191	1.17	67	
HP112	5430	0.14	<5	12	>10000	4.25	2	14		106	35	31	<5	<25	0.32		90	<20	6	15012	1.52	49	
HP112	5431	0.39	14	33	1849	0 17	1	19		8	<20	64	<5	<25	0.51		109	<20	14	10080	0.32	102	
HP112	5432	0.03	<5	2	8765	0.82	1	13		621	165	4	<5	413	0.03		14	1002	<5	>20000	55.57	<5	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
HP112	5502	1991	Story Creek	Story Creek	Colville	Siltstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5503	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5504	1991	Story Creek	Story Creek	Colville	Siltstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5505	1991	Story Creek	Story Creek	Colville	Siltstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5506	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5507	1991	Story Creek	Story Creek	Colville	Siltstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5508	1991	Story Creek	Story Creek	Colville	Sulfides	Float	Select	Howard Pass	B–4	12S	26W	23	SW	Umiat	13.78
HP112	5509	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5510	1991	Story Creek	Story Creek	Colville	Siltstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5511	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5512	1991	Story Creek	Story Creek	Colville	Siltstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5513	1991	Story Creek	Story Creek	Colville	Siltstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5514	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5515	1991	Story Creek	Story Creek	Colville	Siltstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5516	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5517	1991	Story Creek	Story Creek	Colville	Siltstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5518	1991	Story Creek	Story Creek	Colville	Siltstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5519	1991	Story Creek	Story Creek	Colville	Siltstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5520	1991	Story Creek	Story Creek	Colville	Siltstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5521	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5522	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5523	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5524	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5526	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5527	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	0.53
HP112	5528	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	0.21
HP112	5529	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5530	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5531	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5532	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5533	1991	Story Creek	Story Creek	Colville	Quartz	Float	Select	Howard Pass	B–4	12S	26W	23	SW	Umiat	2.82
HP112	5534	1991	Story Creek	Story Creek	Colville	Quartz	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5535	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5536	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5537	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5538	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5539	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5540	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5541	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5542	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5543	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5544	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5545	1991	Story Creek	Story Creek	Colville	Sulfides	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	4.05
HP112	5546	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Select	Howard Pass	B–4	12S	26W	23	SW	Umiat	0.85
HP112	5547	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5548	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5549	1991	Story Creek	Story Creek	Colville			Soil	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP112	5550	1991	Story Creek	Story Creek	Colville	Sandstone	Float	Grab	Howard Pass	B–4	12S	26W	23	SW	Umiat	
HP113	4086	1991		Story Creek	Colville	Chert	Outcrop	Random chip	Howard Pass	B–4	12S	26W	23	NW	Umiat	
HP114	5912	1992		Safari Creek	Colville	Stream sed		Stream sed	Howard Pass	B–4	12S	26W	24	SW	Umiat	
HP115	4020	1990		Safari Creek	Colville	Shale	Rubblecrop	Random chip	Howard Pass	B–3	12S	25W	24	NW	Umiat	
HP116	4001	1990		Safari Creek	Colville	Sandstone	Rubblecrop	Grab	Howard Pass	B–3	12S	25W	13	SW	Umiat	
HP117	4022	1990		Safari Creek	Colville	Chert	Outcrop	Channel	Howard Pass	B–3	12S	25W	13	SE	Umiat	
HP118	5921	1992		Safari Creek	Colville	Stream sed		Stream sed	Howard Pass	B–3	12S	25W	14	SE	Umiat	
HP119	5783	1992		Safari Creek	Colville	Shale	Outcrop	Grab	Howard Pass	B–3	12S	25W	13	SE	Umiat	
HP119	5915	1992		Safari Creek	Colville	Shale	Rubblecrop	Repr chip	Howard Pass	B–3	12S	25W	13	SW	Umiat	
HP120	4036	1991		Mt Bupto	Colville	Shale	Outcrop	Grab	Howard Pass	B–3	11S	24W	16	NE	Umiat	
HP121	4051	1991		Mt Bupto	Colville	Dolomite	Outcrop	Select	Howard Pass	C–3	11S	24W	4	SE	Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
HP112	5502	<0.5	2.52	<5	3	210			6	0.04	<2.0	7	260		16		3.11	<10	0.64	13	29	0.10	601		2
HP112	5503	<0.5	4.27	<5	4	416			<5	0.03	<2.0	34	106		43		4	15	0.64	10	68	0.21	1746		1
HP112	5504	<0.5	2.26	<5	2	192			<5	0.03	6.9	5	349		19		2.58	<10	0.53	15	20	0.08	449		4
HP112	5505	<0.5	2.64	16	3	366			12	0.04	<2.0	4	243		13		3.05	<10	0.58	20	25	0.10	1003		3
HP112	5506	<0.5	3.62	27	1	681			<5	0.05	3.4	23	98		33		3.05	17	0.48	18	58	0.20	2119		<1
HP112	5507	<0.5	2.95	<5	<1	448			<5	0.09	<2.0	5	215		7		6.39	<10	0.68	12	34	0.23	2826		3
HP112	5508	>50.0	0.70	226	492	36			130	0.02	1438.7	50	173		426		1.86	21	0.17	<5	18	0.03	155		160
HP112	5509	<0.5	4.37	14	2	675			<5	0.05	<2.0	24	130		52		4.1	17	0.65	20	113	0.22	1131		<1
HP112	5510	3.2	2.07	10	7	284			6	0.06	4.2	5	284		7		4.58	<10	0.56	12	34	0.10	1380		3
HP112	5511	<0.5	3.72	<5	<1	534			<5	0.08	<2.0	18	111		46		4.15	14	0.64	15	66	0.19	1159		<1
HP112	5512	6.0	3.47	37	6	284			<5	0.04	5.2	4	344		5		2.59	<10	0.61	20	53	0.10	837		2
HP112	5513	<0.5	2.51	<5	3	208			6	0.03	<2.0	7	276		14		3.78	<10	0.55	13	35	0.09	906		<1
HP112	5514	<0.5	4.63	<5	<1	632			<5	0.04	<2.0	16	108		46		3.56	16	0.75	12	98	0.20	1012		<1
HP112	5515	<0.5	2.39	8	4	242			<5	0.03	<2.0	8	321		14		3.13	<10	0.65	15	47	0.10	571		2
HP112	5516	<0.5	4.24	16	<1	713			<5	0.04	<2.0	31	107		73		4.69	13	0.77	6	96	0.20	1604		<1
HP112	5517	<0.5	2.98	<5	<1	340			6	0.24	<2.0	13	204		12		5.73	11	0.87	14	53	0.36	2084		<1
HP112	5518	<0.5	3.00	23	<1	299			6	0.12	<2.0	17	193		27		5.53	11	0.60	17	57	0.29	895		81
HP112	5519	<0.5	3.12	33	2	338			<5	0.05	<2.0	7	218		21		5.5	11	0.72	12	45	0.11	1458		12
HP112	5520	<0.5	6.03	82	<1	309			<5	1.66	<2.0	12	242		16		3.54	11	1.24	52	58	0.49	1149		8
HP112	5521	<0.5	5.48	11	1	788			<5	0.06	<2.0	18	137		50		3.08	24	1.04	16	145	0.37	598		<1
HP112	5522	<0.5	2.58	<5	<1	224			<5	0.87	<2.0	14	191		16		7.4	<10	0.53	12	37	0.64	2362		4
HP112	5523	1.9	4.50	51	5	1816			<5	0.04	5.2	19	102		41		2.95	18	0.74	20	74	0.21	1271		<1
HP112	5524	<0.5	3.19	15	<1	490			<5	0.11	<2.0	3	222		7		5	<10	0.74	19	36	0.17	1754		<1
HP112	5526	7.8	4.98	42	16	905			<5	0.02	2.6	18	116		58		3.29	21	0.90	11	101	0.22	1050		4
HP112	5527	17.4	2.32	24	13	183			13	0.04	68.2	6	220		50		3.8	<10	0.62	11	46	0.09	882		11
HP112	5528	4.5	2.48	<5	5	765			8	0.06	8.4	6	246		26		3.63	<10	0.55	14	48	0.13	1022		3
HP112	5529	3.8	4.71	45	6	740			<5	0.03	9.8	32	138		53		3.35	19	0.67	20	105	0.24	1404		92
HP112	5530	3.2	2.69	47	2	524			5	0.03	<2.0	2	180		15		3.28	<10	0.68	9	53	0.09	625		4
HP112	5531	<0.5	4.35	28	<1	771			<5	0.05	<2.0	30	117		49		3.52	16	0.73	17	107	0.22	1138		18
HP112	5532	<0.5	3.26	<5	<1	860			6	0.42	<2.0	16	202		16		6.51	<10	0.89	14	59	0.49	1600		3
HP112	5533	>50.0	1.32	64	45	132			20	0.02	72	4	256		21		1.02	<10	0.43	<5	70	0.04	325		19
HP112	5534	<0.5	3.45	16	1	468			<5	0.03	<2.0	14	162		24		4.35	12	0.88	7	69	0.13	1298		3
HP112	5535	<0.5	4.57	23	<1	905			<5	0.04	14.5	37	119		44		3.08	19	0.82	21	95	0.20	2330		9
HP112	5536	<0.5	5.81	<5	<1	783			9	0.17	8.7	15	194		27		7.77	16	1.33	31	90	0.43	2733		9
HP112	5537	<0.5	5.07	<5	2	914			<5	0.03	19.6	40	111		54		4.15	19	0.65	11	107	0.22	1802		10
HP112	5538	<0.5	3.04	<5	1	404			<5	0.04	2.4	15	169		23		5.83	10	0.79	7	59	0.14	1466		3
HP112	5539	<0.5	4.57	14	<1	776			<5	0.04	14.9	26	110		48		3.54	18	0.70	14	84	0.22	1244		6
HP112	5540	<0.5	2.90	<5	<1	644			<5	0.27	20.1	20	149		14		7.51	<10	0.80	6	60	0.71	1853		5
HP112	5541	<0.5	3.00	<5	<1	284			<5	0.04	<2.0	10	231		20		4.17	<10	0.72	11	43	0.12	700		5
HP112	5542	<0.5	3.31	<5	<1	305			<5	0.04	<2.0	9	161		28		5.08	<10	0.80	11	37	0.15	912		2
HP112	5543	<0.5	5.54	48	<1	757			<5	0.07	<2.0	14	122		45		2.93	21	1.14	20	94	0.27	534		5
HP112	5544	<0.5	3.26	6	<1	393			<5	0.06	<2.0	17	175		29		4.28	10	0.86	9	52	0.18	723		2
HP112	5545	>50.0	0.16	123	110	36			131	<0.01	1438.7	29	177		377	1.99	1.39	22	0.02	<5	13	<0.01	75		186
HP112	5546	25.1	3.10	33	34	267			12	0.03	27.8	7	174		45	2.86	4.22	10	0.42	<5	71	0.06	1295		7
HP112	5547	<0.5	4.19	20	<1	528			<5	0.04	<2.0	16	94		44		3.21	18	0.76	10	71	0.21	756		3
HP112	5548	<0.5	2.75	6	2	243			7	0.07	5.7	10	317		24		3.29	<10	0.80	15	31	0.13	537		4
HP112	5549	<0.5	5.60	21	4	1228			<5	0.03	7.1	11	136		50		3.46	25	0.88	6	145	0.20	591		5
HP112	5550	<0.5	2.03	<5	7	550			6	0.05	9.3	5	327		30		5.22	<10	0.52	19	41	0.10	1592		4
HP113	4086	0.8	3.91	17	6	359			<5	0.15	3.9	4	160		51		4.59	<10	0.56	27	45	0.23	1228		5
HP114	5912	<0.5	4.92	44	3	396			7	0.10	<2.0	27	117		33		4.53	22	1.60	8	55	0.23	1291		<1
HP115	4020	1.1	1.95	<5	4	51			16	9.06	<1.0	19	123		17		>10.00	<2	0.38	3	16	2.43	1200		<1
HP116	4001	3.0	1.41	<5	24	215			<5	2.38	<1.0	10	65		10		>10.00	<2	0.33	6	44	5.92	2200		<1
HP117	4022	0.8	2.12	12	27	325			39	>10.00	<1.0	12	103		37		>10.00	<2	0.53	18	39	5.12	700		3
HP118	5921	<0.5	6.76	35	3	305			7	0.32	<2.0	31	201		51		6.21	25	1.89	6	78	0.42	250		<1
HP119	5783	<0.5	5.45	30	6	>2000			<5	0.04	<2.0	2	196		4		0.98	28	2.43	18	99	0.35	15		<1
HP119	5915	1.2	5.91	55	8	1205			<5	0.08	<2.0	3	316		8		0.82	26	2.27	16	90	0.41	19		<1
HP120	4036	0.9	1.63	20	8	1953			16	0.56	<2.0	3	156		46		1.12	<10	0.46	7	22	0.41	375		6
HP121	4051	<0.5	0.04	12	4	46			18	>10.00	<2.0	5	23		4		0.43	<10	<0.01	9	3	>10.00	332		8

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
HP112	5502	0.24	8	28	50		1	8		<5	<20	50	<5	<25	0.37		74	<20	6	229		79	
HP112	5503	0.39	30	54	25		1	8		<5	<20	58	<5	<25	0.62		123	<20	10	110		146	
HP112	5504	0.17	6	16	70		2	10		8	23	48	<5	<25	0.28		62	<20	<5	1493		51	
HP112	5505	0.20	9	43	302		3	15		21	<20	56	<5	<25	0.40		76	<20	8	956		95	
HP112	5506	0.35	28	64	131		1	6		<5	<20	74	<5	<25	0.79		96	<20	13	628		176	
HP112	5507	0.23	9	29	104		2	11		<5	<20	44	<5	<25	0.33		80	<20	7	702		74	
HP112	5508	0.05	<5	505	>10000	21.73	2	25		>2000	119	9	<5	41	0.06		18	<20	<5	>20000	25.19	9	
HP112	5509	0.36	34	66	53		1	10		<5	<20	74	<5	<25	1.03		132	<20	19	253		255	
HP112	5510	0.14	6	33	495		3	17		45	21	41	<5	<25	0.29		67	<20	5	1204		78	
HP112	5511	0.43	30	59	129		<1	9		6	<20	67	<5	<25	0.82		103	<20	16	211		201	
HP112	5512	0.21	9	31	1262		2	14		96	22	52	<5	<25	0.38		79	<20	7	935		90	
HP112	5513	0.16	6	25	85		1	12		21	<20	36	<5	<25	0.27		67	<20	6	411		57	
HP112	5514	0.41	39	50	40		2	11		<5	<20	60	<5	<25	0.75		136	<20	13	150		179	
HP112	5515	0.16	6	24	84		2	16		21	<20	42	<5	<25	0.30		65	<20	6	431		72	
HP112	5516	0.30	36	74	57		2	13		<5	<20	53	<5	<25	0.87		127	<20	11	157		189	
HP112	5517	0.22	9	34	33		9	397		<5	21	47	<5	<25	0.36		89	<20	15	134		86	
HP112	5518	0.31	10	55	55		<1	<5		<5	23	41	<5	<25	0.42		106	<20	7	584		86	
HP112	5519	0.24	9	36	86		<1	<5		<5	<20	56	<5	<25	0.39		101	<20	7	578		94	
HP112	5520	0.50	15	29	60		<1	<5		<5	25	72	<5	<25	0.39		78	<20	21	195		117	
HP112	5521	0.54	36	74	25		2	15		<5	<20	74	<5	<25	0.69		188	<20	16	296		155	
HP112	5522	0.24	6	43	32		<1	<5		<5	<20	46	<5	<25	0.28		78	<20	14	132		67	
HP112	5523	0.32	35	47	901		2	14		14	<20	79	<5	<25	0.80		123	<20	16	1073		166	
HP112	5524	0.24	7	13	103		<1	<5		<5	<20	43	<5	<25	0.33		85	<20	11	430		68	
HP112	5526	0.35	32	46	3434		2	9		45	<20	69	<5	<25	0.65		157	<20	11	2423		135	
HP112	5527	0.16	5	17	6686	0.94	<1	9		59	<20	33	<5	<25	0.31		72	<20	<5	10758	1.16	80	
HP112	5528	0.18	8	23	2966	0.30	<1	9		39	<20	37	<5	<25	0.39		75	<20	7	2790	0.28	79	
HP112	5529	0.33	24	60	1792		2	7		15	<20	75	<5	<25	0.67		157	<20	14	2727		132	
HP112	5530	0.18	6	14	1013		<1	5		49	<20	35	<5	<25	0.33		80	<20	5	1727		70	
HP112	5531	0.32	32	65	96		2	16		<5	<20	71	<5	<25	0.87		140	<20	15	1264		168	
HP112	5532	0.26	9	47	71		<1	11		<5	25	47	<5	<25	0.39		104	<20	14	520		78	
HP112	5533	0.21	<5	10	>10000	2.94	35	36		190	<20	26	<5	<25	0.23		47	<20	<5	18016	1.80	38	
HP112	5534	0.32	11	37	269		2	6		7	<20	45	<5	<25	0.50		109	<20	<5	867		102	
HP112	5535	0.31	31	69	417		2	8		<5	<20	80	<5	<25	0.88		131	<20	17	2063		196	
HP112	5536	0.57	18	58	118		<1	8		<5	<20	76	<5	<25	0.57		132	<20	18	2010		133	
HP112	5537	0.32	30	67	213		2	24		<5	<20	64	<5	<25	0.70		151	<20	12	4339		139	
HP112	5538	0.26	9	39	766		2	10		15	<20	40	<5	<25	0.42		103	<20	<5	1650		87	
HP112	5539	0.31	30	59	187		2	21		<5	<20	66	<5	<25	0.82		138	<20	15	2517		157	
HP112	5540	0.28	10	61	64		<1	12		<5	<20	39	<5	<25	0.40		103	<20	8	2589		85	
HP112	5541	0.22	9	24	173		1	9		<5	<20	38	<5	<25	0.37		88	<20	5	1193		88	
HP112	5542	0.25	11	37	56		<1	9		<5	<20	48	<5	<25	0.42		94	<20	7	644		104	
HP112	5543	0.47	36	52	101		2	16		<5	<20	81	25	<25	0.79		168	<20	16	449		172	
HP112	5544	0.27	11	49	44		1	6		<5	<20	42	<5	<25	0.48		110	<20	7	438		107	
HP112	5545	0.02	<5	<1	>10000	1.99	<1	9		310	101	<1	<5	45	0.01		9	<20	<5	>20000	25.90	<5	
HP112	5546	0.20	5	19	>10000	2.86	1	10		117	31	20	<5	<25	0.14		48	<20	<5	4737	0.41	37	
HP112	5547	0.38	32	55	58		2	<5		<5	<20	58	<5	<25	0.78		127	<20	11	482		148	
HP112	5548	0.24	8	25	179		<1	8		6	<20	43	<5	<25	0.32		71	<20	8	1016		83	
HP112	5549	0.39	31	52	1123		2	10		18	<20	71	<5	<25	0.72		200	<20	8	3303		141	
HP112	5550	0.14	6	15	618		2	17		12	<20	38	<5	<25	0.28		71	<20	7	2880		106	
HP113	4086	0.04	9	29	3444		7	21		14	<20	52	9	<25	0.36		80	<20	16	2304		116	
HP114	5912	0.35	9	56	24		<1	<5		<5	<20	85	<100	<25	0.51		116	<20	10	123		112	
HP115	4020	0.11	10	98		0.00	<20	29		37	<20	56	47	27	0.08		85	24	26		0.06	27	
HP116	4001	0.19	15	44		0.003	<20	38		18	<20	98	13	35	0.07		128	21	13		0.02	24	
HP117	4022	0.10	8	75		0.00	<20	<70		<5	<20	267	15	<10	0.09		71	<10	34		0.05	32	
HP118	5921	0.44	12	127	20		4	<5		<5	<20	88	<100	<25	0.42		196	<20	16	429		87	
HP119	5783	0.41	12	34	49		9	14		<5	<20	65	<100	<25	0.56		224	<20	12	32		99	
HP119	5915	0.39	11	41	558		11	15		<5	<20	61	<100	<25	0.45		309	<20	12	207		85	
HP120	4036	0.11	<5	22	<2		8	12		<5	<20	50	<5	<25	0.08		101	<20	8	44		33	
HP121	4051	0.03	9	56	10		9	13		7	<20	48	108	29	<0.01		73	<20	8	121		<5	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
HP122	4052	1991		Mt Bupto	Colville	Dolomite	Outcrop	Random chip	Howard Pass	C–3	11S	29W	4	NE	Umiat	
HP123	4053	1991		Mt Bupto	Colville	Dolomite	Rubblecrop	Select	Howard Pass	C–3	11S	29W	4	NE	Umiat	
HP124	4054	1991	Mt Bupto North	Mt Bupto	Colville	Mafic intrusive	Rubblecrop	Select	Howard Pass	C–3	10S	24W	33	SE	Umiat	
HP125	4055	1991	Mt Bupto North	Mt Bupto	Colville	Mafic intrusive	Outcrop	Random chip	Howard Pass	C–3	10S	24W	33	SE	Umiat	
HP126	5843	1992	Abby	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	10S	24W	21	NE	Umiat	
HP126	5844	1992	Abby	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	10S	24W	21	NE	Umiat	
HP126	5845	1992	Abby	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	10S	24W	21	NE	Umiat	
HP126	5846	1992	Abby	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	10S	24W	21	NE	Umiat	
HP126	5847	1992	Abby	Cutaway Basin	Colville	Mudstone	Float	Grab	Howard Pass	C–3	10S	24W	21	NE	Umiat	
HP126	5848	1992	Abby	Cutaway Basin	Colville	Mudstone	Float	Grab	Howard Pass	C–3	10S	24W	21	NE	Umiat	
HP126	5849	1992	Abby	Cutaway Basin	Colville	Shale/mudstone	Float	Grab	Howard Pass	C–3	10S	24W	21	NE	Umiat	
HP127	5850	1992	Blon	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	10S	24W	5	SW	Umiat	
HP127	5851	1992	Blon	Cutaway Basin	Colville	Shale	Rubblecrop	Grab	Howard Pass	C–3	10S	24W	5	SW	Umiat	
HP127	5852	1992	Blon	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	10S	24W	5	SW	Umiat	
HP127	5853	1992	Blon	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	10S	24W	5	SW	Umiat	
HP127	5854	1992	Blon	Cutaway Basin	Colville	Barite/chert	Float	Grab	Howard Pass	C–3	10S	24W	5	SW	Umiat	
HP127	5855	1992	Blon	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	10S	24W	5	SW	Umiat	
HP127	5856	1992	Blon	Cutaway Basin	Colville	Barite	Float	Grab	Howard Pass	C–3	10S	24W	5	SW	Umiat	
HP127	5857	1992	Blon	Cutaway Basin	Colville	Shale	Float	Grab	Howard Pass	C–3	10S	24W	5	SW	Umiat	
HP127	5858	1992	Blon	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	10S	24W	5	SW	Umiat	
HP127	5859	1992	Blon	Cutaway Basin	Colville	Barite	Float	Grab	Howard Pass	C–3	10S	24W	5	SW	Umiat	
HP127	5860	1992	Blon	Cutaway Basin	Colville	Chert/mudstone	Float	Grab	Howard Pass	C–3	10S	24W	5	SW	Umiat	
HP128	5740	1992	Blon	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	10S	24W	6	NE	Umiat	
HP129	5874	1992		Cutaway Basin	Colville	Silicious sinter (?)	Rubblecrop	Grab	Howard Pass	C–3	9S	24W	32	SE	Umiat	
HP130	5872	1992	Tuck	Cutaway Basin	Colville	Barite	Outcrop	Repr chip	Howard Pass	C–3	10S	24W	3	NW	Umiat	
HP130	5873	1992	Tuck	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	10S	24W	3	NW	Umiat	
HP131	5751	1992	Stack	Cutaway Basin	Colville	Limestone	Float	Grab	Howard Pass	C–3	10S	24W	3	SW	Umiat	
HP131	5868	1992	Stack	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	10S	24W	3	SW	Umiat	
HP131	5869	1992	Stack	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	10S	24W	3	SW	Umiat	
HP131	5870	1992	Stack	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	10S	24W	3	SW	Umiat	
HP131	5871	1992	Stack	Cutaway Basin	Colville	Shale	Outcrop	Chip channel	Howard Pass	C–3	10S	24W	3	SW	Umiat	
HP132	5741	1992	Lakeview	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	9S	24W	3	NE	Umiat	
HP132	5864	1992	Lakeview	Cutaway Basin	Colville	Barite	Float	Grab	Howard Pass	C–3	10S	24w	2	NW	Umiat	
HP132	5865	1992	Lakeview	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	10S	24w	2	NW	Umiat	
HP132	5866	1992	Lakeview	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	10S	24w	2	NW	Umiat	
HP132	5867	1992	Lakeview	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	10S	24W	3	SW	Umiat	
HP133	5742	1992	Longview	Cutaway Basin	Colville	Chert/mudstone	Outcrop	Chip channel	Howard Pass	C–3	9S	24W	35	SW	Umiat	
HP133	5743	1992	Longview	Cutaway Basin	Colville	Barite	Outcrop	Spaced chip	Howard Pass	C–3	9S	24W	35	SW	Umiat	
HP133	5744	1992	Longview	Cutaway Basin	Colville	Diabase	Outcrop	Repr chip	Howard Pass	C–3	9S	24W	35	SW	Umiat	
HP133	5745	1992	Longview	Cutaway Basin	Colville	Mudstone	Rubblecrop	Contin chip	Howard Pass	C–3	9S	24W	35	SE	Umiat	
HP133	5746	1992	Longview	Cutaway Basin	Colville	Barite	Outcrop	Chip channel	Howard Pass	C–3	9S	24W	35	SE	Umiat	
HP133	5747	1992	Longview	Cutaway Basin	Colville	Barite	Float	Grab	Howard Pass	C–3	9S	24W	35	SE	Umiat	
HP133	5748	1992	Longview	Cutaway Basin	Colville	Barite	Outcrop	Chip channel	Howard Pass	C–3	9S	24W	35	SE	Umiat	
HP133	5749	1992	Longview	Cutaway Basin	Colville	Chert	Outcrop	Chip channel	Howard Pass	C–3	9S	24W	35	SW	Umiat	
HP133	5750	1992	Longview	Cutaway Basin	Colville	Mudstone	Outcrop	Repr chip	Howard Pass	C–3	9S	24W	35	SE	Umiat	
HP133	5861	1992	Longview	Cutaway Basin	Colville	Barite	Outcrop	Repr chip	Howard Pass	C–3	9S	24W	35	SW	Umiat	
HP133	5862	1992	Longview	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	9S	24W	35	SW	Umiat	
HP133	5863	1992	Longview	Cutaway Basin	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–3	10S	24w	2	NW	Umiat	
HP134	5875	1992	Ekakevik Mtn	Ekakevik Mtn	Colville	Mudstone	Float	Grab	Howard Pass	C–2	9S	22W	36	NW	Umiat	
HP134	5876	1992	Ekakevik Mtn	Ekakevik Mtn	Colville	Barite	Rubblecrop	Grab	Howard Pass	C–2	9S	22W	36	NW	Umiat	
HP134	5877	1992	Ekakevik Mtn	Ekakevik Mtn	Colville	Witherite	Rubblecrop	Grab	Howard Pass	C–2	9S	22W	36	NW	Umiat	
HP134	5878	1992	Ekakevik Mtn	Ekakevik Mtn	Colville	Barite	Outcrop	Repr chip	Howard Pass	C–2	9S	22W	36	NW	Umiat	
HP134	5879	1992	Ekakevik Mtn	Ekakevik Mtn	Colville	Shale	Float	Grab	Howard Pass	C–2	9S	22W	36	NW	Umiat	
HP135	5701	1992	Lisburne Ridge	Lisburne Ridge	Colville	Limestone (?)	Outcrop	Spaced chip	Howard Pass	C–2	9S	21W	26	NW	Umiat	
HP135	5702	1992	Lisburne Ridge	Lisburne Ridge	Colville	Chert	Rubblecrop	Grab	Howard Pass	C–2	9S	21W	26	NW	Umiat	
HP135	5703	1992	Lisburne Ridge	Lisburne Ridge	Colville	Chert	Rubblecrop	Grab	Howard Pass	C–2	9S	21W	26	NW	Umiat	
HP135	5704	1992	Lisburne Ridge	Lisburne Ridge	Colville	Siltstone	Rubblecrop	Grab	Howard Pass	C–2	9S	21W	26	NE	Umiat	
HP135	5803	1992	Lisburne Ridge	Lisburne Ridge	Colville	Limestone	Rubblecrop	Select	Howard Pass	C–2	9S	21W	26	NE	Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
HP122	4052	<0.5	0.03	13	3	74			10	>10.00	<2.0	2	180		3		0.17	<10	<0.01	<5	36	0.90	423		<1
HP123	4053	<0.5	0.04	17	2	78			12	>10.00	<2.0	1	128		4		0.17	<10	<0.01	<5	15	1.77	111		3
HP124	4054	1.3	5.24	20	44	92			<5	>10.00	<2.0	18	155		421		3.23	22	0.06	<5	9	1.76	511		1
HP125	4055	2.6	4.77	21	29	50			15	>10.00	<2.0	22	115	0.09	1211		4.18	31	0.05	<5	8	2.09	613		2
HP126	5843	<0.5	0.18	8	2	484		95.84	<5	<0.01	<2.0	1	34		<1		0.12	<10	0.04	<5	<2	0.03	14		<1
HP126	5844	<0.5	0.09	24	2	693		96.24	<5	<0.01	<2.0	2	4		<1		0.05	<10	0.02	<5	<2	<0.01	<5		<1
HP126	5845	<0.5	0.16	30	3	1828		87.18	<5	3.44	<2.0	3	20		<1		0.16	<10	0.04	<5	<2	0.05	914		<1
HP126	5846	<0.5	0.29	8	1	401		93.15	<5	0.04	<2.0	3	23		15		0.22	<10	0.08	10	5	0.05	77		13
HP126	5847	<0.5	0.99	24	6	123		1.09	<5	0.06	<2.0	3	385		30		0.76	<10	0.34	13	25	0.12	58		10
HP126	5848	0.8	0.87	30	5	107		0.88	10	0.04	<2.0	3	365		38		0.81	<10	0.29	14	24	0.10	55		17
HP126	5849	<0.5	1.64	22	9	1672		0.26	<5	0.11	<2.0	5	257		63		0.76	<10	0.55	18	28	0.25	77		13
HP127	5850	<0.5	0.02	18	2	<5		99.94	11	0.04	<2.0	23	17		14		0.01	<10	0.08	15	4	<0.01	38		15
HP127	5851	9.4	4.06	59	15	286		1.46	7	0.61	<2.0	1	1137		197		1.36	11	1.30	69	32	0.45	56		54
HP127	5852	<0.5	0.08	94	1	>2000		92.33	16	3.29	3.1	5	49		33		0.05	<10	0.11	25	9	0.19	658		33
HP127	5853	<0.5	0.09	38	2	406		96.01	<5	0.02	2.7	3	21		14		0.05	<10	0.02	12	3	0.01	20		22
HP127	5854	<0.5	0.44	20	2	683		73.13	<5	0.05	<2.0	3	88		20		0.28	<10	0.07	12	9	0.06	56		17
HP127	5855	<0.5	0.12	18	2	1658		95.88	5	0.02	<2.0	2	16		10		0.08	<10	0.03	7	2	0.02	18		9
HP127	5856	<0.5	0.14	29	3	796		96.49	8	0.02	<2.0	<1	16		8		0.08	<10	0.04	6	2	0.02	14		8
HP127	5857	1.0	2.76	29	7	880		1.48	<5	0.15	<2.0	2	200		20		0.45	<10	0.95	13	17	0.32	23		8
HP127	5858	<0.5	0.06	19	3	>2000		96.35	<5	0.09	<2.0	1	9		5		0.03	<10	0.02	<5	<2	0.01	41		3
HP127	5859	<0.5	0.36	29	2	974		93.12	<5	0.01	<2.0	1	47		9		0.17	<10	0.09	<5	4	0.05	101		6
HP127	5860	<0.5	0.58	<5	5	209		1.60	7	0.04	<2.0	<1	410		41		0.65	<10	0.16	6	19	0.05	48		25
HP128	5740	0.5	0.86	27	4	309		0.87	<5	0.03	<2.0	2	337		17		0.83	<10	0.22	<5	29	0.10	52		<1
HP129	5874	<0.5	0.10	18	6	1309		0.65	<5	0.19	<2.0	3	470		11		0.79	<10	0.04	<5	<2	0.07	64		<1
HP130	5872	<0.5	0.03	27	4	528		95.02	<5	1.04	<2.0	2	3		<1		0.03	<10	<0.01	<5	<2	0.01	101		<1
HP130	5873	<0.5	0.04	13	10	633		96.78	7	<0.01	<2.0	<1	<2		<1		0.06	<10	<0.01	<5	<2	<0.01	36		<1
HP131	5751	<0.5	0.19	26	3	96		0.77	8	5.29	<2.0	4	96		7		0.11	<10	0.05	<5	2	0.09	1118		<1
HP131	5868	<0.5	0.03	23	2	>2000		93.70	<5	2.01	<2.0	2	3		2		0.05	<10	0.04	<5	<2	0.02	49		<1
HP131	5869	<0.5	0.12	25	2	428		97.36	<5	<0.01	<2.0	2	3		<1		0.03	<10	<0.01	<5	<2	<0.01	8		<1
HP131	5870	<0.5	0.02	26	2	>2000		96.33	<5	0.66	<2.0	4	<2		<1		0.02	<10	0.01	<5	<2	0.02	42		<1
HP131	5871	4.7	1.96	24	6	234		1.35	<5	0.16	<2.0	3	521		65		0.79	<10	0.77	25	18	0.25	29		15
HP132	5741	<0.5	0.10	23	1	353		95.88	<5	0.01	<2.0	2	9		<1		0.08	<10	0.02	<5	<2	0.02	8		<1
HP132	5864	<0.5	0.17	<5	4	304		95.08	<5	<0.01	<2.0	<1	17		7		0.13	<10	0.03	<5	<2	0.02	146		3
HP132	5865	<0.5	0.13	9	2	589		95.82	<5	0.13	<2.0	2	6		6		0.1	<10	0.03	<5	<2	0.09	364		3
HP132	5866	<0.5	0.04	25	3	1453		96.65	<5	0.36	<2.0	1	18		4		0.08	<10	0.02	<5	<2	0.19	232		4
HP132	5867	<0.5	0.14	18	4	501			<5	<0.01	<2.0	<1	11		4		0.09	<10	0.04	<5	<2	0.02	8		2
HP133	5742	3.0	0.38	28	7	324		0.67	<5	1.47	<2.0	4	484		38		0.54	<10	0.10	6	6	0.03	65		37
HP133	5743	<0.5	0.05	13	3	1989		97.11	<5	0.07	<2.0	<1	5		<1		0.04	<10	<0.01	<5	<2	0.01	42		<1
HP133	5744	<0.5	4.79	56	30	>2000		0.29	<5	0.47	<2.0	15	222		20		4.53	20	0.92	9	39	1.19	878		<1
HP133	5745	1.6	0.50	26	6	243		0.49	<5	0.36	<2.0	4	465		41		0.63	<10	0.12	<5	12	0.05	75		46
HP133	5746	<0.5	0.17	11	2	408		94.69	<5	0.22	<2.0	<1	5		<1		0.12	<10	0.03	<5	<2	0.06	49		<1
HP133	5747	<0.5	0.10	15	2	783		96.64	<5	<0.01	<2.0	1	11		3		0.08	<10	0.02	<5	<2	0.01	142		2
HP133	5748	<0.5	0.26	16	2	378		94.66	<5	0.03	<2.0	2	11		3		0.14	<10	0.01	<5	<2	0.02	35		<1
HP133	5749	2.5	0.39	26	4	519		1.60	<5	0.28	<2.0	2	549		24		0.58	<10	0.11	<5	13	0.02	42		44
HP133	5750	<0.5	0.49	<5	11	517		19.78	7	0.01	<2.0	4	75		10		0.26	<10	0.09	<5	10	0.10	134		<1
HP133	5861	<0.5	0.27	8	2	1557		94.06	<5	0.17	<2.0	3	19		13		0.17	<10	0.03	<5	3	0.07	839		5
HP133	5862	<0.5	0.26	12	1	599		94.46	<5	0.01	<2.0	<1	21		7		0.19	<10	0.06	<5	2	0.03	43		3
HP133	5863	<0.5	0.29	<5	3	612		93.83	<5	0.05	<2.0	2	8		8		0.17	<10	0.06	<5	4	0.04	32		2
HP134	5875	1.0	0.97	8	7	251		1.06	<5	0.01	<2.0	1	204		10		0.52	<10	0.32	<5	11	0.15	20		4
HP134	5876	<0.5	0.20	<5	4	1001		94.69	<5	0.38	<2.0	2	4		79		0.08	<10	<0.01	<5	<2	0.02	48		<1
HP134	5877	0.8	<0.01	24	4	>2000		99.90	<5	<0.01	2.5	4	<2		<1		<0.01	10	<0.01	<5	<2	<0.01	<5		<1
HP134	5878	<0.5	0.07	9	4	>2000		96.67	<5	0.40	<2.0	2	<2		3		0.09	<10	0.02	<5	<2	0.05	103		<1
HP134	5879	1.0	0.19	48	6	645		2.27	25	>10.00	<2.0	6	119		9		0.14	12	0.07	<5	<2	9.24	2137		<1
HP135	5701	0.6	0.21	16		53			11	>10.00	<2.0	6	186		11		0.21	13	0.08	<5	3	9.44	47		5
HP135	5702	<0.5	1.43	<5		>2000			<5	0.74	<2.0	4	377		38		1.32	<10	0.55	8	32	0.55	140		1
HP135	5703	<0.5	1.10	20		1642			<5	0.53	<2.0	4	522		34		2.08	<10	0.41	<5	27	0.37	99		3
HP135	5704	3.6	1.64	<5		330			14	>10.00	<2.0	5	436		62		0.61	12	0.63	40	12	8.75	656		10
HP135	5803	1.8	0.29	20		658			16	>10.00	33.8	3	132		23		0.38	12	0.13	100	3	3.03	1238		11

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
HP122	4052	<0.01	7	15	<2		5	10		<5	<20	74	34	<25	<0.01		32	<20	39	55		<5	
HP123	4053	<0.01	7	15	<2		3	10		<5	<20	54	49	<25	<0.01		28	<20	72	63		<5	
HP124	4054	0.32	15	57	8		5	9		<5	<20	58	56	<25	0.24		151	24	7	73		31	
HP125	4055	0.46	12	59	<2		4	12		5	<20	45	53	<25	0.26		191	<20	6	108		27	
HP126	5843	0.04	<5	19	<2		<1	6		<5	<20	672	<100	<25	0.01		11	<20	<5	14		<5	3.6
HP126	5844	0.02	<5	<1	<2		1	5		<5	<20	597	<100	<25	<0.01		7	<20	<5	4		<5	3.8
HP126	5845	0.03	<5	6	<2		<1	7		<5	<20	635	<100	<25	<0.01		16	<20	<5	9		<5	3.6
HP126	5846	0.04	<5	15	9		<1	<5		<5	<20	597	<100	<25	0.02		34	<20	<5	19		7	3.9
HP126	5847	0.08	<5	27	14		4	<5		<5	<20	120	<100	<25	0.05		81	<20	5	16		25	2.5
HP126	5848	0.08	<5	27	14		6	6		<5	<20	108	<100	<25	0.06		91	<20	6	18		23	2.5
HP126	5849	0.11	<5	26	19		5	<5		<5	<20	67	<100	<25	0.07		60	<20	7	29		23	2.5
HP127	5850	0.13	<5	15	11		1	<5		<5	<20	>2000	<100	<25	<0.01		9	<20	<5	4		6	3.7
HP127	5851	0.45	<5	276	15		47	14		<5	<20	256	<100	<25	0.21		324	<20	138	91		85	1.4
HP127	5852	0.16	<5	41	34		<1	<5		<5	<20	>2000	<100	<25	<0.01		25	<20	<5	15		12	3.9
HP127	5853	0.02	<5	13	16		2	<5		<5	<20	533	<100	<25	0.02		30	<20	<5	3		<5	4.2
HP127	5854	0.05	<5	20	18		1	<5		<5	<20	851	<100	<25	0.03		27	<20	<5	8		12	3.4
HP127	5855	0.02	<5	11	11		2	<5		<5	<20	872	<100	<25	0.01		15	<20	<5	4		<5	3.8
HP127	5856	0.03	<5	8	10		<1	<5		<5	<20	767	<100	<25	0.01		11	<20	<5	<2		<5	4.0
HP127	5857	0.23	<5	35	13		5	7		<5	<20	126	<100	<25	0.14		107	<20	12	21		42	2.2
HP127	5858	0.03	<5	7	3		1	<5		<5	<20	749	<100	<25	<0.01		6	<20	<5	6		<5	4.0
HP127	5859	0.05	<5	32	5		<1	<5		<5	<20	969	<100	<25	0.02		17	<20	<5	16		6	4.0
HP127	5860	0.08	<5	33	10		5	<5		<5	<20	91	<100	<25	0.04		53	<20	<5	20		26	2.5
HP128	5740	0.12	<5	9	2		3	<5		<5	<20	52	<100	<25	0.04		38	<20	<5	14		15	2.5
HP129	5874	0.03	<5	9	4		6	10	0.03	<5	<20	31	<100	<25	0.01	0.2	18	<20	<5	25		<5	2.6
HP130	5872	0.02	<5	<1	<2		7	7	0.02	<5	<20	425	<100	<25	<0.01	0.5	6	<20	<5	4		<5	4.1
HP130	5873	0.02	<5	<1	<2		6	6	0.01	<5	<20	195	<100	<25	<0.01	0.2	5	<20	<5	5		<5	3.7
HP131	5751	0.04	<5	11	<2		5	<5	0.05	<5	<20	54	<100	<25	<0.01	4.0	18	<20	<5	90		<5	2.2
HP131	5868	0.07	<5	1	7		4	<5	0.02	<5	<20	>2000	<100	<25	<0.01	0.2	9	<20	<5	3		<5	2.8
HP131	5869	0.02	<5	<1	<2		2	8	0.01	<5	<20	488	<100	<25	<0.01	0.5	4	<20	<5	<2		<5	3.7
HP131	5870	0.03	<5	<1	<2		2	<5	0.02	<5	<20	647	<100	<25	<0.01	0.2	8	<20	<5	<2		<5	3.6
HP131	5871	0.19	<5	99	13		13	6	0.54	<5	<20	87	<100	<25	0.11	18.9	143	<20	45	41		38	1.5
HP132	5741	0.02	<5	<1	<2		2	<5		<5	<20	313	<100	<25	<0.01		8	<20	<5	3		<5	3.9
HP132	5864	0.03	<5	25	<2		2	<5		<5	<20	403	<100	<25	<0.01		10	<20	<5	21		<5	4.0
HP132	5865	0.03	<5	15	<2		1	<5		<5	<20	689	<100	<25	<0.01		5	<20	<5	53		<5	4.0
HP132	5866	0.02	<5	18	<2		1	<5		<5	<20	471	<100	<25	<0.01		2	<20	<5	17		<5	4.0
HP132	5867	0.02	<5	3	<2		<1	<5		<5	<20	696	<100	<25	<0.01		13	<20	<5	7		<5	
HP133	5742	0.05	<5	53	12		9	6	1.56	<5	<20	332	<100	<25	0.02	61.0	92	<20	22	40		<5	2.5
HP133	5743	0.02	<5	<1	<2		3	<5		<5	<20	274	<100	<25	<0.01		3	<20	<5	7		<5	4.0
HP133	5744	1.96	12	42	11		38	8	0.10	<5	<20	139	<100	<25	0.49	0.2	95	<20	10	71		120	2.6
HP133	5745	0.08	<5	47	4		6	<5	0.38	<5	<20	130	<100	<25	0.03	10.3	44	<20	11	47		<5	2.5
HP133	5746	0.04	<5	<1	<2		2	14		<5	<20	505	<100	<25	0.01		11	<20	<5	11		<5	3.9
HP133	5747	0.03	<5	5	6		2	<5		<5	<20	411	<100	<25	<0.01		8	<20	<5	4		<5	3.9
HP133	5748	0.04	<5	<1	<2		2	<5		<5	<20	634	<100	<25	0.02		14	<20	<5	7		<5	3.9
HP133	5749	0.06	<5	19	6		7	<5	0.42	<5	<20	151	<100	<25	0.02	25.0	57	<20	14	11		<5	2.5
HP133	5750	0.05	<5	5	4		4	<5	0.04	<5	<20	115	<100	<25	0.02	<0.2	19	<20	<5	56		<5	2.6
HP133	5861	0.03	<5	16	<2		1	<5		<5	<20	930	<100	<25	0.01		19	<20	<5	29		<5	3.9
HP133	5862	0.03	<5	6	<2		1	<5		<5	<20	1028	<100	<25	0.02		22	<20	<5	7		<5	3.9
HP133	5863	0.04	<5	14	<2		2	10		<5	<20	976	<100	<25	0.01		14	<20	<5	43		<5	4.0
HP134	5875	0.07	<5	17	8		13	10	0.04	<5	<20	45	<100	<25	0.05	1.2	142	<20	<5	11		23	2.3
HP134	5876	0.03	<5	<1	<2		4	7	0.01	<5	<20	721	<100	<25	0.01	0.2	8	<20	<5	11		<5	3.9
HP134	5877	<0.01	<5	<1	<2		6	8	0.03	<5	<20	60	<100	<25	<0.01	0.8	<2	<20	<5	7		<5	4.0
HP134	5878	0.04	<5	<1	<2		5	7	0.01	<5	<20	765	<100	<25	<0.01	0.5	7	<20	<5	8		<5	3.9
HP134	5879	0.08	<5	18	5		7	9	0.05	<5	<20	361	<100	<25	<0.01	3.3	47	<20	<5	54		<5	2.5
HP135	5701	0.06	<5	14	7					8	<20	56	<100	<25	<0.01	1.1	26	<20	<5	38		<5	
HP135	5702	0.15	<5	23	14					11	<20	69	<100	<25	0.07	0.3	30	<20	<5	48		29	
HP135	5703	0.12	<5	29	8					17	<20	54	<100	<25	0.06	0.3	28	<20	<5	62		23	
HP135	5704	0.14	<5	148	7					5	<20	73	<100	<25	0.07	9.9	145	<20	46	384		22	
HP135	5803	0.16	<5	54	7				22.49	7	<20	680	<100	<25	0.01	65.0	435	<20	206	459		10	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
HP135	5804	1992	Lisburne Ridge	Lisburne Ridge	Colville	Limestone	Outcrop	Repr chip	Howard Pass	C–2	9S	21W	26	NE	Umiat	
HP135	5805	1992	Lisburne Ridge	Lisburne Ridge	Colville	Shale	Outcrop	Repr chip	Howard Pass	C–2	9S	21W	26	NE	Umiat	
HP135	5806	1992	Lisburne Ridge	Lisburne Ridge	Colville	Pellet phosphate	Float	Grab	Howard Pass	C–2	9S	21W	26	NE	Umiat	
HP135	5807	1992	Lisburne Ridge	Lisburne Ridge	Colville	Pelletal limestone	Rubblecrop	Repr chip	Howard Pass	C–2	9S	21W	26	NW	Umiat	
HP135	5808	1992	Lisburne Ridge	Lisburne Ridge	Colville	Shale	Rubblecrop	Select	Howard Pass	C–2	9S	21W	26	NW	Umiat	
HP135	5809	1992	Lisburne Ridge	Lisburne Ridge	Colville	Chert	Outcrop	Repr chip	Howard Pass	C–2	9S	21W	26	NE	Umiat	
HP135	5810	1992	Lisburne Ridge	Lisburne Ridge	Colville	Shale	Float	Select	Howard Pass	C–2	9S	21W	26	NE	Umiat	
HP135	5811	1992	Lisburne Ridge	Lisburne Ridge	Colville	Pelletal limestone	Float	Repr chip	Howard Pass	C–2	9S	21W	25	SW	Umiat	
HP135	5812	1992	Lisburne Ridge	Lisburne Ridge	Colville	Pelletal limestone	Float	Repr chip	Howard Pass	C–2	9S	21W	26	SE	Umiat	
HP135	5813	1992	Lisburne Ridge	Lisburne Ridge	Colville	Chert/siltstone	Rubblecrop	Select	Howard Pass	C–2	9S	21W	25	SW	Umiat	
HP135	5814	1992	Lisburne Ridge	Lisburne Ridge	Colville	Pelletal limestone	Float	Grab	Howard Pass	C–2	9S	21W	25	SW	Umiat	
HP136	5924	1992	Lisburne Ridge	Lisburne Ridge	Colville	Mudstone	Float	Select	Howard Pass	C–2	9S	21W	34	SW	Umiat	
HP137	5795	1992	Lisburne Ridge	Lisburne Ridge	Colville	Shale	Rubblecrop	Grab	Howard Pass	C–2	10S	21W	3	NW	Umiat	
HP138	5794	1992	Lisburne Ridge	Lisburne Ridge	Colville	Mudstone	Float	Select	Howard Pass	C–2	9S	21W	35	SW	Umiat	
HP139	5796	1992	Lisburne Ridge	Lisburne Ridge	Colville	Mudstone	Float	Select	Howard Pass	C–2	9S	20W	32	NW	Umiat	
HP140	4021	1990		Lisburne Ridge	Colville	Limestone	Float	Grab	Howard Pass	C–1	10S	20W	3	NE	Umiat	
HP141	4006	1990	Kivliktort Mtn West	Kivliktort Mtn	Colville	Shale	Outcrop	Random chip	Howard Pass	B–2	34N	10E	30	SE	Kateel River	
HP142	4005	1990	Kivliktort Mtn West	Kivliktort Mtn	Colville	Chert	Rubblecrop	Grab	Howard Pass	B–2	34N	10E	30	SE	Kateel River	
HP142	4012	1990	Kivliktort Mtn West	Kivliktort Mtn	Colville	Massive sulfides	Rubblecrop	Grab	Howard Pass	B–2	34N	10E	29	NW	Kateel River	6.01
HP142	4013	1990	Kivliktort Mtn West	Kivliktort Mtn	Colville	Massive sulfides	Rubblecrop	Select	Howard Pass	B–2	34N	10E	29	NW	Kateel River	4.35
HP142	4014	1990	Kivliktort Mtn West	Kivliktort Mtn	Colville	Massive sulfides	Float	Grab	Howard Pass	B–2	34N	10E	29	NW	Kateel River	1.70
HP143	5434	1991	Kivliktort Mtn West	Kivliktort Mtn	Colville	Sandstone	Float	Select	Howard Pass	B–2	34N	10E	31	E	Kateel River	10.50
HP143	5435	1991	Kivliktort Mtn West	Kivliktort Mtn	Colville	Sandstone	Float	Select	Howard Pass	B–2	34N	10E	31	E	Kateel River	10.11
HP143	5436	1991	Kivliktort Mtn West	Kivliktort Mtn	Colville	Sandstone	Float	Select	Howard Pass	B–2	34N	10E	31	E	Kateel River	0.07
HP143	5437	1991	Kivliktort Mtn West	Kivliktort Mtn	Colville	Sandstone	Float	Select	Howard Pass	B–2	34N	10E	31	E	Kateel River	2.74
HP143	5438	1991	Kivliktort Mtn West	Kivliktort Mtn	Colville	Sulfides	Float	Select	Howard Pass	B–2	34N	10E	31	E	Kateel River	4.17
HP143	5439	1991	Kivliktort Mtn West	Kivliktort Mtn	Colville	Sulfides	Float	Select	Howard Pass	B–2	34N	10E	31	E	Kateel River	7.63
HP143	5440	1991	Kivliktort Mtn West	Kivliktort Mtn	Colville	Sandstone	Outcrop	Select	Howard Pass	B–2	34N	10E	31	E	Kateel River	0.07
HP143	5441	1991	Kivliktort Mtn West	Kivliktort Mtn	Colville	Sandstone	Float	Select	Howard Pass	B–2	34N	10E	31	E	Kateel River	2.98
HP143	5442	1991	Kivliktort Mtn West	Kivliktort Mtn	Colville	Sandstone	Float	Select	Howard Pass	B–2	34N	10E	31	E	Kateel River	3.42
HP143	5551	1991	Kivliktort Mtn West	Kivliktort Mtn	Colville	Sandstone	Outcrop	Select	Howard Pass	B–2	34N	10E	31		Kateel River	1.59
HP143	5552	1991	Kivliktort Mtn West	Kivliktort Mtn	Colville	Sandstone	Float	Grab	Howard Pass	B–2	34N	10E	31		Kateel River	1.34
HP143	5553	1991	Kivliktort Mtn West	Kivliktort Mtn	Colville	Sandstone	Float	Select	Howard Pass	B–2	34N	10E	31		Kateel River	0.22
HP143	5554	1991	Kivliktort Mtn West	Kivliktort Mtn	Colville	Sandstone	Float	Select	Howard Pass	B–2	34N	10E	31		Kateel River	0.35
HP143	5555	1991	Kivliktort Mtn West	Kivliktort Mtn	Colville	Sandstone	Float	Select	Howard Pass	B–2	34N	10E	31		Kateel River	1.64
HP143	5601	1991	Kivliktort Mtn West	Kivliktort Mtn	Colville	Sandstone	Rubblecrop	Select	Howard Pass	B–2	34N	10E	31	E	Kateel River	5.94
HP143	5602	1991	Kivliktort Mtn West	Kivliktort Mtn	Colville	Massive barite	Float	Select	Howard Pass	B–2	34N	10E	31	E	Kateel River	0.02
HP144	4004	1990		Kivliktort Mtn	Colville	Alluvium	Stream	Placer	Howard Pass	B–2	34N	10E	31	NE	Kateel River	
HP145	4003	1990		Isikut Mtn	Colville	Alluvium	Stream	Placer	Howard Pass	A–2	33N	09E	25	SE	Kateel River	
HP146	4002	1990		Isikut Mtn	Colville	Alluvium	Stream	Placer	Howard Pass	A–2	33N	09E	25	SE	Kateel River	
HP147	4007	1990	Kivliktort Mtn East	Kivliktort Mtn	Colville	Conglomerate	Rubblecrop	Grab	Howard Pass	B–1	33N	10E	13	SW	Kateel River	
HP148	5433	1991	Kivliktort Mtn East	Kivliktort Mtn	Colville	Sandstone	Float	Select	Howard Pass	B–1	33N	10E	13	SW	Kateel River	2.41
HP149	4015	1990	Kivliktort Mtn East	Kivliktort Mtn	Colville	Massive sulfides	Float	Grab	Howard Pass	B–1	33N	10E	13	SE	Kateel River	0.43
HP150	4008	1990	Kivliktort Mtn East	Kivliktort Mtn	Colville	Alluvium	Stream	Placer	Howard Pass	B–1	33N	11E	18	NE	Kateel River	
HP151	5462	1991	Koiyaktot Mtn West	Koiyaktot Mtn	Colville	Sandstone	Float	Select	Howard Pass	A–1	33N	11E	28	NE	Kateel River	0.14
HP152	4119	1991	Koiyaktot Mtn West	Koiyaktot Mtn	Colville	Sandstone	Outcrop	Grab	Howard Pass	A–1	33N	11E	27	SE	Kateel River	
HP152	4120	1991	Koiyaktot Mtn West	Koiyaktot Mtn	Colville	Sandstone	Outcrop	Grab	Howard Pass	A–1	33N	11E	27	SE	Kateel River	
HP153	4025	1990	Koiyaktot Mtn West	Koiyaktot Mtn	Colville	Massive sulfides	Rubblecrop	Select	Howard Pass	A–1	33N	11E	27	SW	Kateel River	3.05
HP154	4026	1990	Koiyaktot Mtn West	Koiyaktot Mtn	Colville	Massive sulfides	Rubblecrop	Select	Howard Pass	A–1	34N	11E	34	NE	Kateel River	0.56
HP154	5459	1991	Koiyaktot Mtn West	Koiyaktot Mtn	Colville	Sulfides	Float	Select	Howard Pass	A–1	33N	11E	34	N	Kateel River	7.15
HP154	5460	1991	Koiyaktot Mtn West	Koiyaktot Mtn	Colville	Quartz vein	Float	Select	Howard Pass	A–1	33N	11E	34	N	Kateel River	0.69
HP154	5461	1991	Koiyaktot Mtn West	Koiyaktot Mtn	Colville	Quartz vein	Float	Select	Howard Pass	A–1	33N	11E	27	SW	Kateel River	0.19
HP154	5464	1991	Koiyaktot Mtn West	Koiyaktot Mtn	Colville	Gossan	Float	Select	Howard Pass	A–1	33N	11E	27	SW	Kateel River	1.88
HP154	5605	1991	Koiyaktot Mtn West	Koiyaktot Mtn	Colville	Quartz veins	Float	Select	Howard Pass	A–1	33N	11E	34	N	Kateel River	0.71
HP155	4010	1990	Koiyaktot Mtn West	Koiyaktot Mtn	Colville	Massive sulfides	Outcrop	Select	Howard Pass	A–1	33N	11E	34	NW	Kateel River	
HP156	4009	1990	Koiyaktot Mtn West	Koiyaktot Mtn	Colville	Massive sulfides	Rubblecrop	Grab	Howard Pass	A–1	33N	11E	34	NW	Kateel River	7.48
HP157	4063	1991		Koiyaktot Mtn trib	Colville	Conglomerate	Float	Grab	Howard Pass	A–1	33N	12E	31	SW	Kateel River	
HP158	4118	1991	Koiyaktot Mtn East	Koiyaktot Mtn	Colville	Sandstone	Float	Grab	Howard Pass	A–1	32N	12E	9	NW	Kateel River	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
HP135	5804	1.3	0.28	12		964			<5	>10.00	21.4	6	112		27		0.3	12	0.12	114	3	2.54	868		10
HP135	5805	7.5	3.88	64		713			22	>10.00	132.8	3	668		101		1.77	17	1.33	46	19	4.35	1773		93
HP135	5806	2.0	0.27	9		595			10	>10.00	21.3	4	79		23		0.27	13	0.11	94	<2	1.34	553		9
HP135	5807	1.4	0.33	13		735			5	>10.00	29.5	3	109		25		0.25	<10	0.13	85	<2	3.43	1282		12
HP135	5808	7.8	2.28	11		662			29	>10.00	3.2	3	608		68		0.86	15	0.89	44	16	6.25	1254		21
HP135	5809	0.8	0.20	<5		157			<5	8.27	<2.0	3	535		12		0.44	<10	0.07	12	4	3.83	95		5
HP135	5810	3.0	3.04	21		1678			6	1.66	23	2	256		234		1.26	14	0.79	21	20	0.53	702		67
HP135	5811	1.3	0.37	<5		313			9	>10.00	<2.0	3	274		21		0.3	11	0.13	36	3	6.09	764		7
HP135	5812	2.7	0.37	23		849			15	>10.00	13.4	4	179		29		0.36	17	0.16	123	<2	4.08	1201		6
HP135	5813	1.1	0.14	12		86			<5	5.04	<2.0	2	592		11		0.47	<10	0.05	9	6	2.51	61		4
HP135	5814	3.7	0.25	8		303			13	>10.00	19.1	6	128		24		0.25	<10	0.10	95	<2	2.96	576		9
HP136	5924	1.6	0.35	18	7	192			<5	3.57	<2.0	4	487		20		0.42	<10	0.14	<5	10	1.73	48		8
HP137	5795	4.0	0.81	9	5	374			6	6.81	<2.0	5	319		34		0.39	<10	0.25	10	9	3.59	59		6
HP138	5794	<0.5	1.34	17	9	859			<5	0.04	<2.0	5	243		17		0.74	<10	0.46	<5	21	0.22	44		<1
HP139	5796	1.8	0.21	34	4	163			14	>10.00	15.6	3	175		14		0.25	10	0.08	69	<2	1.87	41		11
HP140	4021	<0.2	0.46	9	5	1127			19	>10.00	<1.0	12	35		7		1.2	<2	0.14	10	3	0.48	800		<1
HP141	4006	0.7	4.96	10	5	467			<5	0.14	<1.0	14	137		20		5.02	<2	0.82	36	48	0.80	400		<1
HP142	4005	0.4	4.27	<5	8	1051			<5	0.23	<1.0	12	150		16		4.22	<2	0.89	38	40	0.71	300		<1
HP142	4012	>50.0	1.02	115	131	172			140	<0.05	730	39	182		171		1.98	8	0.33	<1	24	<0.05	<100		107
HP142	4013	>50.0	0.67	149		87			251	<0.05	1712	93	140		328		1.45	19	0.25	2	19	<0.05	<100		171
HP142	4014	>50.0	1.24	87	94	358			76	<0.05	394	16	228		100		0.78	<2	0.41	2	26	<0.05	<100		51
HP143	5434	>50.0	1.24	80	35	336			108	0.02	888.5	17	182		243		1.15	26	0.45	<5	19	0.03	20		60
HP143	5435	>50.0	1.21	81	10	179			143	0.02	999.7	26	219		71		0.96	<10	0.43	<5	22	0.03	18		99
HP143	5436	2.5	0.43	<5	3	>2000			<5	0.02	5.8	7	242		4		0.48	<10	0.37	<5	14	0.01	48		<1
HP143	5437	>50.0	0.63	64	50	311			123	0.02	946.4	25	308		138		0.86	13	0.24	<5	19	0.01	19		51
HP143	5438	>50.0	0.69	206	96	90			239	0.04	>2000	123	93		535		1.96	29	0.32	<5	6	0.01	10		151
HP143	5439	>50.0	0.44	145	35	141			191	0.02	1594.6	39	275		165		1.03	21	0.14	<5	13	<0.01	21		139
HP143	5440	2.5	0.56	<5	3	>2000			<5	0.02	9.9	12	416		6		0.44	<10	0.30	<5	18	0.01	154		<1
HP143	5441	>50.0	0.97	58	65	378			86	0.02	582.9	23	343		160		1.09	14	0.36	<5	30	0.03	22		38
HP143	5442	>50.0	0.79	78	124	267			112	0.02	798.9	30	250		284		1.24	23	0.27	<5	36	0.02	19		51
HP143	5551	43.1	0.45	35	17	>2000			<5	0.02	4.2	9	254		26		0.29	<10	0.30	<5	21	0.01	72		<1
HP143	5552	42.5	0.89	19	29	1620			27	0.01	147.8	5	325		46		0.67	11	0.39	<5	23	0.02	25		<1
HP143	5553	6.9	0.87	23	17	921			42	0.01	187.6	10	458		77		0.57	10	0.36	<5	8	0.01	30		<1
HP143	5554	9.0	0.47	35	17	>2000			21	0.02	15.1	19	182		90		0.43	14	0.28	<5	10	<0.01	28		<1
HP143	5555	49.7	1.18	9	53	895			38	0.02	188.6	10	206		105		0.67	<10	0.52	<5	37	0.03	14		<1
HP143	5601	>50.0	0.53	125	13	510			155	<0.01	1009.3	38	223		30		1.14	<10	0.13	<5	16	0.08	24		183
HP143	5602	0.6	0.44	<5	1	>2000			8	0.04	2.6	29	71		36		1.07	<10	0.12	<5	9	0.08	29		<1
HP144	4004	1.4	4.65	<5	5	490			17	0.19	<1.0	41	189		37		>10.00	<2	1.05	21	24	0.29	2500		<1
HP145	4003	1.1	5.38	<5	16	840			5	0.10	<1.0	32	303		41		9.58	<2	1.00	24	40	0.26	2100		<1
HP146	4002	1.8	5.13	31	7	1196			7	0.11	<1.0	45	263		54		>10.00	<2	1.04	25	44	0.30	3200		<1
HP147	4007	2.5	2.76	34	6	288			<5	<0.05	<1.0	55	168		23		>10.00	<2	0.47	20	20	0.06	6500		5
HP148	5433	>50.0	0.69	79	140	184			<5	0.02	2.4	2	264		168		0.84	<10	0.61	<5	14	0.02	69		<1
HP149	4015	15.7	0.95	376	220	132			180	<0.05	1062	79	239		394		3.16	3	0.43	5	20	0.06	200		122
HP150	4008	1.9	3.92	<5	4	396			8	0.06	<1.0	45	321		38		>10.00	<2	0.87	22	22	0.21	4500		<1
HP151	5462	3.8	0.88	<5	6	198			<5	0.02	7.4	<1	242		21		0.64	<10	0.67	<5	11	0.02	13		<1
HP152	4119	<0.5	2.29	6	<1	179			<5	0.02	<2.0	3	195		7		3.15	<10	0.49	26	13	0.11	752		2
HP152	4120	<0.5	0.93	<5	1	65			<5	0.11	<2.0	10	187		2		>10.00	<10	0.19	21	10	0.53	7370		1
HP153	4025	>50.0	0.53	57		167			145	<0.05	687	62	321		531		3.77	<2	0.22	<1	12	<0.05	<100		83
HP154	4026	21.0	1.23	59	52	400			41	<0.05	81	12	284		41		2.1	<2	0.48	9	33	<0.05	<100		15
HP154	5459	>50.0	0.15	174	108	11			220	<0.01	1273.9	64	200		404		3.47	26	0.05	<5	6	<0.01	20		147
HP154	5460	19.3	0.56	<5	72	106			<5	0.02	2.5	2	414		140		0.61	<10	0.39	<5	29	0.02	38		<1
HP154	5461	7.1	1.09	<5	16	169			<5	0.03	6.1	3	401		55		1.7	<10	0.61	<5	23	0.03	230		<1
HP154	5464	>50.0	0.75	95	336	219			133	<0.01	782.2	66	233		652		3.88	16	0.30	<5	12	0.02	35		72
HP154	5605	22.1	1.85	10	11	200			18	0.05	46.5	3	358		131		2.05	11	0.41	13	26	0.13	269		13
HP155	4010	10.5	1.52	<5	12	200			11	0.20	13	14	184		6		>10.00	<2	0.58	11	7	0.52	6300		2
HP156	4009	>50.0	0.06	209		8			359	<0.05	1679	80	99		204		4.87	3	<0.05	<1	6	<0.05	<100		216
HP157	4063	1.5	1.63	68	<1	151			7	0.80	<2.0	63	185		17		>10.00	<10	0.33	12	8	0.91	7692		3
HP158	4118	1.3	1.55	16	1	74			<5	0.01	<2.0	<1	233		4		0.32	<10	0.19	23	5	0.07	30		<1

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Ti %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
HP135	5804	0.18	<5	47	15				25.48	8	<20	776	<100	<25	0.01	84.0	406	<20	218	425		9	
HP135	5805	0.42	<5	192	20				4.16	20	<20	209	<100	<25	0.23	36.0	>2000	<20	73	1695		90	
HP135	5806	0.18	<5	49	4				29.20	<5	<20	784	<100	<25	0.01	94.0	317	<20	174	465		7	
HP135	5807	0.16	<5	47	12				23.56	11	<20	782	<100	<25	0.01	78.0	397	<20	160	371		7	
HP135	5808	0.21	<5	191	13				0.78	16	<20	91	<100	<25	0.11	8.8	364	<20	45	333		40	
HP135	5809	0.05	<5	26	4				0.30	7	<20	40	<100	<25	<0.01	2.4	29	<20	9	56		<5	
HP135	5810	0.83	<5	137	5				1.06	20	<20	365	<100	<25	0.18	33.0	1547	<20	52	806		151	
HP135	5811	0.07	<5	39	10				3.67	11	<20	113	<100	<25	0.02	11.6	144	<20	65	126		10	
HP135	5812	0.15	<5	47	12				20.29	21	<20	648	<100	<25	0.02	62.0	426	<20	252	297		<5	
HP135	5813	0.05	<5	23	4				0.14	<5	<20	24	<100	<25	<0.01	1.8	22	<20	8	29		<5	
HP135	5814	0.19	<5	67	10				24.70	16	<20	664	<100	<25	0.01	56.0	474	<20	186	444		12	
HP136	5924	0.06	<5	55	67		9	10	0.26	<5	<20	60	<100	<25	0.01	1.7	91	<20	7	86		<5	
HP137	5795	0.05	<5	90	52		10	16	0.41	<5	<20	37	<100	<25	0.03	3.7	148	<20	26	174		8	
HP138	5794	0.12	<5	16	120		7	10	0.01	<5	<20	67	<100	<25	0.06	<0.2	20	<20	<5	97		24	
HP139	5796	0.09	<5	70	28		7	10	20.23	<5	<20	409	<100	<25	<0.01	53.0	316	<20	144	337		<5	
HP140	4021	0.17	4	29		0.00	<20	25		18	<20	310	<1	<10	0.07		51	<10	14		0.01	6	
HP141	4006	0.58	15	52		0.00	<20	26		<5	<20	59	<1	<10	0.36		93	<10	24		0.01	148	
HP142	4005	0.57	11	48		0.00	<20	33		<5	<20	62	<1	<10	0.41		101	<10	27		0.02	155	
HP142	4012	<0.05	2	9		2.08	<20	<88		117	<20	17	<1	121	0.07		21	<10	8		15.82	19	
HP142	4013	<0.05	2	16		2.76				248	59	20	<1	218	<0.05		13	<10	4		31.50	14	
HP142	4014	<0.05	<1	11		1.58	<20	<70		46	55	27	<1	54	0.09		24	<10	8		7.36	25	
HP143	5434	0.20	9	<1	2300	0.25	<1	<5		272	67	13	<5	49	0.09		16	<20	<5	>20000	14.03	31	
HP143	5435	0.21	9	<1	867	0.10	<1	<5		113	66	18	<5	37	0.08		15	<20	<5	>20000	23.50	29	
HP143	5436	0.21	12	7	733	0.11	4	<5		13	<20	427	<5	<25	0.07		12	<20	<5	1467	0.16	25	
HP143	5437	0.15	8	<1	7486	0.69	1	<5		112	59	13	<5	<25	0.05		7	<20	<5	>20000	15.13	19	
HP143	5438	0.43	14	23	607	0.06	<1	<5		306	103	8	<5	80	0.02		3	256	<5	>20000	54.71	26	
HP143	5439	0.17	7	3	7996	0.72	2	8		163	86	21	<5	66	0.02		<2	<20	<5	>20000	34.60	12	
HP143	5440	0.19	10	12	817	0.09	2	<5		5	<20	243	<5	<25	0.09		16	<20	<5	2311	0.20	27	
HP143	5441	0.17	7	<1	>10000	1.54	1	10		143	44	112	<5	48	0.05		13	<20	<5	>20000	9.34	22	
HP143	5442	0.16	6	<1	>10000	1.14	2	5		166	68	42	<5	<25	0.04		8	<20	<5	>20000	12.99	17	
HP143	5551	0.14	5	10	>10000	3.22	<1	<5		160	<20	184	<5	<25	0.10		14	<20	<5	1255	0.09	32	
HP143	5552	0.14	<5	<1	>10000	1.07	<1	<5		75	<20	21	<5	<25	0.09		15	<20	<5	>20000	2.74	32	
HP143	5553	0.14	<5	<1	4328	0.41	<1	<5		30	21	34	<5	<25	0.02		14	<20	6	>20000	4.34	25	
HP143	5554	0.29	8	<1	1814	0.20	<1	<5		31	<20	668	<5	<25	0.02		14	<20	<5	3830	0.38	24	
HP143	5555	0.18	<5	<1	>10000	1.31	<1	<5		100	26	21	<5	<25	0.09		20	<20	<5	>20000	4.11	32	
HP143	5601	0.01	<5	7	4949	0.49	<1	<5		103	88	19	<5	<25	0.06		11	<20	<5	>20000	31.42	13	
HP143	5602	0.18	<5	8	166	0.03	<1	<5		<5	<20	484	<5	<25	0.04		10	<20	6	1036	0.07	15	
HP144	4004	0.24	10	103		0.00	<20	32		<5	<20	75	<1	<10	0.26		128	<10	20		0.02	90	
HP145	4003	0.22	12	85		0.00	<20	36		<5	<20	128	<1	<10	0.28		121	22	21		0.03	109	
HP146	4002	0.24	14	115		0.01	<20	22		<5	<20	115	<1	<10	0.26		142	25	25		0.03	106	
HP147	4007	0.11	11	109		0.03	<20	24		15	<20	152	<1	15	0.19		88	<10	15		0.44	83	
HP148	5433	0.16	11	24	>10000	4.31	1	6		165	<20	20	<5	<25	0.16		34	<20	<5	518	0.12	39	
HP149	4015	0.13	5	147		0.07	<20	<150		881	73	18	<1	165	0.09		25	<10	2		19.57	53	
HP150	4008	0.18	16	106		0.04	<20	31		5	<20	99	8	12	0.25		127	<10	17		0.06	94	
HP151	5462	0.19	10	<1	502	0.07	<1	<5		25	<20	43	14	<25	0.26		33	<20	<5	868	0.13	72	
HP152	4119	0.06	<5	19	<2		<1	<5		<5	<20	147	19	<25	0.15		36	<20	9	37		36	
HP152	4120	0.04	<5	45	<2		<1	<5		<5	<20	119	<5	<25	0.07		33	<20	7	35		12	
HP153	4025	<0.05	<1	11		0.25				147	27	7	<1	93	<0.05		12	<10	6		13.19	5	
HP154	4026	0.05	1	8		1.55	<20	67		16	30	19	<1	<10	0.10		28	<10	12		2.41	31	
HP154	5459	0.03	<5	11	>10000	3.27	<1	<5		402	84	<1	<5	92	<0.01		<2	<20	<5	>20000	43.90	<5	
HP154	5460	0.11	<5	<1	3764	0.41	1	<5		34	<20	5	<5	<25	0.07		19	<20	<5	1136	0.07	16	
HP154	5461	0.19	6	<1	2071	0.22	<1	<5		24	<20	6	<5	<25	0.13		29	<20	<5	2428	0.24	42	
HP154	5464	0.04	<5	<1	377	0.03	<1	<5		144	62	9	<5	53	0.07		11	<20	<5	>20000	16.24	10	
HP154	5605	0.03	<5	11	>10000	1.56	<1	<5		36	<20	28	<5	<25	0.21		46	<20	11	12029	1.19	43	
HP155	4010	0.07	7	53		0.83	<20	26		<5	<20	34	<1	<10	0.12		103	<10	12		0.53	32	
HP156	4009	<0.05	<1	23		0.79				404	87	2	<1	238	<0.05		2	<10	<1		49.91	<1	
HP157	4063	0.07	<5	238	522		2	<5		6	<20	97	<5	<25	0.09		91	<20	35	439		26	
HP158	4118	0.04	<5	6	105		<1	<5		<5	<20	75	8	<25	0.09		26	<20	7	87		19	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
HP159	4115	1991	Kolyaktot Mtn East	Kolyaktot Mtn	Colville	Sandstone	Float	Select	Howard Pass	A–1	32N	12E	9	NW	Kateel River	
HP160	4059	1991	Kolyaktot Mtn East	Kolyaktot Mtn	Colville	Massive sulfides	Rubblecrop	Grab	Howard Pass	A–1	32N	12E	9	NW	Kateel River	33.92
HP160	4060	1991	Kolyaktot Mtn East	Kolyaktot Mtn	Colville	Massive sulfides	Rubblecrop	Select	Howard Pass	A–1	32N	12E	9	NW	Kateel River	15.66
HP160	4061	1991	Kolyaktot Mtn East	Kolyaktot Mtn	Colville	Massive sulfides	Rubblecrop	Select	Howard Pass	A–1	32N	12E	9	NW	Kateel River	10.07
HP160	4062	1991	Kolyaktot Mtn East	Kolyaktot Mtn	Colville	Massive sulfides	Rubblecrop	Select	Howard Pass	A–1	32N	12E	9	NW	Kateel River	
HP160	4116	1991	Kolyaktot Mtn East	Kolyaktot Mtn	Colville	Massive sulfides	Rubblecrop	Select	Howard Pass	A–1	32N	12E	9	NE	Kateel River	53.59
HP160	4128	1991	Kolyaktot Mtn East	Kolyaktot Mtn	Colville	Massive sulfides	Float	Grab	Howard Pass	A–1	32N	12E	9	NE	Kateel River	28.00
HP160	4129	1991	Kolyaktot Mtn East	Kolyaktot Mtn	Colville	Massive sulfides	Float	Grab	Howard Pass	A–1	32N	12E	9	NE	Kateel River	4.14
HP160	5565	1991	Kolyaktot Mtn East	Kolyaktot Mtn	Colville	Quartz vein	Float	Grab	Howard Pass	A–1	32N	12E	9	NE	Kateel River	3.69
KR1	4219	1991	Ivotuk Hills	Otuk Creek	Colville	Limestone	Outcrop	Select	Killik River	B–5	11S	16W	20	NW	Kateel River	
KR1	5706	1992	Ivotuk Hills	Ivotuk Hills	Colville	Chert	Float	Select	Killik River	B–5	11S	16W	14	SW	Umiat	
KR2	4016	1990		Otuk Creek	Colville	Shale	Outcrop	Random chip	Killik River	B–5	11S	16W	20	NW	Umiat	
KR2	4080	1991	Ivotuk Hills	Otuk Creek	Colville	Limestone	Outcrop	Random chip	Killik River	B–5	11S	16W	20	NW	Umiat	
KR2	5705	1992	Ivotuk Hills	Ivotuk Hills	Colville	Chert	Outcrop	Repr chip	Killik River	B–5	11S	16W	23	NW	Umiat	
KR3	4141	1991	Cone Hill	Iterlak Creek	Colville	Mafic intrusive	Rubblecrop	Grab	Killik River	B–5	11S	15W	20	NW	Umiat	
KR3	5708	1992	Ivotuk Hills	Ivotuk Hills	Colville	Chert	Float	Select	Killik River	B–5	11S	16w	24	NW	Umiat	
KR4	4023	1990		Otuk Creek	Colville	Alluvium	Stream	Placer	Killik River	B–5	34N	14E	30	NE	Kateel River	
KR4	5707	1992	Ivotuk Hills	Ivotuk Hills	Colville	Chert	Float	Select	Killik River	B–5	11S	16W	24	NW	Umiat	
KR5	4024	1990		Otuk Creek	Colville	Alluvium	Stream	Placer	Killik River	B–5	12S	16W	30	SE	Umiat	
KR5	5801	1992	Ivotuk Hills	Ivotuk Hills	Colville	Chert/limestone	Float	Select	Killik River	B–5	11S	16W	24	SW	Umiat	
KR6	4112	1991		Nigu River	Colville	Conglomerate	Float	Select	Killik River	A–5	33N	13E	29	NW	Kateel River	
KR6	5802	1992	Ivotuk Hills	Ivotuk Hills	Colville	Chert/limestone	Outcrop	Chip channel	Killik River	B–5	11S	16W	24	SE	Umiat	
KR7	4113	1991		Nigu River	Colville	Sandstone	Float	Select	Killik River	A–5	33N	13E	29	NE	Kateel River	
KR8	4114	1991		Nigu River	Colville	Conglomerate	Float	Select	Killik River	A–5	32N	13E	2	NW	Kateel River	
KR9	4117	1991		Ivotuk Creek	Colville	Sandstone	Float	Grab	Killik River	A–5	33N	14E	4	NW	Kateel River	
KR10	4225	1991		Slaviat Mtn trib	Colville	Quartz	Float	Grab	Killik River	A–5	31N	15E	19	SE	Kateel River	
KR10	4226	1991		Slaviat Mtn trib	Colville	Chert	Float	Grab	Killik River	A–5	31N	15E	19	SE	Kateel River	
KR11	4145	1991	Vidlee	Itillarglok Creek	Colville	Sandstone	Outcrop	Chip channel	Killik River	A–4	32N	16E	32	SW	Kateel River	
KR11	4146	1991	Vidlee	Itillarglok Creek	Colville	Sandstone	Outcrop	Chip channel	Killik River	A–4	32N	16E	32	SW	Kateel River	2.90
KR11	4147	1991	Vidlee	Itillarglok Creek	Colville	Sandstone	Outcrop	Chip channel	Killik River	A–4	32N	16E	32	SW	Kateel River	
KR11	4148	1991	Vidlee	Itillarglok Creek	Colville	Sandstone	Outcrop	Chip channel	Killik River	A–4	32N	16E	32	SW	Kateel River	8.48
KR11	4149	1991	Vidlee	Itillarglok Creek	Colville	Sandstone	Outcrop	Chip channel	Killik River	A–4	32N	16E	32	SW	Kateel River	8.68
KR11	4150	1991	Vidlee	Itillarglok Creek	Colville	Sandstone	Outcrop	Select	Killik River	A–4	32N	16E	32	SW	Kateel River	37.54
KR12	4130	1991	Vidlee	Itillylarglok Creek	Colville	Quartz	Float	Grab	Killik River	A–4	32N	16E	31	NE	Kateel River	
KR13	4134	1991	Vidlee	Itillylarglok Creek	Colville	Quartz	Outcrop	Random chip	Killik River	A–4	32N	16E	31	NW	Kateel River	
KR14	4133	1991	Vidlee	Itillylarglok Creek	Colville	Sandstone	Outcrop	Random chip	Killik River	A–4	32N	16E	30	SE	Kateel River	
KR15	4131	1991	Vidlee	Itillylarglok Creek	Colville	Sandstone	Outcrop	Random chip	Killik River	A–4	32N	16E	30	SE	Kateel River	
KR15	4132	1991	Vidlee	Itillylarglok Creek	Colville	Quartz	Outcrop	Random chip	Killik River	A–4	32N	16E	30	SE	Kateel River	
KR16	4151	1991	Vidlee	Itillarglok Creek	Colville	Sandstone	Rubblecrop	Select	Killik River	A–4	32N	16E	29	SW	Kateel River	
KR16	4152	1991	Vidlee	Itillarglok Creek	Colville	Sandstone	Outcrop	Select	Killik River	A–4	32N	16E	29	SW	Kateel River	
KR17	4153	1991	Outwash Ck SW	Outwash Creek trib	Colville	Conglomerate	Rubblecrop	Select	Killik River	A–4	32N	16E	20	SE	Kateel River	
KR17	4154	1991	Outwash Ck SW	Outwash Creek trib	Colville	Sandstone	Rubblecrop	Select	Killik River	A–4	32N	16E	20	SE	Kateel River	
KR18	4156	1991	Outwash Ck SSW	Outwash Creek trib	Colville	Quartz/shale	Outcrop	Select	Killik River	A–4	32N	16E	28	NW	Kateel River	10.27
KR18	4157	1991	Outwash Ck SSW	Outwash Creek trib	Colville	Quartz	Rubblecrop	Select	Killik River	A–4	32N	16E	28	NW	Kateel River	3.72
KR18	4158	1991	Outwash Ck SSW	Outwash Creek trib	Colville	Quartz	Outcrop	Select	Killik River	A–4	32N	16E	28	NW	Kateel River	
KR19	4159	1991	Outwash Ck SSW	Outwash Creek trib	Colville	Felsic intrusive	Float	Grab	Killik River	A–4	32N	16E	21	SW	Kateel River	
KR20	4160	1991		Outwash Creek trib	Colville	Conglomerate	Float	Grab	Killik River	A–4	32N	16E	16	SE	Kateel River	
KR21	4136	1991	Outwash Ck West	Etivluk Creek	Colville	Quartz	Float	Grab	Killik River	A–4	32N	16E	20	NE	Kateel River	
KR21	4137	1991	Outwash Ck West	Etivluk Creek	Colville	Quartz	Float	Grab	Killik River	A–4	32N	16E	17	SW	Kateel River	
KR21	4138	1991	Outwash Ck West	Etivluk Creek	Colville	Quartz	Outcrop	Random chip	Killik River	A–4	32N	16E	17	SW	Kateel River	
KR22	4135	1991	Outwash Ck West	Etivluk Creek	Colville	Quartz	Float	Grab	Killik River	A–4	32N	16E	17	SW	Kateel River	
KR22	4139	1991	Outwash Ck West	Etivluk Creek	Colville	Quartz	Float	Grab	Killik River	A–4	32N	16E	17	SW	Kateel River	4.99
KR23	4184	1991		Outwash Creek trib	Colville	Quartz	Rubblecrop	Grab	Killik River	A–4	32N	16E	1	SE	Kateel River	
KR24	4178	1991	Outwash Ck NE	Outwash Creek trib	Colville	Sandstone	Float	Grab	Killik River	A–4	32N	16E	11	SE	Kateel River	
KR24	4179	1991	Outwash Ck NE	Outwash Creek trib	Colville	Sandstone	Outcrop	Select	Killik River	A–4	32N	16E	11	SE	Kateel River	
KR25	4201	1991	Outwash Ck NE	Outwash Creek trib	Colville	Sandstone	Outcrop	Select	Killik River	A–4	32N	16E	11	SE	Kateel River	
KR26	4202	1991	Outwash Ck South	Outwash Creek trib	Colville	Sandstone	Rubblecrop	Grab	Killik River	A–4	32N	17E	18	SW	Kateel River	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
HP159	4115	6.1	2.05	<5	3	158			<5	0.94	<2.0	17	157		13		>10.00	<10	0.57	16	7	0.55	6465		1
HP160	4059	>50.0	0.11	145	4	24			134	<0.01	1130.5	43	68		389		3.69	19	0.05	<5	<2	0.05	24		148
HP160	4060	>50.0	0.44	85	5	22			112	0.01	856.1	31	167		503		2.35	<10	0.15	<5	13	0.06	28		125
HP160	4061	>50.0	0.29	94	2	17			76	<0.01	614.3	19	269		382		1.99	<10	0.09	<5	16	0.05	28		91
HP160	4062	47.8	1.69	25	84	74			10	0.03	11.3	<1	324		818		1.76	<10	0.62	19	29	0.08	402		10
HP160	4116	>50.0	0.28	104	81	11			135	<0.01	1404.1	42	85		430		3.35	<10	0.11	<5	<2	0.05	161		154
HP160	4128	>50.0	0.50	26	109	45			<5	0.02	7	5	282		875		0.57	<10	0.23	18	18	0.02	50		77
HP160	4129	>50.0	1.29	7	58	118			<5	0.05	2.3	<1	347		437		0.45	<10	0.52	23	30	0.09	51		5
HP160	5565	>50.0	1.44	14	101	69			6	0.03	25	3	357		1376		1.54	<10	0.50	18	25	0.11	242		6
KR1	4219	4.0	0.44	41	4	403			<5	>10.00	42.4	6	206		72		0.29	<10	0.20	138	6	0.28	51		31
KR1	5706	0.6	0.18	19		137			<5	0.65	<2.0	1	697		20		0.59	<10	0.06	19	7	0.11	71		7
KR2	4016	3.8	0.52	148	3	110			<5	3.75	<1.0	7	743		13		>10.00	<2	0.12	23	11	2.86	700		2
KR2	4080	0.8	0.30	54	1	283			<5	>10.00	18.8	6	104		23		0.44	<10	0.09	87	3	0.32	187		11
KR2	5705	1.7	0.18	7		59			15	>10.00	<2.0	<1	232		10		0.23	11	0.07	7	6	7.05	180		4
KR3	4141	0.6	4.52	33	2	160			6	5.03	<2.0	31	47		88		>10.00	13	0.31	10	9	1.90	1517		9
KR3	5708	<0.5	0.28	16		107			<5	1.73	<2.0	3	548		13		0.61	<10	0.06	<5	11	0.97	94		3
KR4	4023	0.5	6.14	5	5	>2000			<5	0.23	<1.0	37	378		42		9.51	<2	1.05	27	82	0.53	1800		<1
KR4	5707	0.9	0.17	5		66			<5	3.98	<2.0	6	428		12		0.42	<10	0.05	<5	10	2.04	139		3
KR5	4024	2.1	3.29	11	8	982			<5	0.22	<1.0	43	1103		54		>10.00	<2	0.76	7	46	0.40	3500		2
KR5	5801	<0.5	0.30	29		80			7	>10.00	<2.0	4	446		9		0.42	<10	0.11	9	10	5.41	77		1
KR6	4112	<0.5	2.75	71	2	157			<5	>10.00	<2.0	17	92		20		4.87	<10	0.73	30	19	3.71	5002		5
KR6	5802	0.9	0.24	<5		56			15	5.54	<2.0	1	491		8		0.45	<10	0.07	<5	20	2.71	59		3
KR7	4113	0.8	3.02	52	1	140			17	8.14	<2.0	16	92		25		5.8	17	0.67	21	22	3.57	3090		5
KR8	4114	0.7	0.76	18	4	136			<5	0.05	3.9	<1	406		20		1.35	<10	0.18	21	9	0.08	58		3
KR9	4117	2.5	0.95	26	2	52			6	0.04	4.5	4	240		46		1.27	<10	0.19	5	64	0.11	88		1
KR10	4225	1.0	1.33	27	2	42			<5	1.89	<2.0	10	357		52	<0.01	2.51	<10	0.17	7	132	0.85	596		<1
KR10	4226	3.1	1.28	130	16	45			<5	0.03	<2.0	263	297		16002	1.45	2.88	<10	0.27	5	74	0.10	<5		<1
KR11	4145	5.6	3.59	150	8	121			33	0.25	183.2	4	214		51		1.69	11	1.24	21	10	0.23	244		41
KR11	4146	>50.0	1.15	1274	370	54			44	0.05	243	164	253		3088		2.77	<10	0.72	7	8	0.10	33		35
KR11	4147																								
KR11	4148	3.7	1.84	135	49	117			<5	0.03	4.3	8	334		169		1.76	<10	1.03	18	10	0.13	82		<1
KR11	4149	>50.0	1.58	211	41	86			16	0.18	169.2	<1	305		510		1.28	<10	1.00	19	13	0.12	30		18
KR11	4150	>50.0	0.22	78	168	<5			89	0.01	876.8	9	78		1056		1.75	17	0.08	<5	2	<0.01	13		108
KR12	4130	32.0	0.39	<5	3	48			<5	0.02	<2.0	<1	348		27		0.48	<10	0.12	<5	30	0.07	61		1
KR13	4134	0.8	2.09	30	2	244			11	6.11	<2.0	6	191		473		4.25	<10	0.50	9	10	1.68	3510		<1
KR14	4133	0.7	2.87	44	5	122			<5	0.24	<2.0	1	241		11		2.77	<10	1.10	16	8	0.41	294		2
KR15	4131	0.7	2.02	17	3	200			<5	0.53	<2.0	3	257		9		1.52	<10	0.56	10	10	0.36	329		8
KR15	4132	<0.5	2.36	15	2	186			<5	0.41	<2.0	3	294		8		1.76	<10	0.57	9	18	0.57	159		3
KR16	4151	46.6	0.23	128	27	15			88	0.01	555.5	3	320		82		2.2	<10	0.10	<5	11	0.05	30		114
KR16	4152	32.5	0.80	89	23	35			73	0.04	776	10	385		115		2.05	<10	0.32	12	13	0.07	45		122
KR17	4153	6.9	1.18	1237	4	78			24	0.05	167.7	138	373		49		1.85	<10	0.52	19	<2	0.10	711		38
KR17	4154	3.2	1.50	1741	6	91			26	0.11	205.6	198	245		89		8.87	<10	0.76	12	3	0.23	4370		27
KR18	4156	>50.0	1.25	206	17	14			<5	0.17	6.6	17	192		719	0.08	1.53	<10	0.51	7	7	0.05	418		<1
KR18	4157	>50.0	0.18	153	17	5			<5	0.01	685.1	10	309		785	0.08	1.59	<10	0.06	<5	3	<0.01	123		68
KR18	4158	35.7	0.34	752	70	21			<5	0.05	7.6	89	318		915	0.09	0.7	<10	0.25	16	6	<0.01	33		1
KR19	4159	2.9	0.93	20	11	29			<5	>10.00	287.9	23	33		163	<0.01	6.21	16	0.14	<5	18	2.07	11844		41
KR20	4160	2.9	0.83	36	2	139			<5	0.12	<2.0	<1	337		11	<0.01	0.41	<10	0.21	15	8	0.02	68		<1
KR21	4136	42.2	0.26	1968	91	29			48	0.04	339	352	212		819		>10.00	<10	0.09	<5	3	0.07	153		46
KR21	4137	47.5	1.30	393	9	57			24	0.02	206.9	11	313		133		1.22	<10	0.55	12	6	0.09	103		23
KR21	4138	33.9	0.17	1517	92	23			72	<0.01	418.6	405	256		1627		>10.00	<10	0.05	<5	5	0.06	268		114
KR22	4135	24.1	0.57	618	44	22			152	0.01	1305.4	45	215		2303		4.64	17	0.20	<5	6	0.02	111		175
KR22	4139	>50.0	0.28	135	16	18			93	<0.01	840	6	286		667		2.21	<10	0.10	26	3	0.06	60		110
KR23	4184	0.9	0.68	10	57	67			<5	0.03	4.5	3	336		325	<0.01	0.52	<10	0.19	<5	54	0.02	39		<1
KR24	4178	10.8	0.35	76	35	21			<5	<0.01	<2.0	4	265		45	<0.01	0.33	<10	0.15	<5	29	<0.01	25		<1
KR24	4179	<0.5	1.12	22	2	74			<5	0.68	9.1	53	240		1213	0.13	0.35	<10	0.52	7	12	0.03	174		3
KR25	4201	2.5	0.70	59	22	42			<5	0.15	34.7	24	353		1020	0 09	1.3	<10	0.21	<5	31	0.03	152		7
KR26	4202	5.1	0.71	111	3	46			<5	0 07	83.4	9	472		64	<0 01	1 59	<10	0.26	9	13	0.03	35		32

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
HP159	4115	0.06	<5	62	153	<0.01	<1	<5		<5	<20	133	36	<25	0.15		88	<20	24	637	0.07	33	
HP160	4059	0.03	<5	14	>10000	37.04	19	17		>2,000	149	3	<5	<25	<0.01		<2	<20	<5	>20000	21.86	<5	
HP160	4060	0.05	<5	14	>10000	15.32	10	6		507	135	9	<5	<25	0.03		8	<20	<5	>20000	16.35	<5	
HP160	4061	0.03	<5	14	>10000	14.78	10	<5		446	135	9	<5	<25	0.01		4	<20	<5	>20000	9.31	<5	
HP160	4062	0.05	<5	18	>10000	3.38	<1	<5		57	<20	32	<5	<25	0.09		34	<20	6	2323	0.22	19	
HP160	4116	0.03	<5	14	>10000	31.40	<1	<5		1344	93	4	<5	<25	0.02		3	<20	<5	>20000	23.94	<5	
HP160	4128	0.10	<5	35	>10000	39.89	2	17		290	22	33	88	<25	0.06		15	<20	<5	906	0.10	9	
HP160	4129	0.06	<5	7	>10000	6.65	<1	6		66	<20	53	27	<25	0.14		25	<20	8	300	0.03	34	
HP160	5565	0.03	<5	13	>10000	7.49	1	<5		20	<20	31	76	<25	0.09		29	<20	7	6015	0.55	22	
KR1	4219	0.24	29	84	97		5	11		15	<20	741	<5	<25	<0.01		673	<20	245	365		<5	
KR1	5706	0.06	<5	30	<2					11	<20	16	<100	<25	<0.01	8.4	18	<20	22	42		<5	
KR2	4016	0.12	17	59		0.01	<20	32		14	<20	71	55	78	<0.05		188	40	55		0.05	19	
KR2	4080	0.21	10	49	7		3	7		<5	<20	577	<5	<25	<0.01		307	<20	168	305		10	
KR2	5705	0.03	<5	15	8					14	<20	46	<100	<25	<0.01	1.4	26	<20	<5	42		<5	
KR3	4141	3.36	22	35	201		2	<5		<5	<20	108	74	<25	1.60		406	<20	28	601		97	
KR3	5708	0.09	<5	21	<2					<5	<20	10	<100	<25	0.02	0.9	19	<20	<5	26		<5	
KR4	4023	0.33	14	95		0.01	<20	29		<5	<20	76	<1	<10	0.29		137	24	25		0.31	112	
KR4	5707	0.04	<5	20	4					25	<20	22	<100	<25	<0.01	0.9	18	<20	<5	32		<5	
KR5	4024	0.22	10	113		0.01	<20	43		<5	<20	126	<1	29	0.20		142	<10	17		0.03	78	
KR5	5801	0.04	<5	13	9				0.05	<5	<20	37	<100	<25	0.01	1.6	22	<20	8	30		<5	
KR6	4112	0.40	8	32	<2		3	<5		<5	<20	233	78	<25	0.06		88	<20	56	55		30	
KR6	5802	0.04	<5	10	<2				0.05	9	<20	20	<100	<25	<0.01	0.9	13	<20	<5	23		<5	
KR7	4113	0.52	13	34	<2		<1	6		7	<20	151	53	<25	0.17		77	<20	31	492		40	
KR8	4114	0.05	<5	8	<2		1	<5		<5	<20	58	18	<25	0.05		36	<20	13	320		7	
KR9	4117	0.06	<5	13	279		<1	<5		<5	<20	14	42	<25	0.05		21	<20	<5	558		7	
KR10	4225	0.09	5	32	40	0.01	1	8		<5	<20	36	<5	<25	0.07		31	<20	5	202	0.02	10	
KR10	4226	0.13	33	762	89	0.02	1	5		13	<20	13	<5	<25	0.08		21	<20	<5	23	0.01	14	
KR11	4145	0.11	7	22	1674	0.18	1	10		44	35	22	32	<25	0.36		100	<20	12	>20000	3.08	41	
KR11	4146	0.07	7	31	>10000	2.85	<1	5		211	43	13	16	<25	0.11		32	<20	<5	>20000	2.87	18	
KR11	4147																						
KR11	4148	0.09	<5	15	1699	0.18	<1	7		16	<20	17	28	<25	0.25		73	<20	6	791	0.09	35	
KR11	4149	0.07	<5	8	>10000	2.80	1	<5		439	<20	19	14	<25	0.15		62	<20	14	18415	1.96	23	
KR11	4150	0.02	<5	5	>10000	56.93	4	<5		466	84	3	<5	<25	0.01		3	<20	<5	>20000	9.80	<5	
KR12	4130	0.03	<5	11	>10000	3.47	<1	11		29	<20	20	32	<25	0.02		5	<20	<5	38	<0.01	<5	
KR13	4134	0.53	8	16	<2	<0.01	<1	6		<5	<20	194	59	<25	0.12		49	<20	17	51	<0.01	18	
KR14	4133	0.92	7	17	9		<1	9		<5	<20	52	<5	<25	0.31		81	<20	6	21		36	
KR15	4131	0.64	<5	18	302	0.05	<1	<5		<5	<20	72	5	<25	0.08		41	<20	8	75	0.01	19	
KR15	4132	0.72	<5	20	164		<1	6		<5	<20	81	26	<25	0.12		44	<20	5	42		22	
KR16	4151	0.04	<5	9	>10000	1.40	2	<5		113	38	5	<5	<25	0.01		4	<20	<5	>20000	12.14	<5	
KR16	4152	0.05	<5	19	8962	0.92	2	<5		96	59	17	<5	<25	0.08		21	<20	<5	>20000	10.44	8	
KR17	4153	0.05	<5	729	5838	0.62	2	<5		215	<20	12	<5	<25	0.04		29	<20	6	>20000	2.51	15	
KR17	4154	0.09	<5	1161	850	0.10	2	5		224	27	10	<5	<25	0.05		25	<20	<5	>20000	2.79	18	
KR18	4156	0.07	<5	5	>10000	25.39	1	11		275	21	10	<5	<25	0.05		14	<20	<5	712	0.07	17	
KR18	4157	0.03	<5	12	>10000	7.26	<1	8		323	42	3	<5	<25	<0.01		<2	<20	<5	>20000	9.31	<5	
KR18	4158	0.06	21	28	>10000	3.30	<1	9		216	21	5	<5	<25	0.01		5	<20	<5	1524	0.17	560	
KR19	4159	0.26	55	6	>10000	1.64	1	12		25	21	367	<5	<25	0.03		27	<20	43	>20000	4.96	226	
KR20	4160	0.04	<5	4	399	0.04	<1	<5		<5	<20	72	<5	<25	0.04		38	<20	13	266	0.01	13	
KR21	4136	0.04	<5	59	>10000	1.55	2	18		187	51	4	<5	<25	<0.01		<2	<20	<5	>20000	5.43	<5	
KR21	4137	0.06	<5	12	6126	0.63	<1	8		42	25	10	8	<25	0.07		19	<20	<5	>20000	2.67	9	
KR21	4138	0.03	6	122	>10000	1.95	1	16		174	61	8	34	<25	<0.01		6	<20	<5	>20000	7.05	<5	
KR22	4135	0.09	6	10	2969	0.26	<1	<5		153	130	5	6	105	0.01		6	<20	<5	>20000	24.04	<5	
KR22	4139	0.04	<5	10	>10000	8.93	<1	6		161	66	6	<5	<25	<0.01		6	<20	7	>20000	11.70	<5	
KR23	4184	0.06	<5	8	1453	0.17	<1	<5		<5	<20	7	<5	<25	0.03		13	<20	<5	419	0.04	<5	
KR24	4178	0.05	<5	10	8227	1.09	<1	9		8	<20	4	<5	<25	0.01		8	<20	<5	49	<0.01	<5	
KR24	4179	0.08	<5	99	29	<0.01	<1	8		<5	<20	15	<5	<25	0.08		34	<20	<5	1831	0.20	16	
KR25	4201	0.06	<5	23	23	<0.01	<1	<5		<5	<20	13	<5	<25	0.03		16	<20	<5	5880	0.57	<5	
KR26	4202	0.05	<5	14	6438	0.60	1	7		39	<20	25	<5	<25	0.04		34	<20	11	>20000	1.98	9	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
KR27	4203	1991	Outwash Ck South	Outwash Creek trib	Colville	Sandstone	Rubblecrop	Select	Killik River	A–4	32N	17E	18	SW	Kateel River	
KR28	4193	1991		Kakivilak Creek	Colville	Quartz	Float	Grab	Killik River	A–4	32N	17E	33	SW	Kateel River	9.78
KR29	4194	1991	Kakivilak Creek	Kakivilak Creek	Colville	Shale	Float	Grab	Killik River	A–4	32N	17E	28	SE	Kateel River	
KR30	4217	1991	Kakivilak Ck North	Kakivilak Creek	Colville	Quartz	Outcrop	Select	Killik River	A–4	32N	17E	22	SW	Kateel River	
KR31	4195	1991	Kakivilak Ck North	Kakivilak Creek	Colville	Shale	Outcrop	Select	Killik River	A–4	32N	17E	22	NW	Kateel River	
KR31	4218	1991	Kakivilak Ck North	Kakivilak Creek	Colville	Quartz	Rubblecrop	Select	Killik River	A–4	32N	17E	22	SW	Kateel River	
KR32	4196	1991	Kakivilak Ck North	Kakivilak Creek	Colville	Quartz	Outcrop	Select	Killik River	A–4	32N	17E	22	NW	Kateel River	2.76
KR32	4197	1991	Kakivilak Ck North	Kakivilak Creek	Colville	Quartz	Outcrop	Select	Killik River	A–4	32N	17E	22	NW	Kateel River	
KR33	4183	1991	Kady	Outwash Creek trib	Colville	Massive sulfides	Rubblecrop	Select	Killik River	A–4	32N	17E	9	NW	Kateel River	1.60
KR34	4181	1991	Kady	Outwash Creek trib	Colville	massive sulfides	Rubblecrop	Grab	Killik River	A–4	32N	17E	4	SW	Kateel River	
KR34	4182	1991	Kady	Outwash Creek trib	Colville	Massive sulfides	Rubblecrop	Select	Killik River	A–4	32N	17E	4	SW	Kateel River	2.68
KR35	4174	1991	Kady	Outwash Creek trib	Colville	Sandstone	Outcrop	Select	Killik River	A–4	32N	17E	4	SE	Kateel River	
KR36	4071	1991	Kady	Outwash Creek trib	Colville	Massive sulfides	Rubblecrop	Select	Killik River	A–4	32N	17E	3	SW	Kateel River	2.14
KR36	4072	1991	Kady	Outwash Creek trib	Colville	Massive sulfides	Rubblecrop	Select	Killik River	A–4	32N	17E	3	SW	Kateel River	4.04
KR36	5443	1991	Kady	Outwash Creek	Colville	Quartz vein	Float	Select	Killik River	A–4	32N	17E	4	SW	Kateel River	21.73
KR36	5444	1991	Kady	Outwash Creek	Colville	Quartz vein	Outcrop	Random chip	Killik River	A–4	32N	17E	4	SW	Kateel River	0.29
KR36	5445	1991	Kady	Outwash Creek	Colville	Sulfides	Float	Select	Killik River	A–4	32N	17E	4	SW	Kateel River	0.55
KR36	5446	1991	Kady	Outwash Creek	Colville	Quartz vein	Rubblecrop	Random chip	Killik River	A–4	32N	17E	4	SW	Kateel River	0.37
KR36	5447	1991	Kady	Outwash Creek	Colville	Quartz vein	Float	Random chip	Killik River	A–4	32N	17E	4	SW	Kateel River	0.48
KR36	5448	1991	Kady	Outwash Creek	Colville	Quartz vein	Outcrop	Contin chip	Killik River	A–4	32N	17E	4	SW	Kateel River	0.28
KR36	5449	1991	Kady	Outwash Creek	Colville	Quartz vein	Outcrop	Grab	Killik River	A–4	32N	17E	4	SW	Kateel River	0.59
KR36	5450	1991	Kady	Outwash Creek	Colville	Quartz vein	Rubblecrop	Random chip	Killik River	A–4	32N	17E	4	SW	Kateel River	0.08
KR36	5451	1991	Kady	Outwash Creek	Colville	Quartz vein	Outcrop	Contin chip	Killik River	A–4	32N	17E	4	SW	Kateel River	0.06
KR36	5452	1991	Kady	Outwash Creek	Colville	Quartz vein	Outcrop	Contin chip	Killik River	A–4	32N	17E	4	SW	Kateel River	0.02
KR36	5453	1991	Kady	Outwash Creek	Colville	Quartz vein	Outcrop	Contin chip	Killik River	A–4	32N	17E	4	SW	Kateel River	0.15
KR36	5454	1991	Kady	Outwash Creek	Colville	Quartz vein	Float	Grab	Killik River	A–4	32N	17E	4	SW	Kateel River	3.45
KR36	5455	1991	Kady	Outwash Creek	Colville	Sulfides	Float	Select	Killik River	A–4	32N	17E	4	SW	Kateel River	16.67
KR36	5456	1991	Kady	Outwash Creek	Colville	Quartz vein	Outcrop	Contin chip	Killik River	A–4	32N	17E	4	SW	Kateel River	0.17
KR36	5457	1991	Kady	Outwash Creek	Colville	Quartz vein	Rubblecrop	Grab	Killik River	A–4	32N	17E	4	SW	Kateel River	0.88
KR36	5458	1991	Kady	Outwash Creek	Colville	Quartz vein	Float	Select	Killik River	A–4	32N	17E	4	SW	Kateel River	0.66
KR36	5556	1991	Kady	Outwash Creek trib	Colville	Sulfides	Outcrop	Random chip	Killik River	A–4	32N	17E	4	SW	Kateel River	0.32
KR36	5557	1991	Kady	Outwash Creek trib	Colville	Sandstone	Outcrop	Random chip	Killik River	A–4	32N	17E	4	SW	Kateel River	0.02
KR36	5558	1991	Kady	Outwash Creek trib	Colville	Quartz vein	Rubblecrop	Select	Killik River	A–4	32N	17E	4	SW	Kateel River	0.07
KR36	5559	1991	Kady	Outwash Creek trib	Colville	Quartz vein	Outcrop	Random chip	Killik River	A–4	32N	17E	4	SW	Kateel River	0.09
KR36	5560	1991	Kady	Outwash Creek trib	Colville	Sulfides	Outcrop	Select	Killik River	A–4	32N	17E	4	SW	Kateel River	0.44
KR36	5561	1991	Kady	Outwash Creek trib	Colville	Quartz vein	Outcrop	Contin chip	Killik River	A–4	32N	17E	4	SW	Kateel River	0.10
KR36	5562	1991	Kady	Outwash Creek trib	Colville	Sulfides	Outcrop	Random chip	Killik River	A–4	32N	17E	4	SW	Kateel River	0.23
KR36	5563	1991	Kady	Outwash Creek trib	Colville	Quartz vein	Rubblecrop	Select	Killik River	A–4	32N	17E	4	SW	Kateel River	0.28
KR36	5564	1991	Kady	Outwash Creek trib	Colville	Quartz vein	Float	Grab	Killik River	A–4	32N	17E	4	SW	Kateel River	0.12
KR36	5603	1991	Kady	Outwash Creek trib	Colville	Quartz vein	Outcrop	Contin chip	Killik River	A–4	32N	17E	4	SW	Kateel River	0.17
KR36	5604	1991	Kady	Outwash Creek trib	Colville	Quartz vein	Float	Grab	Killik River	A–4	32N	17E	4	SW	Kateel River	0.46
KR37	4155	1991	Kady	Outwash Creek trib	Colville	Sandstone	Outcrop	Chip channel	Killik River	A–4	32N	17E	4	SE	Kateel River	
KR37	4171	1991	Kady	Outwash Creek trib	Colville	Sandstone	Outcrop	Chip channel	Killik River	A–4	32N	17E	4	SE	Kateel River	
KR37	4172	1991	Kady	Outwash Creek trib	Colville	Sandstone	Outcrop	Chip channel	Killik River	A–4	32N	17E	4	SE	Kateel River	
KR37	4173	1991	Kady	Outwash Creek trib	Colville	Massive sulfides	Outcrop	Select	Killik River	A–4	32N	17E	4	SE	Kateel River	
KR38	4210	1991	Kady	Outwash Creek trib	Colville	Sandstone	Float	Select	Killik River	A–4	32N	17E	4	SW	Kateel River	
KR39	4222	1991	Kady–extension	Outwash Creek trib	Colville	Quartz	Outcrop	Select	Killik River	A–4	32N	17E	4	NW	Kateel River	
KR39	4223	1991	Kady–extension	Outwash Creek trib	Colville	Quartz	Outcrop	Channel	Killik River	A–4	32N	17E	4	NW	Kateel River	
KR40	4140	1991	Kady	Outwash Creek trib	Colville	Sandstone	Float	Grab	Killik River	A–4	32N	17E	4	NE	Kateel River	
KR41	4073	1991	Kady	Outwash Creek trib	Colville	Massive sulfides	Rubblecrop	Select	Killik River	A–4	32N	17E	3	SW	Kateel River	
KR41	4074	1991	Kady	Outwash Creek trib	Colville	Massive sulfides	Outcrop	Select	Killik River	A–4	32N	17E	3	SW	Kateel River	
KR41	4075	1991	Kady	Outwash Creek trib	Colville	Massive sulfides	Outcrop	Select	Killik River	A–4	32N	17E	4	NE	Kateel River	
KR41	4076	1991	Kady	Outwash Creek trib	Colville	Massive sulfides	Rubblecrop	Grab	Killik River	A–4	32N	17E	4	NE	Kateel River	
KR42	4198	1991		Outwash Creek trib	Colville	Coal	Rubblecrop	Grab	Killik River	A–4	33N	17E	35	SW	Kateel River	
KR42	4199	1991		Outwash Creek trib	Colville	Sandstone	Rubblecrop	Grab	Killik River	A–4	33N	17E	35	SW	Kateel River	
KR43	4177	1991		Outwash Creek trib	Colville	Sandstone	Rubblecrop	Grab	Killik River	A–4	32N	17E	3	NE	Kateel River	
KR44	4176	1991		Outwash Creek trib	Colville	Sandstone	Outcrop	Select	Killik River	A–4	32N	17E	3	NE	Kateel River	
KR45	4189	1991		Outwash Creek	Colville	Shale	Float	Grab	Killik River	A–4	32N	17E	3	SE	Kateel River	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
KR27	4203	1.6	0.87	49	2	98			<5	0.02	9.6	2	460		23	<0.01	1.04	<10	0.31	9	8	0.03	50		9
KR28	4193	>50.0	0.14	262	155	48			<5	>10.00	5.9	23	16		847		2.74	<10	0.04	13	4	0.03	3046		<1
KR29	4194	8.5	1.57	532	57	26			<5	0.19	<2.0	59	339		6430	0.08	8.54	<10	0.45	12	4	0.10	370		<1
KR30	4217	49.8	1.05	136	11	30			<5	3.80	10.6	8	300		50	<0.01	0.6	<10	0.32	8	8	0.03	615		<1
KR31	4195	12.5	0.67	88	7	38			<5	2.79	338.9	14	216		112	0.64	2.7	<10	0.26	<5	14	0.85	1255		78
KR31	4218	39.9	0.75	66	11	26			<5	>10.00	62.2	16	233		189	0.02	0.44	<10	0.37	14	4	0.03	227		15
KR32	4196	>50.0	1.09	116	6	39			<5	0.02	2.9	5	347		31	<0.01	0.57	<10	0.42	7	14	0.04	119		<1
KR32	4197	2.1	0.35	146	8	11			<5	0.02	6.3	46	360		2729	<0.01	1.2	<10	0.14	<5	5	0.02	67		<1
KR33	4183	>50.0	0.20	61	15	10			<5	<0.01	<2.0	18	346		>20000	10.91	9.84	<10	0.02	<5	33	<0.01	22		<1
KR34	4181	5.0	0.61	70	12	67			<5	0.04	31.1	6	364		5342	0.53	1.03	<10	0.19	<5	40	0.02	32		7
KR34	4182	>50.0	1.44	91	29	49			<5	0.09	53.9	5	171		240	<0.01	0.37	<10	0.76	8	28	0.08	31		9
KR35	4174	6.2	1.00	96	32	117			<5	0.01	295.6	16	356		431	0.01	0.89	17	0.30	<5	44	0.02	32		61
KR36	4071	>50.0	0.58	131	58	53			143	0.02	880.2	55	278		387		1.06	13	0.19	<5	16	0.07	34		178
KR36	4072	>50.0	0.36	116	59	10			135	<0.01	1140.3	32	128		354		0.55	23	0.12	<5	9	0.07	16		150
KR36	5443	>50.0	0.34	334	100	135			16	0.01	7.3	40	201		332		0.23	<10	0.15	<5	16	<0.01	10		36
KR36	5444	8.2	0.91	50	47	167			30	0.02	207	11	500		1746		1.36	24	0.33	<5	60	0.01	31		<1
KR36	5445	12.9	0.42	157	73	33			226	0.05	>2000	166	248		330		1.91	208	0.23	<5	11	<0.01	26		136
KR36	5446	11.5	0.97	70	115	52			36	0.02	135.4	16	528		470		1.65	25	0.30	<5	49	0.01	30		<1
KR36	5447	15.1	1.26	144	29	86			120	0.05	974.5	44	430		259		2.03	20	0.43	<5	42	0.03	197		48
KR36	5448	8.3	1.29	125	25	88			179	0.05	>2000	88	402		563		1.13	27	0.51	<5	24	0.03	26		98
KR36	5449	17.2	0.85	89	16	60			71	0.04	701.5	30	518		558		1.59	35	0.31	<5	37	0.02	31		25
KR36	5450	1.7	0.33	<5	19	81			7	<0.01	26.2	3	479		339		0.63	<10	0.21	<5	33	<0.01	22		<1
KR36	5451	3.6	0.53	47	4	43			8	0.01	58.4	10	628		3594		1.2	<10	0.25	<5	43	<0.01	29		<1
KR36	5452	0.9	0.73	39	2	51			12	0.05	29.4	4	612		513		0.6	12	0.33	<5	58	<0.01	34		<1
KR36	5453	4.9	0.38	43	48	16			<5	<0.01	34.8	6	458		131		0.58	17	0.39	<5	44	<0.01	18		<1
KR36	5454	>50.0	0.55	69	31	94			24	0.01	48.8	10	473		2905		0.79	<10	0.43	<5	32	0.01	23		<1
KR36	5455	>50.0	0.79	102	133	29			34	0.02	46.1	22	172		2798		0.33	<10	0.32	<5	12	0.01	11		<1
KR36	5456	4.7	0.97	28	4	259			14	0.09	153.6	10	469		497		0.69	<10	1.16	<5	34	0.07	32		<1
KR36	5457	26.1	0.40	43	18	25			23	0.01	<2.0	39	517		14560		2.73	<10	0.11	<5	44	<0.01	30		13
KR36	5458	20.0	0.61	93	19	31			65	1.38	107.5	17	421		>20000	2.62	3.59	<10	0.21	<5	35	0.01	150		<1
KR36	5556	9.4	0.25	74.5	52.5	158.5			105.5	0.01	961.9	46	331.5		12138		2.25	9	0.04	<5	37	0.09	29		97
KR36	5557	1.1	1.04	19	8	105			10	0.85	78.2	11	334		719		0.61	<10	0.32	8	26	0.10	90		13
KR36	5558	3.0	0.61	131	15	53			54	0.02	450.2	20	363		2454		1.2	<10	0.17	<5	49	0.09	27		55
KR36	5559	1.1	1.19	161	22	93			91	0.03	837.1	50	389		1559		1.33	14	0.38	6	38	0.11	39		95
KR36	5560	16.0	0.76	226	63	58			170	<0.01	>2000	130	166		397		1.13	59	0.27	<5	28	0.09	24		183
KR36	5561	2.8	1.47	72	10	135			13	0.04	112.4	6	347		264		0.53	<10	0.44	7	56	0.11	36		12
KR36	5562	6.3	0.66	151	27	31			124	0.37	1784	230	295		5419		1.91	37	0.21	<5	28	0.09	63		122
KR36	5563	7.9	0.68	574	32	40			14	0.02	114	14	366		163		0.72	<10	0.21	<5	41	0.09	27		14
KR36	5564	2.2	0.37	142	26	21			67	0.02	674.6	35	303		172		2.59	24	0.08	<5	38	0.08	34		88
KR36	5603	4.9	0.26	15	17	200			26	1.37	11	9	343		17280		2.38	<10	0.07	<5	20	0.08	204		3
KR36	5604	16.5	0.32	20	13	875			8	0.02	30.9	4	393		108		0.68	<10	0.08	<5	30	0.09	29		7
KR37	4155	5.5	0.94	186	64	25			<5	0.45	517.1	69	192		5260	0.59	2.38	18	0.33	<5	30	0.02	96		45
KR37	4171	1.7	0.90	94	16	43			<5	<0.01	184.2	19	336		3589	0.36	0.93	<10	0.31	<5	49	0.01	31		20
KR37	4172	8.2	0.41	110	31	9			<5	<0.01	1167.2	95	260		12213	1.29	2.6	29	0.06	<5	34	<0.01	37		80
KR37	4173	5.7	0.23	176	13	12			<5	<0.01	>2000.0	115	193		>20000	3.64	6.08	38	0.05	<5	16	<0.01	23		173
KR38	4210	5.8	0.56	100	43	40			<5	<0.01	235.4	15	287		2266	0.22	1.17	<10	0.20	5	36	0.01	<5		65
KR39	4222	7.1	0.87	64	12	36			<5	3.40	18.7	22	289		>20000	2.69	3.25	<10	0.27	7	30	0.02	457		6
KR39	4223	1.5	1.93	76	19	108			<5	2.71	3.2	16	260		1459	0.14	0.67	<10	0.54	17	26	0.07	256		<1
KR40	4140	0.9	0.89	104	5	48			<5	0.09	<2.0	2	220		40	<0.01	0.4	<10	0.34	<5	44	0.02	31		2
KR41	4073	12.6	0.23	120	30	11			101	<0.01	1067.2	61	322		5428		1.58	34	0.07	<5	34	0.05	29		102
KR41	4074	3.6	0.40	44	9	40			16	0.01	105.5	5	367		3454		0.82	<10	0.09	<5	74	0.06	34		23
KR41	4075	5.1	0.27	242	31	14			<5	0.01	>2000.0	87	173		844	0.07	1.14	43	0.12	<5	25	<0.01	29		240
KR41	4076	0.9	0.23	269	11	10			<5	<0.01	1807.7	63	190		688	0.05	0.87	34	0.04	<5	27	<0.01	23		152
KR42	4198	<0.5	5.16	54	3	433			<5	0.07	<2.0	3	197		26	0.27	0.55	18	1.05	29	194	0.24	37		4
KR42	4199	<0.5	2.07	<5	39	322			<5	1.53	<2.0	20	108		14	<0.01	>10.00	<10	0.53	<5	26	0.75	5217		2
KR43	4177	<0.5	1.00	10	4	122			<5	0.03	<2.0	4	268		333	<0.01	0.66	<10	0.38	12	10	0.04	79		3
KR44	4176	<0.5	0.85	<5	6	51			<5	<0.01	<2.0	<1	257		52	<0.01	0.47	<10	0.35	10	22	0.02	40		3
KR45	4189	0.8	3.04	82	2	263			<5	0.20	5.3	60	188		37		8.91	30	0.77	7	40	0.35	4772		10

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
KR27	4203	0.06	<5	6	1909	0 18	1	11		26	<20	32	<5	<25	0 07		32	<20	5	3049	0.28	14	
KR28	4193	0.06	19	9	>10000		1	6		403	<20	38	<5	<25	<0 01		29	<20	105	631		<5	
KR29	4194	0.10	21	709	807	15 37	1	7		17	<20	10	<5	<25	0.17		37	<20	8	272	0.07	26	
KR30	4217	0.06	6	37	>10000	3.41	1	<5		26	<20	33	<5	<25	0.06		19	<20	10	1214	0.11	9	
KR31	4195	0.06	5	25	2695	0.08	1	7		55	<20	39	<5	<25	0.04		11	<20	6	>20000	0.03	7	
KR31	4218	0.05	18	19	>10000	2.44	1	6		35	<20	28	<5	<25	0.04		29	<20	93	11292	1.14	6	
KR32	4196	0.06	<5	28	>10000	0.25	1	8		13	<20	14	<5	<25	0.06		17	<20	<5	397	7.72	11	
KR32	4197	0.04	6	96	133	3.61	1	6		<5	<20	3	<5	<25	<0.01		<2	<20	<5	754	0.03	<5	
KR33	4183	0.04	208	148	160	0.01	2	5		<5	88	2	<5	<25	<0.01		3	<20	<5	53	<0.01	19	
KR34	4181	0.06	12	9	923	0.10	<1	8		<5	<20	9	<5	<25	0.02		11	<20	<5	5457	0.57	5	
KR34	4182	0.09	<5	21	>10000	8.99	<1	7		105	<20	13	<5	<25	0.10		42	<20	<5	9337	1.00	16	
KR35	4174	0.06	<5	11	2902	0.34	<1	<5		27	48	11	<5	<25	0.06		19	<20	<5	>20000	5.54	7	
KR36	4071	0.05	<5	10	2900	0.32	<1	<5		199	70	4	<5	<25	0.03		10	<20	<5	>20000	22.98	<5	
KR36	4072	0.04	<5	19	>10000	23.56	3	<5		173	63	3	<5	<25	0.02		6	<20	<5	>20000	23.46	<5	
KR36	5443	0.14	5	211	>10000	53.20	2	5		961	<20	4	32	35	0.02		8	<20	<5	729	0.06	7	
KR36	5444	0.17	7	5	1626	0.10	2	5		43	24	6	<5	<25	0.05		16	<20	<5	>20000	2.22	13	
KR36	5445	0.52	6	<1	5765	0.49	1	<5		132	96	1	<5	41	<0.01		<2	<20	<5	>20000	48.21	20	
KR36	5446	0.19	<5	2	8503	0.76	2	<5		32	30	5	<5	<25	0.03		14	<20	<5	>20000	2.86	15	
KR36	5447	0.26	<5	3	>10000	1.96	2	8		75	55	6	<5	39	0.05		19	<20	<5	>20000	12.52	19	
KR36	5448	0.34	6	23	>10000	0.86	2	9		101	77	7	<5	41	0.06		19	<20	<5	>20000	27.17	23	
KR36	5449	0.18	<5	3	560	0.04	1	5		112	56	5	<5	<25	0.04		14	<20	<5	>20000	7.79	17	
KR36	5450	0.10	<5	<1	559	0.06	1	<5		<5	<20	<1	<5	<25	0.03		12	<20	<5	4472	0.47	8	
KR36	5451	0.12	8	5	148	0.01	<1	<5		9	<20	1	<5	<25	0.03		11	<20	<5	6952	0.66	12	
KR36	5452	0.45	17	<1	243	0.02	<1	<5		<5	<20	4	19	<25	0.02		10	<20	<5	4708	0.43	30	
KR36	5453	0.11	<5	<1	4580	0.44	<1	<5		<5	<20	<1	18	<25	<0.01		6	<20	<5	5047	0.54	7	
KR36	5454	0.13	6	23	>10000	10.75	<1	<5		350	<20	2	<5	30	0.07		24	<20	<5	8054	0.79	18	
KR36	5455	0.21	8	143	>10000	59.76	<1	<5		>2000	<20	2	20	55	0.04		11	<20	<5	7799	0.70	16	
KR36	5456	0.23	6	19	>10000	0.91	<1	<5		25	<20	9	<5	<25	0.23		65	<20	<5	12924	2.28	43	
KR36	5457	0.13	23	64	2372	0.24	<1	<5		19	36	4	<5	<25	<0.01		6	<20	<5	127	<0.01	7	
KR36	5458	0.25	41	23	478	0.02	<1	<5		32	30	8	<5	<25	0.02		6	<20	<5	>20000	2.95	17	
KR36	5556	0.02	19.5	24	636	0.07	<1	<5		60	74.5	5	10.5	<25	<0.01		1.5	<20	<5	>20000	10.95	<5	
KR36	5557	0.04	<5	14	156	0.02	<1	<5		13	<20	17	51	<25	0.05		24	<20	7	11742	1.08	10	
KR36	5558	0.03	<5	20	104	<0.01	<1	<5		32	<20	6	<5	<25	0.02		9	<20	<5	>20000	5.12	<5	
KR36	5559	0.03	<5	70	135	<0.01	<1	<5		30	62	9	<5	<25	0.08		24	<20	<5	>20000	10.47	13	
KR36	5560	0.03	<5	73	>10000	1.80	9	5		105	100	5	<5	<25	0.06		17	<20	<5	>20000	35.76	8	
KR36	5561	0.04	<5	13	154	<0.01	<1	<5		16	<20	12	37	<25	0.08		32	<20	<5	12630	1.06	13	
KR36	5562	0.03	8	251	997	0.10	1	<5		85	89	7	<5	<25	0.03		12	<20	<5	>20000	15.14	5	
KR36	5563	0.03	<5	102	>10000	1.71	<1	<5		63	21	8	25	<25	0.03		15	<20	<5	14804	1.44	6	
KR36	5564	0.03	<5	15	172	<0.01	<1	<5		48	48	5	<5	<25	0.01		6	<20	<5	>20000	9.75	<5	
KR36	5603	0.02	28	15	525	0.06	1	7		<5	21	14	126	<25	<0.01		6	<20	<5	2310	0.22	<5	
KR36	5604	0.02	<5	8	>10000	1.83	<1	<5		10	<20	58	57	<25	0.01		6	<20	<5	7559	0.71	<5	
KR37	4155	0.06	11	90	6333	0.75	<1	5		37	44	18	<5	<25	0.05		27	<20	7	>20000	5.69	10	
KR37	4171	0.08	10	45	43	<0.01	<1	11		9	<20	9	<5	<25	0.06		20	<20	<5	19935	2.20	9	
KR37	4172	0.04	26	202	3281	0.44	<1	7		54	83	3	<5	<25	<0.01		3	<20	<5	>20000	10.89	<5	
KR37	4173	0.03	66	113	303	0.03	2	9		58	140	6	<5	<25	<0.01		7	<20	<5	>20000	22.01	<5	
KR38	4210	0.06	7	19	1840	0.18	1	<5		41	<20	12	<5	<25	0.05		13	<20	<5	>20000	4.73	12	
KR39	4222	0.09	57	35	545	0.06	2	6		19	<20	25	<5	<25	0.05		22	<20	8	3881	0.40	13	
KR39	4223	0.13	11	28	132	0.02	1	8		<5	<20	26	<5	<25	0.19		72	<20	14	280	0.03	26	
KR40	4140	0.04	<5	7	1585	0.20	<1	11		5	<20	12	<5	<25	0.04		21	<20	<5	125	<0.01	<5	
KR41	4073	0.05	9	38	864	0.09	<1	<5		67	56	3	<5	<25	<0.01		3	<20	<5	>20000	12.45	<5	
KR41	4074	0.05	5	19	731	0.09	<1	<5		9	<20	5	<5	<25	0.01		5	<20	<5	12461	1.30	<5	
KR41	4075	0.14	6	20	207	<0.01	1	9		89	81	8	<5	<25	0.01		8	<20	<5	>20000	35.79	<5	
KR41	4076	0.03	<5	32	154	<0.01	2	<5		57	84	5	<5	<25	<0.01		3	<20	<5	>20000	23.88	<5	
KR42	4198	0.31	23	32	22	0.01	3	<5		23	<20	79	<5	<25	0.58		150	<20	20	177	0.08	106	
KR42	4199	0.33	10	47	10	<0.01	1	6		<5	<20	63	<5	<25	0.18		52	<20	19	265	0.03	51	
KR43	4177	0.04	<5	9	10	<0.01	<1	<5		<5	<20	26	<5	<25	0.05		34	<20	7	174	<0.01	11	
KR44	4176	0.04	<5	5	1561	0.16	<1	<5		<5	<20	13	<5	<25	0.06		25	<20	<5	297	0.03	9	
KR45	4189	0.19	19	105	574		<1	7		31	30	35	<5	<25	0.29		96	<20	20	1604		72	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
KR46	4204	1991		Outwash Creek	Colville	Shale	Rubblecrop	Grab	Killik River	A–4	32N	17E	2	NW	Kateel River	
KR47	4206	1991	Outwash Ck SE	Outwash Creek	Colville	Siltstone	Rubblecrop	Grab	Killik River	A–4	32N	17E	2	NE	Kateel River	
KR48	4205	1991	Outwash Ck SE	Outwash Creek	Colville	Quartz	Float	Grab	Killik River	A–4	32N	17E	2	NW	Kateel River	
KR49	4188	1991		Outwash Creek	Colville	Quartz	Float	Grab	Killik River	A–4	33N	17E	33	SE	Kateel River	
KR50	4164	1991	Outwash Ck North	Outwash Creek trib	Colville	Quartz/shale	Float	Grab	Killik River	A–4	33N	17E	33	SW	Kateel River	
KR51	4162	1991	Outwash Ck North	Outwash Creek trib	Colville	Sandstone	Rubblecrop	Grab	Killik River	A–4	33N	17E	33	NW	Kateel River	
KR52	4163	1991	Outwash Ck North	Outwash Creek trib	Colville	Conglomerate	Float	Select	Killik River	A–4	33N	17E	33	NW	Kateel River	
KR52	4165	1991	Outwash Ck North	Outwash Creek trib	Colville	Quartz	Float	Grab	Killik River	A–4	33N	17E	33	NW	Kateel River	
KR53	4166	1991		Outwash Creek trib	Colville	Sandstone	Float	Grab	Killik River	A–4	33N	17E	28	SW	Kateel River	
KR54	4161	1991		Outwash Creek trib	Colville	Sandstone	Float	Grab	Killik River	A–4	33N	17E	28	SW	Kateel River	
KR55	4078	1991		Outwash Creek trib	Colville	Shale	Outcrop	Select	Killik River	B–4	33N	16E	7	SW	Kateel River	
KR56	4077	1991		Outwash Creek trib	Colville	Shale	Outcrop	Select	Killik River	B–4	33N	16E	7	SW	Kateel River	
KR57	4079	1991		Outwash Creek trib	Colville	Quartz	Float	Grab	Killik River	B–4	33N	16E	2	SW	Kateel River	
KR58	4190	1991		Karupa Hills	Colville	Chert	Rubblecrop	Select	Killik River	B–4	34N	17E	14	NE	Kateel River	
KR59	4191	1991		Karupa Hills	Colville	Chert	Rubblecrop	Select	Killik River	B–4	34N	17E	11	SE	Kateel River	
KR60	4208	1991		Karupa Hills	Colville	Chert	Outcrop	Grab	Killik River	B–4	34N	17E	12	SE	Kateel River	
KR61	4212	1991		Karupa Hills	Colville	Quartz	Outcrop	Select	Killik River	B–4	34N	17E	13	NE	Kateel River	
KR62	4220	1991		Karupa River trib	Colville	Quartz	Rubblecrop	Select	Killik River	A–3	33N	18E	21	SW	Kateel River	
KR63	4168	1991	Karupa R Southwest	Karupa River trib	Colville	Sandstone	Outcrop	Repr chip	Killik River	A–3	33N	18E	28	SW	Kateel River	
KR63	4170	1991	Karupa R Southwest	Karupa River trib	Colville	Quartz	Outcrop	Select	Killik River	A–3	33N	18E	28	SW	Kateel River	
KR64	4167	1991	Karupa R Southwest	Karupa River trib	Colville	Sandstone	Outcrop	Repr chip	Killik River	A–3	33N	18E	28	SW	Kateel River	
KR64	4169	1991	Karupa R Southwest	Karupa River trib	Colville	Sandstone	Outcrop	Repr chip	Killik River	A–3	33N	18E	28	SW	Kateel River	
KR64	4200	1991	Karupa R Southwest	Karupa River trib	Colville	Sandstone	Outcrop	Select	Killik River	A–3	34N	18E	28	SW	Kateel River	
KR65	4187	1991	Karupa R Southwest	Karupa River trib	Colville	Shale	Float	Grab	Killik River	A–3	33N	18E	33	NW	Kateel River	
KR66	4186	1991		Karupa River trib	Colville	Shale	Float	Grab	Killik River	A–3	33N	18E	33	SE	Kateel River	
KR67	4207	1991		Kurupa River trib	Colville	Sandstone	Float	Grab	Killik River	A–3	33N	18E	23	SW	Kateel River	
KR68	4185	1991		Karupa River trib	Colville	Sandstone	Rubblecrop	Select	Killik River	A–3	33N	18E	22	NE	Kateel River	
KR69	4221	1991		Karupa River trib	Colville	Sandstone	Float	Grab	Killik River	B–3	33N	18E	18	SE	Kateel River	
KR70	4241	1991		Irivik Creek trib	Colville	Sandstone	Rubblecrop	Grab	Killik River	A–3	33N	20E	20	SW	Kateel River	
KR71	4143	1991		Suluak Creek trib	Colville	Conglomerate	Outcrop	Grab	Killik River	A–2	33N	22E	35	NW	Kateel River	
KR72	4142	1991		Suluak Creek trib	Colville	Conglomerate	Outcrop	Select	Killik River	A–2	33N	22E	35	NW	Kateel River	
KR73	4126	1991		Suluak River trib	Colville	Conglomerate	Float	Grab	Killik River	A–2	33N	22E	35	NE	Kateel River	
KR74	4209	1991	Togoyuk Ck Barite	Togoyuk Creek	Colville	Sandstone	Float	Grab	Killik River	A–2	32N	22E	4	NE	Kateel River	
KR75	4192	1991		Togoyuk Creek trib	Colville	Conglomerate	Outcrop	Select	Killik River	A–2	32N	21E	13	SE	Kateel River	
KR76	4211	1991		Kanorgiksak Creek	Colville	Quartz	Outcrop	Select	Killik River	A–2	32N	22E	35	NE	Kateel River	
KR77	4144	1991		Suluak Creek trib	Colville	Sandstone	Float	Select	Killik River	A–2	32N	22E	24	NE	Kateel River	
KR78	4127	1991		Suluak River trib	Colville	Sandstone	Float	Grab	Killik River	A–2	32N	23E	17	NE	Kateel River	
KR79	4067	1991		Kugukpak Creek	Colville	Shale	Float	Grab	Killik River	A–1	32N	23E	10	SE	Kateel River	
KR80	4068	1991		Kugukpak Creek	Colville	Sandstone	Float	Grab	Killik River	A–1	32N	23E	14	SW	Kateel River	
KR81	4070	1991		Suluak Creek trib	Colville	Shale	Float	Grab	Killik River	A–1	32N	23E	26	SE	Kateel River	
KR82	4069	1991		Suluak Creek trib	Colville	Sandstone	Float	Grab	Killik River	A–1	32N	23E	26	SE	Kateel River	
KR83	4216	1991		Fire Creek trib	Colville	Conglomerate	Float	Grab	Killik River	B–1	34N	24E	14	NE	Kateel River	
KR84	4213	1991		Kikoyat Creek	Colville	Sandstone	Float	Grab	Killik River	B–1	34N	24E	25	NW	Kateel River	
KR85	4214	1991		Grizzly Mtn	Colville	Shale	Float	Grab	Killik River	A–1	32N	25E	1	SW	Kateel River	
MM1	4342	1992		Iliguruk Creek	Wainwright	Sandstone	Float	Select	Misheguk Mtn	D–5	8S	40W	8	SW	Umiat	
MM2	4343	1992		Iliguruk Creek	Wainwright	Sandstone	Float	Select	Misheguk Mtn	D–5	8S	40W	17	NW	Umiat	
MM3	4305	1992		Iligluruk Creek	Wainwright	Sandstone	Outcrop	Select	Misheguk Mtn	C–5	8S	40W	18	SE	Umiat	
MM4	4325	1992		Ilingnorak Ridge	Wainwright	Sandstone	Rubblecrop	Select	Misheguk Mtn	C–5	9S	41W	6	NE	Umiat	
MM5	4261	1992		Spike Creek	Wainwright	Chert	Rubblecrop	Grab	Misheguk Mtn	C–5	10S	43W	24	NW	Umiat	
MM6	4290	1992		Spike Creek	Wainwright	Alluvium	Float	Grab	Misheguk Mtn	C–5	10S	43W	25	SE	Umiat	
MM7	4289	1992		Spike Creek	Wainwright	Chert	Outcrop	Repr chip	Misheguk Mtn	C–5	10S	43W	36	NE	Umiat	
MM8	4256	1992		Spike Creek	Wainwright	Chert	Outcrop	Select	Misheguk Mtn	C–5	10S	42W	30	SW	Umiat	
MM9	4254	1992		Spike Creek	Wainwright	Black stuff (?)	Outcrop	Select	Misheguk Mtn	C–5	10S	42W	19	SW	Umiat	
MM9	4255	1992		Spike Creek	Wainwright	Chert	Outcrop	Select	Misheguk Mtn	C–5	10S	42W	19	NW	Umiat	
MM10	4268	1992		Spike Creek	Wainwright	Chert	Outcrop	Grab	Misheguk Mtn	C–5	10S	42W	19	SW	Umiat	
MM10	4269	1992		Spike Creek	Wainwright	Chert	Outcrop	Grab	Misheguk Mtn	C–5	10S	42W	19	SW	Umiat	
MM11	4291	1992		Spike Creek	Wainwright	Chert	Outcrop	Grab	Misheguk Mtn	C–5	10S	42W	19	SW	Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
KR46	4204	<0.5	3.31	23	1	846			<5	1.47	<2.0	46	95		95		>10.00	46	1.46	6	22	2.13	15225		13
KR47	4206	<0.5	3.39	82	3	167			<5	3.41	<2.0	45	135		9		>10.00	36	0.85	15	15	1.51	5332	0.56	9
KR48	4205	5.8	0.56	225	119	25			<5	0.02	639.4	60	437		173	<0.01	1.32	18	0.07	<5	42	0.03	78		87
KR49	4188	10.2	0.40	123	7	24			<5	0.06	270.8	18	524		30	<0.01	0.9	<10	0.11	<5	24	0.01	43		67
KR50	4164																								
KR51	4162	<0.5	2.66	<5	3	527			<5	1.02	<2.0	21	71		22		>10.00	19	0.72	5	45	1.29	>20000	2.96	2
KR52	4163	6.3	0.83	212	36	145			<5	0.28	11	47	212		7845	0.87	0.88	<10	0.22	<5	54	0.07	238		3
KR52	4165	<0.5	1.00	43	1	85			<5	0.42	<2.0	8	218		96	<0.01	0.89	<10	0.27	5	50	0.05	825		<1
KR53	4166	<0.5	0.76	998	8	91			<5	6.43	<2.0	816	94		2170	0.21	4.57	<10	0.27	<5	26	2.12	5017		<1
KR54	4161	<0.5	1.10	<5	2	302			<5	8.54	2.4	13	56		947	0.09	6.41	<10	0.28	<5	17	2.83	4354		2
KR55	4078	<0.5	3.09	<5	3	275			<5	4.01	<2.0	15	69		86	<0.01	>10.00	13	0.41	49	36	1.35	15845		5
KR56	4077	<0.5	2.99	<5	4	1714			<5	2.55	4.7	23	135		20	<0.01	>10.00	12	0.37	31	38	1.47	11779		12
KR57	4079	<0.5	0.63	32	3	118			<5	0.11	<2.0	<1	244		1194		1.35	<10	0.17	<5	29	0.05	399		1
KR58	4190	0.8	2.68	74	7	>2000			<5	0.02	<2.0	7	107		30		1.81	<10	0.96	17	36	0.49	108		20
KR59	4191	4.7	3.59	77	422	>2000			<5	2.80	<2.0	74	131		1546		5.73	<10	0.38	18	60	1.36	>20000		14
KR60	4208	1.1	3.37	<5	2	1406			<5	0.03	<2.0	9	83		53		2.16	<10	0.60	19	27	0.65	295		<1
KR61	4212																								
KR62	4220	0.5	1.10	<5	2	37			<5	0.86	<2.0	11	349		1947	0.20	1.04	<10	0.21	<5	17	0.27	287		<1
KR63	4168	<0.5	1.32	98	10	45			<5	0.45	<2.0	35	240		378	0.01	0.72	<10	0.46	7	25	0.12	173		7
KR63	4170	1.2	0.79	62	4	23			<5	0.09	<2.0	21	243		4075	0.41	0.72	<10	0.24	<5	36	0.02	82		<1
KR64	4167	<0.5	1	50	3	55			<5	0.26	<2.0	24	250		2315	0.23	0.70	10	0.44	11	29	0.11	158		<1
KR64	4169	<0.5	0.77	142	12	57			<5	0.01	<2.0	5	321		1455	0.14	0.58	<10	0.53	<5	22	0.01	29		2
KR64	4200	0.6	1.58	182	4	47			<5	0.22	<2.0	131	386		5236	0.56	1.12	<10	0.46	10	24	0.08	214		3
KR65	4187	<0.5	0.80	56	1	29			<5	0.25	<2.0	14	419		1514	0.15	0.77	<10	0.17	<5	14	0.09	97		2
KR66	4186	<0.5	1.42	<5	3	108			<5	>10.00	<2.0	18	28		835	0.07	8.85	<10	0.35	<5	8	4.57	13006		3
KR67	4207	1.1	3.41	69	3	125	0.02		<5	0.89	<2.0	15	272		198		4.12	19	0.55	14	127	1.48	635		<1
KR68	4185	1.9	2.71	77	2	56			<5	0.64	<2.0	14	325		316		2.22	17	0.42	19	25	0.30	583		6
KR69	4221	2.2	3.54	26	3	160			<5	0.88	<2.0	17	857		980	0.10	4.81	32	0.54	28	57	0.81	368		<1
KR70	4241	0.7	2.10	<5	5	213			<5	1.27	<2.0	20	286		63	<0.01	2.72	11	0.20	9	39	0.65	1552		<1
KR71	4143	<0.5	0.94	30	3	58			<5	0.08	<2.0	6	316		17		>10.00	<10	0.22	6	6	0.13	75		8
KR72	4142	1.5	1.34	23	1	101			<5	0.08	5.1	<1	366		14		1.44	<10	0.26	11	9	0.18	68		6
KR73	4126	<0.5	1.17	<5	3	227			<5	0.03	<2.0	2	297		12		2.58	<10	0.29	10	9	0.18	39		<1
KR74	4209	2.6	0.99	<5	9	70	0.02		<5	<0.01	<2.0	10	312		33		>10.00	<10	0.28	8	6	0.03	152		8
KR75	4192	0.8	1.34	<5	7	34			<5	0.02	<2.0	11	307		10		3.34	<10	0.40	18	5	0.06	342		<1
KR76	4211	1.0	0.53	30	3	19			<5	4.04	<2.0	10	320		14	<0.01	3.51	<10	0.07	<5	22	1.20	842		<1
KR77	4144	<0.5	3.38	<5	3	245			<5	0.35	<2.0	14	182		33		4.59	<10	0.54	10	34	1.17	491		2
KR78	4127	<0.5	1.14	17	3	501			<5	0.12	<2.0	1	268		8		0.81	<10	0.17	10	8	0.18	88		<1
KR79	4067	<0.5	1.53	<5	2	64			5	9.95	<2.0	7	112		9		6.91	<10	0.26	10	17	2.64	9165		36
KR80	4068	<0.5	3.35	12	1	34			<5	0.32	<2.0	8	149		5		5.38	<10	0.12	12	33	1.36	374		10
KR81	4070	<0.5	2.67	42	2	42			8	0.06	<2.0	11	167		5		5.92	<10	0.18	8	19	1.01	150		6
KR82	4069	0.7	3.59	47	1	99			7	0.46	<2.0	8	228		22		3.69	<10	0.36	18	26	0.75	460		6
KR83	4216	0.9	1.41	13	3	115			<5	0.18	<2.0	3	308		12		1.6	<10	0.32	12	14	0.14	63		<1
KR84	4213	2.2	1.93	89	3	172			<5	>10.00	<2.0	18	79		194	0.02	8.78	<10	0.22	9	16	4.87	2838		6
KR85	4214	<0.5	2.35	<5	3	111			<5	0.76	<2.0	12	293		36	<0.01	4.4	<10	0.25	9	43	0.74	1589		<1
MM1	4342	<0.5	1.98	1102		47			<5	0.92	<2.0	22	230		17		>10.00	<10	0.17	<5	54	0.25	140		36
MM2	4343	<0.5	2.64	1060		64			<5	1.63	<2.0	36	173		19		>10.00	<10	0.18	<5	77	0.62	168		28
MM3	4305	<0.5	3.56	58		439			40	>10.00	<2.0	18	217		31		4.18	16	0.87	12	42	2.46	1186		5
MM4	4325	<0.5	1.31	24		460			5	0.06	<2.0	9	245		18		1.89	<10	0.19	11	23	0.15	69		5
MM5	4261	<0.5	0.87	<5		55			33	>10.00	<2.0	11	17		18		2.12	17	0.29	7	3	8.49	16990		2
MM6	4290	8.9	0.28	75		189			118	1.17	<2.0	26	36		32		1.95	142	0.02	10	19	2.59	>20000		4
MM7	4289	12.0	0.66	63		12			21	0.41	<2.0	2	452		53		4.23	<10	0.28	<5	13	0.14	84		123
MM8	4256	<0.5	0.59	91		17			<5	0.02	<2.0	43	294		60		>10.00	11	0.54	7	18	0.21	133		24
MM9	4254	0.6	0.51	<5		169			5	0.08	<2.0	16	58		45		0.62	<10	0.19	<5	10	0.17	1372		8
MM9	4255	<0.5	1.02	41		14			<5	0.04	<2.0	32	89		59		>10.00	13	0.99	<5	22	0.42	373		5
MM10	4268	<0.5	0.57	<5		337			<5	0.05	<2.0	16	197		26		>10.00	<10	0.35	<5	14	0.07	397		14
MM10	4269	<0.5	0.80	6		39			12	0.03	<2.0	59	197		42		>10.00	13	0.35	<5	36	0.61	363		6
MM11	4291	0.8	2.23	41		698			19	8.06	<2.0	13	191		33		3.35	14	0.88	13	40	1.04	1057		5

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
KR46	4204	0.45	23	102	41		<1	10		32	42	63	<5	<25	0.20		82	<20	14	234		67	
KR47	4206	0.38	25	102	18		<1	8		36	45	49	<5	<25	0.26		96	<20	19	171		58	
KR48	4205	0.05	<5	30	3488	0.33	<1	8		70	61	7	<5	<25	0.01		7	<20	<5	>20000	7.26	<5	
KR49	4188	0.05	<5	6	8684	0.84	<1	6		67	<20	9	<5	<25	0.02		11	<20	<5	>20000	0.51	<5	
KR50	4164																						
KR51	4162	0.49	25	50	55		1	10		<5	<20	59	<5	<25	0.21		89	<20	39	308		68	
KR52	4163	0.06	18	105	>10000	1.49	<1	7		15	<20	18	<5	<25	0.02		15	<20	<5	2605	0.29	6	
KR52	4165	0.08	<5	20	55	<0.0	<1	10		<5	<20	16	<5	<25	0.06		24	<20	<5	183	0.01	7	
KR53	4166	0.07	11	2454	2482	0.29	1	10		106	<20	30	<5	<25	0.04		42	<20	12	735	0.07	14	
KR54	4161	0.21	22	18	294	0.04	<1	11		<5	<20	70	<5	<25	0.07		38	<20	23	740	0.08	50	
KR55	4078	0.36	<5	46	58	<0.01	<1	<5		<5	<20	223	<5	<25	0.10		109	<20	173	2893	0.30	38	
KR56	4077	0.51	5	51	44	<0.01	1	11		<5	<20	212	<5	<25	0.25		160	<20	90	1941	0.12	75	
KR57	4079	0.06	<5	6	3		<1	9		<5	<20	14	<5	<25	0.02		12	<20	<5	272		<5	
KR58	4190	0.29	10	32	<2		2	<5		12	<20	102	<5	<25	0.18		67	<20	10	32		49	
KR59	4191	1.16	19	104	17		4	26		20	<20	196	<5	<25	0.24		103	<20	39	166		35	
KR60	4208	0.28	9	53	50		3	6		<5	<20	71	<5	<25	0.22		67	<20	14	46		58	
KR61	4212																						
KR62	4220	0.52	6	15	12	<0.01	1	9		5	<20	25	<5	<25	0.05		15	<20	<5	39	<0.01	5	
KR63	4168	0.61	6	47	35	<0.01	<1	5		<5	<20	11	<5	<25	0.10		36	<20	<5	22	<0.01	16	
KR63	4170	0.22	10	24	15	<0.01	<1	<5		<5	<20	6	<5	<25	0.04		14	<20	<5	15	<0.01	7	
KR64	4167	0.47	9	41	21	<0.01	<1	14		<5	<20	10	<5	<25	0.13		36	<20	<5	23	<0.01	17	
KR64	4169	0.30	12	10	13	<0.01	<1	9		<5	<20	11	<5	<25	0.09		31	<20	<5	14	<0.01	25	
KR64	4200	0.11	13	151	<2	<0.01	<1	7		7	<20	11	<5	<25	0.09		31	<20	12	26	<0.01	14	
KR65	4187	0.15	7	28	<2	<0.01	1	12		13	<20	12	<5	<25	0.06		16	<20	<5	18	<0.01	<5	
KR66	4186	0.23	18	23	<2	<0.01	2	10		<5	<20	80	<5	<25	0.07		58	<20	14	35	0.01	33	
KR67	4207	1.67	17	34	35		1	5		25	27	81	<5	<25	0.35		104	<20	10	218		52	
KR68	4185	0.13	21	37	17		1	7		30	30	71	<5	<25	0.42		91	<20	12	19		81	
KR69	4221	0.24	42	81	21	<0.01	<1	8		34	<20	77	<5	<25	1.92		251	<20	16	31	<0.01	227	
KR70	4241	0.69	9	26	24	<0.01	1	9		22	<20	33	<5	<25	0.25		54	<20	11	70	0.01	39	
KR71	4143	0.35	<5	29	43		<1	<5		6	<20	16	10	<25	0.09		32	<20	<5	95		14	
KR72	4142	0.55	<5	17	401		<1	<5		<5	<20	31	<5	<25	0.08		46	<20	7	506		16	
KR73	4126	0.29	<5	20	<2		<1	7		<5	<20	34	<5	<25	0.08		44	<20	7	54		14	
KR74	4209	0.24	6	38	4		3	8		<5	<20	16	<5	<25	0.08		23	<20	<5	<2		16	
KR75	4192	0.28	<5	40	<2		1	<5		<5	<20	21	<5	<25	0.08		47	<20	13	<2		22	
KR76	4211	0.09	7	29	64	0.02	1	9		12	<20	57	<5	<25	0.02		12	<20	6	127	0.01	5	
KR77	4144	1.52	7	37	<2		1	8		<5	<20	44	41	<25	0.31		96	<20	9	124		40	
KR78	4127	0.58	<5	9	4		<1	<5		<5	<20	45	<5	<25	0.06		30	<20	<5	35		13	
KR79	4067	0.10	7	18	12		<1	<5		<5	<20	144	56	<25	0.08		40	<20	21	105		12	
KR80	4068	0.82	6	33	<2		<1	7		<5	<20	22	16	<25	0.25		82	<20	7	360		32	
KR81	4070	0.52	5	26	<2		<1	<5		<5	<20	19	<5	<25	0.16		52	<20	<5	136		24	
KR82	4069	0.88	9	31	<2		<1	<5		<5	<20	49	9	<25	0.34		84	<20	10	155		44	
KR83	4216	0.07	<5	13	35		2	6		5	<20	33	<5	<25	0.08		50	<20	8	14		22	
KR84	4213	0.33	26	26	6	<0.01	1	<5		30	<20	164	<5	<25	0.11		52	<20	26	73	0.02	27	
KR85	4214	0.21	5	29	222	0.04	1	7		<5	<20	24	<5	<25	0.13		37	<20	8	100	0.02	23	
MM1	4342	0.69	15	61	57					<5	<20	20	57	29	0.11		27	<20	<5	8		20	
MM2	4343	0.76	16	77	74					<5	<20	30	77	38	0.12		35	<20	6	23		24	
MM3	4305	1.64	12	51	29					<5	<20	336	75	<25	0.33		105	<20	8	69		64	
MM4	4325	0.23	<5	20	11					20	<20	64	47	<25	0.10		47	<20	<5	47		6	
MM5	4261	0.34	<5	17	18					<5	<20	>2000	23	<25	0.06		30	<20	<5	23		28	
MM6	4290	0.05	<5	165	25					<5	<20	31	66	36	0.01		76	<20	6	79		11	
MM7	4289	0.14	<5	186	17					19	28	30	<5	<25	0.04		102	<20	<5	97		19	
MM8	4256	0.36	6	106	52					<5	<20	25	238	<25	0.11		56	<20	<5	52		44	
MM9	4254	0.32	<5	734	2					13	<20	320	125	<25	0.04		640	<20	<5	54		16	
MM9	4255	0.48	13	99	53					<5	23	52	71	<25	0.18		56	<20	<5	31		74	
MM10	4268	0.45	6	97	29					34	<20	22	95	<25	0.07		52	<20	<5	32		19	
MM10	4269	0.30	6	110	52					<5	<20	20	120	<25	0.10		47	<20	<5	205		44	
MM11	4291	0.79	9	66	18					<5	<20	212	65	<25	0.23		131	<20	8	96		61	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
MM12	4267	1992		Spike Creek	Wainwright	Chert	Outcrop	Grab	Misheguk Mtn	C–5	10S	42W	20	SE	Umiat	
MM13	4251	1992		Spike Creek	Wainwright	Chert	Outcrop	Repr chip	Misheguk Mtn	C–5	10S	42W	21	NW	Umiat	
MM14	4235	1992		Spike Creek	Wainwright	Chert	Rubblecrop	Grab	Misheguk Mtn	C–5	10S	42W	17	SW	Umiat	
MM15	4252	1992		Spike Creek	Wainwright	Chert	Float	Grab	Misheguk Mtn	C–5	10S	42W	10	SE	Umiat	
MM16	4287	1992		Iligluruk Creek	Wainwright	Shale	Outcrop	Chip channel	Misheguk Mtn	C–5	10S	42W	13	NE	Umiat	
MM17	4300	1992		Iligluruk Creek	Wainwright	Chert	Outcrop	Grab	Misheguk Mtn	C–5	10S	41W	4	SW	Umiat	
MM18	4318	1992		Iligluruk Creek	Wainwright	Limestone	Float	Grab	Misheguk Mtn	C–5	10S	41W	10	SE	Umiat	
MM19	4319	1992		Iligluruk Creek	Wainwright	Chert	Outcrop	Select	Misheguk Mtn	C–5	10S	41W	1		Umiat	
MM20	4258	1992		Iligluruk Creek	Wainwright	Limestone	Outcrop	Grab	Misheguk Mtn	C–4	10S	41W	12	SE	Umiat	
MM21	4257	1992		Iligluruk Creek	Wainwright	Conglomerate	Rubblecrop	Grab	Misheguk Mtn	C–4	10S	41W	13	NE	Umiat	
MM22	4259	1992		Iligluruk Creek	Wainwright	Shale	Outcrop	Grab	Misheguk Mtn	C–4	10S	40W	18	NE	Umiat	
MM23	4304	1992		Iligluruk Creek	Wainwright	Chert	Outcrop	Repr chip	Misheguk Mtn	C–4	10S	40W	18	SE	Umiat	
MM24	4271	1992		Iligluruk Creek	Wainwright	Limestone	Outcrop	Grab	Misheguk Mtn	C–4	10S	40W	18	SE	Umiat	
MM25	4270	1992		Tupik Creek	Wainwright	Chert	Outcrop	Contin chip	Misheguk Mtn	C–4	10S	40W	17	SE	Umiat	
MM26	4253	1992		Utukok River	Wainwright	Chert	Outcrop	Select	Misheguk Mtn	C–4	10S	40W	10	SE	Umiat	
MM27	4312	1992		Tupik Creek	Wainwright	Conglomerate	Outcrop	Select	Misheguk Mtn	C–4	10S	39W	30	NE	Umiat	
MM28	4317	1992		Koguk Creek	Wainwright	Limestone	Outcrop	Select	Misheguk Mtn	C–4	11S	39W	3	SE	Umiat	
MM29	4301	1992		Echo Mtn	Wainwright	Chert	Outcrop	Select	Misheguk Mtn	C–4	10S	38W	30	SW	Umiat	
MM30	4266	1992		Sphinx Mtn	Wainwright	Shale	Outcrop	Spaced chip	Misheguk Mtn	C–4	10S	38W	19	SW	Umiat	
MM31	4240	1992		Sphinx Mtn	Wainwright	Chert	Outcrop	Repr chip	Misheguk Mtn	C–4	10S	38W	19	NW	Umiat	
MM32	4278	1992		Sphinx Mtn	Wainwright	Chert	Outcrop	Contin chip	Misheguk Mtn	C–4	10S	39W	24	SE	Umiat	
MM32	4279	1992		Sphinx Mtn	Wainwright	Chert	Outcrop	Contin chip	Misheguk Mtn	C–4	10S	39W	24	SE	Umiat	
MM32	4280	1992		Sphinx Mtn	Wainwright	Chert	Outcrop	Contin chip	Misheguk Mtn	C–4	10S	39W	24	SE	Umiat	
MM33	4281	1992		Sphinx Mtn	Wainwright	Chert	Outcrop	Grab	Misheguk Mtn	C–4	10S	39W	24	NE	Umiat	
MM34	4247	1992		Sphinx Mtn	Wainwright	Limestone	Outcrop	Grab	Misheguk Mtn	C–4	10S	39W	24	NE	Umiat	
MM35	4215	1992		Kogruk Creek	Wainwright	Chert	Rubblecrop	Grab	Misheguk Mtn	C–4	10S	39W	13	SE	Umiat	
MM36	4293	1992		Sphinx Mtn	Wainwright	Limestone	Float	Grab	Misheguk Mtn	C–4	10S	39W	13	NE	Umiat	
MM36	4294	1992		Sphinx Mtn	Wainwright	Limestone	Rubblecrop	Grab	Misheguk Mtn	C–4	10S	39W	13	NE	Umiat	
MM37	4248	1992		Sphinx Mtn	Wainwright	Shale	Outcrop	Repr chip	Misheguk Mtn	C–4	10S	39W	24	NW	Umiat	
MM38	4292	1992		Sphinx Mtn	Wainwright	Chert	Outcrop	Contin chip	Misheguk Mtn	C–4	10S	39W	24	NW	Umiat	
MM39	4274	1992		Sphinx Mtn	Wainwright	Dolomite	Float	Grab	Misheguk Mtn	C–4	10S	39W	24	NW	Umiat	
MM40	4262	1992		Kogruk Creek	Wainwright	Chert	Outcrop	Grab	Misheguk Mtn	C–4	10S	39W	13	SW	Umiat	
MM41	4236	1992		Sphinx Mtn	Wainwright	Chert	Rubblecrop	Select	Misheguk Mtn	C–4	10S	39W	14	SE	Umiat	
MM42	4245	1992		Sphinx Mtn	Wainwright	Sandstone	Rubblecrop	Grab	Misheguk Mtn	C–4	10S	39W	14	SW	Umiat	
MM42	4286	1992		Sphinx Mtn	Wainwright	Chert	Rubblecrop	Grab	Misheguk Mtn	C–4	10S	39W	14	SW	Umiat	
MM43	4244	1992		Sphinx Mtn	Wainwright	Chert	Outcrop	Select	Misheguk Mtn	C–4	10S	39W	23	NW	Umiat	
MM44	4242	1992		Sphinx Mtn	Colville	Limestone	Outcrop	Select	Misheguk Mtn	C–4	10S	39W	22	SE	Umiat	
MM44	4243	1992		Sphinx Mtn	Colville	Shale	Outcrop	Select	Misheguk Mtn	C–4	10S	39W	22	SE	Umiat	
MM45	4288	1992		Utokok River	Wainwright	Chert	Outcrop	Select	Misheguk Mtn	C–4	9S	40W	26	SW	Umiat	
MM46	4335	1992		Adventure Creek	Wainwright	Chert	Outcrop	Repr chip	Misheguk Mtn	C–4	9S	40W	16	SE	Umiat	
MM47	4339	1992		Adventure Creek	Wainwright	Chert brec	Outcrop	Select	Misheguk Mtn	C–4	9S	40W	15	SW	Umiat	
MM48	4338	1992		Adventure Creek	Wainwright	Chert brec	Rubblecrop	Select	Misheguk Mtn	C–4	9S	40W	15	SE	Umiat	
MM49	4333	1992		Adventure Creek	Wainwright	Chert	Outcrop	Select	Misheguk Mtn	C–4	9S	40W	15	NE	Umiat	
MM49	4334	1992		Adventure Creek	Wainwright	Shale/chert	Outcrop	Repr chip	Misheguk Mtn	C–4	9S	40W	15	W	Umiat	
MM50	4352	1992		Adventure Creek	Wainwright	Chert	Rubblecrop	Grab	Misheguk Mtn	C–4	9S	40W	9	SE	Umiat	
MM51	4351	1992		Adventure Creek	Wainwright	Sandstone	Outcrop	Grab	Misheguk Mtn	C–4	9S	40W	3	SW	Umiat	
MM52	4336	1992		Sharp Peak	Wainwright	Shale/chert	Outcrop	Repr chip	Misheguk Mtn	C–4	9S	38W	25	NW	Umiat	
MM53	4295	1992		Sharp Peak	Wainwright	Chert	Outcrop	Select	Misheguk Mtn	C–4	9S	38W	19	SW	Umiat	
MM53	4296	1992		Sharp Peak	Wainwright	Chert	Outcrop	Select	Misheguk Mtn	C–4	9S	38W	19	SW	Umiat	
MM54	4297	1992		Sharp Peak	Wainwright	Shale	Outcrop	Select	Misheguk Mtn	C–4	9S	38W	19	SE	Umiat	
MM55	4239	1992		Elbow Creek	Wainwright	Chert	Outcrop	Grab	Misheguk Mtn	C–4	9S	38W	20	SE	Umiat	
MM56	4249	1992		Sharp Peak	Wainwright	Chert	Outcrop	Grab	Misheguk Mtn	C–4	9S	39W	19	NW	Umiat	
MM56	4250	1992		Sharp Peak	Wainwright	Chert	Outcrop	Grab	Misheguk Mtn	C–4	9S	39W	19	NW	Umiat	
MM57	4231	1992		Sharp Peak	Wainwright	Chert	Rubblecrop	Select	Misheguk Mtn	C–4	9S	39W	24	NE	Umiat	
MM58	4298	1992		Sharp Peak	Wainwright	Chert	Rubblecrop	Select	Misheguk Mtn	C–4	9S	39W	13	SE	Umiat	
MM58	4299	1992		Sharp Peak	Wainwright	Metamorphic	Rubblecrop	Select	Misheguk Mtn	C–4	9S	39W	13	SE	Umiat	
MM59	4227	1992		Sharp Peak	Wainwright	Chert	Outcrop	Select	Misheguk Mtn	C–4	9S	38W	19	NW	Umiat	
MM59	4228	1992		Sharp Peak	Wainwright	Chert	Outcrop	Select	Misheguk Mtn	C–4	9S	38W	19	NW	Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
MM12	4267	0.5	0.91	11		<5			19	0.10	<2.0	50	9		15		0.21	<10	0.20	7	4	0.07	995		4
MM13	4251	2.0	1.08	33		408			18	3.88	<2.0	2	285		32		0.43	<10	0.33	11	19	0.76	92		6
MM14	4235	<0.5	1.53	<5		>2000			31	>10.00	<2.0	12	23		21		4.05	20	0.48	23	8	7.23	16574		3
MM15	4252	<0.5	0.89	13		35			9	5.16	<2.0	5	246		7		3.82	<10	0.23	9	41	1.58	525		<1
MM16	4287	<0.5	1.82	30		114			16	4.05	<2.0	7	130		42		3.2	12	0.87	5	47	1.30	3682		29
MM17	4300																								
MM18	4318	0.9	0.13	<5		327			18	>10.00	<2.0	4	31		10		0.12	14	0.04	10	3	0.32	124		12
MM19	4319	<0.5	1.17	<5		122			<5	0.31	<2.0	<1	354		19		1.29	<10	0.28	6	37	0.18	145		4
MM20	4258	<0.5	4.12	25		641			24	>10.00	<2.0	29	370		38		4.3	16	0.58	19	57	2.32	1879		4
MM21	4257	<0.5	4.15	<5		>2000			24	4.40	<2.0	34	513		48		4.92	16	0.49	8	30	3.09	1096		5
MM22	4259	<0.5	2.31	13		1649			<5	0.11	<2.0	17	108		103		1.79	11	0.51	9	30	0.84	966		4
MM23	4304	<0.5	0.74	<5		12			<5	5.78	<2.0	15	172		64		>10.00	<10	0.55	<5	18	0.41	842		21
MM24	4271	<0.5	0.51	<5		33			14	>10.00	<2.0	8	53		6		>10.00	<10	0.16	<5	6	0.32	333		3
MM25	4270	<0.5	1.64	<5		>2000			9	0.22	<2.0	68	73		69		6.01	27	1.15	<5	45	0.59	7243		<1
MM26	4253	<0.5	3.64	24		253			15	2.71	<2.0	36	398		40		8.05	16	0.63	12	64	2.47	1025		5
MM27	4312	<0.5	4.79	29		1472			11	8.18	<2.0	30	203		58		5.75	16	0.51	<5	27	2.76	1445		4
MM28	4317	0.9	0.42	19		415			17	>10.00	<2.0	5	16		11		0.47	19	0.05	5	5	0.37	723		<1
MM29	4301	<0.5	1.15	<5		1030			26	0.04	<2.0	25	284		17		1.56	26	0.16	<5	39	0.42	>20000		3
MM30	4266	<0.5	7.12	<5		>2000			21	0.98	<2.0	54	91		226		6.26	51	1.81	38	121	1.22	16949		14
MM31	4240	0.8	1.74	<5		208			9	0.03	2.3	6	113		169		1.72	<10	1.13	7	18	0.39	91		2
MM32	4278	<0.5	1.86	11		177			20	0.36	<2.0	19	216		74		3.81	11	1.02	5	70	0.76	498		10
MM32	4279	<0.5	3.97	27		1776			26	0.30	<2.0	18	100		171		4.31	24	1.47	19	87	1.15	468		4
MM32	4280	<0.5	5.71	<5		>2000			25	0.34	<2.0	21	142		173		4.52	26	1.47	24	88	1.44	796		9
MM33	4281	<0.5	1.28	19		>2000			5	0.82	<2.0	8	355		88		1.75	<10	0.22	12	38	0.65	692		13
MM34	4247	0.8	2.48	27		>2000			20	1.05	<2.0	51	68		96		5.51	50	1.33	8	95	0.40	>20000		6
MM35	4215	<0.5	0.76	23		>2000			<5	0.05	<2.0	10	308		38		1.26	<10	0.56	11	29	0.25	123		18
MM36	4293	<0.5	2.07	48		772			37	1.16	<2.0	15	87		16		>10.00	16	0.51	12	25	1.75	6246		9
MM36	4294	<0.5	1.17	40		412			12	1.48	<2.0	8	89		12		>10.00	10	0.34	9	21	2.01	4978		2
MM37	4248	1.7	1.78	7		142			<5	0.03	<2.0	4	153		68		1.49	<10	0.72	<5	14	0.32	240		<1
MM38	4292	1.8	1.21	42		170			15	1.60	<2.0	2	431		116		3.36	<10	0.32	<5	14	0.80	1731		5
MM39	4274	0.7	0.70	18		366			32	>10.00	<2.0	4	33		17		0.23	<10	0.26	<5	2	7.54	343		7
MM40	4262	0.9	0.88	15		696			<5	0.08	<2.0	10	384		57		0.73	<10	0.27	6	17	0.11	106		8
MM41	4236	0.5	1.24	15		>2000			<5	0.12	<2.0	5	277		23		1.22	<10	0.50	<5	31	0.31	203		3
MM42	4245	<0.5	1.70	9		424			23	>10.00	<2.0	8	66		11		1.85	17	0.86	20	12	0.38	1638		1
MM42	4286	<0.5	1.16	17		1380			18	1.63	<2.0	6	40		17		>10.00	18	0.66	6	15	2.35	3390		4
MM43	4244	<0.5	0.48	<5		484			10	0.50	<2.0	5	263		13		0.64	<10	0.13	<5	12	0.16	186		2
MM44	4242	1.0	0.62	19		173			13	>10.00	<2.0	5	17		5		0.6	25	0.19	<5	8	0.58	81		<1
MM44	4243	<0.5	1.69	8		205			18	>10.00	<2.0	8	64		8		1.76	11	0.85	14	26	0.54	67		<1
MM45	4288	<0.5	0.57	<5		20			15	0.35	<2.0	7	349		26		2.04	<10	0.20	<5	31	0.13	1627		2
MM46	4335	<0.5	1.89	14		463			7	0.40	<2.0	7	229		47		1.19	<10	0.66	9	25	0.51	315		3
MM47	4339	1.9	1.30	16		61			<5	1.30	<2.0	7	278		39		2.57	<10	0.42	5	32	0.90	840		2
MM48	4338	<0.5	0.55	<5		1078			<5	0.04	<2.0	5	369		21		2.32	<10	0.15	<5	49	0.11	91		12
MM49	4333	<0.5	0.19	<5		82			<5	0.13	<2.0	2	403		19		1.5	<10	0.04	<5	5	0.11	152		2
MM49	4334	<0.5	3.20	52		139			32	>10.00	<2.0	25	38		73		3.96	17	0.81	10	24	5.93	9625		21
MM50	4352	<0.5	1.10	8		248			29	0.05	<2.0	6	292		44		2.09	13	0.44	<5	20	0.15	181		8
MM51	4351	2.3	3.46	120		610			61	1.68	<2.0	24	157		80		5.75	49	1.38	6	59	1.70	580		14
MM52	4336	<0.5	4.44	60		215			<5	0.11	<2.0	21	216		120		3.62	11	1.71	15	37	0.73	288		330
MM53	4295	<0.5	1.65	<5		170			17	0.13	<2.0	9	121		39		2.8	<10	0.57	6	31	0.65	719		3
MM53	4296	<0.5	5.22	<5		>2000			16	0.13	<2.0	11	81		75		3.56	13	1.46	18	39	0.92	344		2
MM54	4297	<0.5	4.83	9		>2000			32	0.16	<2.0	17	172		84		5.05	23	1.54	18	29	1.38	4802		5
MM55	4239	<0.5	1.90	<5		>2000			<5	0.06	<2.0	11	262		568		1.37	<10	0.58	8	23	0.47	4029		3
MM56	4249	<0.5	1.56	<5		>2000			7	0.15	<2.0	6	181		482		0.73	12	0.47	7	24	0.31	3025		1
MM56	4250	<0.5	1.73	6		>2000			5	0.21	<2.0	23	201		64		1.35	11	0.43	7	32	0.66	5352		4
MM57	4231	<0.5	2.14	22		378			8	0.11	<2.0	14	102		93		1.99	13	0.83	9	39	0.85	5304		4
MM58	4298	<0.5	0.06	9		1293			8	0.02	<2.0	3	219		18		2.29	<10	0.02	12	3	0.02	127		19
MM58	4299	<0.5	0.50	19		1164			14	0.13	<2.0	3	15		11		0.41	<10	0.10	<5	7	0.19	233		3
MM59	4227	<0.5	1.49	14		>2000			<5	0.07	<2.0	10	226		229		1.67	12	0.57	7	32	0.43	2022		7
MM59	4228	<0.5	1.36	<5		1781			13	0.05	<2.0	10	303		39		1.41	11	0.29	7	28	0.34	5354		3

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Ti %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
MM12	4267	0.70	<5	5	12					<5	<20	>2000	125	<25	0.03		23	<20	<5	4		21	
MM13	4251	0.10	<5	54	13					<5	<20	119	64	<25	0.05		89	<20	21	113		19	
MM14	4235	0.42	<5	17	18					<5	<20	853	330	<25	0.10		49	<20	31	20		34	
MM15	4252	0.11	5	31	18					16	<20	92	73	<25	0.14		26	<20	9	18		64	
MM16	4287	0.68	7	25	6					<5	<20	134	<5	<25	0.43		192	<20	<5	35		50	
MM17	4300																						
MM18	4318	0.04	<5	8	10					11	<20	652	146	<25	<0.01		35	<20	<5	<2		<5	
MM19	4319	0.14	<5	19	12					<5	<20	110	101	<25	0.08		58	<20	5	19		45	
MM20	4258	2.13	7	141	20					30	23	151	201	<25	0.39		167	<20	11	38		38	
MM21	4257	2.97	6	176	22					21	<20	189	85	<25	0.49		214	<20	8	44		37	
MM22	4259	0.24	<5	50	17					8	<20	628	226	<25	0.11		31	<20	10	58		64	
MM23	4304	0.64	6	51	15					22	<20	137	42	<25	0.12		157	<20	30	48		36	
MM24	4271	0.24	6	61	33					7	<20	548	153	<25	0.07		44	<20	<5	21		40	
MM25	4270	1.46	18	158	20					7	<20	99	123	<25	0.44		310	<20	<5	107		97	
MM26	4253	2.06	9	145	10					<5	<20	106	8	<25	0.41		194	<20	6	60		43	
MM27	4312	1.97	<5	58	3					<5	<20	261	142	<25	0.34		160	<20	7	34		19	
MM28	4317	0.25	<5	5	15					<5	<20	297	107	<25	0.07		41	<20	<5	<2		<5	
MM29	4301	0.30	<5	107	20					12	<20	73	<5	<25	0.05		22	<20	5	36		25	
MM30	4266	1.10	43	160	43					17	<20	190	60	<25	0.57		325	<20	34	248		171	
MM31	4240	0.29	5	39	15					<5	<20	71	118	<25	0.16		157	<20	8	50		48	
MM32	4278	0.52	7	61	27					<5	<20	155	<5	<25	0.33		107	<20	12	110		64	
MM32	4279	0.96	12	118	21					<5	<20	784	90	<25	0.37		137	<20	21	235		123	
MM32	4280	1.00	12	115	32					17	<20	940	<5	<25	0.35		129	<20	31	249		138	
MM33	4281	0.18	<5	38	25					18	<20	179	<5	<25	0.06		32	<20	10	77		34	
MM34	4247	0.71	34	131	29					19	<20	153	55	<25	0.40		165	<20	12	121		112	
MM35	4215	0.30	<5	73	25					<5	<20	57	236	<25	0.10		50	<20	<5	40		32	
MM36	4293	0.62	17	45	34					<5	<20	82	119	32	0.13		83	<20	16	19		60	
MM36	4294	0.45	10	31	20					16	<20	81	37	<25	0.07		123	<20	11	51		24	
MM37	4248	0.18	<5	28	15					6	<20	114	74	<25	0.12		135	<20	10	8		54	
MM38	4292	0.41	<5	89	10					7	<20	213	54	<25	0.06		230	<20	11	90		28	
MM39	4274	0.56	<5	12	12					<5	<20	1197	154	<25	0.03		73	<20	<5	10		11	
MM40	4262	0.20	<5	108	14					10	<20	97	147	<25	0.05		56	<20	7	49		23	
MM41	4236	0.33	15	46	16					12	<20	65	143	<25	0.10		44	<20	<5	32		44	
MM42	4245	0.45	7	20	16					<5	<20	285	192	<25	0.24		65	<20	7	18		73	
MM42	4286	0.59	15	19	35					6	21	101	141	<25	0.08		41	<20	8	7		29	
MM43	4244	0.13	<5	23	9					<5	<20	148	98	<25	0.02		36	<20	<5	23		15	
MM44	4242	0.12	<5	9	14					16	<20	1200	268	<25	0.03		34	<20	<5	<2		10	
MM44	4243	0.28	<5	28	19					<5	<20	568	37	<25	0.16		58	<20	5	60		45	
MM45	4288	0.17	<5	20	13					13	<20	30	80	<25	0.04		20	<20	<5	14		20	
MM46	4335	0.16	<5	36	21					8	<20	106	131	<25	0.09		59	<20	8	75		30	
MM47	4339	0.14	<5	30	25					<5	<20	204	54	<25	0.07		37	<20	6	28		21	
MM48	4338	0.08	<5	21	11					<5	<20	19	59	<25	0.03		27	<20	<5	14		11	
MM49	4333	0.07	<5	15	10					<5	<20	16	110	<25	0.01		13	<20	<5	12		<5	
MM49	4334	0.55	<5	61	10					18	<20	431	146	<25	0.17		119	<20	31	196		42	
MM50	4352	0.13	<5	34	<2					30	<20	58	<5	<25	0.07		27	<20	6	47		22	
MM51	4351	1.30	19	93	47					60	71	81	125	53	0.55		239	<20	6	114		80	
MM52	4336	1.23	8	111	32					13	<20	176	80	<25	0.30		117	<20	13	85		79	
MM53	4295	0.26	<5	56	13					<5	<20	79	54	<25	0.13		48	<20	8	54		59	
MM53	4296	0.51	10	47	12					<5	<20	142	90	<25	0.27		116	<20	12	77		111	
MM54	4297	0.51	11	45	38					30	<20	446	7	<25	0.26		126	<20	12	92		120	
MM55	4239	0.42	<5	37	8					<5	<20	399	123	<25	0.10		35	<20	7	38		42	
MM56	4249	0.32	<5	30	5					8	<20	343	34	<25	0.07		34	<20	7	21		53	
MM56	4250	0.32	<5	80	17					9	<20	429	11	<25	0.09		34	<20	10	74		54	
MM57	4231	0.27	5	60	17					<5	<20	136	78	<25	0.15		65	<20	9	60		42	
MM58	4298	0.03	<5	22	31					7	<20	26	65	<25	<0.01		23	<20	<5	23		<5	
MM58	4299	0.08	<5	11	10					<5	<20	1371	49	<25	0.03		27	<20	<5	13		9	
MM59	4227	0.61	5	49	19					<5	<20	472	154	<25	0.15		46	<20	7	41		67	
MM59	4228	0.61	<5	38	15					19	<20	379	164	<25	0.10		30	<20	6	28		46	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
MM59	4229	1992		Sharp Peak	Wainwright	Chert	Outcrop	Repr chip	Misheguk Mtn	C–4	9S	38W	19	NW	Umiat	
MM59	4230	1992		Sharp Peak	Wainwright	Chert	Outcrop	Repr chip	Misheguk Mtn	C–4	9S	38W	19	NW	Umiat	
MM60	4285	1992		Elbow Creek	Wainwright	Chert	Rubblecrop	Grab	Misheguk Mtn	C–4	9S	38W	21	NW	Umiat	
MM61	4282	1992		Elbow Creek	Wainwright	Manganese	Float	Grab	Misheguk Mtn	C–4	9S	38W	21	NW	Umiat	
MM62	4307	1992		Nucleus Creek	Wainwright	Shale	Outcrop	Select	Misheguk Mtn	C–3	9S	37W	6	NW	Umiat	
MM63	4306	1992		Nucleus Creek	Wainwright	Chert	Outcrop	Repr chip	Misheguk Mtn	C–3	9S	37W	6	NE	Umiat	
MM64	4324	1992		Nucleus Creek	Wainwright	Chert	Outcrop	Spaced chip	Misheguk Mtn	C–3	8S	37W	35	SW	Umiat	
MM65	4323	1992		Nucleus Creek	Wainwright	Chert	Outcrop	Chip channel	Misheguk Mtn	C–3	8S	37W	35	SE	Umiat	
MM66	4313	1992		Nucleus Creek	Wainwright	Chert	Outcrop	Repr chip	Misheguk Mtn	C–3	8S	37W	35	SE	Umiat	
MM67	4316	1992		Nucleus Creek	Wainwright	Chert	Outcrop	Repr chip	Misheguk Mtn	C–3	8S	37W	35	SE	Umiat	
MM67	4327	1992		Nucleus Creek	Wainwright	Chert	Outcrop	Repr chip	Misheguk Mtn	C–3	8S	37W	35	SE	Umiat	
MM67	4328	1992		Nucleus Creek	Wainwright	Chert	Outcrop	Repr chip	Misheguk Mtn	C–3	8S	37W	35	SE	Umiat	
MM67	4329	1992		Nucleus Creek	Wainwright	Chert	Outcrop	Repr chip	Misheguk Mtn	C–3	8S	37W	35	SE	Umiat	
MM67	4330	1992		Nucleus Creek	Wainwright	Chert	Outcrop	Repr chip	Misheguk Mtn	C–3	8S	37W	35	SE	Umiat	
MM68	4314	1992		Nucleus Creek	Wainwright	Chert	Outcrop	Repr chip	Misheguk Mtn	C–3	8S	37W	35	SE	Umiat	
MM68	4315	1992		Nucleus Creek	Wainwright	Chert	Outcrop	Repr chip	Misheguk Mtn	C–3	8S	37W	35	SE	Umiat	
MM69	4302	1992		Nucleus Creek	Wainwright	Chert	Outcrop	Select	Misheguk Mtn	C–3	9S	37W	8	SE	Umiat	
MM70	4272	1992		Nucleus Creek	Wainwright	Sandstone	Float	Grab	Misheguk Mtn	C–3	9S	37W	17	SW	Umiat	
MM71	4303	1992		Nucleus Creek	Wainwright	Conglomerate	Outcrop	Select	Misheguk Mtn	C–3	9S	37W	17	SE	Umiat	
MM72	4265	1992		Kidney Creek	Wainwright	Chert	Rubblecrop	Grab	Misheguk Mtn	C–3	10S	37W	1	NW	Umiat	
MM73	4277	1992		Storm Creek	Colville	Conglomerate	Rubblecrop	Grab	Misheguk Mtn	C–3	9S	36W	33	SE	Umiat	
MM74	4340	1992		Nuka River	Colville	Chert	Outcrop	Grab	Misheguk Mtn	C–2	9S	35W	32	NE	Umiat	
MM75	4322	1992		Nuka River	Colville	Chert	Outcrop	Grab	Misheguk Mtn	C–2	9S	35W	28	NE	Umiat	
MM76	4321	1992		Nuka River	Colville	Chert	Outcrop	Grab	Misheguk Mtn	C–2	9S	35W	29	NE	Umiat	
MM77	4320	1992		Nuka River	Colville	Chert	Outcrop	Grab	Misheguk Mtn	C–2	9S	35W	21	NE	Umiat	
MM78	4308	1992		Nuka River	Colville	Chert	Rubblecrop	Select	Misheguk Mtn	C–2	9S	35W	21	NW	Umiat	
MM79	4331	1992		Nuka River	Colville	Shale	Outcrop	Select	Misheguk Mtn	C–2	9S	35W	20	NE	Umiat	
MM80	4309	1992		Nuka River	Colville	Limestone	Outcrop	Select	Misheguk Mtn	C–2	9S	35W	20	NE	Umiat	
MM81	4310	1992		Nuka River	Colville	Chert	Outcrop	Select	Misheguk Mtn	C–2	9S	35W	20	NE	Umiat	
MM82	4354	1992		Thunder Creek	Wainwright	Chert	Outcrop	Repr chip	Misheguk Mtn	C–3	8S	35W	19	SE	Umiat	
MM83	4353	1992		Thunder Creek	Wainwright	Chert	Rubblecrop	Grab	Misheguk Mtn	C–3	8S	35W	20	SW	Umiat	
MM84	4332	1992		Storm Creek	Colville	Gabbro	Outcrop	Grab	Misheguk Mtn	C–2	8S	34W	20	SW	Umiat	
MM85	4234	1992		Nuka River	Colville	Mafic intrusive	Rubblecrop	Grab	Misheguk Mtn	C–2	9S	34W	21	SW	Umiat	
MM86	4233	1992		Nuka River	Colville	Chert	Rubblecrop	Grab	Misheguk Mtn	C–2	9S	34W	28	NW	Umiat	
MM87	4275	1992		Chertchip Creek	Colville	Chert	Outcrop	Grab	Misheguk Mtn	C–2	9S	34W	27	NW	Umiat	
MM88	4276	1992		Chertchip Creek	Colville	Mafic intrusive	Rubblecrop	Grab	Misheguk Mtn	C–2	9S	34W	22	SW	Umiat	
MM89	4264	1992		Chertchip Creek	Colville	Sandstone	Outcrop	Grab	Misheguk Mtn	C–2	9S	34W	15	SW	Umiat	
MM90	4238	1992		Chertchip Creek	Colville	Chert	Outcrop	Repr chip	Misheguk Mtn	C–2	9S	34W	13	SW	Umiat	
MM91	4237	1992		Nuka River	Colville	Chert	Rubblecrop	Select	Misheguk Mtn	C–1	8S	32W	20	SW	Umiat	
MM92	4284	1992		Mechanic Creek	Colville	Chert	Rubblecrop	Grab	Misheguk Mtn	D–1	8S	32W	9	NE	Umiat	
MM93	4263	1992		Mechanic Creek	Colville	Chert	Rubblecrop	Grab	Misheguk Mtn	C–1	8S	32W	23	NW	Umiat	
MM94	4246	1992		Nuka Ridge	Colville	Chert	Rubblecrop	Grab	Misheguk Mtn	C–1	8S	32W	23	NW	Umiat	
MM95	4260	1992		Nuka Ridge	Colville	Chert	Rubblecrop	Grab	Misheguk Mtn	C–1	9S	32W	26	SW	Umiat	
MM96	4283	1992		Nuka Ridge	Colville	Chert	Float	Grab	Misheguk Mtn	C–1	9S	32W	26	SE	Umiat	
MM97	4311	1992		Bogie Creek	Colville	Mafic intrusive	Float	Select	Misheguk Mtn	C–1	10S	31W	18	NW	Umiat	
MM98	4326	1992		Bogie Creek	Colville	Sandstone	Outcrop	Grab	Misheguk Mtn	C–1	10S	31W	5	NW	Umiat	
MM99	4273	1992		Nuka Ridge	Colville	Sandstone	Float	Select	Misheguk Mtn	C–1	9S	31W	29	NW	Umiat	
MM100	4232	1992		Nuka Ridge	Colville	Chert	Float	Select	Misheguk Mtn	C–1	9S	31W	29	NW	Umiat	
MM101	4337	1992		Bogie Creek	Colville	Mafic intrusive	Outcrop	Grab	Misheguk Mtn	C–1	9S	31W	27	NW	Umiat	
MM102	4345	1992		Bogie Creek	Colville	Gabbro	Outcrop	Select	Misheguk Mtn	C–1	9S	31W	22	SE	Umiat	
MM103	4344	1992		Bogie Creek	Colville	Gabbro	Rubblecrop	Select	Misheguk Mtn	C–1	9S	31W	22	SW	Umiat	
MM104	4341	1992		Bogie Creek	Colville	Chert	Rubblecrop	Select	Misheguk Mtn	C–1	9S	31W	16	SW	Umiat	
MM105	4348	1992		Sorepaw Creek	Colville	Gabbro	Outcrop	Select	Misheguk Mtn	C–1	9S	31W	9	NW	Umiat	
MM106	4347	1992		Sorepaw Creek	Colville	Chert	Outcrop	Select	Misheguk Mtn	D–1	8S	30W	7	NW	Umiat	
MM107	4346	1992		Sorepaw Creek	Colville	Limestone brec	Outcrop	Chip channel	Misheguk Mtn	D–1	8S	30W	7	NW	Umiat	
PS1	4399	1993		Itikmalak River trib	Colville	Limestone	Float	Select	Philip Smith	B–5	12S	10E	10	SE	Umiat	
PS2	4386	1993		Itikmalik River trib	Colville	Chert	Outcrop	Select	Philip Smith	B–5	12S	11E	18	SW	Umiat	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
MM59	4229	<0.5	2.44	<5		839			8	0.04	<2.0	17	106		83		1.55	10	0.88	13	26	0.56	365		15
MM59	4230	<0.5	1.26	7		1713			14	0.02	<2.0	9	334		78		1.39	<10	0.35	7	31	0.42	1472		2
MM60	4285	<0.5	1.08	<5		1371			<5	0.06	<2.0	11	293		35		1	<10	0.25	5	18	0.27	1097		4
MM61	4282	7.5	0.68	15		>2000			92	2.42	<2.0	37	110		54		0.59	92	0.19	7	14	0.50	>20000		30
MM62	4307	<0.5	0.63	15		23			7	>10.00	3.6	3	50		129		0.64	<10	0.04	18	3	0.01	28		7
MM63	4306	0.5	1.86	<5		89			<5	0.93	<2.0	15	291		97		3.2	<10	0.96	6	28	0.56	353		13
MM64	4324	<0.5	3.04	<5		45			<5	0.97	<2.0	6	264		98		2.66	<10	0.67	6	38	0.31	195		16
MM65	4323	<0.5	2.77	42		910			6	0.24	<2.0	9	109		103		4.34	14	1.07	<5	28	0.44	176		5
MM66	4313	2.7	1.76	10		>2000			8	5.30	<2.0	11	114		42		1.43	<10	0.18	<5	14	1.39	1528		3
MM67	4316	<0.5	2.65	21		487			<5	0.52	<2.0	7	249		33		2.2	10	0.80	6	32	0.85	310		4
MM67	4327	1.5	2.69	<5		482			13	0.93	<2.0	15	280		80		1.95	<10	0.86	12	31	0.80	523		7
MM67	4328	0.6	5.34	50		219			11	0.55	<2.0	12	170		110		4.9	15	1.33	19	34	0.84	254		19
MM67	4329	1.0	5.77	<5		929			<5	0.52	<2.0	5	170		72		3.5	14	1.23	24	35	0.79	241		27
MM67	4330	1.4	7.59	43		219			9	1.81	<2.0	18	114		108		5.63	21	1.76	25	37	1.65	1268		30
MM68	4314	<0.5	3.82	<5		198			<5	0.40	<2.0	23	122		93		>10.00	15	1.45	5	28	0.83	389		4
MM68	4315	<0.5	2.78	14		210			12	0.60	<2.0	9	172		53		2.13	10	0.89	6	32	0.94	342		2
MM69	4302	<0.5	0.77	43		15			17	2.09	<2.0	6	296		25		5.66	<10	0.23	<5	26	0.28	3996		14
MM70	4272	<0.5	1.37	<5		353			12	0.22	<2.0	13	239		20		2.84	11	0.90	5	51	0.53	384		8
MM71	4303	<0.5	1.63	<5		343			18	1.11	<2.0	9	173		48		2.45	<10	0.67	8	25	0.53	906		6
MM72	4265	<0.5	3.26	11		792			14	3.16	<2.0	31	46		137		6.93	25	1.09	9	59	2.00	3047		3
MM73	4277	<0.5	5.12	<5		>2000			13	0.25	<2.0	22	134		49		4.86	17	1.79	27	41	0.95	1384		8
MM74	4340	0.9	1.27	12		754			<5	1.50	<2.0	9	337		40		1.46	<10	0.11	11	203	0.85	2172		10
MM75	4322	<0.5	1.51	6		104			9	1.44	<2.0	5	264		32		1.44	<10	0.44	<5	14	0.89	562		7
MM76	4321	<0.5	0.92	11		428			10	0.36	<2.0	3	400		26		0.99	<10	0.21	5	17	0.28	254		5
MM77	4320	<0.5	2.95	13		96			13	2.44	<2.0	13	174		73		4.12	<10	0.70	10	26	0.46	264		65
MM78	4308	0.7	4.89	54		46			14	2.31	<2.0	30	165		82		6.36	13	1.02	19	46	0.97	303		14
MM79	4331	<0.5	8.72	68		385			18	4.19	<2.0	12	121		25		5.39	21	0.85	34	70	1.54	408		7
MM80	4309	1.0	0.79	9		125			18	>10.00	<2.0	8	17		10		1.09	22	0.23	7	11	0.64	575		1
MM81	4310	1.6	0.42	<5		41			9	1.50	<2.0	<1	456		24		3.78	<10	0.10	5	22	0.16	118		17
MM82	4354	<0.5	2.38	41		244			14	1.35	<2.0	10	114		83		4.01	17	1.31	<5	39	0.71	628		31
MM83	4353	<0.5	0.12	30		469			10	0.01	<2.0	2	298		12		1.37	<10	0.04	<5	14	0.02	32		3
MM84	4332	<0.5	7.19	32		>2000			12	6.57	<2.0	42	152		184		9.25	24	0.26	<5	20	4.67	1428		5
MM85	4234	<0.5	5.30	<5		>2000			34	7.81	<2.0	50	116		179		>10.00	28	0.83	<5	34	3.63	1794		3
MM86	4233	<0.5	0.57	<5		>2000			39	>10.00	<2.0	9	31		14		4.72	14	0.27	<5	30	4.66	13751		<1
MM87	4275	<0.5	1.40	<5		>2000			14	0.35	<2.0	9	427		16		1.73	<10	0.16	7	32	0.57	1043		3
MM88	4276	<0.5	5.16	19		1769			43	7.06	<2.0	52	91		211		>10.00	35	0.50	<5	28	3.68	1781		8
MM89	4264	<0.5	1.51	20		795			12	1.38	<2.0	8	188		17		3.21	14	0.68	<5	47	0.70	730		4
MM90	4238	<0.5	2.72	18		>2000			6	0.02	<2.0	6	94		67		2	10	0.92	9	20	0.36	76		3
MM91	4237	<0.5	2.02	6		>2000			<5	0.16	<2.0	7	210		47		2.36	<10	0.59	8	27	0.53	255		4
MM92	4284	<0.5	0.12	<5		370			12	0.28	<2.0	2	447		13		0.38	<10	0.04	<5	4	0.02	2985		1
MM93	4263	<0.5	0.33	<5		674			34	2.86	<2.0	2	366		8		0.45	<10	0.09	7	20	1.26	696		2
MM94	4246	1.2	1.03	13		1527			34	0.32	<2.0	24	268		97		1.25	48	0.15	11	34	0.50	>20000		6
MM95	4260	1.4	0.93	<5		785			19	0.12	<2.0	6	276		26		1.03	<10	0.05	<5	31	0.54	872		4
MM96	4283	<0.5	0.39	<5		1241			<5	0.03	<2.0	2	435		104		0.74	<10	0.11	<5	26	0.11	995		2
MM97	4311	<0.5	5.73	7		>2000			21	8.53	<2.0	40	67		206		9.64	28	0.42	5	16	3.65	1435		3
MM98	4326	<0.5	4.45	<5		201			6	0.35	<2.0	<1	267		6		1.73	11	1.31	10	7	0.18	53		9
MM99	4273	0.8	2.06	10		648			20	1.35	<2.0	26	273		25		2.13	14	1.60	13	4	0.19	10810		3
MM100	4232	<0.5	0.74	77		>2000			26	4.80	<2.0	42	257		174		0.96	35	0.07	41	35	0.44	>20000		6
MM101	4337	<0.5	7.24	32		>2000			14	6.40	<2.0	48	263		87		>10.00	20	0.88	10	52	5.11	1440		19
MM102	4345	<0.5	6.67	<5		>2000			<5	6.38	<2.0	44	77		224		>10.00	22	0.53	<5	27	3.61	1591		2
MM103	4344	<0.5	7.15	21		>2000			25	8.44	<2.0	51	203		168		>10.00	26	0.40	6	23	5.21	1502		13
MM104	4341	0.8	1.28	<5		498			<5	0.03	<2.0	<1	323		27		0.85	<10	0.58	<5	12	0.14	55		4
MM105	4348	<0.5	6.95	39		>2000			10	6.11	<2.0	49	70		213		>10.00	17	0.78	<5	24	3.75	1659		<1
MM106	4347	3.8	0.57	11		787			36	>10.00	<2.0	6	198		18		0.37	<10	0.13	<5	18	8.29	215		12
MM107	4346	1.7	0.38	9		318			11	>10.00	<2.0	3	332		34		0.47	<10	0.10	6	8	0.40	147		14
PS1	4399	0.8	0.02	12		1518			<5	>10.00	<2.0	3	15		11		0.01	13	<0.01	<5	<2	0.12	26		1
PS2	4386	<0.5	1.68	<5		151			<5	7.00	<2.0	4	142		42		>10.00	11	0.71	11	12	0.41	177		<1

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
MM59	4229	0.71	7	52	25					19	<20	422	134	<25	0.22		75	<20	9	38		90	
MM59	4230	0.29	<5	32	9					<5	<20	309	23	<25	0.08		36	<20	6	30		40	
MM60	4285	0.17	<5	30	13					<5	<20	340	13	<25	0.05		27	<20	<5	29		43	
MM61	4282	0.41	<5	98	22					37	<20	274	145	<25	0.03		135	<20	19	30		18	
MM62	4307	0.22	<5	60	4					<5	<20	>2000	128	<25	<0.01		236	<20	136	20		7	
MM63	4306	0.46	6	44	16					27	<20	214	109	<25	0.16		125	<20	16	149		63	
MM64	4324	1.48	<5	52	15					<5	<20	86	39	<25	0.17		147	<20	15	146		53	
MM65	4323	0.37	8	30	26					<5	<20	114	108	<25	0.27		99	<20	12	62		88	
MM66	4313	0.84	<5	31	<2					<5	<20	778	56	<25	0.10		34	<20	8	123		20	
MM67	4316	0.21	<5	39	17					11	<20	137	<5	<25	0.14		61	<20	12	63		33	
MM67	4327	0.27	<5	75	8					<5	<20	341	70	<25	0.14		141	<20	20	147		34	
MM67	4328	1.36	9	49	28					12	<20	192	<5	<25	0.33		315	<20	20	146		72	
MM67	4329	1.17	6	38	25					13	<20	217	85	<25	0.31		463	<20	21	57		78	
MM67	4330	1.24	10	60	27					<5	<20	242	141	<25	0.40		412	<20	29	195		98	
MM68	4314	0.53	12	72	25					<5	<20	38	109	25	0.22		81	<20	16	151		41	
MM68	4315	0.23	<5	37	12					16	<20	105	65	<25	0.15		51	<20	12	75		37	
MM69	4302	0.11	<5	34	18					14	<20	45	21	<25	0.04		25	<20	9	6		19	
MM70	4272	2.24	7	39	22					<5	<20	39	47	<25	0.35		131	<20	<5	42		62	
MM71	4303	0.33	<5	44	23					<5	<20	107	<5	<25	0.12		77	<20	11	73		59	
MM72	4265	1.72	24	26	14					<5	<20	71	117	<25	0.99		393	<20	8	111		81	
MM73	4277	1.03	13	89	35					14	<20	171	12	<25	0.45		150	<20	20	154		121	
MM74	4340	0.45	<5	77	14					11	<20	424	45	<25	0.05		47	<20	22	172		12	
MM75	4322	0.24	<5	40	12					<5	<20	84	<5	<25	0.07		48	<20	10	53		33	
MM76	4321	0.15	<5	24	10					17	<20	71	171	<25	0.05		27	<20	5	9		19	
MM77	4320	0.30	<5	72	8					<5	<20	94	114	<25	0.19		72	<20	13	205		56	
MM78	4308	2.20	11	98	29					10	<20	170	125	<25	0.36		156	<20	14	100		65	
MM79	4331	3.65	15	51	35					16	<20	182	205	<25	0.49		149	<20	20	156		92	
MM80	4309	0.12	<5	9	20					17	<20	610	191	<25	0.04		36	<20	<5	35		10	
MM81	4310	0.07	<5	71	17					9	<20	63	22	<25	0.02		45	<20	10	50		9	
MM82	4354	1.09	8	57	6					<5	<20	126	<5	<25	0.30		311	<20	11	101		74	
MM83	4353	0.04	<5	7	<2					<5	<20	7	59	<25	<0.01		24	<20	<5	10		<5	
MM84	4332	3.63	8	76	13					<5	<20	352	71	<25	0.81		337	<20	16	61		32	
MM85	4234	3.18	8	72	10					7	26	732	65	<25	0.98		366	<20	11	79		34	
MM86	4233	0.20	<5	29	13					<5	<20	>2000	28	<25	0.03		31	<20	13	<2		11	
MM87	4275	0.50	<5	47	23					7	<20	81	70	<25	0.07		50	<20	8	24		38	
MM88	4276	3.75	7	69	20					44	48	353	129	<25	1.27		650	<20	16	90		44	
MM89	4264	2.11	8	38	21					<5	<20	66	98	<25	0.33		139	<20	<5	48		46	
MM90	4238	0.46	7	29	27					7	<20	73	75	<25	0.16		74	<20	6	43		58	
MM91	4237	0.35	6	32	14					20	<20	86	15	<25	0.12		83	<20	7	37		48	
MM92	4284	0.04	<5	12	7					13	<20	27	48	<25	<0.01		15	<20	<5	4		6	
MM93	4263	0.06	<5	21	9					17	<20	105	<5	<25	0.02		50	<20	8	18		7	
MM94	4246	0.28	<5	75	19					17	<20	184	54	<25	0.06		83	<20	12	16		40	
MM95	4260	0.18	<5	46	13					9	<20	494	<5	<25	0.04		14	<20	<5	35		19	
MM96	4283	0.16	<5	17	11					12	<20	382	87	<25	0.03		29	<20	<5	6		30	
MM97	4311	2.96	5	54	22					13	<20	487	178	<25	0.70		296	<20	16	77		51	
MM98	4326	2.18	<5	8	12					<5	<20	176	38	<25	0.09		39	<20	7	4		28	
MM99	4273	1.79	5	183	36					<5	<20	173	121	<25	0.11		115	<20	13	40		47	
MM100	4232	0.22	<5	109	14					9	<20	403	74	<25	0.03		142	<20	75	103		<5	
MM101	4337	2.46	8	112	23					<5	<20	319	109	<25	0.87		336	<20	17	54		11	
MM102	4345	3.18	8	51	25					22	<20	582	52	<25	0.93		372	<20	21	80		59	
MM103	4344	3.06	9	100	26					<5	<20	542	174	<25	0.91		344	<20	16	77		41	
MM104	4341	0.26	<5	13	7					<5	<20	23	87	<25	0.06		65	<20	6	4		23	
MM105	4348	2.92	7	53	16					7	27	790	55	<25	0.78		333	<20	17	78		55	
MM106	4347	0.10	<5	124	13					39	<20	108	55	<25	0.02		52	<20	<5	410		8	
MM107	4346	0.07	<5	64	7					38	<20	117	69	<25	0.02		72	<20	7	75		<5	
PS1	4399	0.02	<5	6	8					<5	27	270	<100	<25	<0.01	<9.0	42	<20	<5	14		<5	
PS2	4386	0.09	19	52	45					<5	<20	82	<100	<25	0.19	<9.0	58	<20	13	64		59	

Map no.	Sample no.	Year	Property name	Location name	Mining district	Basic rock type	Sample site	Sample type	Quad name	Quad. no.	TWP	RNG	Section	Quarter section	Meridian	Ag o/t
PS2	4430	1993		Itkillik Lake	Colville	Chert	Float	Grab	Philip Smith	B–5	12S	11E	18	SW	Umiat	
PS3	4429	1993		Itkillik Lake	Colville	Sandstone	Float	Grab	Philip Smith	B–5	12S	11E	19	NE	Umiat	
PS4	4388	1993		Itkillik Lake trib	Colville	Shale	Outcrop	Select	Philip Smith	B–5	12S	10E	19	SW	Umiat	
PS5	4387	1993		Itkillik Lake trib	Colville	Conglomerate	Float	Select	Philip Smith	B–5	12S	10E	19	SE	Umiat	
PS6	4435	1993		Itkillik Lake	Colville	Conglomerate	Float	Grab	Philip Smith	B–5	12S	10E	28	SW	Umiat	
PS7	4434	1993		Itkillik Lake	Colville	Mudstone	Float	Select	Philip Smith	B–5	12S	10E	32	NE	Umiat	
PS8	4482	1993		Oolah Mtn North	Colville	Barite	Float	Grab	Philip Smith	A–5	14S	10E	20	NW	Umiat	
PS9	4827	1993		Itkillik River trib	Colville	Chert	Rubblecrop	Select	Philip Smith	A–5	14S	10E	21	SW	Umiat	
PS9	4828	1993		Itkillik River trib	Colville	Chert	Rubblecrop	Select	Philip Smith	A–5	14S	10E	21	SW	Umiat	
PS10	4498	1993		Itkillik River S trib	Colville			Stream sed	Philip Smith	A–5	14S	10E	20	SW	Umiat	
PS11	4776	1993		Itkillik River S trib	Colville	Chert	Float	Grab	Philip Smith	A–5	14S	10E	29	NW	Umiat	
PS12	4698	1993		Itkillik River	Colville	Shale	Outcrop	Select	Philip Smith	A–5	14S	09E	25	NW	Umiat	
PS13	4787	1993		Oolah Mtn North	Colville	Chert	Rubblecrop	Select	Philip Smith	A–5	14S	09E	25	NE	Umiat	
PS13	4788	1993		Oolah Mtn North	Colville	Chert	Float	Select	Philip Smith	A–5	14S	09E	25	NE	Umiat	
PS14	4431	1993		Oolah Mtn Northeast	Colville	Shale	Float	Select	Philip Smith	A–5	14S	09E	36	NE	Umiat	
PS14	4432	1993		Oolah Mtn Northeast	Colville	Shale	Outcrop	Random chip	Philip Smith	A–5	14S	09E	36	NE	Umiat	
PS15	4433	1993		Oolah Mtn Northeast	Colville	Shale	Float	Select	Philip Smith	A–5	14S	10E	31	NW	Umiat	
PS16	4492	1993		Itkillik River trib	Colville	Conglomerate	Float	Select	Philip Smith	A–5	15S	09E	2	SE	Umiat	
PS17	4762	1993		Itkillik River trib	Colville	Chert	Float	Select	Philip Smith	A–5	15S	10E	17	SW	Umiat	
PS17	4763	1993		Itkillik River trib	Colville	Shale	Outcrop	Select	Philip Smith	A–5	15S	10E	17	SW	Umiat	
PS18	4764	1993		Itkillik River trib	Colville	Shale	Float	Select	Philip Smith	A–5	15S	09E	24	NE	Umiat	
PS19	4741	1993		Itkillik River trib	Colville			Stream sed	Philip Smith	A–5	15S	09E	23	NE	Umiat	
PS19	4742	1993		Itkillik River trib	Colville			Stream sed	Philip Smith	A–5	15S	09E	23	NE	Umiat	
PS20	4740	1993		Itkillik River trib	Colville	Sandstone	Rubblecrop	Random chip	Philip Smith	A–5	15S	09E	24	SW	Umiat	
PS21	4739	1993		Itkillik River trib	Colville	Sandstone	Float	Select	Philip Smith	A–5	15S	09E	24	SW	Umiat	
PS22	4738	1993		Itkillik River trib	Colville	Sandstone	Float	Grab	Philip Smith	A–5	15S	09E	25	SE	Umiat	
PS23	4737	1993		Itkillik River trib	Colville	Shale	Float	Select	Philip Smith	A–5	15S	10E	30	SW	Umiat	
PS24	4734	1993		Itkillik River trib	Colville	Shale	Float	Select	Philip Smith	A–5	15S	10E	31	NW	Umiat	
PS24	4735	1993		Itkillik River trib	Colville	Shale	Outcrop	Random chip	Philip Smith	A–5	15S	10E	31	NW	Umiat	
PS24	4736	1993		Itkillik River trib	Colville			Stream sed	Philip Smith	A–5	15S	10E	31	NW	Umiat	
SP1	4224	1991		Killik River trib	Colville	Shale	Float	Grab	Survey Pass	D–4	28N	19E	18	SE	Kateel River	

Map no.	Sample no.	Ag ppm	Al %	As ppm	Au ppb	Ba ppm	Ba %	BaSO4 %	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cr %	Cu ppm	Cu %	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mn %	Mo ppm
PS2	4430	<0.5	0.77	114		125			<5	0.11	<2.0	5	354		85		1.69	<10	0.29	8	38	0.06	46		4
PS3	4429	<0.5	1.34	<5		111			8	0.17	<2.0	6	295		34		5.29	<10	0.24	14	11	0.29	1793		<1
PS4	4388	<0.5	4.33	<5		544			12	3.54	<2.0	16	128		43		6.6	15	1.41	24	25	0.82	149		5
PS5	4387	1.8	1.38	55		226			9	0.04	4.3	15	292		51		2.54	<10	0.39	29	9	0.09	328		37
PS6	4435	0.6	1.22	9		147			<5	0.09	<2.0	5	176		13		0.8	<10	0.38	8	53	0.10	24		8
PS7	4434	<0.5	2.35	<5		218			<5	4.26	<2.0	9	119		24		>10.00	14	1.03	13	20	0.59	225		<1
PS8	4482	<0.5	1.03	<5		742			11	9.91	<2.0	1	18		7		>10.00	27	0.26	<5	21	1.26	3228		5
PS9	4827	<0.5	1.19	43		412			<5	4.67	<2.0	4	27		16		>10.00	22	0.28	<5	18	1.17	4308		2
PS9	4828	<0.5	1.79	21		512			<5	3.23	<2.0	6	29		17		>10.00	22	0.29	<5	19	1.29	8663		2
PS10	4498	<0.5	2.95	<5		>2000			18	>10.00	<2.0	14	62		21		>10.00	25	0.58	15	35	1.05	6416		<1
PS11	4776	<0.5	0.80	<5		286			<5	7.89	<2.0	1	21		14		>10.00	29	0.21	<5	16	1.33	2960		8
PS12	4698	<0.5	2.06	<5		>2000			<5	1.08	<2.0	18	39		29		>10.00	33	0.30	7	32	0.63	5065		5
PS13	4787	<0.5	2.00	<5		1911			8	1.82	<2.0	8	26		<1		>10.00	31	0.34	<5	20	0.90	9844		<1
PS13	4788	<0.5	0.98	<5		1869			15	5.93	<2.0	<1	<2		<1		>10.00	27	0.19	<5	7	1.28	5553		<1
PS14	4431	<0.5	2.23	<5		154			12	0.05	<2.0	13	271		23		4.91	<10	0.15	11	27	0.24	1353		<1
PS14	4432	<0.5	2.15	<5		1006			<5	0.72	<2.0	14	82		22		>10.00	30	0.58	12	23	0.82	9029		<1
PS15	4433	<0.5	1.43	<5		264			<5	0.03	<2.0	10	272		29		3.81	10	0.24	13	15	0.13	876		8
PS16	4492	1.6	1.49	50		119			10	0.30	<2.0	5	385		65		1.95	<10	0.27	11	9	0.13	150		7
PS17	4762	<0.5	2.46	<5		284			31	1.19	18	14	32		70		>10.00	36	0.48	<5	41	2.75	14268		7
PS17	4763	<0.5	2.53	<5		158			10	1.71	<2.0	23	319		28		3.94	<10	0.46	13	44	0.97	1368		2
PS18	4764	<0.5	1.79	<5		103			<5	0.61	<2.0	9	271		29		2.71	<10	0.38	18	25	0.53	812		20
PS19	4741	<0.5	5.50	<5		448			9	0.26	<2.0	13	81		36		3.55	14	1.03	28	34	0.70	516		3
PS19	4742	<0.5	5.79	<5		406			<5	0.24	<2.0	16	95		41		3.63	18	0.95	33	33	0.49	586		2
PS20	4740	<0.5	1.19	60		193			12	0.31	<2.0	8	412		26		2.75	<10	0.29	10	7	0.09	285		2
PS21	4739	<0.5	1.19	15		1660			10	>10.00	<2.0	23	88		38		>10.00	18	0.31	6	7	0.65	2361		2
PS22	4738	<0.5	0.93	13		193			<5	0.11	<2.0	7	401		32		1.3	<10	0.35	18	11	0.11	114		16
PS23	4737	<0.5	0.57	12		65			11	>10.00	<2.0	2	54		9		0.9	13	0.13	<5	9	0.38	1477		<1
PS24	4734	<0.5	0.15	19		43			17	>10.00	<2.0	<1	12		9		0.82	14	0.04	<5	<2	0.56	3200		2
PS24	4735	<0.5	7.88	<5		496			<5	0.22	<2.0	12	101		51		4.78	26	1.00	37	49	1.05	236		3
PS24	4736	<0.5	7.62	39		573			15	0.59	<2.0	21	106		50		4.36	21	1.11	40	51	0.89	849		2
SP1	4224	0.9	1.35	25	5	81			<5	0.05	<2.0	4	345		378	0.03	0.82	<10	0.35	6	10	0.10	202		<1

Map no.	Sample no.	Na %	Nb ppm	Ni ppm	Pb ppm	Pb %	Pd ppb	Pt ppb	P205 %	Sb ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Tl %	U (flouro) ppm	V ppm	W ppm	Y ppm	Zn ppm	Zn %	Zr ppm	Specific gravity
PS2	4430	0.08	<5	22	13					<5	<20	28	<100	<25	0.06	<9.0	35	<20	7	58		20	
PS3	4429	0.06	8	25	21					<5	<20	29	<100	<25	0.14	<9.0	36	<20	6	56		40	
PS4	4388	0.40	15	83	35					<5	<20	79	<100	<25	0.28	<9.0	83	<20	16	100		70	
PS5	4387	0.04	<5	40	67					20	<20	68	<100	<25	0.07	<9.0	170	<20	12	121		23	
PS6	4435	0.05	<5	15	6					<5	<20	37	<100	<25	0.08	<9.0	36	<20	<5	34		26	
PS7	4434	0.44	20	51	48					<5	27	126	<100	<25	0.25	<9.0	62	<20	11	74		72	
PS8	4482	0.37	34	15	32					<5	44	144	<100	<25	0.05		27	<20	10	1964		17	
PS9	4827	0.48	46	14	38					20	<20	157	<100	<25	0.05		34	<20	9	234		27	
PS9	4828	0.52	43	31	32					<5	35	140	<100	<25	0.06		34	<20	8	807		34	
PS10	4498	0.24	23	34	25					<5	<20	315	<100	<25	0.15		100	<20	17	439		38	
PS11	4776	0.43	36	13	28					<5	33	147	<100	<25	0.03		23	<20	10	335		17	
PS12	4698	0.55	44	33	65					<5	34	210	<100	<25	0.15		77	<20	15	101		51	
PS13	4787	0.44	36	8	38					<5	23	116	<100	<25	0.13		58	<20	11	986		37	
PS13	4788	0.41	39	<1	9					<5	41	122	<100	<25	0.03		<2	<20	8	218		21	
PS14	4431	0.08	9	35	58					<5	<20	18	<100	<25	0.17	<9.0	48	<20	7	128		42	
PS14	4432	0.74	49	36	54					<5	32	76	<100	<25	0.19	<9.0	68	<20	11	52		64	
PS15	4433	0.07	9	38	33					<5	<20	21	<100	<25	0.20	<9.0	39	<20	7	133		67	
PS16	4492	0.04	<5	18	270					27	<20	45	<100	<25	0.11		45	<20	6	18		28	
PS17	4762	0.39	31	40	261					<5	28	56	<100	<25	0.12		43	<20	15	2685		35	
PS17	4763	0.23	8	44	30					<5	<20	81	<100	<25	0.19		57	<20	20	153		46	
PS18	4764	0.08	6	32	32					15	22	46	<100	<25	0.14		45	<20	8	163		37	
PS19	4741	0.37	17	45	14					<5	<20	68	<100	<25	0.44		111	<20	17	93		96	
PS19	4742	0.28	20	46	25					14	<20	86	<100	<25	0.52		117	<20	17	99		104	
PS20	4740	0.04	<5	28	35					<5	<20	34	<100	<25	0.06		50	<20	10	25		26	
PS21	4739	0.10	16	55	42					13	<20	187	<100	<25	0.12		50	<20	14	68		18	
PS22	4738	0.05	<5	25	32					<5	<20	30	<100	<25	0.06		49	<20	7	28		18	
PS23	4737	0.04	<5	7	27					<5	<20	796	<100	<25	0.03		33	<20	5	9		6	
PS24	4734	0.03	<5	3	58					<5	<20	665	<100	<25	<0.01		35	<20	<5	<2		<5	
PS24	4735	0.50	24	46	31					<5	<20	74	<100	<25	0.56		139	<20	18	130		115	
PS24	4736	0.54	23	52	33					6	<20	88	<100	<25	0.60		145	<20	20	115		123	
SP1	4224	0.23	<5	15	<2	<0.01	<1	6		6	<20	17	<5	<25	0.09		23	<20	<5	21	<0.01	14	

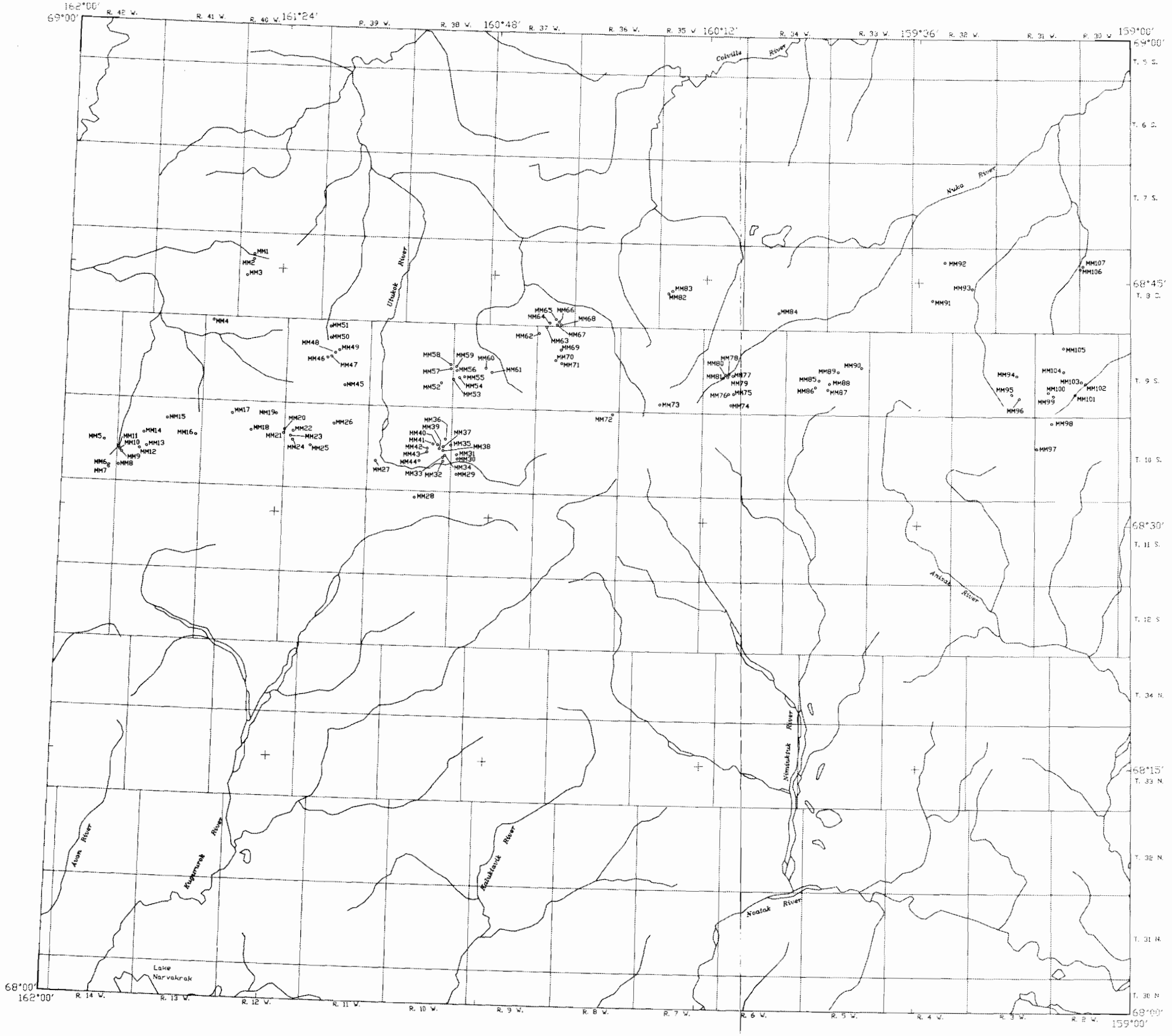

Figure 2. - Sample location map of the CMD Study - Misheguk Mountain (MM).

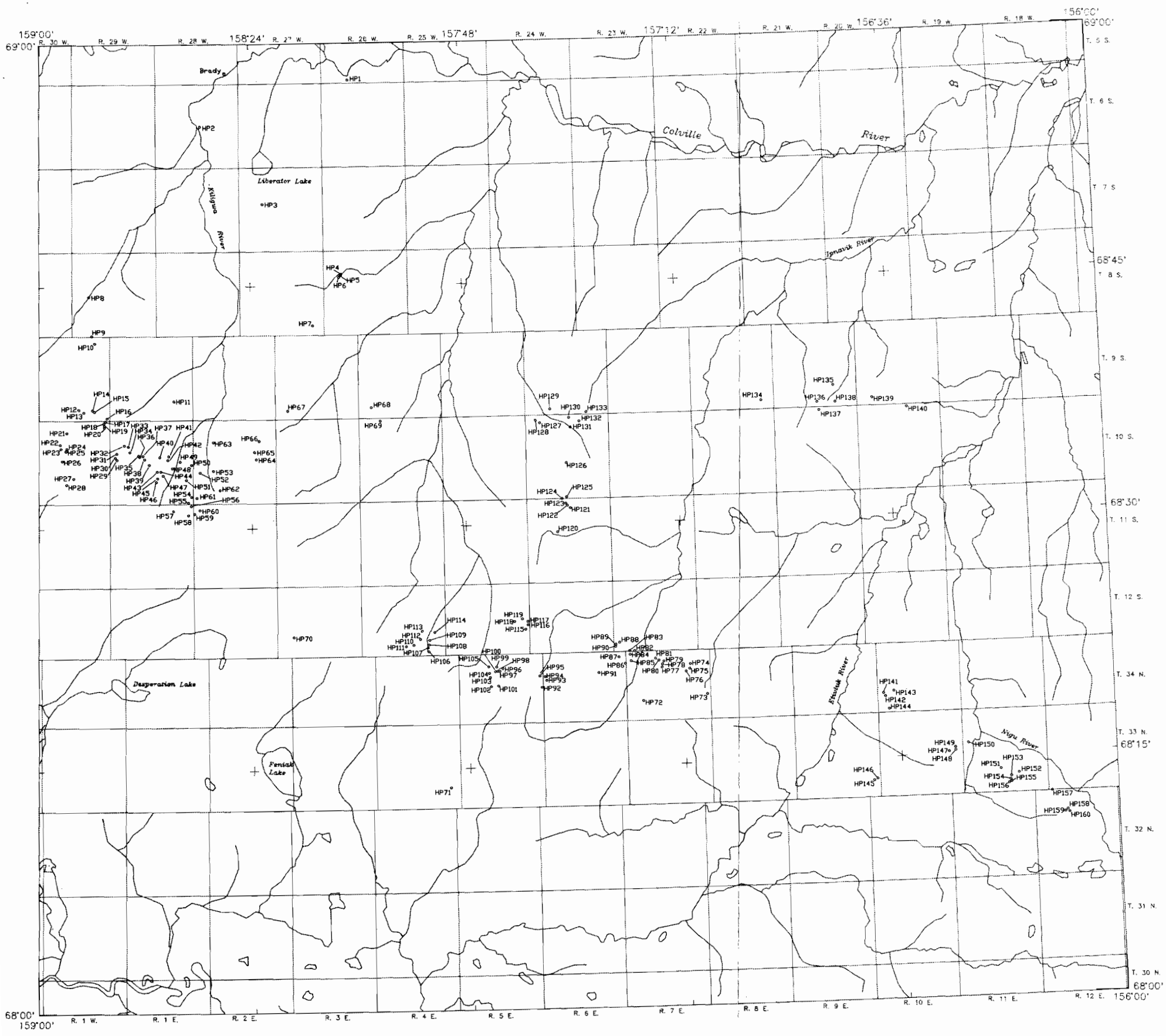

Figure 3. – Sample location map of the CMD Study – Howard Pass (HP).

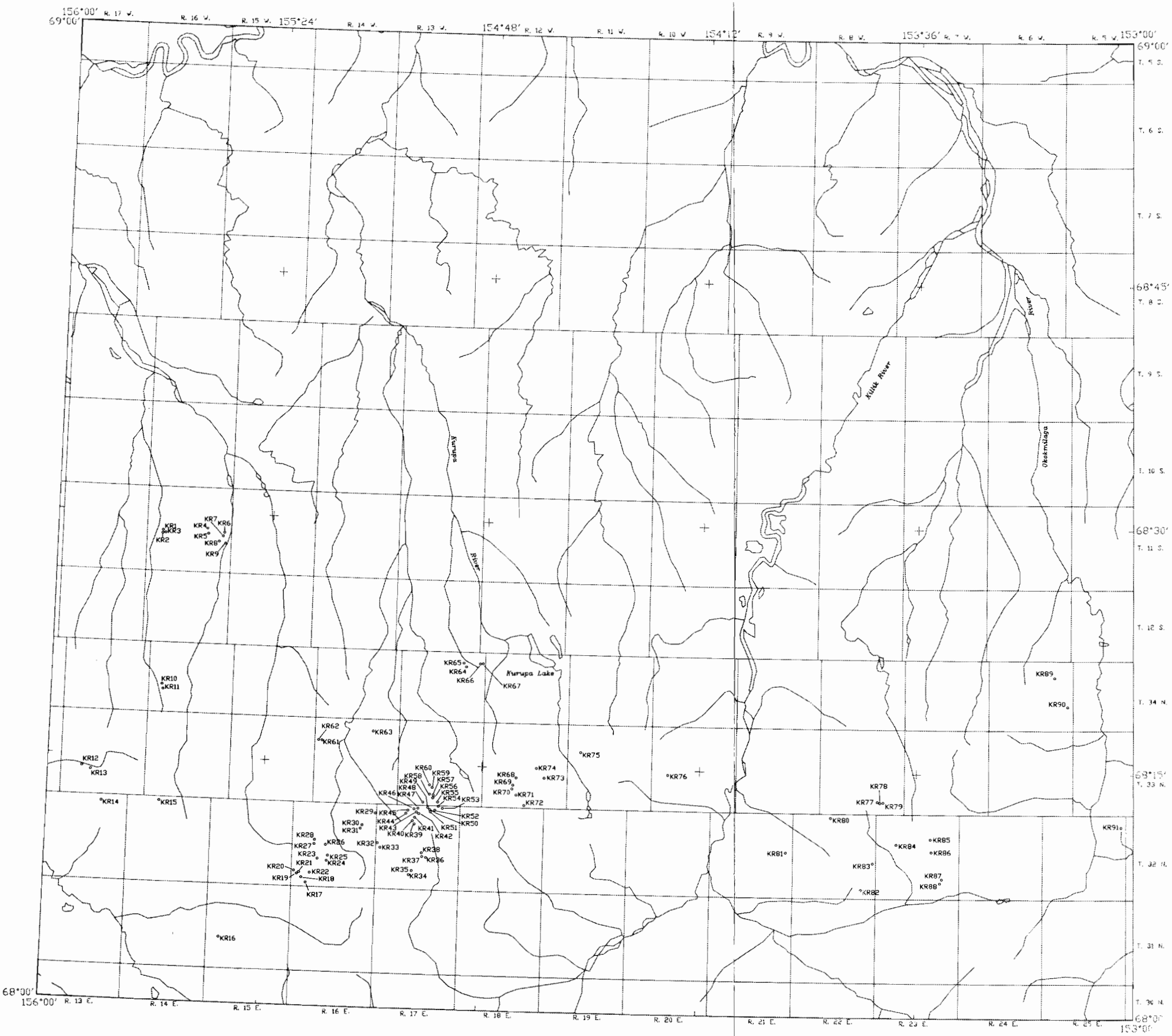

Figure 4. - Sample location map of the CMD Study - Killik River (KR).

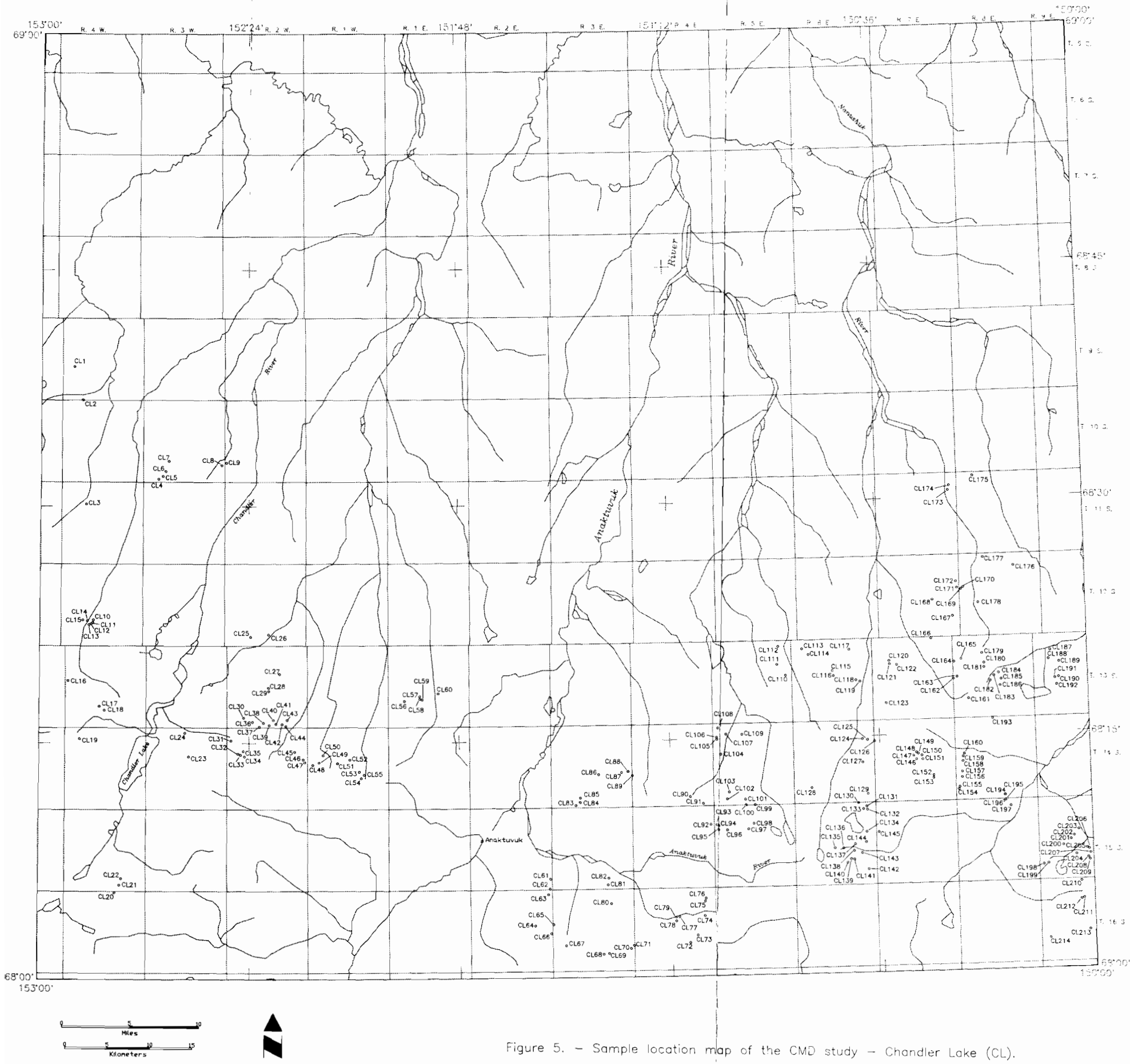

Figure 5. – Sample location map of the CMD study – Chandler Lake (CL).

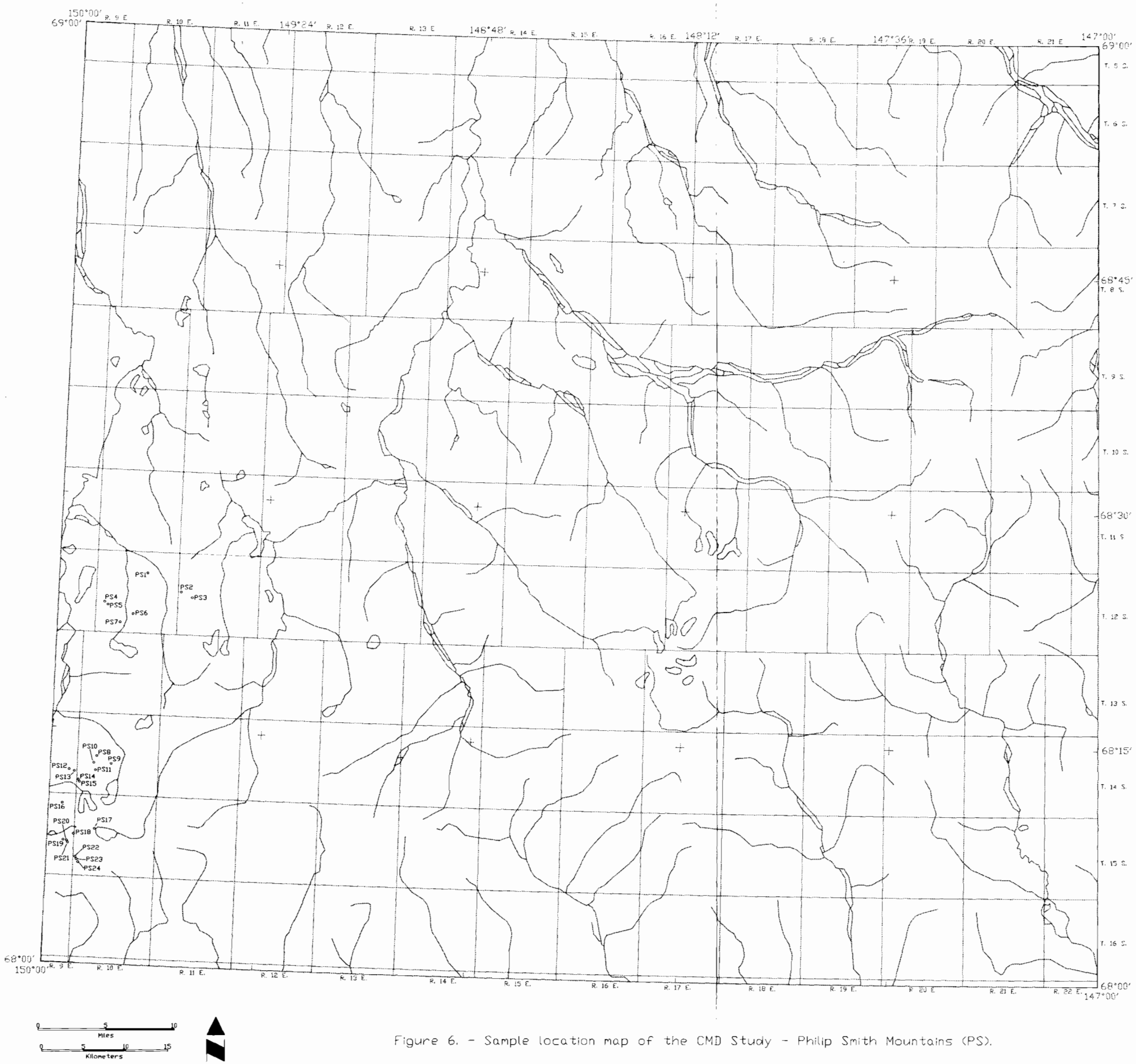

Figure 6. - Sample location map of the CMD Study - Philip Smith Mountains (PS).

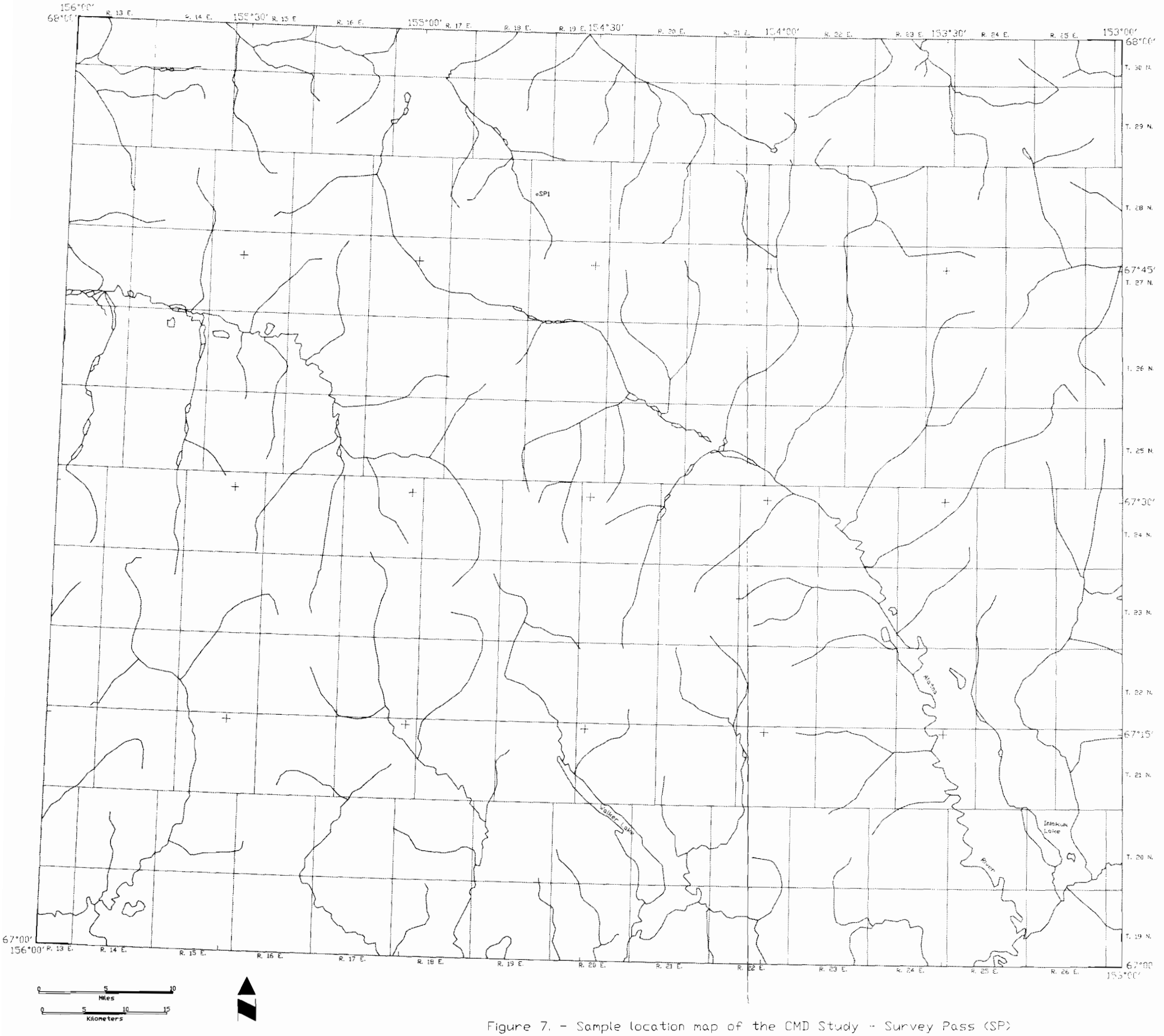

Figure 7. - Sample location map of the CMD Study - Survey Pass (SP)

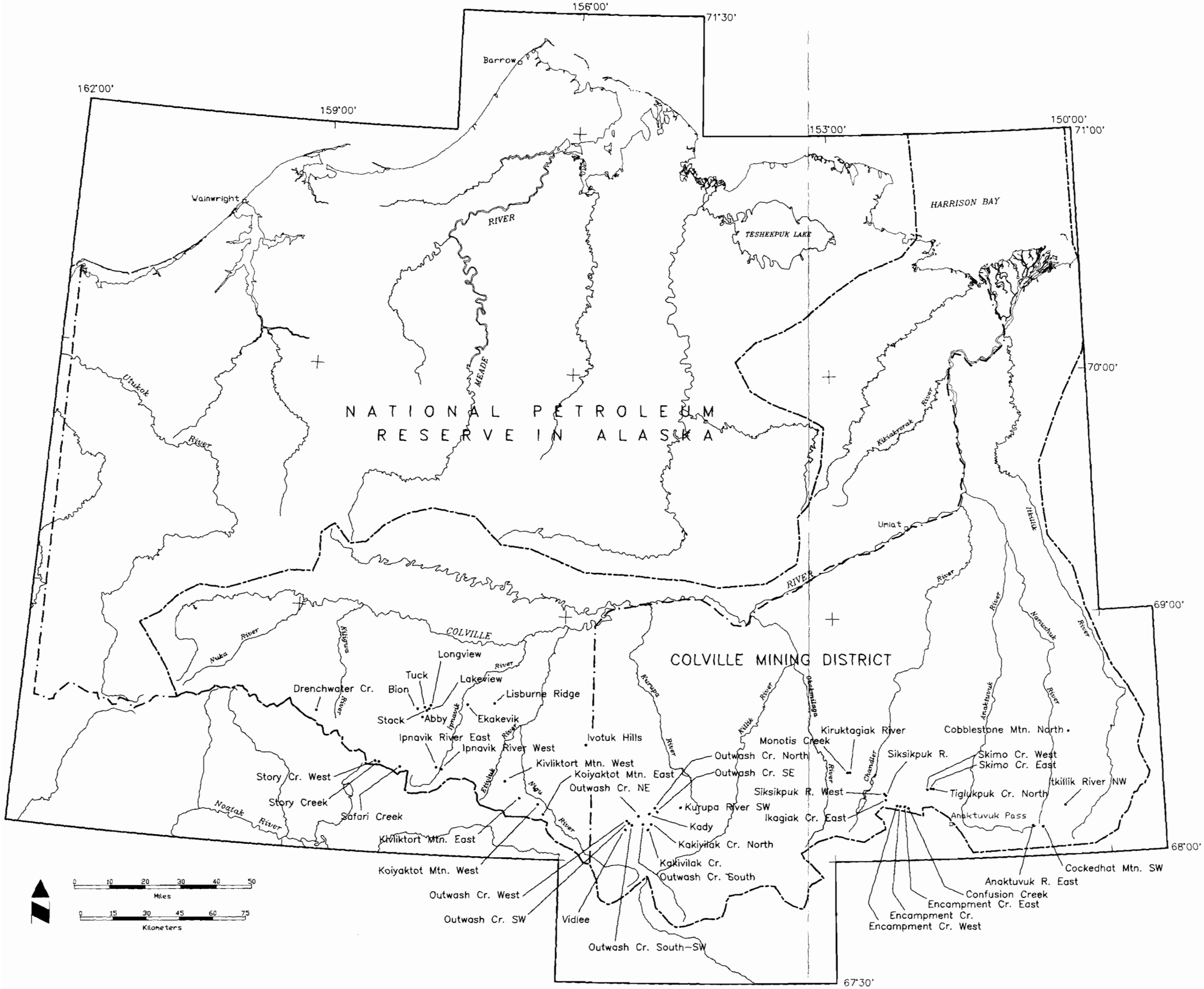

Figure 8. – Mineral occurrences and mineralized area location map.