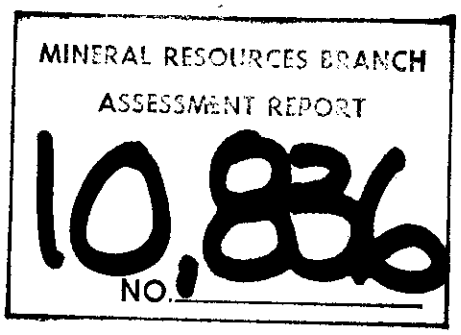
GEOCHEMICAL AND GEOLOGICAL REPORT ON THE TATE CLAIMS

Nos. 1 to 6

Owned by BP Minerals Limited

Omineca Mining Division, B.C.

NTS 93F/7
(125°37' Longitude, 55°16' Latitude)



Paul Matysek, Geochemist

Michael Smith, BP Geologist

December, 1982

BPVR 82-28

Summary

Fifty-nine silts and eighty-nine soil samples taken above the stream banks at most drainage sampling locations were collected from two major watersheds on the TATE claims. These were submitted for analysis using the ICP multielement procedure of Acme Analytical to investigate the precious metal potential of the claim group. Gold was also determined using standard procedures after an aqua regia digestion.

Three anomalous zones are identified in soils on TATE. All three zones are spatially related to a faulted contact between Hazelton sediments and volcanics. The anomalies are reflected primarily in most cases by their high copper (> 60 ppm), lead (> 12 ppm), zinc (> 115 ppm), and silver (> 0.8 ppm) contents. The westernmost zone is also characterized by enriched concentrations of gold, iron, and arsenic while the other two zones found toward the eastern margins of the claim group have appreciable barium contents.

The next phase of exploration on TATE requires detailed mapping, prospecting and positioning of soil grids over the anomalous zones and in areas associated with the faulted contact between Hazelton sediments and volcanics. Two zones of alteration noted in Tatelkuz Creek require follow-up, as do areas of identifiable fault zones. Although no garnet alteration or appreciable sulphides were found in the 1982 work, it should be emphasized that the present program was reconnaissance in nature.

Recommendations

1. Positioning of soil grid at 100 metre intervals over the three anomalous zones.

2. Fill-in soil sampling at 200 metre intervals over the southern flanks of Tatelkuz Mountain.

3. A semi-detailed geological mapping over all geochemical anomalies (refer to geochemical report). The traverse interval should be 200 metres in an east-west direction, and should in all cases cover the interpreted fault contact zones between the volcanics and sediment.

4. The lake sediments along the northwest shore of Tatelkuz Lake should be sampled at 300 metre intervals to further define anomaly source areas.

5. The 1983 program should be detailed enough to allow decision making regarding trenching or diamond drilling.

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Introduction

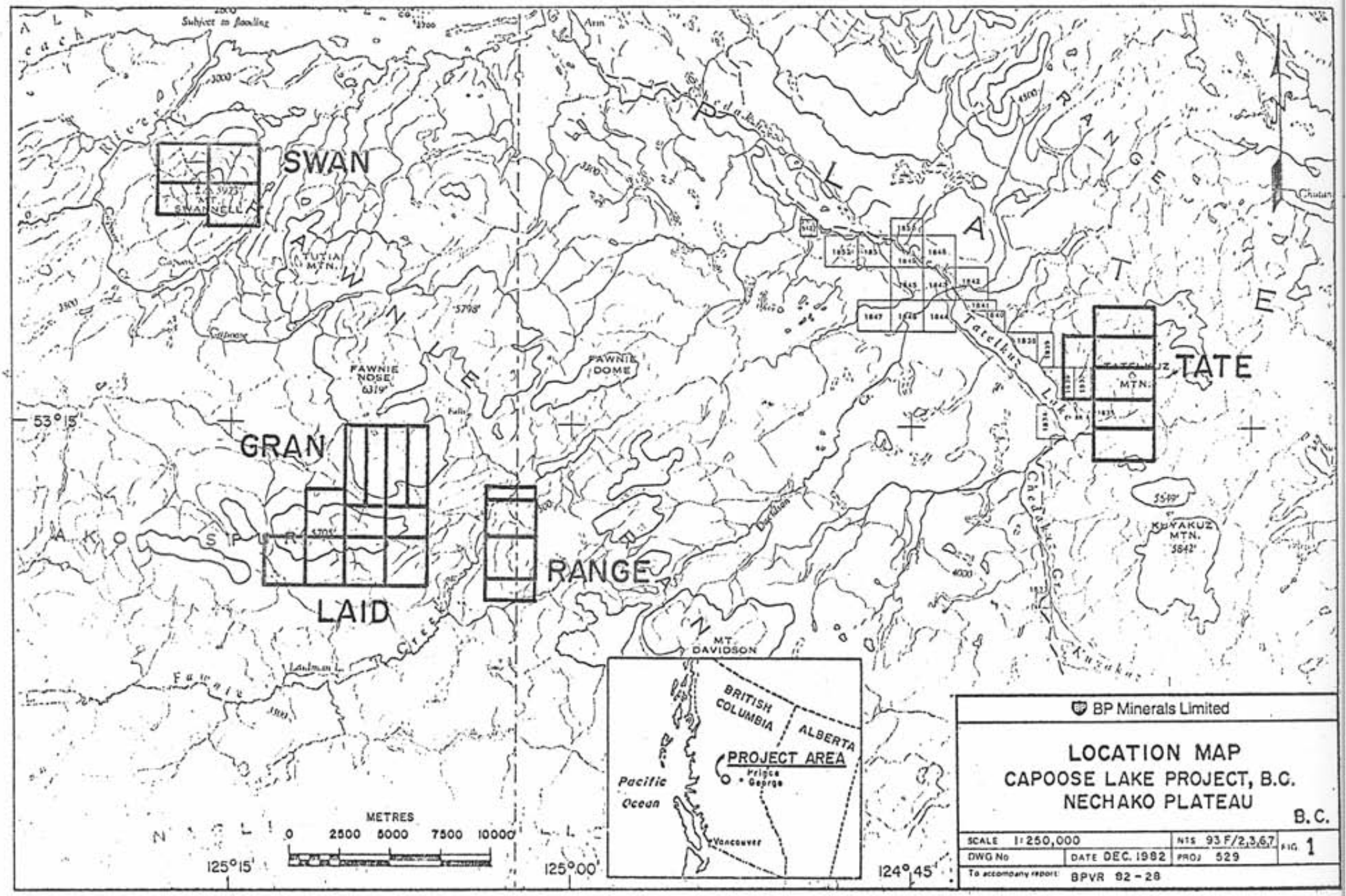
The TATE claims (after Tatelkuz Lake) were staked on an identifiable geological target which, on the basis of the geological map by Tipper (1963) is the most similar - appearing geological environment to that of Granges bulk silver deposit on NTS 93F. Moreover, two sediments within Lake Tatelkuz are anomalous in their lead content.

A program incorporating soil and drainage geochemistry, geological mapping and prospecting was undertaken to evaluate the precious metal potential, on the TATE claims in 1982. This report describes and assesses the results obtained as a result of geochemical investigation.

Location and Access

The TATE Claims are located in central B.C. in Omineca Mining Division (NTS 93F/7) at 125°37' longitude and 55°16' latitude.

Access to the property is via the Kluskus Forestry road which runs southwest from Vanderhoof. At kilometer 118 on this road, a ranch access road is taken south about four kilometers, to the north shore of Tatelkuz Lake. The claims are located at the southeast end of the lake, and can be accessed by boat, or by packhorse trail around the east side of the lake.



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LOCATION MAP
CAPOOSE LAKE PROJECT, B.C.
NECHAKO PLATEAU

B.C.

SCALE 1:250,000		NTS 93 F/2,3,6,7	FIG. 1
DWG No	DATE DEC. 1982	PROJ 529	
To accompany report: BPVR 92-28			

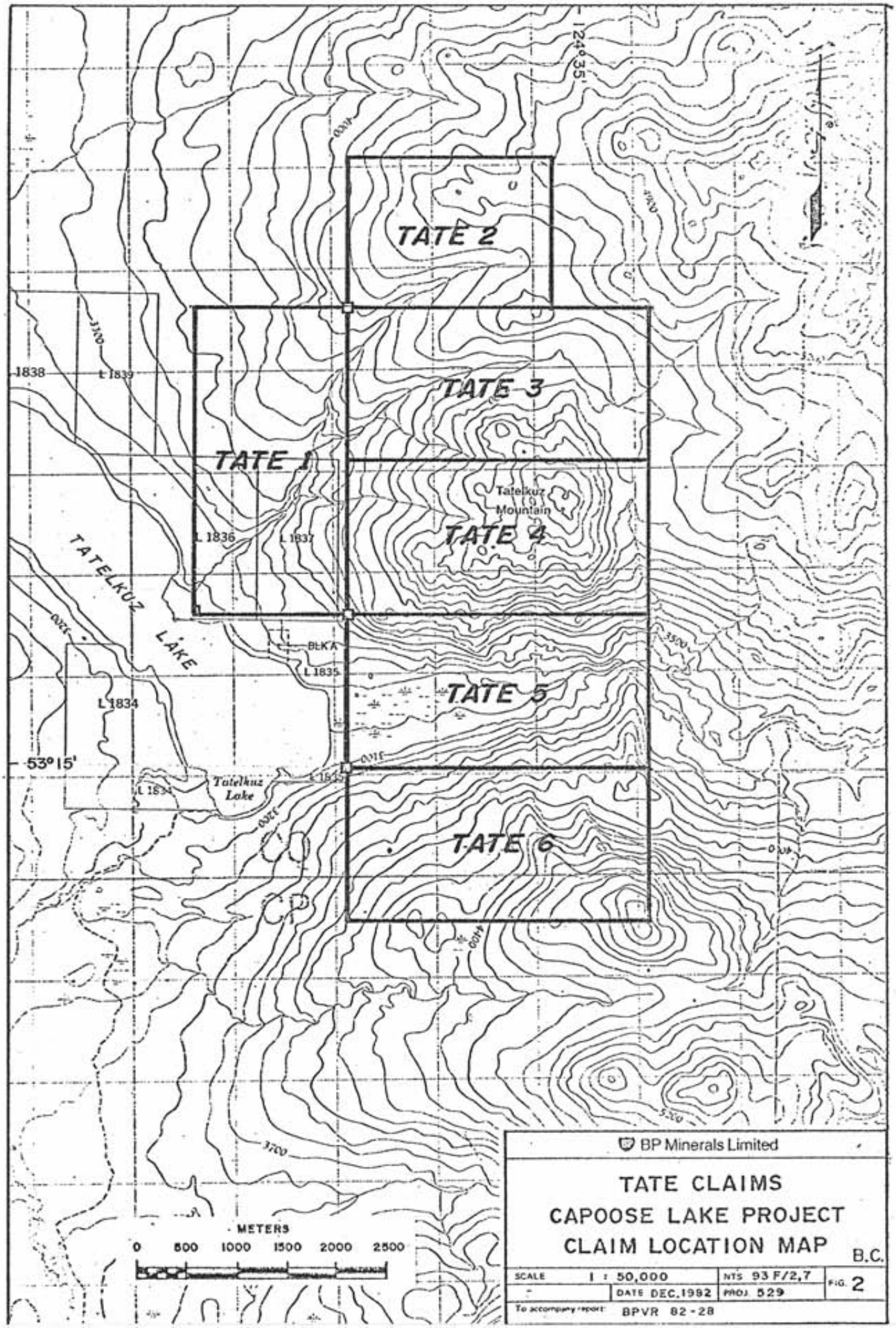
Claim Status and Ownership

The TATE Claims are owned wholly by BP Minerals Limited. The TATE claims consist of 102 contiguous units in six claim blocks. The Claim Groups are:

Claim Name	Units	Record #	Record Date	Expiry Date
TATE 1	18	3979	Aug. 4, 1981	Aug. 4, 1983
TATE 2	12	3980	Aug. 4, 1981	Aug. 4, 1983
TATE 3	18	3981	Aug. 4, 1981	Aug. 4, 1983
TATE 4	18	3982	Aug. 4, 1981	Aug. 4, 1983
TATE 5	18	3983	Aug. 4, 1981	Aug. 4, 1983
TATE 6	18	3984	Aug. 4, 1981	Aug. 4, 1983

Summary of Work - 1982

A program of reconnaissance geochemical sampling and geological prospecting was performed on the TATE 1-5 Claims during the last week in July, 1982. During this period, a four man team, one geologist and three assistants, conducted drainage basin geochemical sampling and selected geological mapping traverses. Work was concentrated towards the southwest quadrant of Tatekluz Mountain, and stream drainages into the southwest corner of the lake. A total of 148 stream and soil samples were taken (see geochemical section of this report) at varying sample intervals. Due to the scarcity of outcrop below 3500 feet in elevation due to extensive glacial deposits, east-west prospecting traverses were conducted above this elevation. Purpose of


124° 35'
TATE 2
TATE 3
TATE 1
TATE 4
TATE 5
TATE 6
Tatelkuz Mountain
TATELKUZ LAKE
L 1838
L 1839
L 1836
L 1837
L 1835
L 1834
BLK A
53° 15'
Tatelkuz Lake
METERS
0 500 1000 1500 2000 2500
BP Minerals Limited
TATE CLAIMS
CAPOOSE LAKE PROJECT
CLAIM LOCATION MAP
B.C.
SCALE 1 : 50,000
NTS 93 F/2,7
DATE DEC. 1982
PROJ 529
FIG. 2
To accompany report: BPVR 82-28

the surveys was to locate the source of anomalous lake sediments located to the immediate north and south of the outlet of the major creek flowing into Tatelkuz Lake at UTM co-ordinates 5903000N, 390000E.

Samples were analyzed by Acme Analytical (ICP multi-element analysis) and Van-Geochem (gold by AA) Analytical and statistical methods employed are described in the geochemical section of this report. The sample locations and analytical data were digitized and computer plotted geochemical maps were provided for each analyzed element.

Geological mapping was conducted using a semi-controlled photomosaic at 1:5,000 scale and topographic base maps expanded to the same scale. Field traverses were conducted in order to examine the volcanic-sediment contacts on the south and west sides of Tatelkuz Mountain. Geological reconnaissance was conducted on the TATE 1, 4 and 5 claims. Geological data was compiled for a reduced presentation scale of 1:20,000, as were the geochemical maps.

Sample Collection, Preparation and Analysis

Stream sediment samples were taken on average at 200m intervals on the two major watersheds draining the TATE claims. Soils were also collected, and were obtained from above both stream banks at most silt sampling locations.

In all cases, approximately 500 grams of material was saved in a wet strength paper envelope, prenumbered by sampler according to a regular sequence. An orange ribbon was left on site to aid followup which might be undertaken Sample number and grid location were affixed on aluminum tags to permit long term recovery of sample locations.

Samples were partially dried and shipped by Pacific Western or Greyhound to Vancouver. Acme Analytical then air dried the soil and sediment samples and sieved disaggregated material to minus 80-mesh. Sample splits of 0.5 grams were digested in aqua regia and analyzed by an inductively coupled plasma (ICP) unit for 26 metals (Appendix 1), gold was also determined by methods given in Appendix 1. A listing of analytical results is found in Appendix 2. Some field technical information was recorded according to a standard BP Minerals format and is included with the analytical data of Appendix 2.

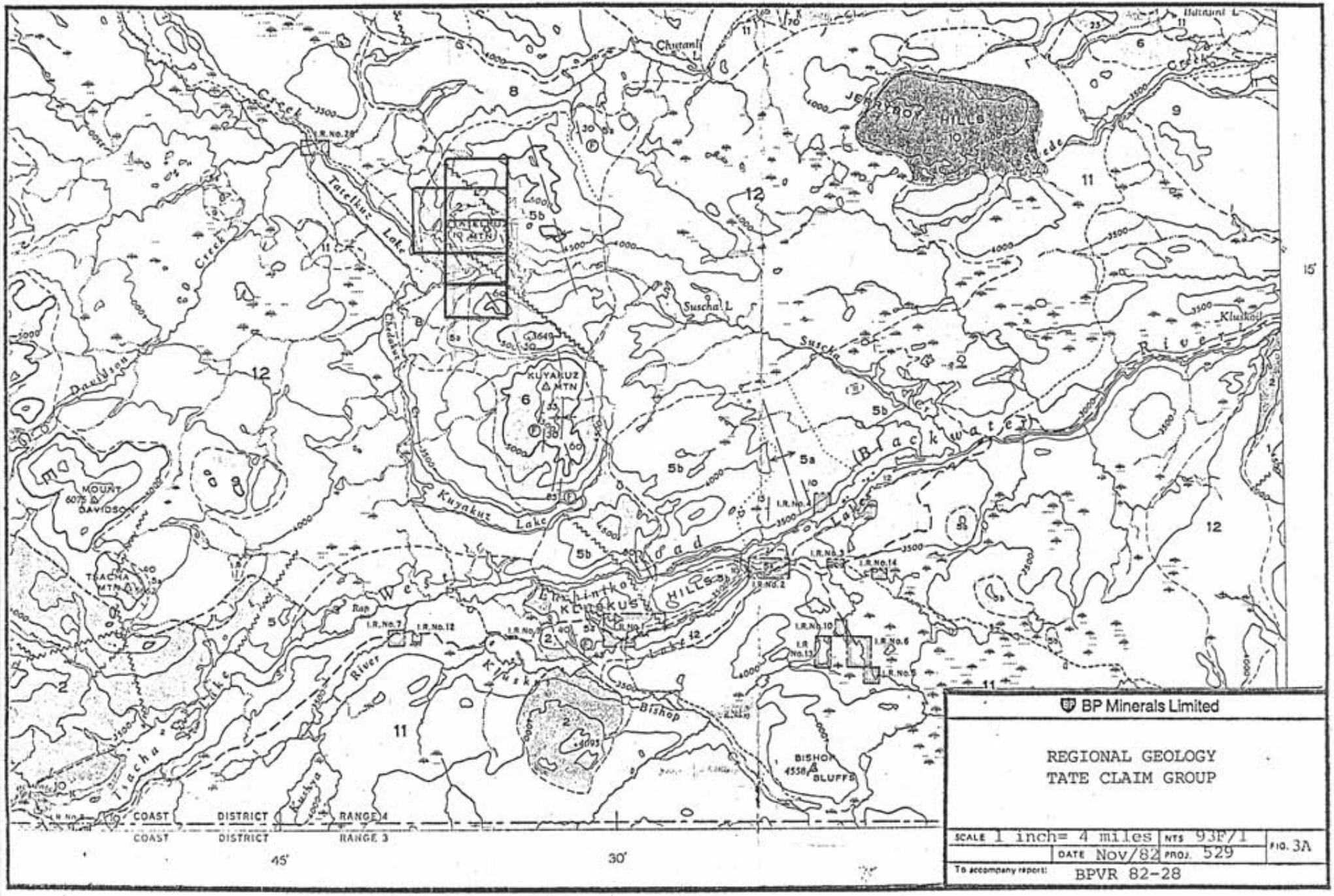
Regional Geology

Regional and local geology is shown in Figures 3A and 3B (appended). Due to relative inaccessibility of the area until 1978, little regional mapping has been done in this area. The most recent work covering the TATE claims is Geological Survey of Canada Memoir 324 (Tipper, 1963).

Geology of the Claim Group

The main part of the TATE claims (TATE 3, 4, 5) are underlain by the older rocks in the area, Lower Jurassic andesitic volcanic rocks and minor interbedded argillite (Unit 2 in Fig. 3B appended) which are assigned to the lower part of the Hazelton Group in recent compilation maps (GSC Maps 1424A, 1505A). These rocks had previously been assigned to the Takla Group by Tipper (1963) and are shown as Takla Group in Fig. 3A. Conformably overlying these rocks, regionally, but in fault contact with the volcanics, on the south flank of Tatelkuz Mountain, is a sequence of Middle Jurassic interbedded siltstones, greywacke, pyroclastic rocks and rhyolite dacitic breccias and flows, also assigned to the Hazelton Group (Unit 3 on Fig. 3B). The Capoose bulk silver deposit is hosted by rhyolite and argillite of this sequence.

Intruding the Hazelton Rocks are Cretaceous and Tertiary stocks and Batholiths of granite to diorite composition (Unit 4 on Fig. 3B). Porphyry, copper and moly-



BP Minerals Limited

REGIONAL GEOLOGY
TATE CLAIM GROUP

SCALE 1 inch= 4 miles	NTS 93F/1		FIG. 3A
	DATE Nov/82	PROJ. 529	
To accompany report:	BPVR 82-28		

bdenum mineralization is locally associated with these rocks about 10 miles north of the Claim area. Upper Cretaceous or Tertiary rhyolite, dacite, and trachyte flows and tuffs belonging to the Ootsa Lake Group unconformably overlie the above units, but these rocks do not outcrop on the TATE Claims.

Hazelton Group Sediments - Map Unit 1 (Fig. 3B) - This unit outcrops in the northeastern quadrants of TATE 2, 3. These sediments were not encountered in outcrop during the 1982 mapping but were noted in float blocks in the creek valley along the eastern claim boundary of TATE 5. This unit is characterized by chert-pebble conglomerate with well over 50% volcanics, both flows and pyroclastics. Shale and greywacke are commonly interbedded with conglomerate.

Porphyritic Andesite - Map Unit 2 - Outcrop over most TATE 3, 4, and the east half of TATE south. This unit was originally mapped by Tipper as Takla volcanics, but has since been re-assigned to the lower part of the Hazelton Group. In the TATE claim area, this unit consists of andesitic flows and pyroclastics with interbedded argillites. The flows are mainly black to dark olive green on fresh surface, porphyritic andesites with phenocrysts of grey plagioclase and black augite. The groundmass is fine grained, an aggregate of andesine or labradorite, augite, chlorite, and magnetite. This unit is weakly to moderately magnetic in the claim area. Associated with the lavas, but in lesser

amount, are andesitic breccias and tuffs, commonly well bedded, usually moderately well sorted, exhibiting graded bedding. An example of these breccias and tuffs is located along stream 1 (all streams labelled on Fig. 3B) on the eastern claim boundary of TATE 1. Fragments of jasper, epidote, and plagioclase feldspar were observed in the breccia. The tuffs are finely bedded, and usually graded.

The interbedded argillites are a district sedimentary unit interlayered with flow rocks, as observed in the stream bed where stream 3 flows across the eastern claim boundary of TATE 1. The argillites are fine grained, dark grey to black on fresh surface, brittle, silica rich and well bedded. Differential weathering gives some of the softer beds a ribbed look. Graded bedding is common, but top determinations are difficult due to the minor variations in grain size.

Siltstone, Sandstone, Minor Rhyolite Breccia - Map Unit 3 -

This unit is mapped by Tipper as Middle Jurassic Hazelton Group. It is primarily a sediment with minor interlayed rhyolitic to dacitic breccias. On TATE 1, 5, the unit is primarily a fine grained, rusty to grey weathering, medium bedded siltstone and silty sandstone. There are numerous outcrops of this unit on the south flank of Tatelkuz Mountain from 3500 to 4000 feet elevation. The unit is truncated to the northeast by a fault, and the fault zone

is characterized by a rhyolitic to dacitic breccia. To the southeast, this breccia forms the synclinal crest of Kuyakus Mountain.

Quartz Diorite - Map Unit 4 - Post Middle Jurassic Intrusives

This unit outcrops as a stock at the southeast end of Tatelkuz Lake, the southwest quadrant of Tate 5. Observed in only one outcrop, it is a coarse-grained equigranular, white coloured unit. Tipper has mapped this intrusive as a granite. This unit is younger than the Hazelton sediments, as it cuts them to the north of the claim group, and on Tate 6.

Pleistocene Till, Gravel - Map Unit 5

This unit occurs as a till sheet of varying thickness over the west half of TATE 1. It is well over 100 feet thick about a kilometer up the major creek running southwest through TATE 1. Tipper has mapped the east-west valley on the south side of Tatelkuz Mountain as a major meltwater channel with flow to the east. This is borne out by a series of gravel terraces parallel to the hillside up to an elevation of 3300 feet.

Structure

The main structural features noted on the Claim Group was the northwest trending fault contact which separates

the sediments and volcanics on TATE 1, 4, and 5. Evidence for this fault noted in outcrop were rhyolitic and dacitic breccia on the south flank of Tatelkuz Mountain. No small scale folding was noted in the sediments, with dips ranging from 80° SW to vertical. The interbedded argillites found near the junction of stream 2 and 3 dip 85° NE. Tipper has interpreted a major synclinal axis trending north through the west of Kuyakus Mountain to the crest of the hill immediately east of Tatelkuz Mountain.

Alteration

As described in the section of local geology, the major alteration minerals were the epidote and chlorite alteration in the porphyritic andesites. Epidote occurs as thin discontinuous stringers or blebs, and the chlorite as minor disseminations. Minor contact metamorphic effects were noted near the intrusive-sediment contact on TATE 5, mainly quartz-carbonate veins containing minor chalcopyrite and pyrite.

Method of Data Evaluation

Appendix 2 lists the field technical data and analytical results in three parts, appropriately numbered in the upper right hand corner of each page. Appendix 3 summarizes statistics for data sets grouped according to sample type (see coding format for columns 1 and 2 in Appendix 3). Selection of arithmetic or logarithmic statistics is determined by a coefficient of variation less than 0.7 (arithemtic) or greater than 0.7 (logarithmic) of data sets.

The minimum and maximum values of the truncated survey data and the range of concentrations they represent are indicated, as are the mean, median (value midway in the frequency distribution) and mode (most commonly occurring value). The standard deviation and statistical anomaly threshold (mean plus 2 standard deviation intervals) are quoted. Large values of the standard deviation compared to the mean suggests bimodal distributions and anomaly thresholds are best estimated with reference to histograms contained in Appendix 4.

Deviations from normality can be calculated using skewness and kurtosis measurements. A large positive skewness indicates many samples have low values near the mean, and high values extend far above the mean. A negative skewness represents population with an extended lower

tail of values. Kurtosis values for a normal distribution equals 3. Negative kurtosis values (after subtracting 3 from the kurtosis values) result from distribution curves having a flatter top than usual whereas positive values represent peaked distributions.

Description of Results

Fifty-nine silt samples were collected from two major watersheds, covering 30 square km, draining in the Tatelkuz Mountain area. Both drainage basins are characterized by (1) moderately steep, predominantly east to west flow directions and; (2) empty into the southern reaches of Tatelkuz Lake. Samples were collected at 200m intervals along the headwaters of the two major creeks (Tatelkuz and Black Fly) and along intersecting tributaries, otherwise 1000m spacings were used.

Eighty-nine soil samples were also collected from above both stream banks at most silt sampling locations. Technical notes reconstructing the sample environment, or soil/sediment characteristics were not recorded. Sample locations are given on Figure 4A, 5A. Appendix 2 notes the different sample types in column 1 and 2 of the listing. Tributaries draining into the major streams associated with the two main watersheds are assigned names for ease in presentation of results. The larger watershed draining the north and western flanks of Tatelkuz mountain consists of a major stream (Tatelkuz) and four tributaries labelled 1 to 4, in order of proximity to the southern edge (Fig. 3B) of the claim block. The other major watershed in the claim group, drains the southern and eastern flank of Tatelkuz mountain and consists of one major drainage (Black Fly) and one tributary labelled A (Fig. 3B).

Copper (Figure 4B, 5B)

Copper exhibits good regional enhancement for both soils and silts. Three areas of increased levels of copper concentrations in silts were observed. The most impressive region (Tributary A), drains the western half of the Tatelkuz mountain and has copper contents in excess of 41 ppm over 1.5 km, with a maximum of 104 ppm. Interestingly, Tipper (1963) has inferred a probable fault contact between Hazelton sediments and porphyritic andesites that straddles the entire length of Tributary . Less well defined enriched copper zones are found along both Tributary 1 and Tributary 2, both exhibiting typical downstream dispersion decay characteristics.

Copper contents in soils exhibit similar distribution as those in silts. A more pronounced trail of enhanced copper concentrations is evident in the northeast and associated with the headwaters of Tatelkuz Creek. A regionally outstanding value of 329 ppm copper was obtained in this zone and lies in proximity to the fault contact between Hazelton sediments and porphyritic andesites.

A relatively lower but definitely anomalous sample of 110 ppm copper was obtained, in a bank soil downstream from the junction of Tributary 1 and Tatelkuz Creek. Again as for the other highly anomalous samples, sample site was in close proximity to a fault contact between sediments and volcanics.

Lead (Figure 4C, 5C)

Lead values in silts range from 3 ppm to 21 ppm. Spatially continuous enhanced concentrations of lead are located in the west and are obtained from Tatelkuz Creek. In contrast, soils exhibit two zones of increased levels of lead. Enhancements of lead were obtained in the northeast portion of the claim group and in the southwest, with the latter forming a regionally high value of 30 ppm, just below the junction of Tributary 1 and Tatelkuz Creek. The northeast zone was not reflected in the silts. Distribution of lead in both silts and soils follows zinc closely.

Zinc (Figure 4D, 5D)

Background values for zinc range from 30 to 70 ppm in silts and 30 to 90 ppm in soils. For silts, highest zinc values to 95 ppm are located at the headwaters of Tributary A, decaying in classic manner to background levels 750m downstream. Enhancement of zinc concentrations also occurs along the lower reaches of Tatelkuz Creek. Distribution pattern of zinc in silts follows that of copper in silts.

Elevated levels of zinc outlined by the silts become more pronounced in the soils. For example, soils associated with banks of the upper reaches of Tatelkuz Creek contain regionally anomalous concentrations, with values of 242 and 166 ppm. This zone of high values of zinc also correlates with increased levels of lead and copper.

Nickel (Figure 4E, 5E)

Nickel concentrations in silts average about 13 ppm in silts and approximately 15 ppm in soils. Tributa y 1 and streams draining the northwest portion at TATE claims are associated with enhanced levels of nickel. A maximum content of 57 ppm located within Tributary A, is regionally outstanding, and is correlated with enhanced copper and zinc concentrations. The distribution of nickel is suggestive of an underlying lithological control.

Soil distribution of enhanced levels of nickel coincide with those found in stream sediment, but anomaly contrast is more pronounced. This relationship is similar to that for zinc. The maximum nickel value of 54 ppm near the terminal end of Tributary A is coincident with the silt high.

Silver (Figure 4F, 5F)

Silver contents in silts range from 0.1 to 0.9 ppm with the majority of samples having concentrations of less than 0.4 ppm. Enhanced levels of silver in silts are confined to the eastern portion of the survey area. Maximum values of 0.9 ppm are obtained from two sites along Tributary A. This zone of increased concentrations of silver correlates with enhanced levels of copper, lead, zinc, and nickel. However, only background silver levels are obtained from associated soil samples.

An erratic, but spatially continuous zone of above background >0.4 silver values were obtained from bank soils near the headwaters of Tatelkuz Creek. A regionally high value of 1.5 ppm was obtained at the west end of this zone.

Arsenic (Figure 4G, 5G)

Arsenic values range from 3 to 45 ppm in silts. Highest values occur in the southwest and are associated with high levels of lead, zinc, and iron. Well defined dispersion trains are also associated with the headwaters of Tatelkuz Creek and Tributary A, and correlate well with increased levels of silver, lead, and copper.

The distribution of arsenic in soil is similar to that of silt. A regionally outstanding value of 427 ppm found in the anomalous zone to the southwest coincides with the highest arsenic value in silts.

Molybdenum (Figure 4H, 5H)

Most molybdenum values in silts are at the reported detection limit of 1 ppm. Two isolated samples containing 3 ppm molybdenum are the highest values found in silts and are not considered to be significant.

In comparison, molybdenum contents in soils, exhibit significantly larger variability. Soil associated with Tributary A exhibits enhanced values of up to 7 ppm in places.

Gold (Figure 4H, 5H)

The majority of both silt and soil samples reported gold concentrations at the detection limit of 5 ppb. Gold exhibits a spotty distribution with no areal continuity of enhanced concentrations. Maximum value reported in silts is 25 ppb from the lower levels of Tatlekuz Creek.

Gold in soils also exhibits a sporadic distribution, with enhanced concentrations having little relationship to observed silt highs. High value of 15 ppb was obtained from the terminal end of Tributary 1.

Iron (Figure 4H, 5H)

Distribution of iron in both silts and soils are similar, as are their respective average concentrations of 2.5%. Regional trends of enhanced iron levels correspond sympathetically to increased concentrations of copper, lead, zinc, and nickel.

Iron has accumulated up to 4.0% in concentration in a zone extending 400m above and below the junction between Tatelkuz and Tributary 1. Regionally high concentrations of up to 9% iron in soils coincide with this enriched silt zone. Weathering outcrops of gossan is suggested as a source of increased levels of iron. Scavenging of metals by hydrous iron oxides is not considered a significant factor in this survey.

Manganese (Figure 4H, 5H)

Manganese distributions of both silts and soils are similar and complimentary to that of iron. Soil samples obtained from banks near the headwaters of Tatelkuz Creek to 1000m downstream reflect enhanced concentrations of manganese up to a regional maximum of 4445 ppm. This zone is also characterized by increased levels of silver, copper and nickel.

Chromium (Figure 4H, 5H)

Spatial distributions of chromium in silts and soils exhibit contrasting trends, probably reflecting sample type differences. These distributions are also characterized by a lack of variability, enriched samples are on average only a few ppm higher than background levels (23 ppm). A well defined dispersion train of enriched chromium (>26 ppm) in soil is observed to the northeast.

Aluminum (Figure 4H, 5H)

Mean concentrations for silts and soils average about 1.5%. Both distributions exhibit good similarity with each other and chromium in soils. It appears that relatively higher concentrations of aluminum are associated with the headwaters of Tatelkuz and the tributaries, possibly reflecting textural differences.

Enhanced concentrations of aluminum in soils of up to 5.63% located along Tributary A are also associated with increased levels of silver, lead, and zinc.

Potassium (Figure 4H, 5H)

Potassium content in silts exhibits very little variability, values range from 0.01% to 0.10%. Soils display a greater range of concentrations having a maximum of 0.34%. Enhanced concentrations of potassium on average occur downstream of enriched zones aluminum and chromium.

Calcium (Figure 4H, 5H)

Distribution of calcium in silts and soils are similar. Contrast between areas of high and low values is better expressed in soils. Samples from tributaries and headwaters of major creeks contain significantly higher concentrations of calcium than those obtained from the main creeks, a relationship previously described for aluminum.

Silts from Tributary A define a zone of calcium enrichment correlating with nickel, copper, and zinc highs. In contrast, soils define a second enrichment zone of calcium, found to the northeast.

Magnesium (Figure 4H, 5H)

Relationships described for calcium are repeated for magnesium.

Barium (Figure 4H, 5H)

Barium exhibits similar regional trends as calcium, magnesium, aluminum, and chromium. An outstanding regional high of 1035 ppm was obtained from a soil sample located 1200m downstream from the headwaters of Tatelkuz Creek. This particular sample is also characterized by anomalous concentrations of copper, lead, and iron.

Discussion of Results

Three anomalous zones are identified in soils on TATE. These are obtained from soils associated with (1) Tributary 1 and downstream from its junction with Tatelkuz Creek; (2) headwaters of Tatelkuz, (3) along the length of Tributary A and are labelled "contact zone 1", "contact zone 2", and "contact zone 3", respectively. These were labelled "contact" by virtue of an apparent association with faulted contact between Hazelton sediments and porphyritic andesites. All three anomalies are reflected primarily by their copper, lead, zinc, and silver contents which for most cases exceeds anomaly thresholds of 60 ppm, 12 ppm, 115 ppm and 0.8 ppm, respectively. All these zones are also associated with anomalous drainage geochemistry. The two easternmost zones are richer in silver and barium, while "contact zone 1" contains high gold, iron and arsenic values.

The objective of exploration on TATE was to discover a mineral occurrence similar to the Granges Capoose prospect on Fawnie Nose. Geochemical study of what was to become the three main Granges prospects was conducted in 1971 (Hoffman, 1976) and the following associations could be defined.

1. No. 3 zone of Granges, a predominently sphalerite bearing zone in volcaniclastic sediments. The No. 3 zone was discovered in 1976 on followup of the stream sediment anomaly reported by Hoffman (1976). Associated elements: weak copper, lead, zinc, manganese, silver, weak gold, arsenic, cobalt.

2. No. 1 zone of Granges, a predominently silver bearing zone associated with a white, altered rhyolite. No. 1 is the highest grade silver zone. Associated elements: copper, weak lead, zinc, strong manganese, silver, gold, arsenic, cobalt, mercury.

3. No. 2 zone of Granges, a predominently silver bearing zone with some associated gold credits. Geology comprises volcanic units intruded by a white rhyolite dike and represents the largest of the potential ore zones. Associated elements: copper, lead, weak zinc, silver, gold, arsenic, mercury.

Table 1 summarizes relationships with respect to metal associations at each of the three main anomalies on TATE and similarities can be seen with the metal distributions of the Granges deposits.

Anomalous zones associated with base metal-silver highs require more detailed geological mapping and sampling to test their geological affiliation to the faulted contact between Hazelton sediments and volcanics.

Table 1

Metal Associations of the Three Main Anomalous Zones on TATE

	Contact Zone 1	Contact Zone 2	Contact Zone 3
Copper	XX	XX	X
Lead	XX	X	X
Zinc	XX	X	XX
Silver		X	X
Gold	X		
Arsenic	XX	X	X
Iron	XX	X	X
Manganese	XX	XX	X
Barium		XX	X

X - Moderately high values

XX - Very high values

Conclusions

The geochemical soil and silt survey on TATE defined three anomalies meriting follow-up by detailed mapping and soil sampling. Association of base metal-silver accumulations with a faulted contact between Hazelton sediments and volcanics should also be tested by these means.

References

Hoffman, S.J., 1976. Mineral Exploration of the Nechako Plateau, Central British Columbia, Using Lake Sediment Geochemistry. Ph.D Thesis, University of British Columbia, 347 pp (unpublished).

Tipper, H.W., 1963. Nechako River Map-Area, British Columbia. Geological Survey of Canada Memoir 324, 59 pp.

Appendix 1

Analytical Procedures

1. Gold Analysis
2. ICP Multielement Analysis

VGC

986-5211
VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE., NORTH VANCOUVER, B.C., CANADA 604-~~988-2112~~
V7P 2S3

Oct. 7, 1982

TO: B P Explorations Canada Ltd.
Suite 700, 890 W. Pender St.
Vancouver, B C V6C 1K5

FROM: Vangeochem Lab Ltd.
1521 Pemberton Ave.
North Vancouver, B. C. V7P 2S3

SUBJECT: Analytical procedure used to determine elements in hot acid soluble by ICP. Direct reading emission spectrograph analysis.

Re: 1982 Project 505 I C P Analyses.

1. Method of Sample Preparation

(a) Geochemical soil, silt, lake sediments or rock samples were received in the laboratory in wet-strength 3½ x 6½ Kraft paper bags and rock samples in 4" x 6" Kraft paper bags.

(b) The wet samples were dried in a ventilated oven.

(c) The dried soil and silt samples were sifted by hands using a 8" diameter 80-mesh stainless steel sieves. The plys 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.

(d) The dried rock samples were crushed by using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for later analysis.

2. Method of Digestion

(a) 0.500 gram of -80 mesh sample was used.

(b) Samples were digested in a hot water bath with conc. HNO_3 and conc. HCl acids.

(c) The digested samples were diluted to a fixed volume and shaken well.

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3. Method of Analysis

The ICP analyses elements were determined by using Jarrel Ash, model 885. Direct reading emission spectragraph of a inductive coupled plasma excitation source. All major matrix and trace elements are interelement corrected to trace elements. All data is entered into Apple II plus, stored on floppy discs, and printed by Epson 100.

4. Analysts

The analyses were surpervised by Mr. Dean Toye of Acme Lab Ltd. and his staff.

Conway Chun
VANGEOCHEM LAB LTD.

VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE., NORTH VANCOUVER, B.C., CANADA V7P 2S3
986-5211
604-XXXXXXX

October 7, 1982

To; BP Exploration Canada Ltd.
Suite 700, 890 W. Pender Street
Vancouver, B.C. V6C 1K5

From: Vangeochem Lab Ltd.
1521 Pemberton Avenue
North Vancouver, B.C. V7P 2S3

Subject: Analytical procedure used to determine Aqua Regia soluble gold in geochemical samples.
Re: 1982 Project 505 Gold analyses.

1. Method of Sample Preparation

(a) Geochemical soil, silt ot rock samples were received in the laboratory in wet-strength 4 x 6 Kraft paper bags or rock samples sometimes in 8" x 12" plastic bags.

(b) The dried soil and silt samples were sifted by hands using a 8" diameter 80-mesh stainless steel sieve. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.

(c) The dried rock samples were crushed by using a jaw crusher and pulverized to 100 - mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for later analysis.

2. Method of Digestion

(a) 5.00 - 10.00 grams of the minus 80-mesh samples were used. Samples were weighed out by using a top-loading balance into beakers.

(b) 20 ml of Aqua Regia (3:1 HCL : HNO_3) were used to digest the samples over a hot plate vigorously.

(c) The digested samples were filtered and the washed pulps were discarded and the filtrate was reduced to about 5 ml.

(d) The Au comples ions were extracted into diisobutyl ketone and thiourea medium. (Anion exchange liquids "Aliquot 336").

... 2

(e) Separate Funnels were used to separate the organic layer.

3. Method of Detection

The gold analyses were detected by using a Techtron model AA5 Atomic Absorption Spectrophotometer with a gold hollow cathode Lamp. The results were read out on a strip chart recorder. A hydrogen lamp was used to correct any background interferences. The gold values in parts per billion were calculated by comparing them with a set of gold standards.

4. The analyses were supervised or determined by Mr. Conway Chun or Mr. Eddie Tang and his laboratory staff.

for Eddie Tang
VANGEOCHEM LAB LTD.

ET: jl

Appendix 2

Coding Format for Geochemical Samples

List of Geochemical Data

GENERAL

1,2 SAMPLE TYPE

10. Stream sediment
11. Stream water
20. Seepage (spring) sediment
21. Seepage (spring) water
30. Lake sediment - lake center
31. Lake water
32. Lake sediment - near shore
40. Bog-upper 100 cm
41. Bog-stagnant water
42. Bog-below 100 cm
43. Bog-organic material at mineral horizon interface
44. Bog-mineral horizon
50. Soil-top of the B horizon (or top of the C horizon if B horizon absent)
51. Soil-other horizons (organic-rich samples or when 2 samples taken at same note)
52. Frost boil
53. Seepage boil
55. Deep overburden sample
56. Intermediate overburden
57. Sample (depth determined in field)
59.
60. Talus fines-mid slope
61. Talus fine-in gully
62. Talus fines-base of slope
63. Talus blocks-hand sample
64. Talus block-chips
70. Biogeochemical
75. Radon-track etch
76. Radon-Alpha Meters
77. Radon-manometers
80. Bedrock hand sample
81. Bedrock chips + hand sample
82. Float hand sample
83. Float chips + hand sample
84. Drill core specimens
85. Channel sample
86. Drill sludge
87. Drill chips
*89. High grade sample
*90. Special sample-specify
*clearly label if high grade

Special note
For newsgrinchers benefit, 7's should be crossed ⊕ and 0's (letter) should be slashed Ø

YEAR

PROJECT NUMBER

8-39 PROJECT IDENTIFICATION

Blank reconnaissance
A, B, C, etc. - properties, anomalies (list 6)

9 DUPLICATE SAMPLES

*Star both samples (collect 1 in 30)

10,11 SAMPLER IDENTIFICATION
*12 (List 7)

12-15 SAMPLE NUMBER
or
13-15 leave out all numbers ending in 00 and 50

17,18 UTM ZONE

see NTS map sheets; for properties use
XX Property-feet
YY Property-meters
ZZ Property-other

19-24 EAST COORDINATE

25-31 NORTH COORDINATE

34-38 MAP SHEET NUMBER

STREAM SEDIMENTS

40 SAMPLE ENVIRONMENT

1. Next to bank
2. Behind boulders
3. Among roots below stream bank
4. Middle of stream
5. Among grass or reeds of creek bed
6. Bar in creek
7. Middle-very wide, shallow creek
8. Base of slope
9. Composite across stream
A. Soil

42 PRECIPITATE

1. Record colour (report presence of precipitate in immediate vicinity in stream bed. If heavy precipitate, sample separately).

43 OVERBURDEN TRANSPORT

L. Local
E. Extensive
U. Unknown
M. Mixed local & extensive

45 OVERBURDEN ORIGIN

1. Till-angular boulders
2. Outwash-sandy, rounded boulders
3. Lake sediment-sand/silt
4. Alluvium-stream deposit
5. Peat-bog
6. Colluvium*
7. Lake sediment-clay
8. Talus
9. Residual
A. Frost boil* *use only if
B. Seepage boil* former origin
C. Boulder field* cannot be
D. Gravel* identified
E. Soil*

46 BEDROCK

M. Mineralized
P. Present within 100m-200m upslope
D. Present within 100m-200m downslope
B. Underlies sample site
G. Gossan
F. Fe surface stains
R. Radioactivity

47,48 pH

49 SAMPLE TEXTURE

Ø. Organic-decomposed
1. Clay
2. Silt and fine sand
3. Sand
4. Gravel
5. Frozen
6. Cemented
7. Precipitate
8. Twigs or undecomposed organic matter

50-52 AVERAGE WIDTH OF STREAM-M

decimal point in col 51 (or col 52 if stream > 10 m wide)

53-55 AVERAGE DEPTH OF STREAM-CM

56 STREAM VELOCITY

1. Dry
2. Stagnant
3. Slow
4. Moderate
5. Fast
6. Turbulent

57 INDICATE AS TRIBUTARY

R. Stream enters on right looking down main stream
L. Stream enters on left looking down main stream

58-60 LOCAL BEDROCK COMPOSITION

Estimate-use lists 1-4

61 COLOUR-STREAM SEDIMENTS

1. Colour noted in information

63-66 CONDUCTIVITY-WATER

67 CONTAMINATION

Blank-none
P. possible
D. definite

68 ORGANIC FRACTION

1. Minor amount of undecomposed twigs, leaves, etc.
2. Large amount of undecomposed twigs, leaves, etc.
3. Minor amount of well-decomposed vegetation
4. Large amount of well-decomposed vegetation
5. Mosses
6. Some sediment grains coated in organic matter
7. All sediment grains coated in organic matter
8. Looks like lake sediment material

69 MINERAL FRACTION

1. Primarily light coloured silicate minerals
2. Primarily carbonate sand
3. Minor, but notable content of mafic minerals, resustates etc.
4. High proportion of mafics, resistates

71 GAMMA SOLID ANGLE

1. Ridge 5. A
2. Flat surface (2π) 6. B
3. Base of section (3π) 7. C
4. Deep gullies (4π) 8. D

72-75 GAMMA COUNT AT SAMPLE SITE

76 ROCK

*If bedrock is influencing scint counts

77,78 APPROXIMATE SLOPE ANGLE

79,80 APPROXIMATE SLOPE DIRECTION

SOILS

40 SITE TOPOGRAPHY

1. Hill Top
2. Gentle slope
3. Steep slope > 20°
4. Base of slope
5. Valley floor
6. Depression
7. Level
8. Rolling
9. Bog

41 SAMPLE ENVIRONMENT

1. Tundra-hummocky
2. Tundra-dry
3. Tundra-swampy
4. Grassland, meadows
5. Peat mounds
6. Bog in depression
7. Forest-coniferous
8. Forest-deciduous
9. Forest-mixed
A. Alder or willows
B. Cultivated land
C. Desert, semi-arid
D. Barren
E. Talus fan
F. Bank soil-stream
G. Bank soil-lake
H. Road cut

42 SITE DRAINAGE

1. Dry
2. Moist
3. Wet
4. Saturated

43 OVERBURDEN TRANSPORT

L. Local
E. Extensive
U. Unknown
M. Mixed - two sources

44 WATER MOVEMENT

S. Seepage

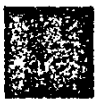
45 OVERBURDEN ORIGIN

1. Till-angular boulders
2. Outwash-sandy, rounded boulders
3. Lake sediment-sand/silt
4. Alluvium-stream deposit
5. Peat-bog
6. Colluvium
7. Lake sediment-clay
8. Talus
9. Residual
A. Frost boil* *Use only if
B. Seepage boil* formed origin
C. Boulder field* cannot be
D. Gravel* identified

46 BEDROCK

M. Mineralized
P. Present within 100m-200m upslope
D. Present within 100m-200m downslope
B. Underlies sample site
G. Gossan
F. Fe surface stains
R. Radioactivity

48 pH



pH 4.0 pH 5.5 pH 6.0 pH 6.5 pH 7.0

pH 7.5 pH 8.5 pH 9.0 pH 9.5

49 SAMPLE TEXTURE

Ø Organic muck
1. Fibrous, peaty organic matter
2. Very sandy
3. Sandy
4. Sand-silt
5. Sand-silt-clay
6. Silt
7. Silt-clay
8. Clay
9. Gravel

50,51 TOP OF SAMPLE INTERVAL-CM

52-54 BOTTOM OF SAMPLE INTERVAL-CM

55,56 SOIL HORIZON

LH. Leaf, humus layer, undecomposed vegetation lying on the ground surface (do not sample)
AH. Dark grey to black, organic-rich mineral horizon usually no deeper than 15 cm from the surface (do not sample)
AE. Grey to white (occasionally brown) leached mineral horizon near ground surface, usually sandy; accompanied by BF or BT horizon at depth (no not sample)
BH. Black, organic-rich mineral horizon at depths greater than 15 cm (do not sample)
BF. Red brown, iron-rich horizon
BT. Brown, clay-rich horizon
BG. Horizon which is water-saturated most of the year, identified by red brown mottles
BM. Brown horizon which is only slightly different in appearance from underlying parent material
C1, C2, C3, etc.-Parent material for soil
CA. White calcium carbonate precipitate in C horizon
Ø1, Ø2, Ø3 etc.-Bog samples at various depths
TF. Talus fines

57 SOIL TYPE

C. Chernozem-prairie soil usually under grassland or meadow, thick Ah >10cm, CA horizon at depth
S. Solonetz-saline soil, high content of NaCl
L. Luvisol-BT horizon diagnostic
P. Podzol-BF horizon diagnostic
B. Brunisol-BM horizon is only B horizon of profile
R. Regosol-little or no soil development. No B soil horizon, only LH (maybe) and C horizon
G. Gleysol-BG horizon diagnostic
Ø. Organic soil-bog vegetation-no mineral matter

58-60 LOCAL BEDROCK COMPOSITION

Estimate-use lists 1-4

61-66 COLOUR

Munsell notation or abbreviation

67 CONTAMINATION

Blank-none
P. possible
D. definite

68-69 % COARSE FRAGMENTS

70 SHAPE OF COARSE FRAGMENTS

A. Angular
B. Rounded
S. Subrounded, subangular
M. Mixed above types

71 GAMMA SOLID ANGLE

1. Ridge 5. A
2. Flat surface (2π) 6. B
3. Base of section (3π) 7. C
4. Deep gullies (4π) 8. D

72-75 GAMMA COUNT AT SAMPLE SITE

Scint reading at ground level over hole

76 ROCK

*If bedrock is influencing scint counts

77,78 APPROXIMATE SLOPE ANGLE

79,80 APPROXIMATE SLOPE DIRECTION

LIST 1

1-- INTRUSIVE ROCKS

-1- QUARTZ RICH
--1 Granite
--2 Quartz Monzonite
--3 Granodiorite
--4 Quartz diorite

-2- INTERMEDIATE
--1 Syenite
--2 Monzonite
--3 Diorite
--4 Gabbro

-3- FELDSPATHOID RICH
--1 Nepheline syenite
--2 Nepheline monzonite

-40 ULTRABASIC

-50 CARBONATITES

-60 SPECIAL TYPES
--1 Pegmatite
--2 Aplite
--3 Lamprophyre
--4 Trap
--5 Felsite
--6 Intrusion breccia
--7 Diabase

LIST 2

2-- VOLCANIC ROCKS

-0- UNDIFFERENTIATED

-1- BASALT

-2- ANDESITE

-3- DACITE

-4- RHYOLITE

-5- QUARTZ LATITE

-6- LATITE

-7- TRACHYTE

-8- PHONOLITE

-9- NEPHELINE LATITE
--1 Fine grained flows
--2 Prophyritic flows
--3 Crystal tuffs
--4 Ash tuffs
--5 Lapilli tuffs
--6 Agglomerate
--7 Lapilli breccia
--8 Block breccia
--9 Turbidite

LIST 3

3-- SEDIMENTARY ROCKS

-1- ARENACEOUS
--1 Siltstone
--2 Mudstone
--3 Greywake
--4 Sandstone
--5 Quartzite
--6 Conglomerate

-2- ARGILLACEOUS
--1 Shale
--2 Argillite

-3- CALCAREOUS
--1 Limestone
--2 Dolomite

-4- CHEMICAL PRECIPITATE
--1 Chert
--2 Marble
--3 Iron formation

LIST 4

4-- METAMORPHIC ROCKS

-1- FINE GRAINED CONTACT

-2- PHANERITIC
--1 Meta quartzite
--2 Marble
--3 Soapstone
--4 Hornfels
--5 Serpentine
--6 Skarn
--7 Amphibolite
--8 Eclogite

-3- MECHANICAL
--1 Mylonite
--2 Flaser
--3 Augen
--4 Ultramylonite

-50 SLATE

-59 PHYLLITE

-60 SCHIST

-7- GNEISS*
-8- MIGMATITE*
--1 *Granite
--2 Monzonite
--3 Granodiorite
--4 Conglomerate
--5 Sandstone
--6 Augen
--7 Granulite
--8 Quartz diorite
--9 Diorite
--0 Amphibolite

LISTING OF TATE CLAIMS 08:16 P.M. DEC. 01, 1982 PART 1 PAGE 1

RECD	TY	YE	PRJ	ID	UTM-E	U	UTM-N	NTS	pH	ROK	SCINT	SLPE	Mo	Cu	Pb	Zn	Ni
1	10	82	529 E	714482	396704		5901232	93F07	4 L 1B 0.0 210 754	RD 61			1	9	4	37	10
2	10	82	529 E	714484	396572		5901287	93F07	4 L 1B 0.0 2175 254	BR 61		4 W	1	8	4	36	9
3	10	82	529 E	714487	396327		5901451	93F07	L 1B 0.0 210 255	LORBR 61		4SW	1	11	5	43	10
4	10	82	529 E	714490	396078		5901266	93F07	L 1B 0.0 210 255	BR 61		2SW	1	8	4	37	8
5	10	82	529 E	714494	395815		5901194	93F07	2 L 2E 0.0 215 305	BR 01		2NW	1	6	4	36	9
6	10	82	529 E	714498	395594		5901405	93F07	L 1B 0.0 214 455	BR 61		2NW	1	7	3	36	9
7	10	82	529 E	714499	391945		5901462	93F07	4 L 1B 0.0 230 203	BR 61			1	5	2	35	8
8	10	82	529 E	714500	395441		5901647	93F07	4 L 1B 0.0 2105 103R	BL 61		4NW	1	8	2	38	9
9	10	82	529 E	714501	395005		5902138	93F07	4 L 1B 0.0 2 3 55R	BL 41		4NW	1	9	5	40	9
10	10	82	529 E	714504	394961		5902158	93F07	L 1B 0.0 2175 605	BR 61		4 W	1	8	4	37	9
11	10	82	529 E	714505	395004		5902140	93F07	L 1B 0.0 2 4 152R	BR 61		S	1	9	4	36	9
12	10	82	529 E	714506	394135		5901893	93F07	4 L 1B 0.0 2 5 10BFP	BR		4SW	1	13	5	43	11
13	10	82	529 E	714509	394933		5903884	93F07	6 L 1B 0.0 030 152	BR 23		2 S	1	39	4	19	7
14	10	82	529 E	714512	394919		5903603	93F07	L 1B 0.0 0 3 103	BR 24		6SW	1	54	7	95	19
15	10	82	529 E	714525	395182		5902510	93F07	4 L 1B 0.0 2 35 105	BR 61		8 S	3	104	8	72	57
16	10	82	529 E	714528	395120		5902217	93F07	4 L 1P 0.0 3 6 155	BR 33		8 S	3	44	8	68	27
17	10	82	529 E	716018	392618		5904744	93F07	0.0				1	19	5	51	15
18	10	82	529 E	716023	393551		5905091	93F07	0.0				1	18	6	52	15
19	10	82	529 E	716028	394442		5904924	93F07	0.0				1	28	8	56	18
20	10	82	529 E	716031	394657		5904756	93F07	0.0				1	20	7	57	18
21	10	82	529 E	716034	394922		5904643	93F07	0.0				1	27	8	53	20
22	10	82	529 E	716037	395215		5904591	93F07	0.0				1	23	7	57	20
23	10	82	529 E	716040	395497		5904505	93F07	0.0				1	27	9	65	23
24	10	82	529 E	716043	395783		5904404	93F07	0.0				1	33	10	67	26
25	10	82	529 E	716046	394815		5904708	93F07	0.0				1	15	8	61	15
26	10	82	529 E	716047	395074		5904847	93F07	0.0				1	23	7	52	19
27	10	82	529 E	716050	395239		5905091	93F07	0.0				1	17	7	52	16
28	10	82	529 E	716053	395479		5905279	93F07	0.0				1	20	7	58	19
29	10	82	529 E	716056	395673		5905508	93F07	0.0				1	22	7	58	21
30	10	82	529 E	717013	390453		5902883	93F07	CL 2 0.0 2.0 125	11		NW	1	27	12	76	19
31	10	82	529 E	717014	390453		5902899	93F07	CL 2 0.0 2.0 125	11		NW	1	25	10	77	16
32	10	82	529 E	717015	390453		5902906	93F07	CL 2 0.0 2.0 125	11		NW	1	25	11	77	18
33	10	82	529 E	717016	391248		5903440	93F07	CL 0.0 1.5 145	11	5	SW	1	26	14	83	19
34	10	82	529 E	717017	391266		5903435	93F07	CL 0.0 1.5 145	11		SW	1	26	14	79	17
35	10	82	529 E	717018	391277		5903420	93F07	CL 0.0 1.5 145	11		SW	1	14	5	46	13
36	10	82	529 E	717019	391785		5904248	93F07	0.0				1	17	7	51	16
37	10	82	529 E	717020	391768		5904241	93F07	0.0				1	23	11	61	17
38	10	82	529 E	717021	391780		5904186	93F07	0.0				1	20	9	53	15
39	10	82	529 E	717022	391758		5904196	93F07	0.0				1	19	9	53	15
40	10	82	529 E	717023	391728		5904200	93F07	0.0				1	13	8	49	14
41	10	82	529 E	717025	391878		5904514	93F03	CL 0.0 1.5 155	11		S	1	16	7	51	15
42	10	82	529 E	717028	391917		5904810	93F07	CL 0.0 1.0 155	11		S	1	18	10	55	17
43	10	82	529 E	717031	392077		5905066	93F07	CL 2 0.0 1.0 104	11		SW	1	15	6	48	14
44	10	82	529 E	717034	392269		5905298	93F07	CL 2 0.0 1. 124	11		SW	1	14	7	47	14
45	10	82	529 E	717037	391587		5903740	93F07	CL 1 0.0 .5 84	11		NE	1	27	13	71	19
46	10	82	529 E	717039	391561		5903709	93F07	0.0				1	30	21	84	21
47	10	82	529 E	717042	391888		5903740	93F07	CL 2 0.0 .4 84	21		NE	1	24	10	62	18
48	10	82	529 E	717045	392178		5903751	93F07	CL 2 0.0 84	21		NE	1	38	8	57	19
49	10	82	529 E	717048	392481		5903748	93F07	CL 2 0.0 .3 74	21		E	1	28	6	48	17
50	10	82	529 E	717051	392777		5903687	93F07	CL 2 0.0 .2 83	21			1	51	9	56	21
51	10	82	529 E	717054	392902		5904284	93F07	CL 2 0.0 .2 63	21		NW	1	37	9	54	17
52	10	82	529 E	717057	392633		5904422	93F07	CL 2 0.0 .5 63	21		NW	1	34	9	58	16
53	10	82	529 E	717060	392403		5904541	93F07	CL 2 0.0 .2 84	21		NW	1	25	6	52	14
54	10	82	529 E	717062	392363		5904530	93F07	0.0				1	24	7	53	16

RECD	TY	YE	PRJ		ID	UTM-E	U	UTM-N	NTS			pH			ROK		SCINT	SLPE	Mo	Cu	Pb	Zn	Ni
55	10	82	529	E	717066	392470		5905520	93F07		CL	2	0.0	1.	144		11	SW	1	16	9	47	15
56	10	82	529	E	717069	392706		5905727	93F07		CL	2	0.0	1.	144		11	SW	1	18	8	49	14
57	10	82	529	E	717072	392983		5905769	93F07		CL		0.0	1.	144		11	SW	1	15	5	58	15
58	10	82	529	E	717075	393272		5906002	93F07		CL	2	0.0	1.	104		11	SW	1	18	5	49	14
59	10	82	529	E	717078	393570		5906057	93F07		CL	2	0.0	.5	154		21	W	1	16	6	49	12
60	50	82	529	E	* 714481	396679		5901283	93F07	2	2L	1B	0.0	5	10BFP	LORBR	5		1	14	5	40	10
61	50	82	529	E	714483	396707		5901182	93F07	272	L	1B	0.0	315	10BFP	LORBR	5		1	8	5	36	9
62	50	82	529	E	714485	396574		5901330	93F07	72	L	1B	0.0	310	15BFP	LORBR	00	4 W	1	11	4	41	10
63	50	82	529	E	714486	396556		5901257	93F07	72	L	1B	0.0	3 5	10BFP	LORBR	00	4 W	1	11	4	40	10
64	50	82	529	E	714488	396324		5901425	93F07	272	L	1B	0.0	4 5	10BFP	LORBR	00	4SW	1	4	7	68	7
65	50	82	529	E	714489	396309		5901501	93F07	72	L	1B	0.0	4 5	10BFP	LORBR	00	4SW	1	3	4	45	6
66	50	82	529	E	714491	396047		5901293	93F07	272	L	1B	0.0	4 5	10BFP	LORBR		2SW	1	5	5	74	9
67	50	82	529	E	714492	396100		5901244	93F07	2	L	1B	0.0	4 5	10BFP	LORBR	00	2SW	1	5	6	69	10
68	50	82	529	E	714493	395824		5901233	93F07	272	L	1B	0.0	4 5	10BFP			2NW	1	7	4	37	9
69	50	82	529	E	714495	395795		5901168	93F07	72	L	1B	0.0	4 5	10BFP	LORBR	00	2NW	1	6	4	32	8
70	50	82	529	E	714496	395566		5901382	93F07	72	L	1B	0.0	4 5	10BFP	LORBR	00	2NW	1	7	4	34	8
71	50	82	529	E	714497	395604		5901448	93F07		L	1B	0.0	4 5	10BFP	LORBR	00	2NW	1	6	4	36	8
72	50	82	529	E	714502	394995		5902179	93F07	72	L	1B	0.0	5 5	10BFP	LORBR	00	4 W	1	17	4	42	14
73	50	82	529	E	714503	395003		5902106	93F07	72	L	1B	0.0	3 5	10BFP	LORBR	00	4 W	1	11	5	41	12
74	50	82	529	E	714507	394147		5901838	93F07		L	1B	0.0	2 5	10BFP	RDBR		4SW	1	15	3	43	13
75	50	82	529	E	714508	394135		5901867	93F07	72	L	1B	0.0	324	305	BR	61	4SW	1	7	3	36	9
76	50	82	529	E	714510	394895		5903879	93F07	272	E	1B	0.0	425	30BFP	MORBR	5S	2 S	1	13	9	59	12
77	50	82	529	E	714511	394975		5903889	93F07	272	L	1B	0.0	520	25BFP	LORBR	00	2 S	1	19	9	67	14
78	50	82	529	E	714513	394875		5903597	93F07	72	L	1B	0.0	410	15BFP	LORBR	95A	6SW	7	57	12	156	26
79	50	82	529	E	714514	394965		5903602	93F07	72	L	1B	0.0	420	25BFP	MORBR	10S	6SW	2	24	6	122	15
80	50	82	529	E	714515	394964		5903323	93F07				0.0						1	47	9	84	23
81	50	82	529	E	714516	394934		5903314	93F07				0.0						2	14	6	93	10
82	50	82	529	E	714517	394977		5903347	93F07				0.0						1	11	8	92	9
83	50	82	529	E	714518	395014		5903034	93F07				0.0						1	96	11	72	22
84	50	82	529	E	714519	395014		5903034	93F07	272	L	1B	0.0	315	20BFP	LORBR	75S	8 S	1	28	8	152	10
85	50	87	529	E	* 714520	394982		5903020	93F07	272	L	1B	0.0	410	15BFP	MORBR	30S	8 S	2	19	8	83	11
86	50	82	529	E	* 714521	395057		5903044	93F07	272	L	1B	0.0	415	20BFP	MORBR	25S	8 S	1	10	6	80	10
87	50	82	529	E	714522	395173		5902786	93F07		L	1B	0.0	210	255	BR	61	6 S	1	85	6	56	21
88	50	82	529	E	714523	395139		5902767	93F07	2	L	1B	0.0	410	15BFP	MORBR	20S	6 S	1	18	7	70	12
89	50	82	529	E	714524	395192		5902819	93F07	272	L	1B	0.0	310	15BFP	MORBR	J5S	6 S	1	50	9	151	14
90	50	82	529	E	714526	395146		5902502	93F07	272	L	1B	0.0	420	25BFP	CORBR	80A	8 S	7	58	10	95	54
91	50	82	529	E	714527	395219		5902510	93F07	2	2L	1B	0.0	410	15BFP	MORBR	20A	8 S	2	45	9	61	23
92	50	87	529	E	714529	395082		5902220	93F07	272	L	1B	0.0	415	20BFP	LORBR	10S	6SW	2	48	9	65	28
93	50	82	529	E	714530	395156		5902212	93F07	72	L	1B	0.0	410	15BFP	LORBR			2	54	9	63	29
94	50	82	529	E	716021	392604		5904770	93F07				0.0						1	19	9	57	13
95	50	82	529	E	716022	392638		5904715	93F07				0.0						1	21	6	41	14
96	50	82	529	E	716026	393555		5905058	93F07				0.0						1	38	9	46	13
97	50	82	529	E	716027	393546		5905125	93F07				0.0						1	11	8	40	8
98	50	82	529	E	716029	394428		5904900	93F07				0.0						1	29	8	56	19
99	50	82	529	E	716030	394459		5904945	93F07				0.0						1	329	21	51	49
100	50	82	529	E	716032	394674		5904772	93F07				0.0						1	27	10	54	20
101	50	82	529	E	716033	394638		5904731	93F07				0.0						1	24	9	51	18
102	50	82	529	E	716035	394914		5904614	93F07				0.0						1	26	10	67	21
103	50	82	529	E	716036	394924		5904670	93F07				0.0						1	29	9	53	20
104	50	82	529	E	716038	395219		5904563	93F07				0.0						1	26	8	56	21
105	50	82	529	E	716039	395226		5904617	93F07				0.0						1	23	9	51	18
106	50	82	529	E	716041	395497		5904477	93F07				0.0						2	41	12	61	26
107	50	82	529	E	716042	395503		5904529	93F07				0.0						1	46	9	71	17
108	50	82	529	E	716044	395793		5904439	93F07				0.0						1	14	7	42	11

RECD	TY	YE	PRJ		ID	UTM-E	U	UTM-N	NTS		pH		ROK		SCINT	SLPE	Mo	Cu	Pb	Zn	Ni
109	50	82	529	E	716045	395775		5904378	93F07		0.0						1	34	9	79	18
110	50	82	529	E	716048	395096		5904830	93F07		0.0						1	14	8	73	12
111	50	82	529	E	716049	395055		5904877	93F07		0.0						1	14	6	100	13
112	50	82	529	E	716051	395265		5905080	93F07		0.0						1	13	9	94	10
113	50	82	529	E	716052	395221		5905120	93F07		0.0						1	10	10	43	10
114	50	82	529	E	716054	395502		5905258	93F07		0.0						1	12	8	60	9
115	50	82	529	E	716055	395459		5905304	93F07		0.0						1	15	9	50	12
116	50	82	529	E	716057	395700		5905485	93F07		0.0						1	16	6	45	11
117	50	82	529	E	716058	395649		5905533	93F07		0.0						1	16	7	45	11
118	50	82	529	E	717024	391864		5904522	93F07	CL	0.0	1.5	155	11		S	1	19	7	63	13
119	50	82	529	E	717026	391896		5904509	93F03	CL	0.0	1.5	155	11		S	1	23	9	166	20
120	50	82	529	E	717027	391903		5904811	93F07	CL	0.0	1.0	155	11		S	1	14	6	45	12
121	50	82	529	E	717029	391932		5904806	93F07	CL	0.0	1.0	155	11		S	1	15	8	60	11
122	50	82	529	E	717030	392089		5905052	93F07		0.0						1	15	7	49	12
123	50	82	529	E	717033	392257		5905312	93F07		0.0						1	16	7	48	14
124	50	82	529	E	717035	392282		5905287	93F07		0.0						1	17	8	55	12
125	50	82	529	E	717036	391609		5903772	93F07		0.0						1	22	10	61	18
126	50	82	529	E	717038	391605		5903725	93F07		0.0						1	19	7	53	16
127	50	82	529	E	717040	391555		5903744	93F07		0.0						9	110	30	242	42
128	50	82	529	E	717041	391893		5903768	93F07		0.0						1	29	11	150	21
129	50	82	529	E	717043	391874		5903718	93F07		0.0						1	27	11	60	19
130	50	82	529	E	717044	392174		5903782	93F07		0.0						1	15	8	51	12
131	50	82	529	E	717049	392476		5903713	93F07		0.0						1	19	9	49	15
132	50	82	529	E	717050	392767		5903721	93F07		0.0						1	38	8	79	20
133	50	82	529	E	717052	392780		5903659	93F07		0.0						1	42	9	50	20
134	50	82	529	E	717053	392920		5904302	93F07		0.0						1	30	5	49	14
135	50	82	529	E	717056	392658		5904444	93F07		0.0						1	12	6	43	8
136	50	82	529	E	717058	392635		5904385	93F07		0.0						1	38	9	64	18
137	50	82	529	E	717059	392387		5904523	93F07		0.0						1	34	6	57	16
138	50	82	529	E	717061	392416		5904567	93F07		0.0						1	28	9	47	14
139	50	82	529	E	717063	392367		5904558	93F07		0.0						1	15	7	50	12
140	50	82	529	E	717065	392453		5905543	93F07		0.0						1	17	7	50	13
141	50	82	529	E	717067	392483		5905503	93F07		0.0						1	17	7	41	15
142	50	82	529	E	717068	392686		5905745	93F07		0.0						1	17	9	54	13
143	50	82	529	E	717070	392722		5905707	93F07		0.0						1	21	5	55	16
144	50	82	529	E	717071	392965		5905769	93F07		0.0						1	20	6	56	15
145	50	82	529	E	717074	393254		5906029	93F07		0.0						1	16	10	54	15
146	50	82	529	E	717076	393285		5905978	93F07		0.0						1	10	8	42	11
147	50	82	529	E	717077	393558		5906091	93F07		0.0						1	13	8	53	14
148	50	82	529	E	717079	393577		5906027	93F07		0.0						1	15	5	44	13

* ALL VALUES ARE IN PPM UNLESS INDICATED TO BE IN PERCENT.

RECD	TY	YE	PRJ	ID	U	Mn	Fe%	Ag	Co	Au	As	Hg	Sb	Sn	W	F	Th	Cd	Bi	V	Ba	Sr
1	10	82	529	714482	2.0	275	1.9	0.1	6	10	5	0	2	0	2	0	2	1	2	44	66	25
2	10	82	529	714484	2.0	259	1.7	0.1	6	5	2	0	2	0	2	0	2	1	2	39	66	27
3	10	82	529	714487	2.0	477	2.2	0.2	7	5	11	0	2	0	2	0	2	1	2	46	86	42
4	10	82	529	714490	2.0	300	1.8	0.1	6	5	6	0	2	0	2	0	2	1	2	37	70	28
5	10	82	529	714494	2.0	222	1.8	0.1	6	5	6	0	2	0	2	0	2	1	2	39	52	32
6	10	82	529	714498	2.0	220	1.8	0.1	5	5	7	0	2	0	2	0	2	1	2	38	64	26
7	10	82	529	714499	2.0	496	1.9	0.1	5	5	5	0	2	0	2	0	2	1	2	30	68	28
8	10	82	529	714500	2.0	270	1.7	0.2	6	5	5	0	2	0	2	0	2	1	2	36	65	30
9	10	82	529	714501	2.0	259	1.7	0.1	6	5	3	0	2	0	2	0	2	1	2	37	71	31
10	10	82	529	714504	2.0	271	1.7	0.1	6	5	6	0	2	0	2	0	2	1	2	35	60	27
11	10	82	529	714505	2.0	291	1.7	0.1	5	5	8	0	2	0	2	0	2	1	2	35	60	26
12	10	82	529	714506	3.0	486	2.0	0.2	6	5	12	0	2	0	2	0	2	1	2	41	79	38
13	10	82	529	714509	2.0	136	0.5	0.4	2	10	3	0	2	0	2	0	2	1	2	11	134	51
14	10	82	529	714512	2.0	813	1.8	0.9	7	5	7	0	2	0	2	0	2	1	2	32	191	65
15	10	82	529	714525	10.0	422	2.7	0.5	7	5	16	0	2	0	2	0	2	2	2	32	100	87
16	10	82	529	714528	3.0	580	3.2	0.3	9	5	18	0	2	0	2	0	2	1	2	51	89	43
17	10	82	529	716018	2.0	877	2.4	0.3	8	5	12	0	2	0	2	0	2	1	2	47	131	39
18	10	82	529	716023	2.0	1158	2.4	0.3	8	5	10	0	2	0	2	0	2	1	2	46	141	42
19	10	82	529	716028	4.0	312	2.5	0.4	8	5	14	0	2	0	2	0	2	1	2	49	160	40
20	10	82	529	716031	2.0	948	2.7	0.4	9	5	10	0	2	0	2	0	2	1	2	45	154	42
21	10	82	529	716034	5.0	957	2.9	0.6	8	5	17	0	2	0	2	0	2	1	2	47	170	49
22	10	82	529	716037	2.0	957	2.2	0.5	8	5	10	0	2	0	2	0	2	1	2	36	137	64
23	10	82	529	716040	5.0	4370	3.1	0.5	10	5	20	0	2	0	2	0	2	1	2	44	269	85
24	10	82	529	716043	2.0	4445	3.1	0.7	10	5	16	0	2	0	2	0	2	2	2	45	290	106
25	10	82	529	716046	2.0	371	2.7	0.2	7	5	10	0	2	0	2	0	2	1	2	60	106	31
26	10	82	529	716047	2.0	751	2.6	0.3	8	5	10	0	2	0	2	0	2	1	2	51	113	45
27	10	82	529	716050	2.0	690	2.3	0.3	7	5	10	0	2	0	2	0	2	1	2	47	100	42
28	10	82	529	716053	2.0	1079	2.6	0.4	9	5	12	0	2	0	2	0	2	1	2	50	118	50
29	10	82	529	716056	2.0	1182	2.5	0.4	9	5	12	0	2	0	2	0	2	1	2	47	128	58
30	10	82	529	717013	2.0	708	3.2	0.2	11	5	19	0	2	0	2	0	2	1	2	62	135	46
31	10	82	529	717014	2.0	508	2.8	0.2	10	5	19	0	2	0	2	0	2	1	2	59	120	49
32	10	82	529	717015	2.0	704	3.2	0.2	11	5	19	0	2	0	2	0	2	1	2	64	128	41
33	10	82	529	717016	2.0	773	3.2	0.3	12	5	30	0	2	0	2	0	2	1	2	58	121	39
34	10	82	529	717017	2.0	697	3.3	0.2	12	25	24	0	2	0	2	0	2	1	2	63	117	38
35	10	82	529	717018	2.0	514	2.4	0.2	7	5	8	0	2	0	2	0	2	1	2	53	83	37
36	10	82	529	717019	2.0	528	3.0	0.2	10	5	10	0	2	0	2	0	2	1	2	69	105	29
37	10	82	529	717020	2.0	717	3.2	0.1	11	10	15	0	2	0	2	0	2	1	2	68	144	37
38	10	82	529	717021	2.0	452	3.0	0.2	10	5	9	0	2	0	2	0	2	1	2	69	107	34
39	10	82	529	717022	2.0	480	2.5	0.3	9	5	11	0	2	0	2	0	2	1	2	54	127	41
40	10	82	529	717023	2.0	397	3.2	0.2	9	5	3	0	2	0	2	0	2	1	2	84	83	29
41	10	82	529	717025	2.0	445	2.6	0.2	9	5	11	0	2	0	2	0	2	1	2	59	114	35
42	10	82	529	717028	2.0	589	2.8	0.3	10	35	11	0	2	0	2	0	2	1	2	57	134	38
43	10	82	529	717031	2.0	467	2.3	0.2	8	5	4	0	2	0	2	0	2	1	2	49	115	33
44	10	82	529	717034	3.0	448	2.6	0.2	9	5	7	0	2	0	2	0	2	1	2	59	98	28
45	10	82	529	717037	3.0	651	3.1	0.2	11	5	28	0	2	0	2	0	2	1	2	56	114	39
46	10	82	529	717039	2.0	850	4.0	0.2	15	5	45	0	2	0	2	0	3	1	2	67	123	33
47	10	82	529	717042	2.0	603	2.9	0.2	10	5	14	0	2	0	2	0	2	1	2	59	118	37
48	10	82	529	717045	2.0	499	2.7	0.3	9	5	13	0	2	0	2	0	2	1	2	51	145	38
49	10	82	529	717048	3.0	447	2.5	0.3	9	5	11	0	2	0	2	0	2	1	2	49	119	28
50	10	82	529	717051	2.0	636	2.9	0.3	10	5	13	0	2	0	2	0	2	1	2	53	169	38
51	10	82	529	717054	4.0	660	3.0	0.4	10	5	15	0	2	0	2	0	2	1	2	59	159	34
52	10	82	529	717057	3.0	602	2.7	0.3	10	5	10	0	2	0	2	0	2	1	2	51	157	34
53	10	82	529	717060	2.0	535	2.6	0.3	10	5	9	0	2	0	2	0	3	1	2	57	107	27
54	10	82	529	717062	2.0	919	2.6	0.3	9	5	10	0	2	0	2	0	2	1	2	49	138	40

RECD	TY	YE	PRJ	ID	U	Mn	Fe%	Ag	Co	Au	As	Hg	Sb	Sn	W	F	Th	Cd	Bi	V	Ba	Sr
55	10	82	529	717066	2.0	470	2.2	0.2	8	5	10	0	2	0	2	0	2	1	2	48	109	32
56	10	82	529	717069	2.0	653	2.4	0.3	8	5	8	0	2	0	2	0	2	1	2	45	147	41
57	10	82	529	717072	2.0	440	2.8	0.2	9	5	5	0	2	0	2	0	2	2	2	60	120	26
58	10	82	529	717075	2.0	637	2.4	0.3	8	5	9	0	2	0	2	0	2	2	2	47	152	39
59	10	82	529	717078	2.0	833	2.5	0.2	9	5	12	0	2	0	2	0	2	2	2	48	130	38
60	50	82	529	714481	2.0	255	2.1	0.1	7	5	8	0	2	0	2	0	2	1	2	48	89	33
61	50	82	529	714483	2.0	221	2.1	0.1	6	5	5	0	2	0	2	0	2	1	2	48	65	27
62	50	82	529	714485	2.0	276	2.0	0.1	6	5	5	0	2	0	2	0	2	1	2	46	79	30
63	50	82	529	714486	2.0	237	2.2	0.1	6	5	4	0	2	0	2	0	2	1	2	47	77	29
64	50	82	529	714488	2.0	289	2.5	0.1	5	5	2	0	2	0	2	0	2	1	2	56	68	12
65	50	82	529	714489	2.0	374	1.7	0.1	3	5	2	0	2	0	2	0	2	1	2	35	81	14
66	50	82	529	714491	2.0	1204	2.7	0.1	6	5	4	0	2	0	2	0	2	1	2	64	112	14
67	50	82	529	714492	2.0	409	2.8	0.2	6	5	6	0	2	0	2	0	2	1	2	67	67	12
68	50	82	529	714493	2.0	228	1.7	0.1	6	5	4	0	2	0	2	0	2	1	2	37	55	30
69	50	82	529	714495	2.0	164	1.7	0.1	5	5	5	0	2	0	2	0	2	1	2	39	52	28
70	50	82	529	714496	2.0	212	1.6	0.2	5	10	7	0	2	0	2	0	2	1	2	38	60	32
71	50	82	529	714497	2.0	312	1.8	0.1	5	5	4	0	2	0	2	0	2	1	2	41	52	25
72	50	82	529	714502	2.0	290	1.9	0.2	6	5	6	0	2	0	2	0	2	1	2	41	68	47
73	50	82	529	714503	2.0	266	1.9	0.1	5	5	9	0	2	0	2	0	2	1	2	39	51	26
74	50	82	529	714507	2.0	350	2.0	0.1	6	10	10	0	2	0	2	0	2	1	2	39	67	34
75	50	82	529	714508	2.0	420	1.7	0.1	6	5	5	0	2	0	2	0	2	1	2	35	59	27
76	50	82	529	714510	2.0	341	2.6	0.2	7	5	8	0	2	0	2	0	2	1	2	54	74	15
77	50	82	529	714511	2.0	335	3.3	0.1	8	5	12	0	2	0	2	0	2	1	2	71	70	16
78	50	82	529	714513	2.0	501	4.8	0.3	12	10	41	0	2	0	2	0	2	1	2	60	83	13
79	50	82	529	714514	2.0	495	3.6	0.2	10	5	14	0	2	0	2	0	2	1	2	70	146	13
80	50	82	529	714515	5.0	866	3.0	0.7	9	5	13	0	2	0	2	0	2	1	2	45	264	61
81	50	82	529	714516	2.0	311	2.9	0.2	8	5	15	0	2	0	2	0	2	1	2	55	89	14
82	50	82	529	714517	2.0	635	2.6	0.2	9	5	11	0	2	0	2	0	2	1	2	49	111	17
83	50	82	529	714518	12.0	813	2.9	0.9	8	5	20	0	2	0	2	0	2	1	2	39	239	79
84	50	82	529	714519	2.0	1650	2.5	0.3	15	5	9	0	2	0	2	0	2	2	2	46	194	49
85	50	87	529	714520	2.0	889	2.8	0.2	9	5	18	0	2	0	2	0	2	1	2	49	83	21
86	50	82	529	714521	2.0	458	2.6	0.1	7	5	15	0	2	0	2	0	2	1	2	53	71	18
87	50	82	529	714522	6.0	569	2.2	0.7	6	5	12	0	2	0	2	0	2	1	2	38	129	61
88	50	82	529	714523	2.0	604	2.5	0.2	8	5	8	0	2	0	2	0	2	1	2	53	90	24
89	50	82	529	714524	2.0	1288	2.8	0.4	14	5	16	0	2	0	2	0	2	3	2	44	129	72
90	50	82	529	714526	2.0	812	4.6	0.3	13	5	36	0	2	0	2	0	2	2	2	43	91	45
91	50	82	529	714527	3.0	573	2.6	0.3	8	5	14	0	2	0	2	0	2	1	2	44	99	64
92	50	87	529	714529	2.0	606	3.2	0.3	9	5	21	0	2	0	2	0	2	1	2	53	108	48
93	50	82	529	714530	2.0	636	3.2	0.3	9	5	21	0	2	0	2	0	2	1	2	49	102	50
94	50	82	529	716021	2.0	385	2.3	0.2	9	5	10	0	2	0	2	0	2	1	2	53	102	35
95	50	82	529	716022	2.0	1052	2.1	0.4	8	5	10	0	2	0	2	0	2	1	2	42	168	70
96	50	82	529	716026	2.0	376	2.7	0.3	7	5	8	0	2	0	2	0	2	1	2	60	106	35
97	50	82	529	716027	2.0	216	1.8	0.1	5	5	5	0	2	0	2	0	2	1	2	48	67	20
98	50	82	529	716029	2.0	214	1.9	0.4	9	5	15	0	2	0	2	0	2	1	2	74	173	42
99	50	82	529	716030	14.0	1279	6.7	1.5	13	10	36	0	2	0	2	0	2	3	2	198	1035	274
100	50	82	529	716032	3.0	762	2.7	0.5	9	5	13	0	2	0	2	0	2	1	2	50	130	33
101	50	82	529	716033	3.0	925	2.6	0.5	9	5	17	0	2	0	2	0	2	1	2	47	148	53
102	50	82	529	716035	2.0	1098	3.2	0.3	10	5	8	0	2	0	2	0	2	1	2	54	179	42
103	50	82	529	716036	2.0	828	2.6	0.5	8	5	15	0	2	0	2	0	2	1	2	48	164	59
104	50	82	529	716038	4.0	638	2.7	0.7	8	5	13	0	2	0	2	0	2	1	2	46	150	50
105	50	82	529	716039	3.0	659	2.5	0.4	8	5	15	0	2	0	2	0	2	1	2	47	126	49
106	50	82	529	716041	8.0	1488	4.1	0.9	12	5	26	0	2	0	2	0	2	1	2	66	257	67
107	50	82	529	716042	3.0	1565	2.7	0.5	11	5	7	0	2	0	2	0	2	1	2	49	237	71
108	50	82	529	716044	2.0	341	2.2	0.2	7	5	8	0	2	0	2	0	2	1	2	51	80	52

RECD	TY	YE	PRJ	ID	U	Mn	Fe%	Ag	Co	Au	As	Hg	Sb	Sn	W	F	Th	Cd	Bi	V	Ba	Sr
109	50	82	529	716045	2.0	1311	3.3	0.5	15	5	13	0	2	0	2	0	2	1	2	62	206	42
110	50	82	529	716048	2.0	239	3.9	0.2	7	5	14	0	2	0	2	0	2	1	2	79	78	14
111	50	82	529	716049	2.0	306	3.6	0.1	9	5	15	0	2	0	2	0	2	1	2	69	90	13
112	50	82	529	716051	2.0	198	2.7	0.3	7	5	8	0	2	0	2	0	2	1	2	57	99	31
113	50	82	529	716052	2.0	206	2.5	0.2	6	5	7	0	2	0	2	0	2	1	2	66	81	25
114	50	82	529	716054	2.0	231	3.7	0.3	6	5	13	0	2	0	2	0	2	1	2	76	63	11
115	50	82	529	716055	2.0	222	2.6	0.1	7	5	8	0	2	0	2	0	2	1	2	58	106	17
116	50	82	529	716057	2.0	386	2.5	0.2	7	5	10	0	2	0	2	0	2	1	2	58	79	24
117	50	82	529	716058	2.0	370	2.5	0.1	7	5	7	0	2	0	2	0	2	1	2	57	79	25
118	50	82	529	717024	2.0	410	2.4	0.2	8	5	5	0	2	0	2	0	2	1	2	54	135	42
119	50	82	529	717026	2.0	1510	2.7	0.5	12	5	5	0	2	0	2	0	2	1	2	55	341	53
120	50	82	529	717027	2.0	249	2.3	0.1	7	5	5	0	2	0	2	0	2	1	2	53	83	26
121	50	82	529	717029	2.0	694	2.3	0.3	10	5	4	0	2	0	2	0	2	1	2	47	104	40
122	50	82	529	717030	2.0	383	2.1	0.2	8	5	9	0	2	0	2	0	2	1	2	51	87	29
123	50	82	529	717033	2.0	495	2.3	0.2	8	5	8	0	2	0	2	0	2	1	2	50	119	34
124	50	82	529	717035	2.0	406	2.4	0.1	8	5	9	0	2	0	2	0	2	1	2	52	113	33
125	50	82	529	717036	2.0	599	3.0	0.2	11	5	30	0	2	0	2	0	2	1	2	56	90	32
126	50	82	529	717038	2.0	453	2.6	0.1	10	5	22	0	2	0	2	0	2	1	2	53	87	28
127	50	82	529	717040	9.0	1671	9.5	0.2	29	5	427	0	2	0	2	0	2	2	2	45	112	108
128	50	82	529	717041	2.0	1135	3.1	0.3	12	15	14	0	2	0	2	0	2	2	2	58	244	47
129	50	82	529	717043	2.0	478	3.0	0.1	11	5	15	0	2	0	2	0	2	1	2	60	132	31
130	50	82	529	717044	2.0	354	2.5	0.1	8	5	15	0	2	0	2	0	2	1	2	56	66	23
131	50	82	529	717049	2.0	384	2.5	0.2	9	5	15	0	2	0	2	0	2	1	2	51	90	35
132	50	82	529	717050	2.0	709	2.7	0.5	10	5	12	0	2	0	2	0	2	2	2	51	203	34
133	50	82	529	717052	2.0	741	2.7	0.3	10	5	15	0	2	0	2	0	2	1	2	53	153	32
134	50	82	529	717053	3.0	769	2.2	0.2	9	5	8	0	2	0	2	0	2	1	2	43	154	45
135	50	82	529	717056	2.0	185	2.1	0.1	5	5	9	0	2	0	2	0	2	1	2	51	60	13
136	50	82	529	717058	2.0	871	2.9	0.5	10	5	8	0	2	0	2	0	2	1	2	53	241	37
137	50	82	529	717059	2.0	636	3.0	0.2	13	5	11	0	2	0	2	0	2	1	2	67	167	36
138	50	82	529	717061	2.0	717	2.3	0.4	9	5	6	0	2	0	2	0	2	1	2	48	166	39
139	50	82	529	717063	2.0	414	2.4	0.2	9	5	8	0	2	0	2	0	2	1	2	53	79	25
140	50	82	529	717065	2.0	409	2.5	0.2	9	5	9	0	2	0	2	0	2	1	2	59	116	32
141	50	82	529	717067	2.0	264	2.5	0.2	8	5	7	0	2	0	2	0	2	1	2	54	111	27
142	50	82	529	717068	2.0	504	2.5	0.1	8	5	7	0	2	0	2	0	2	1	2	53	118	27
143	50	82	529	717070	2.0	547	2.5	0.1	8	5	5	0	2	0	2	0	2	2	2	56	139	37
144	50	82	529	717071	2.0	768	2.7	0.4	9	5	13	0	2	0	2	0	2	2	2	52	165	49
145	50	82	529	717074	2.0	247	2.9	0.2	10	5	9	0	2	0	2	0	2	2	2	66	124	21
146	50	82	529	717076	2.0	291	2.0	0.2	6	5	6	0	2	0	2	0	2	2	2	47	84	22
147	50	82	529	717077	2.0	265	2.9	0.2	8	5	2	0	2	0	2	0	2	2	2	55	106	14
148	50	82	529	717079	2.0	355	2.6	0.1	9	5	9	0	2	0	2	0	2	2	2	59	85	17

* ALL VALUES ARE IN PPM UNLESS INDICATED TO BE IN PERCENT, EXCEPT FOR HG AND AU, WHICH ARE IN PPB.

LISTING OF TATE CLAIMS 08:16 P.M. DEC. 01, 1982 PART 3 PAGE 1

RECD	TY	YE	PRJ	ID	SiO2%	Al%	Ca%	Mg%	Na%	K%	Fe%	Mn	Ti%	P%	La	In	B	Cr	Nb	Zr	Ce	ICPAu
1	10	82	529	714482	0.01	0.87	0.43	0.36	0.02	0.03	1.9	275	0.09	0.06	9	0	2	18	2	6	13	1
2	10	82	529	714484	0.01	0.87	0.44	0.34	0.02	0.03	1.7	259	0.09	0.06	8	0	2	16	2	5	13	1
3	10	82	529	714487	0.01	1.06	0.55	0.37	0.02	0.04	2.2	477	0.10	0.07	10	0	2	20	2	7	14	1
4	10	82	529	714490	0.01	0.89	0.45	0.33	0.02	0.03	1.8	300	0.09	0.06	8	0	2	16	2	6	11	1
5	10	82	529	714494	0.01	0.85	0.48	0.35	0.02	0.03	1.8	222	0.09	0.06	9	0	2	17	2	5	13	1
6	10	82	529	714498	0.01	0.87	0.49	0.34	0.02	0.04	1.8	220	0.09	0.06	8	0	3	17	2	5	12	1
7	10	82	529	714499	0.01	0.81	0.54	0.35	0.02	0.03	1.9	496	0.08	0.07	7	0	3	12	2	5	10	1
8	10	82	529	714500	0.01	0.87	0.46	0.35	0.02	0.03	1.7	270	0.08	0.06	8	0	3	16	2	6	14	1
9	10	82	529	714501	0.01	0.92	0.48	0.34	0.02	0.03	1.7	259	0.09	0.07	9	0	2	18	2	6	13	1
10	10	82	529	714504	0.01	0.91	0.46	0.35	0.02	0.03	1.7	271	0.08	0.06	9	0	2	16	2	5	10	1
11	10	82	529	714505	0.01	0.89	0.45	0.34	0.02	0.03	1.7	291	0.08	0.06	8	0	2	14	2	5	9	1
12	10	82	529	714506	0.01	1.03	0.67	0.36	0.02	0.05	2.0	486	0.09	0.07	9	0	3	20	2	5	11	1
13	10	82	529	714509	0.02	1.32	0.94	0.11	0.01	0.02	0.5	136	0.01	0.11	16	0	2	7	2	2	24	1
14	10	82	529	714512	0.02	3.23	1.72	0.48	0.02	0.10	1.8	813	0.02	0.15	26	0	2	22	2	3	39	1
15	10	82	529	714525	0.02	1.39	2.53	0.48	0.02	0.07	2.7	422	0.04	0.10	12	0	7	21	2	5	12	1
16	10	82	529	714528	0.01	1.47	0.93	0.53	0.02	0.06	3.2	580	0.07	0.08	12	0	6	24	2	5	15	1
17	10	82	529	716018	0.01	1.68	0.70	0.62	0.01	0.04	2.4	877	0.06	0.06	9	0	3	19	2	4	15	1
18	10	82	529	716023	0.01	1.66	0.79	0.66	0.01	0.04	2.4	1158	0.06	0.07	9	0	2	21	2	4	18	1
19	10	82	529	716028	0.01	1.83	0.82	0.78	0.01	0.04	2.5	312	0.06	0.10	10	0	2	26	2	5	17	1
20	10	82	529	716031	0.01	1.90	0.72	0.73	0.01	0.04	2.7	948	0.05	0.08	10	0	2	24	2	4	18	1
21	10	82	529	716034	0.01	2.09	0.84	0.67	0.01	0.04	2.9	957	0.04	0.09	12	0	2	27	2	4	22	1
22	10	82	529	716037	0.01	1.78	1.16	0.59	0.01	0.04	2.2	957	0.04	0.09	10	0	2	23	2	4	20	1
23	10	82	529	716040	0.01	2.14	1.29	0.70	0.01	0.05	3.1	4370	0.04	0.09	10	0	2	27	2	4	22	1
24	10	82	529	716043	0.02	2.33	1.70	0.72	0.01	0.06	3.1	4445	0.04	0.11	13	0	4	30	2	4	21	1
25	10	82	529	716046	0.01	2.04	0.51	0.54	0.01	0.04	2.7	371	0.08	0.03	11	0	3	23	2	5	20	1
26	10	82	529	716047	0.01	1.91	0.79	0.70	0.01	0.04	2.6	751	0.07	0.06	11	0	3	24	2	4	16	1
27	10	82	529	716050	0.01	1.72	0.78	0.67	0.02	0.04	2.3	690	0.08	0.07	10	0	4	19	2	4	15	1
28	10	82	529	716053	0.01	1.86	0.93	0.70	0.01	0.05	2.6	1079	0.07	0.08	10	0	4	22	2	4	18	1
29	10	82	529	716056	0.01	1.86	1.02	0.68	0.02	0.05	2.5	1182	0.06	0.09	11	0	4	22	2	4	17	1
30	10	82	529	717013	0.01	1.69	0.84	0.69	0.03	0.11	3.2	708	0.09	0.09	12	0	5	26	2	8	22	1
31	10	82	529	717014	0.01	1.55	1.03	0.64	0.02	0.07	2.8	508	0.08	0.08	11	0	5	23	2	7	20	1
32	10	82	529	717015	0.01	1.55	0.79	0.64	0.02	0.08	3.2	704	0.09	0.09	11	0	5	24	2	7	23	1
33	10	82	529	717016	0.01	1.58	0.77	0.63	0.02	0.06	3.2	773	0.08	0.08	11	0	4	22	2	6	23	1
34	10	82	529	717017	0.01	1.59	0.72	0.66	0.02	0.05	3.3	697	0.09	0.07	11	0	4	22	2	6	20	1
35	10	82	529	717018	0.01	0.95	0.69	0.47	0.02	0.05	2.4	514	0.08	0.06	9	0	4	18	2	9	18	1
36	10	82	529	717019	0.01	1.22	0.57	0.56	0.02	0.07	3.0	528	0.11	0.07	11	0	4	26	2	7	23	1
37	10	82	529	717020	0.01	1.54	0.75	0.66	0.02	0.06	3.2	717	0.10	0.07	10	0	4	25	2	6	22	1
38	10	82	529	717021	0.01	1.46	0.67	0.59	0.02	0.05	3.0	452	0.10	0.05	9	0	4	27	2	6	18	1
39	10	82	529	717022	0.01	1.57	0.78	0.55	0.02	0.06	2.5	480	0.09	0.07	13	0	4	25	2	7	22	1
40	10	82	529	717023	0.01	1.13	0.59	0.45	0.01	0.04	3.2	397	0.14	0.07	11	0	4	33	2	8	24	1
41	10	82	529	717025	0.01	1.46	0.68	0.53	0.02	0.05	2.6	445	0.10	0.06	12	0	4	25	2	6	21	1
42	10	82	529	717028	0.01	1.72	0.73	0.58	0.02	0.06	2.8	589	0.09	0.07	13	0	5	28	2	7	24	1
43	10	82	529	717031	0.01	1.46	0.65	0.50	0.01	0.04	2.3	467	0.09	0.06	11	0	3	22	2	6	22	1
44	10	82	529	717034	0.01	1.20	0.56	0.49	0.01	0.04	2.6	448	0.10	0.06	10	0	3	24	2	7	21	1
45	10	82	529	717037	0.01	1.30	1.00	0.70	0.02	0.07	3.1	651	0.07	0.08	9	0	4	26	2	6	19	1
46	10	82	529	717039	0.02	1.50	0.67	0.78	0.01	0.06	4.0	850	0.07	0.07	9	0	4	24	2	6	20	1
47	10	82	529	717042	0.01	1.25	0.86	0.62	0.02	0.06	2.9	603	0.07	0.08	9	0	4	26	2	7	20	1
48	10	82	529	717045	0.01	1.79	1.33	0.64	0.02	0.07	2.7	499	0.06	0.07	10	0	3	31	2	6	17	1
49	10	82	529	717048	0.01	1.53	0.93	0.61	0.01	0.06	2.5	447	0.06	0.06	8	0	2	31	2	5	16	1
50	10	82	529	717051	0.01	2.15	1.41	0.82	0.02	0.07	2.9	636	0.05	0.07	12	0	3	38	2	6	17	1
51	10	82	529	717054	0.01	2.11	1.11	0.71	0.01	0.06	3.0	660	0.06	0.07	14	0	3	28	2	6	20	1
52	10	82	529	717057	0.01	1.88	1.17	0.70	0.01	0.06	2.7	602	0.05	0.07	12	0	3	26	2	5	18	1
53	10	82	529	717060	0.01	1.30	0.82	0.61	0.01	0.06	2.6	535	0.07	0.07	9	0	3	21	2	5	18	1
54	10	82	529	717062	0.01	1.62	0.91	0.63	0.01	0.04	2.6	919	0.05	0.07	10	0	3	23	2	5	20	1

RECD	TY	YE	PRJ	ID	SiO2%	Al%	Ca%	Mg%	Na%	K%	Fe%	Mn	Ti%	P%	La	In	B	Cr	Nb	Zr	Ce	ICPAu
55	10	82	529	717066	0.01	1.26	0.63	0.50	0.01	0.04	2.2	470	0.08	0.06	11	0	2	22	2	6	21	1
56	10	82	529	717069	0.01	1.66	0.83	0.52	0.01	0.04	2.4	653	0.05	0.07	13	0	2	22	2	5	25	1
57	10	82	529	717072	0.01	1.71	0.40	0.58	0.01	0.04	2.8	440	0.09	0.08	11	0	3	27	2	5	22	1
58	10	82	529	717075	0.01	1.81	0.84	0.60	0.01	0.04	2.4	637	0.07	0.07	11	0	3	21	2	5	20	1
59	10	82	529	717078	0.01	1.75	0.78	0.64	0.01	0.03	2.5	833	0.06	0.07	11	0	3	20	2	5	19	1
60	50	82	529	714481	0.01	1.07	0.55	0.36	0.02	0.03	2.1	255	0.09	0.07	10	0	2	21	2	6	16	1
61	50	82	529	714483	0.01	1.07	0.48	0.33	0.02	0.04	2.1	221	0.08	0.06	8	0	2	19	2	5	12	1
62	50	82	529	714485	0.01	1.00	0.51	0.36	0.02	0.04	2.0	276	0.10	0.07	9	0	2	19	2	6	14	1
63	50	82	529	714486	0.01	1.03	0.47	0.36	0.02	0.05	2.2	237	0.10	0.06	10	0	2	19	2	6	15	1
64	50	82	529	714488	0.01	1.23	0.20	0.18	0.01	0.04	2.5	289	0.07	0.16	6	0	2	19	2	4	6	1
65	50	82	529	714489	0.01	1.02	0.23	0.16	0.01	0.05	1.7	374	0.06	0.11	6	0	2	13	2	3	6	1
66	50	82	529	714491	0.01	1.22	0.24	0.28	0.01	0.04	2.7	1204	0.09	0.07	6	0	2	20	2	4	7	1
67	50	82	529	714492	0.01	1.21	0.19	0.27	0.01	0.04	2.8	409	0.09	0.07	6	0	2	21	2	4	7	1
68	50	82	529	714493	0.01	0.88	0.44	0.37	0.02	0.04	1.7	228	0.08	0.06	8	0	2	15	2	5	12	1
69	50	82	529	714495	0.01	0.86	0.54	0.34	0.02	0.07	1.7	164	0.09	0.05	8	0	2	17	2	7	11	1
70	50	82	529	714496	0.01	0.89	0.63	0.33	0.02	0.05	1.6	212	0.09	0.06	8	0	2	16	2	6	12	1
71	50	82	529	714497	0.01	0.85	0.48	0.34	0.02	0.05	1.8	312	0.09	0.06	9	0	2	17	2	6	13	1
72	50	82	529	714502	0.01	1.08	0.85	0.42	0.02	0.04	1.9	290	0.07	0.07	9	0	3	20	2	5	12	1
73	50	82	529	714503	0.01	0.91	0.50	0.37	0.02	0.04	1.9	266	0.08	0.06	8	0	2	17	2	4	10	1
74	50	82	529	714507	0.01	0.99	0.60	0.39	0.02	0.03	2.0	350	0.08	0.06	9	0	3	17	2	5	11	1
75	50	82	529	714508	0.01	0.87	0.45	0.37	0.02	0.03	1.7	420	0.07	0.05	8	0	2	14	2	4	8	1
76	50	82	529	714510	0.01	2.04	0.24	0.52	0.01	0.05	2.6	341	0.10	0.07	8	0	3	24	2	5	10	1
77	50	82	529	714511	0.01	2.50	0.26	0.87	0.01	0.03	3.3	335	0.13	0.07	8	0	3	27	2	7	9	1
78	50	82	529	714513	0.02	2.39	0.19	0.52	0.01	0.06	4.8	501	0.05	0.11	13	0	3	22	2	3	18	1
79	50	82	529	714514	0.01	2.16	0.28	0.57	0.01	0.03	3.6	495	0.09	0.12	8	0	3	25	2	4	11	1
80	50	82	529	714515	0.02	3.85	1.57	0.70	0.02	0.07	3.0	866	0.04	0.10	21	0	2	28	2	5	25	1
81	50	82	529	714516	0.01	1.47	0.28	0.41	0.01	0.05	2.9	311	0.08	0.10	8	0	2	17	2	5	10	1
82	50	82	529	714517	0.01	1.46	0.30	0.32	0.01	0.06	2.6	635	0.07	0.15	7	0	2	17	2	3	8	1
83	50	82	529	714518	0.02	3.29	2.58	0.61	0.02	0.09	2.9	813	0.03	0.11	20	0	4	28	2	6	22	1
84	50	82	529	714519	0.01	1.36	0.99	0.47	0.01	0.08	2.5	1650	0.07	0.13	6	0	3	17	2	3	7	1
85	50	87	529	714520	0.01	1.55	0.42	0.46	0.01	0.09	2.8	889	0.06	0.06	8	0	2	14	2	3	8	1
86	50	82	529	714521	0.01	1.45	0.37	0.40	0.01	0.06	2.6	458	0.08	0.04	7	0	2	16	2	4	6	1
87	50	82	529	714522	0.02	2.19	1.86	0.74	0.02	0.07	2.2	569	0.03	0.09	16	0	3	22	2	5	10	1
88	50	82	529	714523	0.01	1.41	0.46	0.41	0.01	0.07	2.5	604	0.10	0.04	9	0	2	22	2	5	13	1
89	50	82	529	714524	0.01	1.48	1.30	0.52	0.01	0.10	2.8	1288	0.05	0.13	9	0	6	15	2	2	16	1
90	50	82	529	714526	0.03	1.43	1.23	0.56	0.02	0.06	4.6	812	0.06	0.08	12	0	8	21	2	5	17	1
91	50	82	529	714527	0.01	1.38	1.32	0.44	0.02	0.18	2.6	573	0.06	0.06	9	0	7	28	2	4	13	1
92	50	87	529	714529	0.01	1.73	0.88	0.53	0.02	0.05	3.2	606	0.08	0.08	14	0	5	29	2	6	16	1
93	50	82	529	714530	0.01	1.66	0.96	0.52	0.02	0.06	3.2	636	0.07	0.08	13	0	6	28	2	5	15	1
94	50	82	529	716021	0.01	1.17	0.55	0.48	0.02	0.08	2.3	385	0.07	0.07	10	0	3	20	2	8	22	1
95	50	82	529	716022	0.01	1.57	1.46	0.53	0.01	0.04	2.1	1052	0.04	0.07	11	0	3	19	2	4	20	1
96	50	82	529	716026	0.01	1.70	0.86	0.54	0.01	0.05	2.7	376	0.07	0.08	13	0	2	27	2	7	24	1
97	50	82	529	716027	0.01	1.01	0.32	0.43	0.01	0.03	1.8	216	0.11	0.03	8	0	2	16	2	5	13	1
98	50	82	529	716029	0.01	1.87	0.86	0.76	0.01	0.03	1.9	214	0.07	0.07	10	0	2	26	2	6	18	1
99	50	82	529	716030	0.02	5.63	4.68	0.59	0.04	0.10	6.7	1279	0.08	1.03	53	0	6	59	9	51	67	1
100	50	82	529	716032	0.01	2.27	0.73	0.71	0.01	0.04	2.7	762	0.05	0.09	12	0	2	27	2	4	21	1
101	50	82	529	716033	0.01	2.07	1.02	0.69	0.01	0.04	2.6	925	0.04	0.09	11	0	2	25	2	4	20	1
102	50	82	529	716035	0.02	2.65	0.60	0.66	0.02	0.08	3.2	1098	0.08	0.12	11	0	2	29	2	5	24	1
103	50	82	529	716036	0.01	2.15	1.08	0.67	0.01	0.04	2.6	828	0.04	0.09	11	0	2	27	2	4	20	1
104	50	82	529	716038	0.01	2.24	0.83	0.70	0.01	0.05	2.7	638	0.05	0.09	12	0	2	27	2	4	21	1
105	50	82	529	716039	0.01	1.89	0.83	0.69	0.01	0.04	2.5	659	0.05	0.07	11	0	2	24	2	4	17	1
106	50	82	529	716041	0.01	3.12	1.00	0.77	0.02	0.06	4.1	1488	0.04	0.11	17	0	2	36	3	6	35	1
107	50	82	529	716042	0.01	2.65	1.09	0.69	0.01	0.05	2.7	1565	0.03	0.10	22	0	2	26	4	3	55	1
108	50	82	529	716044	0.01	1.44	0.84	0.62	0.01	0.03	2.2	341	0.10	0.05	7	0	3	22	2	6	14	1

RECD	TY	YE	PRJ	ID	SiO2%	Al%	Ca%	Mg%	Na%	K%	Fe%	Mn	Ti%	P%	La	In	B	Cr	Nb	Zr	Ce	ICPAu
109	50	82	529	716045	0.01	2.87	0.86	0.61	0.01	0.06	3.3	1311	0.05	0.11	13	0	4	31	2	4	33	1
110	50	82	529	716048	0.03	2.40	0.24	0.55	0.01	0.03	3.9	239	0.09	0.17	7	0	4	24	2	5	13	1
111	50	82	529	716049	0.02	2.21	0.23	0.59	0.01	0.03	3.6	306	0.08	0.20	7	0	4	24	2	5	13	1
112	50	82	529	716051	0.01	1.67	0.56	0.47	0.01	0.04	2.7	198	0.08	0.05	8	0	4	21	2	5	15	1
113	50	82	529	716052	0.01	1.65	0.45	0.56	0.01	0.02	2.5	206	0.10	0.02	6	0	4	20	2	6	10	1
114	50	82	529	716054	0.02	2.39	0.18	0.50	0.01	0.03	3.7	231	0.09	0.25	6	0	6	22	2	5	12	1
115	50	82	529	716055	0.01	1.74	0.27	0.56	0.01	0.03	2.6	222	0.12	0.08	9	0	3	23	2	7	16	1
116	50	82	529	716057	0.01	1.47	0.45	0.70	0.01	0.03	2.5	386	0.12	0.07	10	0	3	21	2	5	16	1
117	50	82	529	716058	0.01	1.36	0.54	0.65	0.01	0.04	2.5	370	0.13	0.07	9	0	4	22	2	5	20	1
118	50	82	529	717024	0.01	1.16	0.63	0.36	0.01	0.07	2.4	410	0.08	0.06	9	0	4	22	2	5	19	1
119	50	82	529	717026	0.01	1.89	0.76	0.37	0.01	0.11	2.7	1510	0.03	0.19	8	0	4	23	2	2	18	1
120	50	82	529	717027	0.01	1.04	0.37	0.39	0.01	0.09	2.3	249	0.09	0.03	11	0	4	22	2	8	22	1
121	50	82	529	717029	0.01	1.35	0.67	0.46	0.01	0.13	2.3	694	0.03	0.06	7	0	4	26	2	3	15	1
122	50	82	529	717030	0.01	1.14	0.43	0.43	0.01	0.05	2.1	383	0.08	0.05	10	0	3	20	2	6	17	1
123	50	82	529	717033	0.01	1.40	0.69	0.51	0.01	0.04	2.3	495	0.08	0.07	11	0	3	24	2	6	21	1
124	50	82	529	717035	0.01	1.17	0.48	0.51	0.02	0.06	2.4	406	0.08	0.07	13	0	3	22	2	7	26	1
125	50	82	529	717036	0.01	1.13	0.75	0.58	0.01	0.06	3.0	599	0.08	0.06	9	0	4	24	2	7	18	1
126	50	82	529	717038	0.01	1.04	0.56	0.52	0.01	0.07	2.6	453	0.07	0.06	9	0	3	22	2	7	18	1
127	50	82	529	717040	0.08	2.15	3.65	1.06	0.02	0.18	9.5	1671	0.01	0.09	12	0	4	11	2	5	27	1
128	50	82	529	717041	0.01	1.74	0.86	0.56	0.02	0.34	3.1	1135	0.07	0.16	10	0	5	27	2	7	22	1
129	50	82	529	717043	0.01	1.57	0.66	0.66	0.02	0.05	3.0	478	0.07	0.06	10	0	4	29	2	7	20	1
130	50	82	529	717044	0.01	1.14	0.50	0.44	0.01	0.10	2.5	354	0.08	0.05	7	0	3	21	2	4	11	1
131	50	82	529	717049	0.01	1.35	1.14	0.50	0.01	0.05	2.5	384	0.06	0.06	6	0	3	26	2	4	12	1
132	50	82	529	717050	0.01	1.90	1.33	0.74	0.01	0.08	2.7	709	0.05	0.07	9	0	4	37	2	5	14	1
133	50	82	529	717052	0.01	1.95	1.14	0.79	0.02	0.06	2.7	741	0.05	0.06	10	0	3	37	2	6	15	1
134	50	82	529	717053	0.02	1.62	1.89	0.57	0.01	0.08	2.2	769	0.04	0.09	11	0	4	22	2	5	16	1
135	50	82	529	717056	0.01	0.99	0.23	0.33	0.01	0.03	2.1	185	0.08	0.05	6	0	2	17	2	4	10	1
136	50	82	529	717058	0.01	2.30	0.93	0.63	0.01	0.07	2.9	871	0.06	0.08	19	0	3	27	2	7	27	1
137	50	82	529	717059	0.01	1.68	0.70	0.76	0.01	0.07	3.0	636	0.08	0.07	8	0	3	27	2	4	16	1
138	50	82	529	717061	0.01	1.57	1.18	0.53	0.01	0.05	2.3	717	0.05	0.06	13	0	2	20	2	5	20	1
139	50	82	529	717063	0.01	1.02	0.44	0.41	0.01	0.07	2.4	414	0.08	0.06	8	0	3	21	2	5	19	1
140	50	82	529	717065	0.01	1.11	0.43	0.48	0.01	0.06	2.5	409	0.11	0.08	11	0	3	24	2	9	24	1
141	50	82	529	717067	0.01	1.41	0.35	0.47	0.01	0.04	2.5	264	0.10	0.07	11	0	2	24	2	7	20	1
142	50	82	529	717068	0.01	1.46	0.37	0.54	0.01	0.05	2.5	504	0.09	0.07	11	0	3	23	2	5	21	1
143	50	82	529	717070	0.01	1.45	0.50	0.54	0.01	0.05	2.5	547	0.10	0.07	15	0	3	23	2	7	31	1
144	50	82	529	717071	0.01	2.05	0.97	0.64	0.01	0.05	2.7	768	0.06	0.07	13	0	2	25	2	6	26	1
145	50	82	529	717074	0.01	1.86	0.33	0.48	0.01	0.05	2.9	247	0.09	0.12	10	0	3	25	2	8	19	1
146	50	82	529	717076	0.01	1.25	0.34	0.47	0.01	0.03	2.0	291	0.10	0.05	10	0	2	21	2	5	16	1
147	50	82	529	717077	0.01	2.09	0.27	0.54	0.01	0.05	2.9	265	0.07	0.16	8	0	3	28	2	5	13	1
148	50	82	529	717079	0.01	1.48	0.26	0.47	0.01	0.03	2.6	355	0.09	0.08	9	0	3	26	2	7	16	1

* ALL VALUES ARE IN PPM UNLESS INDICATED TO BE IN PERCENT.

Appendix 3

Summary Statistics for Both the Soil and Silt Surveys on the TATE Claims

ARITHMETIC SUMMARY STATISTICS NON TRUNCATED DATA SET

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

ELEMENTS	Mo	Cu	Pb	Zn	Ni	U	Mn	Fe	Ag	Co	Au
NO OF SAMPLES	10	89	89	89	89	13	89	89	61	89	5
DETECTION LIMIT	1.00	2.00	2.00	2.00	2.00	2.00	10.00	0.10	0.10	2.00	5.00
MINIMUM VALUE	2.00	3.00	3.00	32.00	6.00	3.00	164.00	1.60	0.20	3.00	10.00
MAXIMUM VALUE	9.00	329.00	30.00	242.00	54.00	14.00	1671.00	9.50	1.50	29.00	15.00
RANGE	7.00	326.00	27.00	210.00	48.00	11.00	1507.00	7.90	1.30	26.00	5.00
MEDIAN	0.0	17.00	8.00	55.00	13.00	0.0	420.00	2.60	0.30	8.00	0.0
MODE	0.0	15.00	9.00	56.00	12.00	0.0	636.00	2.50	0.20	8.00	0.0
MEAN	0.0	27.22	7.87	64.73	15.43	0.0	574.12	2.73	0.35	8.57	0.0
ST DEVIATION	0.0	37.41	3.46	33.87	7.97	0.0	373.03	1.03	0.23	3.22	0.0
MEAN + 2SD	0.0	102.04	14.79	132.48	31.36	0.0	1320.18	4.79	0.81	15.01	0.0
COEFF VARIATION	0.0	1.37	0.44	0.52	0.52	0.0	0.65	0.38	0.66	0.38	0.0
SKEWNESS	0.0	6.22	3.43	2.71	2.62	0.0	1.32	4.01	2.68	3.06	0.0
KURTOSIS	0.0	46.19	18.88	8.82	8.80	0.0	1.05	21.57	9.29	16.59	0.0
2.5 PERCENTILE	0.0	4.00	3.00	34.00	7.00	0.0	185.00	1.70	0.20	5.00	0.0
5.0 PERCENTILE	0.0	5.00	4.00	36.00	8.00	0.0	206.00	1.70	0.20	5.00	0.0
16.5 PERCENTILE	0.0	11.00	5.00	42.00	10.00	0.0	249.00	2.10	0.20	6.00	0.0
50.0 PERCENTILE	0.0	17.00	8.00	55.00	13.00	0.0	420.00	2.60	0.30	8.00	0.0
82.2 PERCENTILE	0.0	38.00	9.00	79.00	20.00	0.0	828.00	3.00	0.50	10.00	0.0
90.0 PERCENTILE	0.0	47.00	10.00	94.00	22.00	0.0	1135.00	3.30	0.50	12.00	0.0
95.0 PERCENTILE	0.0	58.00	11.00	151.00	28.00	0.0	1488.00	4.10	0.70	13.00	0.0
97.5 PERCENTILE	0.0	96.00	12.00	156.00	42.00	0.0	1565.00	4.80	0.90	15.00	0.0
99.0 PERCENTILE	0.0	110.00	21.00	166.00	49.00	0.0	1650.00	6.70	0.90	15.00	0.0

ELEMENTS	As	Cd	V	Ba	Sr	Si%	Al%	Ca%	Mg%	Na%	K%
NO OF SAMPLES	86	13	89	89	89	12	89	89	89	28	89
DETECTION LIMIT	2.00	1.00	2.00	3.00	2.00	0.01	0.01	0.01	0.01	0.01	0.01
MINIMUM VALUE	4.00	2.00	35.00	51.00	11.00	0.02	0.85	0.18	0.16	0.02	0.02
MAXIMUM VALUE	427.00	3.00	198.00	1035.00	274.00	0.08	5.63	4.68	1.06	0.04	0.34
RANGE	423.00	1.00	163.00	984.00	263.00	0.06	4.78	4.50	0.90	0.02	0.32
MEDIAN	9.00	0.0	53.00	102.00	32.00	0.0	1.47	0.55	0.52	0.02	0.05
MODE	8.00	0.0	53.00	90.00	14.00	0.0	1.57	0.86	0.52	0.02	0.05
MEAN	16.42	0.0	54.06	127.54	37.33	0.0	1.67	0.75	0.52	0.02	0.06
ST DEVIATION	45.36	0.0	18.00	112.46	31.00	0.0	0.73	0.68	0.15	0.00	0.04
MEAN + 2SD	107.14	0.0	90.06	352.45	99.32	0.0	3.13	2.11	0.83	0.03	0.14
COEFF VARIATION	2.76	0.0	0.33	0.88	0.83	0.0	0.44	0.90	0.29	0.18	0.69
SKEWNESS	8.77	0.0	5.84	6.12	5.23	0.0	2.33	3.37	0.46	5.00	4.17
KURTOSIS	76.89	0.0	44.22	46.01	36.56	0.0	8.90	14.59	0.80	23.04	23.34
2.5 PERCENTILE	4.00	0.0	35.00	52.00	12.00	0.0	0.86	0.19	0.18	0.02	0.03
5.0 PERCENTILE	4.00	0.0	38.00	55.00	13.00	0.0	0.88	0.20	0.28	0.02	0.03
16.5 PERCENTILE	5.00	0.0	44.00	68.00	17.00	0.0	1.04	0.28	0.37	0.02	0.03
50.0 PERCENTILE	9.00	0.0	53.00	102.00	32.00	0.0	1.47	0.55	0.52	0.02	0.05
82.2 PERCENTILE	15.00	0.0	60.00	165.00	49.00	0.0	2.16	1.02	0.66	0.02	0.07
90.0 PERCENTILE	20.00	0.0	66.00	203.00	61.00	0.0	2.39	1.30	0.70	0.02	0.09
95.0 PERCENTILE	30.00	0.0	71.00	244.00	71.00	0.0	2.87	1.86	0.76	0.02	0.11
97.5 PERCENTILE	36.00	0.0	76.00	264.00	79.00	0.0	3.29	2.58	0.79	0.02	0.18
99.0 PERCENTILE	41.00	0.0	79.00	341.00	108.00	0.0	3.85	3.65	0.87	0.04	0.18

ARITHMETIC SUMMARY STATISTICS NON TRUNCATED DATA SET

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

ELEMENTS	Ti%	P%	La	B	Cr	Nb	Zr	Ce
NO OF SAMPLES	88	89	89	24	89	2	80	89
DETECTION LIMIT	0.01	0.01	2.00	3.00	3.00	3.00	3.00	3.00
MINIMUM VALUE	0.03	0.02	6.00	4.00	11.00	4.00	4.00	6.00
MAXIMUM VALUE	0.13	1.03	53.00	8.00	59.00	9.00	51.00	67.00
RANGE	0.10	1.01	47.00	4.00	48.00	5.00	47.00	61.00
MEDIAN	0.08	0.07	9.00	4.00	22.00	0.0	5.00	16.00
MODE	0.08	0.07	8.00	4.00	22.00	0.0	5.00	16.00
MEAN	0.07	0.09	10.47	4.71	23.01	0.0	6.01	17.24
ST DEVIATION	0.02	0.11	5.62	1.16	6.30	0.0	5.23	9.08
MEAN + 2SD	0.12	0.31	21.71	7.03	35.62	0.0	16.48	35.40
COEFF VARIATION	0.31	1.15	0.54	0.25	0.27	0.0	0.87	0.53
SKEWNESS	-0.03	7.58	5.18	1.44	2.20	0.0	8.08	2.74
KURTOSIS	-0.28	63.10	35.27	1.01	10.60	0.0	67.05	11.43
2.5 PERCENTILE	0.03	0.03	6.00	4.00	13.00	0.0	4.00	6.00
5.0 PERCENTILE	0.03	0.04	6.00	4.00	14.00	0.0	4.00	7.00
16.5 PERCENTILE	0.05	0.06	7.00	4.00	17.00	0.0	4.00	10.00
50.0 PERCENTILE	0.08	0.07	9.00	4.00	22.00	0.0	5.00	16.00
82.2 PERCENTILE	0.09	0.11	12.00	6.00	27.00	0.0	7.00	22.00
90.0 PERCENTILE	0.10	0.13	13.00	6.00	28.00	0.0	7.00	25.00
95.0 PERCENTILE	0.11	0.17	19.00	7.00	31.00	0.0	8.00	31.00
97.5 PERCENTILE	0.12	0.20	21.00	7.00	37.00	0.0	8.00	35.00
99.0 PERCENTILE	0.13	0.25	22.00	8.00	37.00	0.0	9.00	55.00

LOGARITHMIC SUMMARY STATISTICS NON TRUNCATED DATA SET

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

ELEMENTS	Ti%	P%	La	B	Cr	Nb	Zr	Ce
NO OF SAMPLES	88	89	89	24	89	2	80	89
DETECTION LIMIT	0.01	0.01	2.00	3.00	3.00	3.00	3.00	3.00
MINIMUM VALUE	0.03	0.02	6.00	4.00	11.00	4.00	4.00	6.00
MAXIMUM VALUE	0.13	1.03	53.00	8.00	59.00	9.00	51.00	67.00
RANGE	0.10	1.01	47.00	4.00	48.00	5.00	47.00	61.00
MEDIAN	0.08	0.07	9.00	4.00	22.00	0.0	5.00	16.00
MODE	0.08	0.07	8.00	4.00	22.00	0.0	5.00	16.00
MEAN	0.07	0.08	9.73	4.59	22.29	1.00	5.47	15.54
LOG ST DEV	0.15	0.22	0.15	0.09	0.11	0.0	0.14	0.19
MEAN + 2SD	0.14	0.21	19.42	7.10	36.70	1.00	10.61	37.90
COEFF VARIATION	-0.13	-0.20	0.15	0.14	0.08	0.0	0.20	0.16
SKEWNESS	-0.82	1.57	1.61	1.21	0.29	0.0	3.86	0.24
KURTOSIS	0.15	7.22	5.37	0.07	2.06	0.0	23.81	0.90
2.5 PERCENTILE	0.03	0.03	6.00	4.00	13.00	0.0	4.00	6.00
5.0 PERCENTILE	0.03	0.04	6.00	4.00	14.00	0.0	4.00	7.00
16.5 PERCENTILE	0.05	0.06	7.00	4.00	17.00	0.0	4.00	10.00
50.0 PERCENTILE	0.08	0.07	9.00	4.00	22.00	0.0	5.00	16.00
82.2 PERCENTILE	0.09	0.11	12.00	6.00	27.00	0.0	7.00	22.00
90.0 PERCENTILE	0.10	0.13	13.00	6.00	28.00	0.0	7.00	25.00
95.0 PERCENTILE	0.11	0.17	19.00	7.00	31.00	0.0	8.00	31.00
97.5 PERCENTILE	0.12	0.20	21.00	7.00	37.00	0.0	8.00	35.00
99.0 PERCENTILE	0.13	0.25	22.00	8.00	37.00	0.0	9.00	55.00

ARITHMETIC CORRELATION MATRIX NON TRUNCATED DATA SET

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

CORRELATION COEFFICIENTS

	Cu	Pb	Zn	Ni	U	Mn	Fe	Ag	Co	Au	As	Cd	V	Ba	Sr	Si%	Al%	Ca%	Mg%	Na%
Mo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cu		0.66	0.22	0.74	0.0	0.44	0.64	0.76	0.45	0.0	0.32	0.0	0.70	0.86	0.92	0.0	0.73	0.86	0.35	0.89
Pb			0.57	0.70	0.0	0.52	0.87	0.37	0.78	0.0	0.75	0.0	0.43	0.49	0.60	0.0	0.58	0.67	0.58	0.43
Zn				0.38	0.0	0.59	0.65	-0.03	0.75	0.0	0.60	0.0	0.04	0.15	0.16	0.0	0.24	0.28	0.27	-0.05
Ni					0.0	0.51	0.73	0.52	0.64	0.0	0.47	0.0	0.37	0.56	0.67	0.0	0.59	0.70	0.53	0.47
U						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mn							0.48	0.48	0.71	0.0	0.35	0.0	0.13	0.53	0.54	0.0	0.49	0.56	0.41	0.32
Fe								0.29	0.78	0.0	0.78	0.0	0.49	0.43	0.52	0.0	0.58	0.60	0.51	0.44
Ag									0.13	0.0	-0.03	0.0	0.51	0.82	0.77	0.0	0.84	0.68	0.36	0.0
Co										0.0	0.75	0.0	0.19	0.35	0.44	0.0	0.38	0.56	0.58	0.18
Au											0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
As												0.0	0.01	0.04	0.30	0.0	0.15	0.51	0.45	0.02
Cd													0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V														0.76	0.59	0.0	0.63	0.38	0.17	0.97
Ba															0.87	0.0	0.77	0.71	0.26	0.94
Sr																0.0	0.65	0.90	0.33	0.92
Si%																	0.0	0.0	0.0-	0.0
Al%																		0.61	0.57	0.69
Ca%																			0.47	0.70
Mg%																				0.08

CORRELATION COEFFICIENTS

	K%	Ti%	P%	La	B	Cr	Nb	Zr	Ce
Mo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cu	0.28	-0.23	0.83	0.89	0.31	0.64	0.0	0.85	0.66
Pb	0.42	-0.24	0.43	0.48	0.08	0.38	0.0	0.41	0.51
Zn	0.52	-0.29	0.12	-0.01	-0.01	-0.10	0.0	-0.06	0.04
Ni	0.34	-0.36	0.46	0.63	0.58	0.54	0.0	0.45	0.54
U	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mn	0.45	-0.59	0.29	0.40	0.13	0.28	0.0	0.21	0.49
Fe	0.33	-0.11	0.49	0.44	0.18	0.32	0.0	0.41	0.43
Ag	0.09	-0.49	0.66	0.84	0.0	0.69	0.0	0.63	0.68
Co	0.48	-0.40	0.22	0.27	0.03	0.21	0.0	0.17	0.42
Au	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
As	0.33	-0.30	0.06	0.09	-0.07	-0.14	0.0	0.03	0.16
Cd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.03	0.19	0.86	0.65	0.14	0.69	0.0	0.86	0.54
Ba	0.27	-0.27	0.87	0.88	0.15	0.74	0.0	0.88	0.74
Sr	0.32	-0.32	0.77	0.86	0.28	0.58	0.0	0.81	0.73
Si%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Al%	0.12	-0.33	0.68	0.76	0.10	0.74	0.0	0.56	0.64
Ca%	0.38	-0.46	0.58	0.74	0.18	0.46	0.0	0.59	0.58
Mg%	0.13	-0.23	0.07	0.32	-0.16	0.45	0.0	0.05	0.42
Na%	0.08	0.09	0.99	0.91	0.0	0.73	0.0	0.99	0.83
K%		-0.28	0.16	0.14	0.15	0.13	0.0	0.14	0.19
Ti%			-0.06	-0.23	-0.04	-0.20	0.0	0.09	-0.22
P%				0.76	0.26	0.61	0.0	0.91	0.56
La					0.25	0.69	0.0	0.85	0.84
B						0.15	0.0	0.22	0.10
Cr							0.0	0.64	0.63
Nb								0.0	0.0
Zr									0.72

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

NUMBER OF OBSERVATIONS

	Cu	Pb	Zn	Ni	U	Mn	Fe	Ag	Co	Au	As	Cd	V	Ba	Sr	Si%	Al%	Ca%	Mg%	Na%
Mo	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
Cu		89	89	89	89	89	89	61	89	89	86	89	89	89	89	89	89	89	89	28
Pb			89	89	89	89	89	61	89	89	86	89	89	89	89	89	89	89	89	28
Zn				89	89	89	89	61	89	89	86	89	89	89	89	89	89	89	89	28
Ni					89	89	89	61	89	89	86	89	89	89	89	89	89	89	89	28
U						89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
Mn							89	61	89	89	86	89	89	89	89	89	89	89	89	28
Fe								61	89	89	86	89	89	89	89	89	89	89	89	28
Ag									61	89	60	89	61	61	61	89	61	61	61	89
Co										89	86	89	89	89	89	89	89	89	89	28
Au											89	89	89	89	89	89	89	89	89	89
As												89	86	86	86	89	86	86	86	28
Cd													89	89	89	89	89	89	89	89
V														89	89	89	89	89	89	28
Ba															89	89	89	89	89	28
Sr																89	89	89	89	28
Si%																	89	89	89	89
Al%																		89	89	28
Ca%																			89	28
Mg%																				28

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

NUMBER OF OBSERVATIONS

	K%	Ti%	P%	La	B	Cr	Nb	Zr	Ce
Mo	89	89	89	89	89	89	89	89	89
Cu	89	88	89	89	24	89	89	80	89
Pb	89	88	89	89	24	89	89	80	89
Zn	89	88	89	89	24	89	89	80	89
Ni	89	88	89	89	24	89	89	80	89
U	89	89	89	89	89	89	89	89	89
Mn	89	88	89	89	24	89	89	80	89
Fe	89	88	89	89	24	89	89	80	89
Ag	61	60	61	61	89	61	89	53	61
Co	89	88	89	89	24	89	89	80	89
Au	89	89	89	89	89	89	89	89	89
As	86	85	86	86	24	86	89	78	86
Cd	89	89	89	89	89	89	89	89	89
V	89	88	89	89	24	89	89	80	89
Ba	89	88	89	89	24	89	89	80	89
Sr	89	88	89	89	24	89	89	80	89
Si%	89	89	89	89	89	89	89	89	89
Al%	89	88	89	89	24	89	89	80	89
Ca%	89	88	89	89	24	89	89	80	89
Mg%	89	88	89	89	24	89	89	80	89
Na%	28	27	28	28	89	28	89	28	28
K%		88	89	89	24	89	89	80	89
Ti%			88	88	23	88	89	79	88
P%				89	24	89	89	80	89
La					24	89	89	80	89
B						24	89	21	24
Cr							89	80	89
Nb								89	89
Zr									80

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

LOGARITHMIC CORRELATION MATRIX NON TRUNCATED DATA SET

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

CORRELATION COEFFICIENTS

	Cu	Pb	Zn	Ni	U	Mn	Fe	Ag	Co	Au	As	Cd	V	Ba	Sr	Si%	Al%	Ca%	Mg%	Na%
Mo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cu		0.68	0.42	0.88	0.0	0.62	0.64	0.66	0.73	0.0	0.66	0.0	0.28	0.71	0.72	0.0	0.69	0.76	0.72	0.50
Pb			0.54	0.67	0.0	0.48	0.76	0.38	0.69	0.0	0.68	0.0	0.46	0.55	0.39	0.0	0.67	0.40	0.58	0.37
Zn				0.41	0.0	0.56	0.66	0.08	0.67	0.0	0.54	0.0	0.18	0.37	0.09	0.0	0.43	0.14	0.24	-0.03
Ni					0.0	0.60	0.70	0.56	0.72	0.0	0.70	0.0	0.26	0.63	0.65	0.0	0.64	0.66	0.67	0.38
U						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mn							0.48	0.56	0.70	0.0	0.41	0.0	0.05	0.72	0.60	0.0	0.52	0.61	0.41	0.29
Fe								0.24	0.72	0.0	0.79	0.0	0.57	0.45	0.23	0.0	0.69	0.25	0.50	0.44
Ag									0.22	0.0	0.19	0.0	0.15	0.77	0.65	0.0	0.75	0.61	0.45	0.0
Co										0.0	0.67	0.0	0.30	0.60	0.49	0.0	0.52	0.51	0.63	0.24
Au											0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
As												0.0	0.21	0.26	0.32	0.0	0.48	0.41	0.57	0.23
Cd													0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V														0.41	-0.03	0.0	0.52	-0.09	0.24	0.86
Ba															0.66	0.0	0.73	0.63	0.48	0.65
Sr																0.0	0.36	0.94	0.46	0.69
Si%																	0.0	0.0	0.0	0.0
Al%																		0.38	0.66	0.50
Ca%																			0.52	0.51
Mg%																				0.11

CORRELATION COEFFICIENTS

	K%	Ti%	P%	La	B	Cr	Nb	Zr	Ce
Mo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cu	0.46	-0.48	0.40	0.75	0.43	0.55	0.0	0.37	0.64
Pb	0.40	-0.27	0.35	0.42	0.18	0.44	0.0	0.29	0.49
Zn	0.48	-0.31	0.41	0.03	0.05	0.00	0.0	-0.11	0.03
Ni	0.42	-0.44	0.37	0.68	0.50	0.58	0.0	0.27	0.61
U	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mn	0.55	-0.64	0.38	0.46	0.20	0.29	0.0	0.02	0.40
Fe	0.32	-0.12	0.55	0.38	0.27	0.37	0.0	0.28	0.38
Ag	0.19	-0.66	0.46	0.73	0.0	0.55	0.0	0.27	0.56
Co	0.53	-0.37	0.35	0.39	0.09	0.35	0.0	0.21	0.53
Au	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
As	0.32	-0.28	0.35	0.30	0.27	0.13	0.0	0.11	0.24
Cd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	-0.06	0.27	0.50	0.23	0.07	0.59	0.0	0.57	0.31
Ba	0.41	-0.52	0.56	0.69	0.03	0.65	0.0	0.44	0.65
Sr	0.47	-0.52	0.21	0.69	0.29	0.34	0.0	0.37	0.64
Si%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Al%	0.15	-0.42	0.61	0.59	0.08	0.66	0.0	0.24	0.49
Ca%	0.49	-0.59	0.17	0.63	0.22	0.32	0.0	0.24	0.53
Mg%	0.11	-0.25	0.12	0.48	-0.13	0.52	0.0	0.10	0.57
Na%	0.17	0.10	0.87	0.73	0.0	0.54	0.0	0.92	0.60
K%		-0.40	0.22	0.26	0.18	0.12	0.0	0.21	0.26
Ti%			-0.24	-0.36	0.07	-0.23	0.0	0.22	-0.25
P%				0.36	0.30	0.39	0.0	0.41	0.27
La					0.26	0.54	0.0	0.59	0.81
B						0.13	0.0	0.17	0.02
Cr							0.0	0.42	0.56
Nb								0.0	0.0
Zr									0.54

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

NUMBER OF OBSERVATIONS

	Cu	Pb	Zn	Ni	U	Mn	Fe	Ag	Co	Au	As	Cd	V	Ba	Sr	Si%	Al%	Ca%	Mg%	Na%
Mo	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
Cu		89	89	89	89	89	89	61	89	89	86	89	89	89	89	89	89	89	89	28
Pb			89	89	89	89	89	61	89	89	86	89	89	89	89	89	89	89	89	28
Zn				89	89	89	89	61	89	89	86	89	89	89	89	89	89	89	89	28
Ni					89	89	89	61	89	89	86	89	89	89	89	89	89	89	89	28
U						89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
Mn							89	61	89	89	86	89	89	89	89	89	89	89	89	28
Fe								61	89	89	86	89	89	89	89	89	89	89	89	28
Ag									61	89	60	89	61	61	61	89	61	61	61	89
Co										89	86	89	89	89	89	89	89	89	89	28
Au											89	89	89	89	89	89	89	89	89	89
As												89	86	86	86	89	86	86	86	28
Cd													89	89	89	89	89	89	89	89
V														89	89	89	89	89	89	28
Ba															89	89	89	89	89	28
Sr																89	89	89	89	28
Si%																	89	89	89	89
Al%																		89	89	28
Ca%																			89	28
Mg%																				28

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

NUMBER OF OBSERVATIONS

	K%	Ti%	P%	La	B	Cr	Nb	Zr	Ce
Mo	89	89	89	89	89	89	89	89	89
Cu	89	88	89	89	24	89	89	80	89
Pb	89	88	89	89	24	89	89	80	89
Zn	89	88	89	89	24	89	89	80	89
Ni	89	88	89	89	24	89	89	80	89
U	89	89	89	89	89	89	89	89	89
Mn	89	88	89	89	24	89	89	80	89
Fe	89	88	89	89	24	89	89	80	89
Ag	61	60	61	61	89	61	89	53	61
Co	89	88	89	89	24	89	89	80	89
Au	89	89	89	89	89	89	89	89	89
As	86	85	86	86	24	86	89	78	86
Cd	89	89	89	89	89	89	89	89	89
V	89	88	89	89	24	89	89	80	89
Ba	89	88	89	89	24	89	89	80	89
Sr	89	88	89	89	24	89	89	80	89
Si%	89	89	89	89	89	89	89	89	89
Al%	89	88	89	89	24	89	89	80	89
Ca%	89	88	89	89	24	89	89	80	89
Mg%	89	88	89	89	24	89	89	80	89
Na%	28	27	28	28	89	28	89	28	28
K%		88	89	89	24	89	89	80	89
Ti%			88	88	23	88	89	79	88
P%				89	24	89	89	80	89
La					24	89	89	80	89
B						24	89	21	24
Cr							89	80	89
Nb								89	89
Zr									80

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

T=0.214 DR=0 $.75, $9.16T

LOGARITHMIC SUMMARY STATISTICS NON TRUNCATED DATA SET

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

ELEMENTS	Cu	Pb	Zn	Ni	U	Mn	Fe	Ag	Co	Au	As
NO OF SAMPLES	59	57	59	59	11	59	59	49	58	5	58
DETECTION LIMIT	2.00	2.00	2.00	2.00	2.00	10.00	0.10	0.10	2.00	5.00	2.00
MINIMUM VALUE	5.00	3.00	19.00	7.00	3.00	136.00	0.50	0.20	5.00	10.00	3.00
MAXIMUM VALUE	104.00	21.00	95.00	57.00	10.00	4445.00	4.00	0.90	15.00	35.00	45.00
RANGE	99.00	18.00	76.00	50.00	7.00	4309.00	3.50	0.70	10.00	25.00	42.00
MEDIAN	20.00	7.00	53.00	16.00	0.0	535.00	2.60	0.30	9.00	0.0	10.00
MODE	27.00	7.00	58.00	15.00	0.0	957.00	3.20	0.20	9.00	0.0	10.00
MEAN	19.14	7.11	52.36	15.08	1.00	563.21	2.44	0.28	8.31	1.00	10.30
LOG ST DEV	0.25	0.17	0.12	0.16	0.0	0.26	0.13	0.17	0.10	0.0	0.24
MEAN + 2SD	60.61	15.26	90.61	30.90	1.00	1866.51	4.39	0.61	13.35	1.00	31.08
COEFF VARIATION	0.20	0.19	0.07	0.13	0.0	0.09	0.33	-0.30	0.11	0.0	0.24
SKEWNESS	-0.00	0.12	-0.63	0.36	0.0	0.96	-2.70	0.96	-0.30	0.0	-0.10
KURTOSIS	0.40	0.08	1.87	1.95	0.0	3.09	12.16	0.44	-0.23	0.0	0.38
2.5 PERCENTILE	5.00	3.00	19.00	7.00	0.0	136.00	0.50	0.20	5.00	0.0	3.00
5.0 PERCENTILE	7.00	4.00	36.00	8.00	0.0	222.00	1.70	0.20	5.00	0.0	3.00
16.5 PERCENTILE	9.00	5.00	38.00	9.00	0.0	300.00	1.80	0.20	6.00	0.0	6.00
50.0 PERCENTILE	20.00	7.00	53.00	16.00	0.0	535.00	2.60	0.30	9.00	0.0	10.00
82.2 PERCENTILE	28.00	10.00	67.00	19.00	0.0	850.00	3.10	0.40	10.00	0.0	16.00
90.0 PERCENTILE	37.00	11.00	76.00	21.00	0.0	957.00	3.20	0.50	11.00	0.0	19.00
95.0 PERCENTILE	44.00	13.00	79.00	23.00	0.0	1158.00	3.20	0.60	11.00	0.0	24.00
97.5 PERCENTILE	54.00	14.00	84.00	27.00	0.0	4370.00	3.30	0.70	12.00	0.0	30.00
99.0 PERCENTILE	54.00	14.00	84.00	27.00	0.0	4370.00	3.30	0.90	12.00	0.0	30.00

ELEMENTS	V	Ba	Sr	Al%	Ca%	Mg%	Na%	K%	Ti%	P%	La
NO OF SAMPLES	59	59	59	59	59	59	33	59	58	59	59
DETECTION LIMIT	2.00	3.00	2.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.00
MINIMUM VALUE	11.00	52.00	25.00	0.81	0.40	0.11	0.02	0.02	0.02	0.03	7.00
MAXIMUM VALUE	84.00	290.00	106.00	3.23	2.53	0.82	0.03	0.11	0.14	0.15	26.00
RANGE	73.00	238.00	81.00	2.42	2.13	0.71	0.01	0.09	0.12	0.12	19.00
MEDIAN	49.00	118.00	38.00	1.55	0.78	0.59	0.02	0.04	0.08	0.07	10.00
MODE	59.00	134.00	38.00	0.87	0.93	0.70	0.02	0.04	0.09	0.07	11.00
MEAN	47.82	112.89	38.27	1.45	0.76	0.53	0.02	0.05	0.07	0.07	10.41
LOG ST DEV	0.13	0.15	0.13	0.13	0.16	0.15	0.03	0.15	0.14	0.10	0.09
MEAN + 2SD	85.72	227.63	70.15	2.68	1.62	1.04	0.02	0.09	0.14	0.11	15.58
COEFF VARIATION	0.08	0.07	0.08	0.83	-1.40	-0.53	-0.02	-0.11	-0.13	-0.09	0.09
SKEWNESS	-2.15	-0.03	1.23	-0.24	0.63	-1.97	5.48	0.14	-1.18	-0.10	1.54
KURTOSIS	9.15	0.28	1.88	-0.42	0.66	6.18	28.03	-0.10	2.27	3.89	5.66
2.5 PERCENTILE	11.00	52.00	25.00	0.81	0.40	0.11	0.02	0.02	0.02	0.03	7.00
5.0 PERCENTILE	32.00	60.00	26.00	0.87	0.44	0.34	0.02	0.03	0.04	0.06	8.00
16.5 PERCENTILE	37.00	71.00	28.00	0.92	0.49	0.35	0.02	0.03	0.05	0.06	9.00
50.0 PERCENTILE	49.00	118.00	38.00	1.55	0.78	0.59	0.02	0.04	0.08	0.07	10.00
82.2 PERCENTILE	59.00	147.00	46.00	1.86	1.02	0.70	0.02	0.06	0.09	0.09	12.00
90.0 PERCENTILE	63.00	159.00	51.00	2.04	1.17	0.70	0.02	0.07	0.10	0.09	13.00
95.0 PERCENTILE	68.00	170.00	65.00	2.14	1.41	0.73	0.02	0.07	0.10	0.10	13.00
97.5 PERCENTILE	69.00	269.00	87.00	2.33	1.72	0.78	0.02	0.10	0.11	0.11	16.00
99.0 PERCENTILE	69.00	269.00	87.00	2.33	1.72	0.78	0.03	0.10	0.11	0.11	16.00

LOGARITHMIC SUMMARY STATISTICS NON TRUNCATED DATA SET

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

ELEMENTS	B	Cr	Zr	Ce
NO OF SAMPLES	22	59	57	59
DETECTION LIMIT	3.00	3.00	3.00	3.00
MINIMUM VALUE	4.00	7.00	4.00	9.00
MAXIMUM VALUE	7.00	38.00	9.00	39.00
RANGE	3.00	31.00	5.00	30.00
MEDIAN	4.00	23.00	5.00	19.00
MODE	4.00	22.00	5.00	20.00
MEAN	4.35	21.99	5.43	17.79
LOG ST DEV	0.07	0.11	0.09	0.12
MEAN + 2SD	5.96	37.12	8.21	30.64
COEFF VARIATION	0.11	0.08	0.12	0.09
SKEWNESS	1.77	-1.52	0.14	-0.39
KURTOSIS	2.20	4.95	-0.58	0.50
2.5 PERCENTILE	4.00	7.00	4.00	9.00
5.0 PERCENTILE	4.00	14.00	4.00	10.00
16.5 PERCENTILE	4.00	18.00	4.00	13.00
50.0 PERCENTILE	4.00	23.00	5.00	19.00
82.2 PERCENTILE	5.00	27.00	7.00	22.00
90.0 PERCENTILE	5.00	28.00	7.00	23.00
95.0 PERCENTILE	6.00	31.00	7.00	24.00
97.5 PERCENTILE	6.00	33.00	8.00	25.00
99.0 PERCENTILE	7.00	33.00	8.00	25.00

ARITHMETIC SUMMARY STATISTICS NON TRUNCATED DATA SET

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

ELEMENTS	B	Cr	Zr	Ce
NO OF SAMPLES	22	59	57	59
DETECTION LIMIT	3.00	3.00	3.00	3.00
MINIMUM VALUE	4.00	7.00	4.00	9.00
MAXIMUM VALUE	7.00	38.00	9.00	39.00
RANGE	3.00	31.00	5.00	30.00
MEDIAN	4.00	23.00	5.00	19.00
MODE	4.00	22.00	5.00	20.00
MEAN	4.41	22.66	5.54	18.42
ST DEVIATION	0.80	5.19	1.17	4.91
MEAN + 2SD	6.00	33.05	7.88	28.24
COEFF VARIATION	0.18	0.23	0.21	0.27
SKEWNESS	2.04	-0.07	0.61	0.86
KURTOSIS	3.50	1.19	0.11	3.60
2.5 PERCENTILE	4.00	7.00	4.00	9.00
5.0 PERCENTILE	4.00	14.00	4.00	10.00
16.5 PERCENTILE	4.00	18.00	4.00	13.00
50.0 PERCENTILE	4.00	23.00	5.00	19.00
82.2 PERCENTILE	5.00	27.00	7.00	22.00
90.0 PERCENTILE	5.00	28.00	7.00	23.00
95.0 PERCENTILE	6.00	31.00	7.00	24.00
97.5 PERCENTILE	6.00	33.00	8.00	25.00
99.0 PERCENTILE	7.00	33.00	8.00	25.00

ARITHMETIC CORRELATION MATRIX NON TRUNCATED DATA SET

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

CORRELATION COEFFICIENTS

	Pb	Zn	Ni	U	Mn	Fe	Ag	Co	Au	As	V	Ba	Sr	Al%	Ca%	Mg%	Na%	K%	Ti%	P%
Cu	0.31	0.53	0.86	0.0	0.15	0.28	0.50	0.31	0.0	0.33	-0.07	0.41	0.58	0.49	0.90	0.31	0.04	0.55	-0.56	0.56
Pb		0.77	0.39	0.0	0.23	0.79	-0.11	0.88	0.0	0.87	0.56	0.35	0.18	0.32	0.24	0.62	0.25	0.55	-0.07	0.17
Zn			0.60	0.0	0.31	0.73	0.27	0.72	0.0	0.72	0.46	0.48	0.43	0.62	0.51	0.66	0.23	0.77	-0.34	0.47
Ni				0.0	0.32	0.51	0.40	0.34	0.0	0.43	0.11	0.39	0.66	0.42	0.82	0.46	0.06	0.50	-0.47	0.42
U					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mn						0.33	0.49	0.28	0.0	0.28	-0.00	0.79	0.76	0.47	0.42	0.41	0.16	0.16	-0.44	0.37
Fe							-0.18	0.91	0.0	0.71	0.82	0.40	0.17	0.38	0.23	0.79	0.23	0.56	-0.02	0.02
Ag								-0.18	0.0	-0.04	-0.53	0.68	0.74	0.75	0.68	0.11	-0.12	0.19	-0.74	0.77
Co									0.0	0.75	0.73	0.48	0.16	0.40	0.23	0.77	0.22	0.57	-0.05	0.20
Au										0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
As											0.38	0.30	0.24	0.24	0.25	0.58	0.19	0.47	-0.20	0.18
V												0.08	-0.24	0.13	-0.16	0.56	0.19	0.41	0.48	-0.27
Ba													0.71	0.82	0.60	0.63	0.17	0.38	-0.62	0.56
Sr														0.55	0.79	0.28	0.11	0.31	-0.60	0.68
Al%															0.59	0.66	0.12	0.48	-0.65	0.54
Ca%																0.37	0.02	0.54	-0.68	0.64
Mg%																	0.22	0.49	-0.44	0.16
Na%																		0.49	0.09	0.17
K%																			-0.19	0.45
Ti%																				-0.54

CORRELATION COEFFICIENTS

	La	B	Cr	Zr	Ce
Cu	0.50	0.82	0.32	-0.09	0.25
Pb	0.12	-0.11	0.47	0.24	0.39
Zn	0.43	0.31	0.50	0.10	0.55
Ni	0.25	0.78	0.42	-0.16	0.15
U	0.0	0.0	0.0	0.0	0.0
Mn	0.12	-0.17	0.30	-0.35	0.22
Fe	-0.01	-0.00	0.74	0.21	0.32
Ag	0.64	0.23	0.04	-0.61	0.39
Co	0.17	-0.27	0.63	0.23	0.52
Au	0.0	0.0	0.0	0.0	0.0
As	-0.02	0.03	0.31	0.05	0.16
V	-0.09	-0.45	0.67	0.52	0.33
Ba	0.47	-0.16	0.53	-0.28	0.57
Sr	0.41	0.38	0.18	-0.33	0.28
Al%	0.70	-0.03	0.53	-0.37	0.66
Ca%	0.50	0.65	0.36	-0.20	0.28
Mg%	0.08	-0.33	0.72	-0.19	0.32
Na%	0.08	0.0	0.14	0.34	0.14
K%	0.46	0.42	0.55	0.39	0.49
Ti%	-0.38	-0.35	-0.13	0.62	-0.18
P%	0.68	0.43	0.08	-0.16	0.52
La		0.41	0.17	0.10	0.77
B			-0.14	-0.05	-0.45
Cr				0.16	0.39
Zr					0.29

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

NUMBER OF OBSERVATIONS

	Pb	Zn	Ni	U	Mn	Fe	Ag	Co	Au	As	V	Ba	Sr	Al%	Ca%	Mg%	Na%	K%	Ti%	P%
Cu	57	59	59	59	59	59	49	58	59	58	59	59	59	59	59	59	33	59	58	59
Pb		57	57	59	57	57	48	56	59	56	57	57	57	57	57	57	31	57	56	57
Zn			59	59	59	59	49	58	59	58	59	59	59	59	59	59	33	59	58	59
Ni				59	59	59	49	58	59	58	59	59	59	59	59	59	33	59	58	59
U					59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
Mn						59	49	58	59	58	59	59	59	59	59	59	33	59	58	59
Fe							49	58	59	58	59	59	59	59	59	59	33	59	58	59
Ag								48	59	49	49	49	49	49	49	49	23	49	48	49
Co									59	57	58	58	58	58	58	58	33	58	58	58
Au										59	59	59	59	59	59	59	59	59	59	59
As											58	58	58	58	58	58	32	58	57	58
V												59	59	59	59	59	33	59	58	59
Ba													59	59	59	59	33	59	58	59
Sr														59	59	59	33	59	58	59
Al%															59	59	33	59	58	59
Ca%																59	33	59	58	59
Mg%																	33	59	58	59
Na%																		33	33	33
K%																			58	59
Ti%																				58

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

NUMBER OF OBSERVATIONS

	La	B	Cr	Zr	Ce
Cu	59	22	59	57	59
Pb	57	22	57	55	57
Zn	59	22	59	57	59
Ni	59	22	59	57	59
U	59	59	59	59	59
Mn	59	22	59	57	59
Fe	59	22	59	57	59
Ag	49	21	49	47	49
Co	58	22	58	57	58
Au	59	59	59	59	59
As	58	22	58	56	58
V	59	22	59	57	59
Ba	59	22	59	57	59
Sr	59	22	59	57	59
Al%	59	22	59	57	59
Ca%	59	22	59	57	59
Mg%	59	22	59	57	59
Na%	33	59	33	32	33
K%	59	22	59	57	59
Ti%	58	22	58	57	58
P%	59	22	59	57	59
La		22	59	57	59
B			22	22	22
Cr				57	59
Zr					57

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

LOGARITHMIC CORRELATION MATRIX NON TRUNCATED DATA SET

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

CORRELATION COEFFICIENTS

	Pb	Zn	Ni	U	Mn	Fe	Ag	Co	Au	As	V	Ba	Sr	Al%	Ca%	Mg%	Na%	K%	Ti%	P%
Cu	0.61	0.62	0.82	0.0	0.43	0.34	0.58	0.65	0.0	0.55	0.10	0.72	0.63	0.74	0.88	0.47	0.11	0.65	-0.60	0.55
Pb		0.80	0.67	0.0	0.51	0.71	-0.09	0.87	0.0	0.75	0.57	0.56	0.33	0.53	0.45	0.67	0.22	0.67	-0.14	0.23
Zn			0.80	0.0	0.62	0.81	0.13	0.77	0.0	0.74	0.61	0.55	0.44	0.65	0.53	0.80	0.22	0.81	-0.40	0.33
Ni				0.0	0.62	0.68	0.44	0.62	0.0	0.66	0.39	0.63	0.65	0.68	0.76	0.72	0.11	0.70	-0.51	0.41
U					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mn						0.59	0.46	0.54	0.0	0.56	0.32	0.75	0.67	0.67	0.56	0.70	0.16	0.43	-0.55	0.38
Fe							-0.18	0.91	0.0	0.67	0.89	0.39	0.13	0.42	0.26	0.88	0.21	0.65	-0.03	-0.04
Ag								-0.14	0.0	0.05	-0.49	0.67	0.72	0.68	0.71	0.08	-0.15	0.08	-0.84	0.64
Co									0.0	0.68	0.78	0.65	0.27	0.58	0.43	0.82	0.21	0.65	-0.07	0.27
Au										0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
As											0.44	0.46	0.39	0.44	0.46	0.68	0.19	0.64	-0.25	0.21
V												0.18	-0.19	0.23	-0.06	0.74	0.18	0.53	0.42	-0.28
Ba													0.66	0.90	0.72	0.61	0.17	0.48	-0.62	0.51
Sr														0.61	0.80	0.27	0.14	0.35	-0.66	0.67
Al%															0.69	0.67	0.15	0.51	-0.64	0.41
Ca%																0.43	0.06	0.60	-0.74	0.62
Mg%																	0.20	0.62	-0.37	0.10
Na%																		0.37	0.08	0.20
K%																			-0.25	0.35
Ti%																				-0.58

CORRELATION COEFFICIENTS

	La	B	Cr	Zr	Ce
Cu	0.62	0.74	0.46	-0.08	0.51
Pb	0.29	-0.04	0.61	0.23	0.56
Zn	0.36	0.35	0.69	0.06	0.51
Ni	0.39	0.70	0.67	-0.17	0.40
U	0.0	0.0	0.0	0.0	0.0
Mn	0.22	-0.24	0.51	-0.40	0.41
Fe	0.00	0.03	0.84	0.17	0.31
Ag	0.51	0.23	-0.00	-0.67	0.19
Co	0.34	-0.25	0.74	0.20	0.68
Au	0.0	0.0	0.0	0.0	0.0
As	0.07	0.16	0.47	-0.05	0.21
V	-0.07	-0.48	0.79	0.48	0.32
Ba	0.58	-0.16	0.53	-0.25	0.70
Sr	0.51	0.41	0.18	-0.36	0.34
Al%	0.68	0.02	0.57	-0.35	0.68
Ca%	0.55	0.57	0.39	-0.22	0.39
Mg%	0.10	-0.31	0.82	-0.19	0.37
Na%	0.12	0.0	0.14	0.30	0.16
K%	0.40	0.47	0.67	0.33	0.47
Ti%	-0.47	-0.36	-0.19	0.62	-0.26
P%	0.54	0.43	0.05	-0.16	0.37
La		0.43	0.21	0.09	0.72
B			-0.11	-0.00	-0.47
Cr				0.14	0.44
Zr					0.23

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

NUMBER OF OBSERVATIONS

	Pb	Zn	Ni	U	Mn	Fe	Ag	Co	Au	As	V	Ba	Sr	Al%	Ca%	Mg%	Na%	K%	Ti%	P%
Cu	57	59	59	59	59	59	49	58	59	58	59	59	59	59	59	59	33	59	58	59
Pb		57	57	59	57	57	48	56	59	56	57	57	57	57	57	57	31	57	56	57
Zn			59	59	59	59	49	58	59	58	59	59	59	59	59	59	33	59	58	59
Ni				59	59	59	49	58	59	58	59	59	59	59	59	59	33	59	58	59
U					59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
Mn						59	49	58	59	58	59	59	59	59	59	59	33	59	58	59
Fe							49	58	59	58	59	59	59	59	59	59	33	59	58	59
Ag								48	59	49	49	49	49	49	49	49	23	49	48	49
Co									59	57	58	58	58	58	58	58	33	58	58	58
Au										59	59	59	59	59	59	59	59	59	59	59
As											58	58	58	58	58	58	32	58	57	58
V												59	59	59	59	59	33	59	58	59
Ba													59	59	59	59	33	59	58	59
Sr														59	59	59	33	59	58	59
Al%															59	59	33	59	58	59
Ca%																59	33	59	58	59
Mg%																	33	59	58	59
Na%																		33	33	33
K%																			58	59
Ti%																				58

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

NUMBER OF OBSERVATIONS

	La	B	Cr	Zr	Ce
Cu	59	22	59	57	59
Pb	57	22	57	55	57
Zn	59	22	59	57	59
Ni	59	22	59	57	59
U	59	59	59	59	59
Mn	59	22	59	57	59
Fe	59	22	59	57	59
Ag	49	21	49	47	49
Co	58	22	58	57	58
Au	59	59	59	59	59
As	58	22	58	56	58
V	59	22	59	57	59
Ba	59	22	59	57	59
Sr	59	22	59	57	59
Al%	59	22	59	57	59
Ca%	59	22	59	57	59
Mg%	59	22	59	57	59
Na%	33	59	33	32	33
K%	59	22	59	57	59
Ti%	58	22	58	57	58
P%	59	22	59	57	59
La		22	59	57	59
B			22	22	22
Cr				57	59
Zr					57

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7
PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

T=0.200 DR=0 $.73, $8.11T

Appendix 4

Histograms for Trace Element Distributions.
Histograms Selected on the Basis of Coefficient
of Variations Less Than 0.7 (Arithmetic)
or Greater Than 0.7 (Logarithmic)

LOGARITHMIC VALUES NON TRUNCATED DATA SET

INTERVAL(STDV/F) 0.081 NO.SAMPLES 89

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Cu

INTERVAL PPM		%	C%
2.05			
		0.0	0.0
2.47			
		0.0	0.0
2.98			
	*	1.1	1.1
3.59			
	*	1.1	2.2
4.33			
	**	2.2	4.5
5.22			
	**	2.2	6.7
6.30			
	***	3.4	10.1
7.60			
	*	1.1	11.2
9.16			
	********	9.0	20.2
11.04			
	*****	5.6	25.8
13.32			
	**********	19.1	44.9
16.06			
	**********	13.5	58.4
19.36			
	******	6.7	65.2
23.34			
	********	9.0	74.2
28.15			
	****	4.5	78.7
33.94			
	*****	5.6	84.3
40.93			
	******	6.7	91.0
49.35			
	****	4.5	95.5
59.51			
		0.0	95.5
71.75			
	*	1.1	96.6
86.52			
	*	1.1	97.8
104.32			
	*	1.1	98.9
125.79			
		0.0	98.9
151.68			
		0.0	98.9
182.89			

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES — NON TRUNCATED DATA SET

INTERVAL INCREMENT 0.866 NO. SAMPLES 89

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Pb

INTERVAL PPM		%	C%
0.07			
		0.0	0.0
0.94			
		0.0	0.0
1.80			
		0.0	0.0
2.67			
	**	2.2	2.2
3.53			
	********	9.0	11.2
4.40			
	*******	7.9	19.1
5.27			
	************	13.5	32.6
6.13			
		0.0	32.6
7.00			
	**********	12.4	44.9
7.87			
	**************	15.7	60.7
8.73			
	**********************	24.7	85.4
9.60			
	******	6.7	92.1
10.46			
	***	3.4	95.5
11.33			
	**	2.2	97.8
12.20			
		0.0	97.8
13.06			
		0.0	97.8
13.93			
		0.0	97.8
14.79			
		0.0	97.8
15.66			
		0.0	97.8
16.53			
		0.0	97.8
17.39			
		0.0	97.8
18.26			
		0.0	97.8
19.13			
		0.0	97.8
19.99			
		0.0	97.8
20.86			

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES — NON TRUNCATED DATA SET

INTERVAL INCREMENT 8.468 NO. SAMPLES 89

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Zn

INTERVAL PPM		%	C%
5.45			
		0.0	0.0
13.92			
		0.0	0.0
22.39			
		0.0	0.0
30.86			
	******	6.7	6.7
39.33			
	**********	22.5	29.2
47.79			
	**********	27.0	56.2
56.26			
	**********	13.5	69.7
64.73			
	**********	10.1	79.8
73.20			
	****	4.5	84.3
81.67			
	**	2.2	86.5
90.14			
	****	4.5	91.0
98.60			
	*	1.1	92.1
107.07			
		0.0	92.1
115.54			
	*	1.1	93.3
124.01			
		0.0	93.3
132.48			
		0.0	93.3
140.94			
		0.0	93.3
149.41			
	****	4.5	97.8
157.88			
	*	1.1	98.9
166.35			
		0.0	98.9
174.82			
		0.0	98.9
183.29			
		0.0	98.9
191.75			
		0.0	98.9
200.22			
		0.0	98.9
208.69			

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

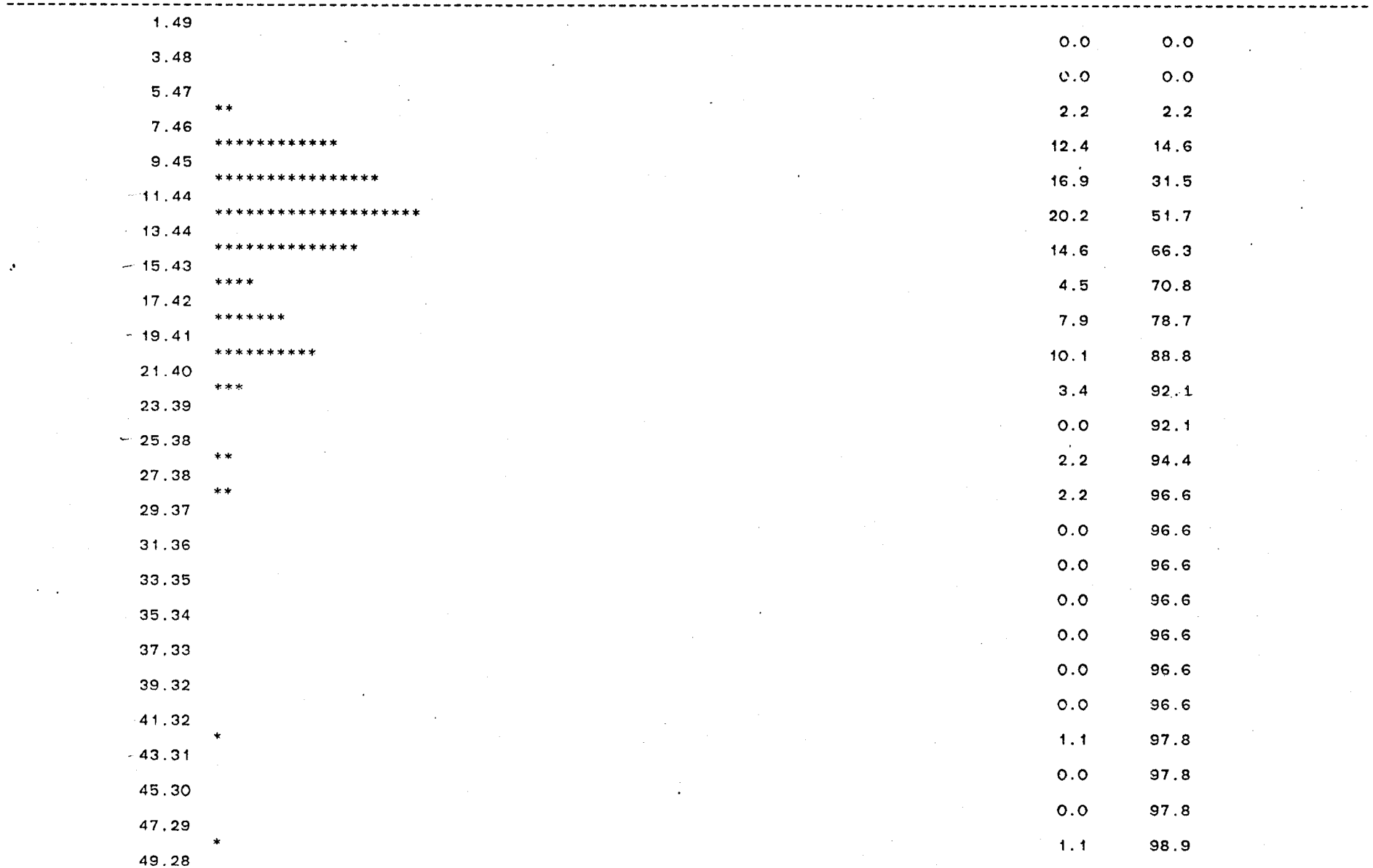
ARITHMETIC VALUES — NON TRUNCATED DATA SET

INTERVAL INCREMENT 1.991 NO. SAMPLES 89

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Ni



ARITHMETIC VALUES — NON TRUNCATED DATA SET

INTERVAL INCREMENT 0.100 NO. SAMPLES 61

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Ag

INTERVAL PPM		%	C%
0.10		0.0	0.0
0.20	**********	45.9	45.9
0.30	**********	21.3	67.2
0.40	*********	9.8	77.0
0.50	**********	13.1	90.2
0.60		0.0	90.2
0.70	****	4.9	95.1
0.80		0.0	95.1
0.90	***	3.3	98.4
1.00		0.0	98.4
1.10		0.0	98.4
1.20		0.0	98.4
1.30		0.0	98.4
1.40		0.0	98.4
1.50	*	1.6	100.0
1.60		0.0	100.0
1.70		0.0	100.0
1.80		0.0	100.0
1.90		0.0	100.0
2.00		0.0	100.0
2.10		0.0	100.0
2.20		0.0	100.0
2.30		0.0	100.0
2.40		0.0	100.0
2.50		0.0	100.0

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

LOGARITHMIC VALUES NON TRUNCATED DATA SET

INTERVAL(STDV/F) 0.073 NO.SAMPLES 86

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

As

INTERVAL PPM		%	C%
1.40			
		0.0	0.0
1.66			
		0.0	0.0
1.96			
		0.0	0.0
2.31			
		0.0	0.0
2.73			
		0.0	0.0
3.23			
		0.0	0.0
3.82			
	*****	5.8	5.8
4.51			
	**********	10.5	16.3
5.34			
	****	4.7	20.9
6.31			
	******	7.0	27.9
7.46			
	**********	14.0	41.9
8.81			
	**********	14.0	55.8
10.42			
	*****	5.8	61.6
12.31			
	**********	11.6	73.3
14.56			
	**********	14.0	87.2
17.21			
	**	2.3	89.5
20.34			
	***	3.5	93.0
24.04			
	*	1.2	94.2
28.42			
	*	1.2	95.3
33.59			
	**	2.3	97.7
39.70			
	*	1.2	98.8
46.93			
		0.0	98.8
55.48			
		0.0	98.8
65.57			
		0.0	98.8
77.51			

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES — NON TRUNCATED DATA SET

INTERVAL INCREMENT 0.257 NO. SAMPLES 89

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Fe

INTERVAL PPM		%	C%
0.16			
0.42		0.0	0.0
0.68		0.0	0.0
0.93		0.0	0.0
1.19		0.0	0.0
1.45		0.0	0.0
1.71	*****	5.6	5.6
1.96	*****	5.6	11.2
2.22	**********	13.5	24.7
2.48	********	9.0	33.7
2.73	**********	36.0	69.7
2.99	********	9.0	78.7
3.25	********	9.0	87.6
3.51	**	2.2	89.9
3.76	***	3.4	93.3
4.02	*	1.1	94.4
4.28	*	1.1	95.5
4.53		0.0	95.5
4.79	*	1.1	96.6
5.05	*	1.1	97.8
5.31		0.0	97.8
5.56		0.0	97.8
5.82		0.0	97.8
6.08		0.0	97.8
6.33		0.0	97.8

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES — NON TRUNCATED DATA SET

INTERVAL INCREMENT 93.256 NO. SAMPLES 89

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Mn

INTERVAL PPM		%	C%
14.59			
		0.0	0.0
107.84			
	***	3.4	3.4
201.10			
	**********	22.5	25.8
294.35			
	**********	18.0	43.8
387.61			
	**********	10.1	53.9
480.87			
	*******	7.9	61.8
574.12			
	********	9.0	70.8
667.38			
	****	4.5	75.3
760.64			
	******	6.7	82.0
853.89			
	****	4.5	86.5
947.15			
		0.0	86.5
1040.41			
	**	2.2	88.8
1133.66			
	**	2.2	91.0
1226.92			
	***	3.4	94.4
1320.17			
		0.0	94.4
1413.43			
	*	1.1	95.5
1506.69			
	**	2.2	97.8
1599.94			
	**	2.2	100.0
1693.20			
		0.0	100.0
1786.46			
		0.0	100.0
1879.71			
		0.0	100.0
1972.97			
		0.0	100.0
2066.23			
		0.0	100.0
2159.48			
		0.0	100.0
2252.74			

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES — NON TRUNCATED DATA SET

INTERVAL INCREMENT 1.576 NO. SAMPLES 89

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Cr

INTERVAL PPM		%	C%
4.10			
		0.0	0.0
5.68			
		0.0	0.0
7.25			
		0.0	0.0
8.83			
		0.0	0.0
10.40			
	*	1.1	1.1
11.98			
	*	1.1	2.2
13.56			
	****	4.5	6.7
15.13			
	***	3.4	10.1
16.71			
	********	9.0	19.1
18.28			
	*****	5.6	24.7
19.86			
	**********	15.7	40.4
21.44			
	**********	16.9	57.3
23.01			
	********	9.0	66.3
24.59			
	**********	10.1	76.4
26.16			
	********	9.0	85.4
27.74			
	********	9.0	94.4
29.32			
		0.0	94.4
30.89			
	*	1.1	95.5
32.47			
		0.0	95.5
34.04			
		0.0	95.5
35.62			
	***	3.4	98.9
37.19			
		0.0	98.9
38.77			
		0.0	98.9
40.35			
		0.0	98.9
41.92			

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES — NON TRUNCATED DATA SET

INTERVAL INCREMENT 0.182 NO. SAMPLES 89

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Al%

INTERVAL PPM		%	C%
0.03		0.0	0.0
0.21		0.0	0.0
0.40		0.0	0.0
0.58		0.0	0.0
0.76	******	6.7	6.7
0.94	**********	14.6	21.3
1.12	**********	11.2	32.6
1.31	**********	20.2	52.8
1.49	*******	7.9	60.7
1.67	******	6.7	67.4
1.85	******	6.7	74.2
2.03	**********	10.1	84.3
2.22	*****	5.6	89.9
2.40	**	2.2	92.1
2.58	**	2.2	94.4
2.76	*	1.1	95.5
2.94	*	1.1	96.6
3.13	*	1.1	97.8
3.31		0.0	97.8
3.49		0.0	97.8
3.67	*	1.1	98.9
3.85		0.0	98.9
4.04		0.0	98.9
4.22		0.0	98.9
4.40			

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES — NON TRUNCATED DATA SET

INTERVAL INCREMENT 0.100 NO. SAMPLES 89

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

K%

INTERVAL PPM		%	C%
0.10	*******	7.9	98.9
0.20		0.0	98.9
0.30	*	1.1	100.0
0.40		0.0	100.0
0.50		0.0	100.0
0.60		0.0	100.0
0.70		0.0	100.0
0.80		0.0	100.0
0.90		0.0	100.0
1.00		0.0	100.0
1.10		0.0	100.0
1.20		0.0	100.0
1.30		0.0	100.0
1.40		0.0	100.0
1.50		0.0	100.0
1.60		0.0	100.0
1.70		0.0	100.0
1.80		0.0	100.0
1.90		0.0	100.0
2.00		0.0	100.0
2.10		0.0	100.0
2.20		0.0	100.0
2.30		0.0	100.0
2.40		0.0	100.0
2.50		0.0	100.0

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES — NON TRUNCATED DATA SET

INTERVAL INCREMENT 0.100 NO. SAMPLES 89

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Mg%

INTERVAL PPM		%	C%
0.10	**	2.2	2.2
0.20	**	2.2	4.5
0.30	**********	18.0	22.5
0.40	**********	21.3	43.8
0.50	**********	29.2	73.0
0.60	**********	13.5	86.5
0.70	**********	11.2	97.8
0.80	*	1.1	98.9
0.90		0.0	98.9
1.00	*	1.1	100.0
1.10		0.0	100.0
1.20		0.0	100.0
1.30		0.0	100.0
1.40		0.0	100.0
1.50		0.0	100.0
1.60		0.0	100.0
1.70		0.0	100.0
1.80		0.0	100.0
1.90		0.0	100.0
2.00		0.0	100.0
2.10		0.0	100.0
2.20		0.0	100.0
2.30		0.0	100.0
2.40		0.0	100.0
2.50		0.0	100.0

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

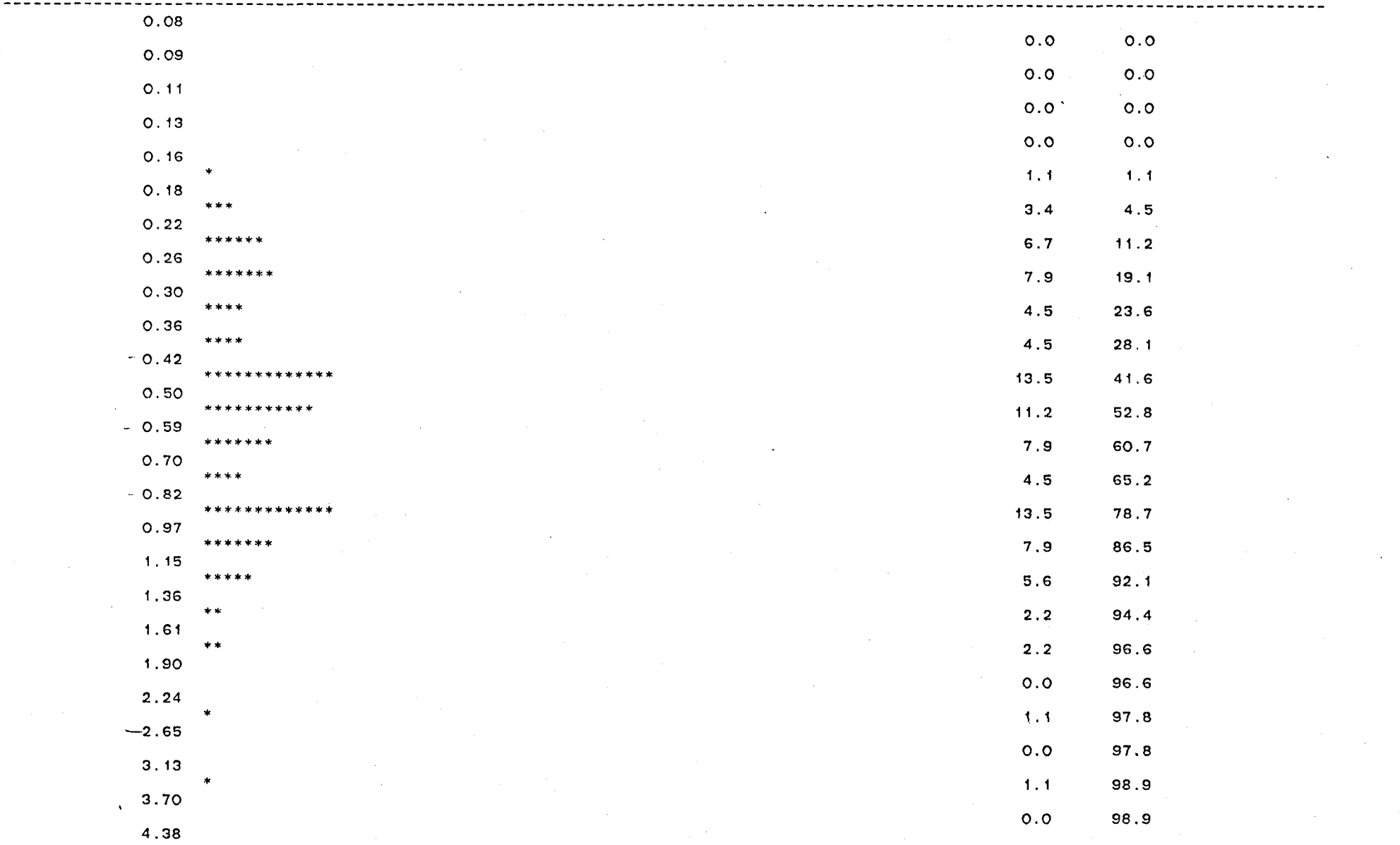
LOGARITHMIC VALUES NON TRUNCATED DATA SET

INTERVAL(STDV/F) 0.072 NO.SAMPLES 89

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Ca%



LOGARITHMIC VALUES NON TRUNCATED DATA SET

INTERVAL(STDV/F) 0.053 NO.SAMPLES 89

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: SOILS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Ba

INTERVAL PPM		%	C%
25.17			
		0.0	0.0
28.44			
		0.0	0.0
32.14			
		0.0	0.0
36.32			
		0.0	0.0
41.05			
		0.0	0.0
46.39			
	***	3.4	3.4
52.42			
	**	2.2	5.6
59.24			
	*****	5.6	11.2
66.95			
	********	9.0	20.2
75.66			
	***************	15.7	36.0
85.50			
	**********	10.1	46.1
96.62			
	**********	10.1	56.2
109.19			
	********	9.0	65.2
123.39			
	********	9.0	74.2
139.44			
	*****	5.6	79.8
157.58			
	******	6.7	86.5
178.07			
	**	2.2	88.8
201.24			
	**	2.2	91.0
227.41			
	****	4.5	95.5
256.99			
	**	2.2	97.8
290.42			
		0.0	97.8
328.20			
	*	1.1	98.9
370.89			
		0.0	98.9
419.13			
		0.0	98.9
473.65			

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES — NON TRUNCATED DATA SET

INTERVAL INCREMENT 3.781 NO. SAMPLES 59

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Cu

INTERVAL PPM		%	C%
3.69			
	*****	5.1	5.1
7.47			
	**********	13.6	18.6
11.25			
	**********	11.9	30.5
15.03			
	**********	15.3	45.8
18.81			
	**********	10.2	55.9
22.59			
	**********	16.9	72.9
26.37			
	**********	11.9	84.7
30.15			
	*	1.7	86.4
33.94			
	***	3.4	89.8
37.72			
	***	3.4	93.2
41.50			
	*	1.7	94.9
45.28		0.0	94.9
49.06			
	*	1.7	96.6
52.84			
	*	1.7	98.3
56.62		0.0	98.3
60.40		0.0	98.3
64.18		0.0	98.3
67.96		0.0	98.3
71.74		0.0	98.3
75.52		0.0	98.3
79.30		0.0	98.3
83.08		0.0	98.3
86.86		0.0	98.3
90.65		0.0	98.3
94.43			

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES NON TRUNCATED DATA SET

INTERVAL INCREMENT 1.000 NO. SAMPLES 57

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Pb

INTERVAL PPM		%	C%
1.00		0.0	0.0
2.00		0.0	0.0
3.00	*	1.8	1.8
4.00	**********	12.3	14.0
5.00	**********	12.3	26.3
6.00	********	8.8	35.1
7.00	**********	19.3	54.4
8.00	**********	14.0	68.4
9.00	**********	12.3	80.7
10.00	*******	7.0	87.7
11.00	***	3.5	91.2
12.00	*	1.8	93.0
13.00	*	1.8	94.7
14.00	***	3.5	98.2
15.00		0.0	98.2
16.00		0.0	98.2
17.00		0.0	98.2
18.00		0.0	98.2
19.00		0.0	98.2
20.00		0.0	98.2
21.00	*	1.8	100.0
22.00		0.0	100.0
23.00		0.0	100.0
24.00		0.0	100.0
25.00			

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES — NON TRUNCATED DATA SET

INTERVAL INCREMENT 3.561 NO. SAMPLES 59

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Zn

INTERVAL PPM		%	C%
11.50			
		0.0	0.0
15.06			
		0.0	0.0
18.62			
	*	1.7	1.7
22.18			
		0.0	1.7
25.75			
		0.0	1.7
29.31			
		0.0	1.7
32.87			
	********	8.5	10.2
36.43			
	******	6.8	16.9
39.99			
	*****	5.1	22.0
43.55			
	*****	5.1	27.1
47.11			
	**********	10.2	37.3
50.68			
	********************	20.3	57.6
54.24			
	**********	10.2	67.8
57.80			
	**********	10.2	78.0
61.36			
	*	1.7	79.7
64.92			
	*****	5.1	84.7
68.48			
	***	3.4	88.1
72.04			
		0.0	88.1
75.61			
	******	6.8	94.9
79.17			
		0.0	94.9
82.73			
	***	3.4	98.3
86.29			
		0.0	98.3
89.85			
		0.0	98.3
93.41			
	*	1.7	100.0
96.97			

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES NON TRUNCATED DATA SET

INTERVAL INCREMENT 1.752 NO. SAMPLES 59

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Ni

INTERVAL PPM		%	C%
0.37			
		0.0	0.0
2.12			
		0.0	0.0
3.87			
		0.0	0.0
5.63			
	*	1.7	1.7
7.38			
	**********	15.3	16.9
9.13			
	***	3.4	20.3
10.88			
	***	3.4	23.7
12.63			
	**********	11.9	35.6
14.38			
	**********	22.0	57.6
16.14			
	********	8.5	66.1
17.89			
	**********	18.6	84.7
19.64			
	********	8.5	93.2
21.39			
	*	1.7	94.9
23.14			
		0.0	94.9
24.89			
	*	1.7	96.6
26.64			
	*	1.7	98.3
28.40			
		0.0	98.3
30.15			
		0.0	98.3
31.90			
		0.0	98.3
33.65			
		0.0	98.3
35.40			
		0.0	98.3
37.15			
		0.0	98.3
38.91			
		0.0	98.3
40.66			
		0.0	98.3
42.41			

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES — NON TRUNCATED DATA SET

INTERVAL INCREMENT 0.100 NO. SAMPLES 49

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Ag

INTERVAL PPM		%	C%
0.10		0.0	0.0
0.20	**********	42.9	42.9
0.30	**********	32.7	75.5
0.40	**********	12.2	87.8
0.50	******	6.1	93.9
0.60	**	2.0	95.9
0.70	**	2.0	98.0
0.80		0.0	98.0
0.90	**	2.0	100.0
1.00		0.0	100.0
1.10		0.0	100.0
1.20		0.0	100.0
1.30		0.0	100.0
1.40		0.0	100.0
1.50		0.0	100.0
1.60		0.0	100.0
1.70		0.0	100.0
1.80		0.0	100.0
1.90		0.0	100.0
2.00		0.0	100.0
2.10		0.0	100.0
2.20		0.0	100.0
2.30		0.0	100.0
2.40		0.0	100.0
2.50		0.0	100.0

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES — NON TRUNCATED DATA SET

INTERVAL INCREMENT 1.799 NO. SAMPLES 58

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

As

INTERVAL PPM		%	C%
1.16		0.0	0.0
2.95	******	6.9	6.9
4.75	**********	12.1	19.0
6.55	**********	10.3	29.3
8.35	**********	22.4	51.7
10.15	********	8.6	60.3
11.95	**********	12.1	72.4
13.75	******	6.9	79.3
15.55	*****	5.2	84.5
17.34	******	6.9	91.4
19.14	*	1.7	93.1
20.94		0.0	93.1
22.74	*	1.7	94.8
24.54		0.0	94.8
26.34	*	1.7	96.6
28.14		0.0	96.6
29.94	*	1.7	98.3
31.73		0.0	98.3
33.53		0.0	98.3
35.33		0.0	98.3
37.13		0.0	98.3
38.93		0.0	98.3
40.73		0.0	98.3
42.53		0.0	98.3
44.33			

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

LOGARITHMIC VALUES NON TRUNCATED DATA SET

INTERVAL(STDV/F) 0.065 NO.SAMPLES 59

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Mn

INTERVAL PPM		%	C%
93.35			
		0.0	0.0
108.43			
		0.0	0.0
125.95			
	*	1.7	1.7
146.30			
		0.0	1.7
169.94			
		0.0	1.7
197.40			
	***	3.4	5.1
229.29			
	***	3.4	8.5
266.34			
	********	8.5	16.9
309.37			
	*	1.7	18.6
359.35			
	***	3.4	22.0
417.41			
	**********	16.9	39.0
484.86			
	**********	11.9	50.8
563.19			
	**********	13.6	64.4
654.19			
	**********	11.9	76.3
759.88			
	********	8.5	84.7
882.65			
	******	6.8	91.5
1025.26			
	*****	5.1	96.6
1190.91			
		0.0	96.6
1383.32			
		0.0	96.6
1606.82			
		0.0	96.6
1866.43			
		0.0	96.6
2167.98			
		0.0	96.6
2518.26			
		0.0	96.6
2925.13			
		0.0	96.6
3397.73			

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES — NON TRUNCATED DATA SET

INTERVAL INCREMENT 1.299 NO. SAMPLES 59

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Cr

INTERVAL PPM		%	C%
7.08			
		0.0	1.7
8.38			
		0.0	1.7
9.67			
		0.0	1.7
10.97			
	*	1.7	3.4
12.27			
		0.0	3.4
13.57			
	*	1.7	5.1
14.87			
	******	6.8	11.9
16.17			
	***	3.4	15.3
17.47			
	*****	5.1	20.3
18.76			
	********	8.5	28.8
20.06			
	******	6.8	35.6
21.36			
	**********	13.6	49.2
22.66			
	******	6.8	55.9
23.96			
	**********	15.3	71.2
25.26			
	**********	10.2	81.4
26.56			
	******	6.8	88.1
27.86			
	***	3.4	91.5
29.15			
	*	1.7	93.2
30.45			
	***	3.4	96.6
31.75			
	*	1.7	98.3
33.05			
		0.0	98.3
34.35			
		0.0	98.3
35.65			
		0.0	98.3
36.95			
	*	1.7	100.0
38.25			

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES — NON TRUNCATED DATA SET

INTERVAL INCREMENT 0.114 NO. SAMPLES 59

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Al%

INTERVAL PPM		%	C%
0.14			
		0.0	0.0
0.25			
		0.0	0.0
0.37			
		0.0	0.0
0.48			
		0.0	0.0
0.60			
		0.0	0.0
0.71			
	*	1.7	1.7
0.83			
	**********	15.3	16.9
0.94			
	***	3.4	20.3
1.06			
	***	3.4	23.7
1.17			
	******	6.8	30.5
1.29			
	******	6.8	37.3
1.40			
	********	8.5	45.8
1.51			
	**********	13.6	59.3
1.63			
	**********	11.9	71.2
1.74			
	********	8.5	79.7
1.86			
	********	8.5	88.1
1.97			
	*	1.7	89.8
2.09			
	******	6.8	96.6
2.20			
		0.0	96.6
2.32			
	*	1.7	98.3
2.43			
		0.0	98.3
2.54			
		0.0	98.3
2.66			
		0.0	98.3
2.77			
		0.0	98.3
2.89			

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES — NON TRUNCATED DATA SET

INTERVAL INCREMENT 0.010 NO. SAMPLES 59

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

K%

INTERVAL PPM		%	C%
0.01		0.0	0.0
0.02	*	1.7	1.7
0.03	**********	16.9	18.6
0.04	**********	32.2	50.8
0.05	**********	13.6	64.4
0.06	**********	20.3	84.7
0.07	**********	10.2	94.9
0.08	*	1.7	96.6
0.09		0.0	96.6
0.10	*	1.7	98.3
0.11	*	1.7	100.0
0.12		0.0	100.0
0.13		0.0	100.0
0.14		0.0	100.0
0.15		0.0	100.0
0.16		0.0	100.0
0.17		0.0	100.0
0.18		0.0	100.0
0.19		0.0	100.0
0.20		0.0	100.0
0.21		0.0	100.0
0.22		0.0	100.0
0.23		0.0	100.0
0.24		0.0	100.0
0.25		0.0	100.0

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES — NON TRUNCATED DATA SET

INTERVAL INCREMENT 0.092 NO. SAMPLES 59

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Ca%

INTERVAL PPM		%	C%
0.09		0.0	0.0
0.18		0.0	0.0
0.27		0.0	0.0
0.36	********	8.5	8.5
0.46	**********	11.9	20.3
0.55	********	8.5	28.8
0.64	**********	16.9	45.8
0.73	**********	16.9	62.7
0.82	**********	10.2	72.9
0.92	********	8.5	81.4
1.01	***	3.4	84.7
1.10	*****	5.1	89.8
1.19		0.0	89.8
1.28	***	3.4	93.2
1.37	*	1.7	94.9
1.47		0.0	94.9
1.56		0.0	94.9
1.65	***	3.4	98.3
1.74		0.0	98.3
1.83		0.0	98.3
1.93		0.0	98.3
2.02		0.0	98.3
2.11		0.0	98.3
2.20		0.0	98.3
2.29			

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES — NON TRUNCATED DATA SET

INTERVAL INCREMENT 0.100 NO. SAMPLES 59

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Mg%

INTERVAL PPM		%	C%
0.10	*	1.7	1.7
0.20		0.0	1.7
0.30	**********	20.3	22.0
0.40	********	8.5	30.5
0.50	**********	20.3	50.8
0.60	**********	30.5	81.4
0.70	**********	16.9	98.3
0.80	*	1.7	100.0
0.90		0.0	100.0
1.00		0.0	100.0
1.10		0.0	100.0
1.20		0.0	100.0
1.30		0.0	100.0
1.40		0.0	100.0
1.50		0.0	100.0
1.60		0.0	100.0
1.70		0.0	100.0
1.80		0.0	100.0
1.90		0.0	100.0
2.00		0.0	100.0
2.10		0.0	100.0
2.20		0.0	100.0
2.30		0.0	100.0
2.40		0.0	100.0
2.50		0.0	100.0

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

ARITHMETIC VALUES NON TRUNCATED DATA SET

INTERVAL INCREMENT 10.986 NO. SAMPLES 59

PROPERTY NAME: TATE CLAIMS SURVEY TYPE: STREAM SEDIMENTS NTS: 93F/7

PROJECT NAME: CAPOOSE LAKE PROJECT CODE: 529F PROVINCE: B.C. YEAR: 1982

Ba

INTERVAL PPM		%	C%
10.07			
		0.0	0.0
21.06			
		0.0	0.0
32.04			
		0.0	0.0
43.03			
	*	1.7	1.7
54.01			
	******	6.8	8.5
65.00			
	********	8.5	16.9
75.99			
	******	6.8	23.7
86.97			
	*	1.7	25.4
97.96			
	**********	11.9	37.3
108.95			
	***************	15.3	52.5
119.93			
	************	13.6	66.1
130.92			
	**********	11.9	78.0
141.90			
	******	6.8	84.7
152.89			
	******	6.8	91.5
163.88			
	***	3.4	94.9
174.86			
		0.0	94.9
185.85			
	*	1.7	96.6
196.84			
		0.0	96.6
207.82			
		0.0	96.6
218.81			
		0.0	96.6
229.79			
		0.0	96.6
240.78			
		0.0	96.6
251.77			
		0.0	96.6
262.75			
	*	1.7	98.3
273.74			

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

Appendix 5

Statement of Costs

Statement of Costs

TATE CLAIMS - GROUP A - Geological and Geochemical Surveys

1) BP Labour (Field and Office)		
Michael Smith - July 25th - July 29th, November 1st-5th, 1982 10 days @ $200/day	$2000.00	
Dan Hicks - July 24th - 29th 6 days @ $64/day	384.00	
Warren Cummings - July 24th - August 3rd 11 days @ $81.50/day	896.50	
Robert George - July 24th - July 30th 7 days @ $81.50	570.50	
Paul Matysek - November 1st - 14th 10 days @ $120/day	1200.00	
		$5051.00
2) Contractor Services		
i) Boyd Chenowith - Labour - 4 days @ $80/day = $320.00		
ii) Contractor Rentals - 7 horses, 3 cabins = $430.00		750.00
3) Rental Vehicles		
Four wheel drive vehicle - rental pro-rated to cover gas, oil, spares, and end of season repair costs - $100/ day, 4 days		400.00
4) Travel Expenses		
Includes air and ground freight charges		150.00
	Sub-Total	$6351.00

STATEMENT OF COSTS (cont.)

	Sub-Total	$6351.00
5)	Field Accommodation - Food	
	$15/manday X 5 men X 4 days	300.00
6)	Materials and Supplies	
	i) Maps and Airphotos, Photomosaic	500.00
	ii) Camp Supplies - Gas, oil, equipment rental	200.00
7)	Telecommunications	
	Radio rentals, long distance calls	150.00
8)	Geochemical Sample Analysis	
	148 samples @ $11.50/ sample - includes ICP multielement, gold by AA, and computer data manipulation and plotting	1700.00
9)	Drafting and Reproductions	350.00
		$9551.00

Appendix 6

List of Qualifications

STATEMENT OF QUALIFICATIONS - Michael D. Smith

I, Michael Smith of Suite 700 - 890 West Pender Street in Vancouver in the Province of British Columbia, Do Hereby State:

1. That I am a graduate of Brock University, St. Catherine, Ontario, where I obtained a B.Sc. (Hons) degree in Geology in 1975.

2. That I am a Fellow of the Geological Association of Canada.

3. That I have been active in mineral exploration since 1961.

4. That I have practised my profession continuously as a geologist since 1975.

Michael D. Smith
Geologist
BP Minerals Limited

Vancouver, B.C.

List of Qualifications - P.F. Matysek

BSc 1980 - University of Toronto (Hons. Geology)

MSc 1981-1983 - University of British Columbia (Geochemistry) (to be completed in 1983)

List of Publications

1. Matysek, P.F., 1980

   A Preliminary Evaluation of Categorized Field Observations for Regional Stream Sediment Samples. B.C. Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork, 1980, Paper 1981-1, pp 148-158.

2. Matysek, P.F. et al, 1981

   A Rapid Anomaly Recognition and Ranking for Multielement Regional Stream Sediment Surveys. B.C. Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork, 1981, Paper 1982-1, pp 176-186.

List of Memberships

1. Canadian Institute of Mining and Metallurgy, since 1980.

2. Association of Exploration Geochemists, since 1980.

TATE 2

TATE 1

TATE 3

TATE 4

TATE 5

TATE 6

Tatelkuz Mountain

Tatelkuz Lake

L 1836

L 1837

L 1835

L 1834

BLK A

4900

5000

4300

3500

3100

3200

4000

5906000

5904000

5902000

5900000 N

390000 E

392000

394000

396000

LEGEND

5	PLEISTOCENE, TILL, GRAVEL
4	QUARTZ DIORITE
3	SILTSTONE, SANDSTONE, Minor Rhyolite Breccia
2	PORPHYRITIC ANDESITE, Minor Dacitic Breccia
1	HAZELTON GROUP SEDIMENTS – not traversed

SYMBOLS

- GEOLOGICAL CONTACT
- FAULT
- ③ TRIBUTARY

METRES 0 100 200 300 400 500 600 700 800 900 1000

BP Minerals Limited

TATE CLAIMS

CAPOOSE LAKE PROJECT B.C.

GEOLOGY

DWG. NO.

REPORT NO.

DATE NOV. 1982 PROJECT 529-F

NTS 93F/7 SCALE 1:20,000

FIG. 3B

TO ACCOMPANY REPORT

TATE 2
TATE 1
TATE 3
TATE 4
TATE 5
TATE 6
Tatelkuz Mountain
Tatelkuz Lake
L 1836
L 1837
L 1835
L 1834
BLK A
4900
5000
4300
3500
3100
3200
4000
5906000
5904000
5902000
5900000 N
390000 E
392000
394000
396000

LEGEND

5	PLEISTOCENE, TILL, GRAVEL
4	QUARTZ DIORITE
3	SILTSTONE, SANDSTONE, Minor Rhyolite Breccia
2	PORPHYRITIC ANDESITE, Minor Dacitic Breccia
1	HAZELTON GROUP SEDIMENTS – not traversed

SYMBOLS

- GEOLOGICAL CONTACT
- FAULT
- ③ TRIBUTARY

METRES 0 100 200 300 400 500 600 700 800 900 1000

BP Minerals Limited

TATE CLAIMS
CAPOOSE LAKE PROJECT B.C.
SOIL SAMPLE LOCATIONS

DWG NO.
REPORT NO.
TO ACCOMPANY REPORT

DATE NOV. 1982 PROJECT 529-F
NTS 93F/7 SCALE 1:20,000
FIG. 4A

TATE 2
TATE 1
TATE 3
TATE 4
TATE 5
TATE 6
Tatelkuz Mountain
Tatelkuz Lake
L 1836
L 1837
L 1835
L 1834
BLK A
4900
5000
4300
3500
3100
3200
4000
5906000
5904000
5902000
5900000 N
390000 E
392000
394000
396000

LEGEND

5	PLEISTOCENE, TILL, GRAVEL
4	QUARTZ DIORITE
3	SILTSTONE, SANDSTONE, Minor Rhyolite Breccia
2	PORPHYRITIC ANDESITE, Minor Dacitic Breccia
1	HAZELTON GROUP SEDIMENTS – not traversed

SYMBOLS

- GEOLOGICAL CONTACT
- FAULT
- ③ TRIBUTARY

METRES 0 100 200 300 400 500 600 700 800 900 1000

CU
SOILS
58
33
23
18
13

500 METERS

TATE-82.PR-529

BP Minerals Limited

TATE CLAIMS
CAPOOSE LAKE PROJECT B.C.
COPPER (PPM) CONTENT OF SOILS

DWG NO.
REPORT NO.
TO ACCOMPANY REPORT

DATE NOV. 1982 PROJECT 529-F
NTS 93F/7 SCALE 1:20,000
FIG 4B

TATE 2

TATE 1

TATE 3

TATE 4

TATE 5

TATE 6

Tatelkuz Mountain

Tatelkuz Lake

L 1836

L 1837

L 1835

L 1834

BLK A

4900

5000

4300

3500

3100

3200

4000

5906000

5904000

5902000

5900000 N

390000 E

392000

394000

396000

LEGEND

5	PLEISTOCENE, TILL, GRAVEL
4	QUARTZ DIORITE
3	SILTSTONE, SANDSTONE, Minor Rhyolite Breccia
2	PORPHYRITIC ANDESITE, Minor Dacitic Breccia
1	HAZELTON GROUP SEDIMENTS – not traversed

SYMBOLS

- GEOLOGICAL CONTACT
- FAULT
- ③ TRIBUTARY

METRES

Pb

SOILS

500 METERS

TATE-82.PB-529

BP Minerals Limited

TATE CLAIMS

CAPOOSE LAKE PROJECT B.C.

LEAD (PPM) CONTENT OF SOILS

DWG NO.

REPORT NO.

DATE NOV. 1982 PROJECT 529-F

NTS 93F/7 SCALE 1:20,000

FIG. 4C

TO ACCOMPANY REPORT

TATE 2
TATE 1
TATE 3
TATE 4
TATE 5
TATE 6
Tatelkuz Mountain
Tatelkuz Lake
L 1836
L 1837
L 1835
L 1834
BLK A
4900
5000
4300
3500
3100
3200
4000
5906000
5904000
5902000
5900000 N
390000 E
392000
394000
396000

LEGEND

5	PLEISTOCENE, TILL, GRAVEL
4	QUARTZ DIORITE
3	SILTSTONE, SANDSTONE, Minor Rhyolite Breccia
2	PORPHYRITIC ANDESITE, Minor Dacitic Breccia
1	HAZELTON GROUP SEDIMENTS – not traversed

SYMBOLS

- GEOLOGICAL CONTACT
- FAULT
- ③ TRIBUTARY

METRES 0 100 200 300 400 500 600 700 800 900 1000

ZN
SOILS
115
81
64
56
47

500 METERS

TATE-82 PR-529

BP Minerals Limited

TATE CLAIMS
CAPOOSE LAKE PROJECT B.C.
ZINC (PPM) CONTENT OF SOILS

DWG NO.	DATE NOV. 1982 PROJECT 529-F	FIG. 4D
REPORT NO.	NTS 93F/7 SCALE 1:20,000	
TO ACCOMPANY REPORT		

TATE 2
TATE 1
TATE 3
TATE 4
TATE 5
TATE 6
Tatelkuz Mountain
Tatelkuz Lake
L 1836
L 1837
L 1835
L 1834
BLK A
4900
5000
4300
3500
3100
3200
4000
5906000
5904000
5902000
5900000 N
390000 E
392000
394000
396000

LEGEND

5	PLEISTOCENE, TILL, GRAVEL
4	QUARTZ DIORITE
3	SILTSTONE, SANDSTONE, Minor Rhyolite Breccia
2	PORPHYRITIC ANDESITE, Minor Dacitic Breccia
1	HAZELTON GROUP SEDIMENTS - not traversed

SYMBOLS

- GEOLOGICAL CONTACT
- FAULT
- ③ TRIBUTARY

METRES 0 100 200 300 400 500 600 700 800 900 1000

NI
SOILS
25
19
15
13
11

500 METERS

TATE-82.PR-528

BP Minerals Limited

TATE CLAIMS
CAPOOSE LAKE PROJECT B.C.
NICKEL (PPM) CONTENT OF SOILS

DWG NO	DATE NOV. 1982 PROJECT 529-F	FIG. 4E
REPORT NO	NTS 93F/7 SCALE 1:20,000	
TO ACCOMPANY REPORT		

TATE 2

TATE 1

TATE 3

TATE 4

TATE 5

TATE 6

Tatelkuz Mountain

Tatelkuz Lake

L 1836

L 1837

L 1835

L 1834

BLK A

4900

5000

4300

3300

3100

3200

4000

5906000

5904000

5902000

5900000 N

390000E

392000

394000

396000

LEGEND

5	PLEISTOCENE, TILL, GRAVEL
4	QUARTZ DIORITE
3	SILTSTONE, SANDSTONE, Minor Rhyolite Breccia
2	PORPHYRITIC ANDESITE, Minor Dacitic Breccia
1	HAZELTON GROUP SEDIMENTS - not traversed

SYMBOLS

GEOLOGICAL CONTACT

FAULT

③ TRIBUTARY

METRES 0 100 200 300 400 500 600 700 800 900 1000

AG

SOILS .8 .6 .5 .4 .3

500 METERS

TATE-82.PR-529

BP Minerals Limited

TATE CLAIMS

CAPOOSE LAKE PROJECT B.C.

SILVER (PPM) CONTENT OF SOILS

DWG NO.	DATE NOV. 1982 PROJECT 529-F	FIG 4F
REPORT NO.	NTS 93F/7 SCALE 1:20,000	

TO ACCOMPANY REPORT

TATE 2

TATE 1

TATE 3

TATE 4

TATE 5

TATE 6

Tatelkuz Mountain

Tatelkuz Lake

L 1836

L 1837

L 1835

L 1834

BLK A

4900

5000

4300

3500

3100

3200

4000

5906000

5904000

5902000

5900000 N

390000 E

392000

394000

396000

LEGEND

5	PLEISTOCENE, TILL, GRAVEL
4	QUARTZ DIORITE
3	SILTSTONE, SANDSTONE, Minor Rhyolite Breccia
2	PORPHYRITIC ANDESITE, Minor Dacitic Breccia
1	HAZELTON GROUP SEDIMENTS – not traversed

SYMBOLS

GEOLOGICAL CONTACT

FAULT

③ TRIBUTARY

METRES 0 100 200 300 400 500 600 700 800 900 1000

AS

SOILS
28
20
14
12
8

500 METERS

TATE-82.PR-529

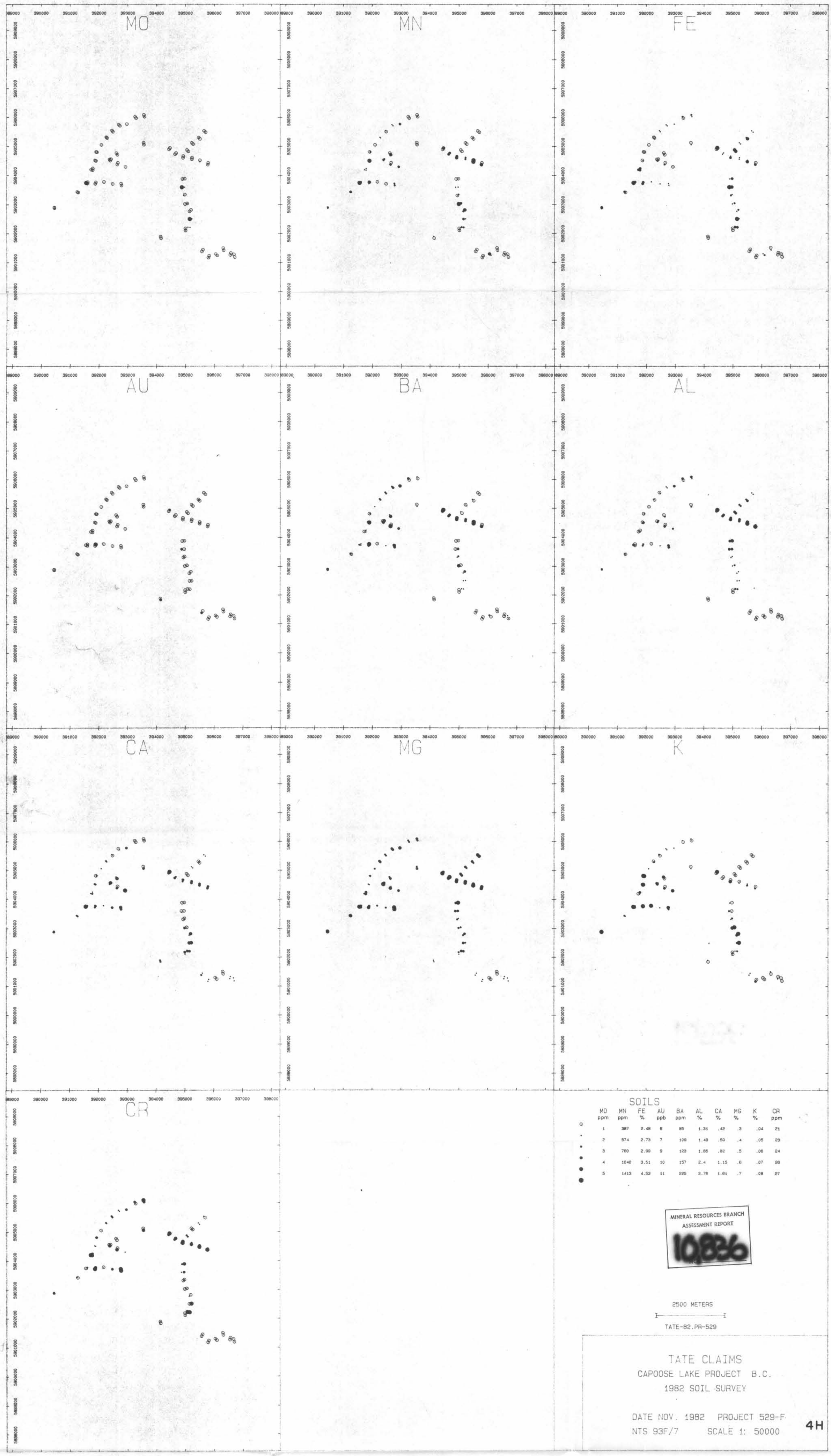
BP Minerals Limited

TATE CLAIMS

CAPOOSE LAKE PROJECT B.C.

ARSENIC (PPM) CONTENT OF SOILS

DWG NO.	DATE NOV. 1982 PROJECT 529-F	FIG. 46
REPORT NO.	NTS 93F/7 SCALE 1:20,000	
TO ACCOMPANY REPORT		



SOILS

	MO ppm	MN ppm	FE %	AU ppb	BA ppm	AL %	CA %	MG %	K %	CR ppm
○	1	387	2.48	6	85	1.31	.42	.3	.04	21
·	2	574	2.73	7	109	1.49	.59	.4	.05	23
•	3	760	2.99	9	123	1.86	.82	.5	.06	24
●	4	1040	3.51	10	157	2.4	1.15	.6	.07	26
●	5	1413	4.53	11	225	2.76	1.61	.7	.08	27

2500 METERS

TATE-82.PR-529

TATE CLAIMS
CAPOOSE LAKE PROJECT B.C.
1982 SOIL SURVEY

DATE NOV. 1982 PROJECT 529-F
NTS 93F/7 SCALE 1: 50000

4H

TATE 2

TATE 1

TATE 3

TATE 4

TATE 5

TATE 6

Tatelkuz Mountain

Tatelkuz Lake

L 1836

L 1837

L 1835

L 1834

BLK A

4900

5000

4300

3500

3100

3200

4000

5906000

5904000

5902000

5900000 N

390000 E

392000

394000

396000

LEGEND

5	PLEISTOCENE, TILL, GRAVEL
4	QUARTZ DIORITE
3	SILTSTONE, SANDSTONE, Minor Rhyolite Breccia
2	PORPHYRITIC ANDESITE, Minor Dacitic Breccia
1	HAZELTON GROUP SEDIMENTS - not traversed

SYMBOLS

- GEOLOGICAL CONTACT
- FAULT
- ③ TRIBUTARY

METRES 0 100 200 300 400 500 600 700 800 900 1000

BP Minerals Limited

TATE CLAIMS

CAPOOSE LAKE PROJECT B.C.

SILT SAMPLE LOCATIONS

DWG NO.	DATE NOV. 1982 PROJECT 529-F	FIG. 5A
REPORT NO.	NTS 93F/7 SCALE 1:20,000	
TO ACCOMPANY REPORT		

TATE 2

TATE 1

TATE 3

TATE 4

TATE 5

TATE 6

Tatelkuz Mountain

Tatelkuz Lake

L 1836

L 1837

L 1835

L 1834

BLK A

4900

5000

4300

3500

3100

3200

4000

5906000

5904000

5902000

5900000 N

390000 E

392000

394000

396000

LEGEND

5	PLEISTOCENE, TILL, GRAVEL
4	QUARTZ DIORITE
3	SILTSTONE, SANDSTONE, Minor Rhyolite Breccia
2	PORPHYRITIC ANDESITE, Minor Dacitic Breccia
1	HAZELTON GROUP SEDIMENTS – not traversed

SYMBOLS

- GEOLOGICAL CONTACT
- FAULT
- (3) TRIBUTARY

METRES 0 100 200 300 400 500 600 700 800 900 1000

CU

SILTS
41
33
26
22
15

500 METERS

TATE-82.PR-529

BP Minerals Limited

TATE CLAIMS

CAPOOSE LAKE PROJECT B.C.

COPPER (PPM) CONTENT OF STREAM SILTS

DWG NO	DATE NOV. 1982 PROJECT 529-F	FIG. 5B
REPORT NO	NTS 93F/7 SCALE 1:20,000	

TO ACCOMPANY REPORT

TATE 2

TATE 1

TATE 3

TATE 4

TATE 5

TATE 6

Tatelkuz Mountain

Tatelkuz Lake

L 1836

L 1837

L 1835

L 1834

BLK A

4900

5000

4300

3500

3100

3200

4000

5906000

5904000

5902000

5900000 N

390000 E

392000

394000

396000

LEGEND

5	PLEISTOCENE, TILL, GRAVEL
4	QUARTZ DIORITE
3	SILTSTONE, SANDSTONE, Minor Rhyolite Breccia
2	PORPHYRITIC ANDESITE, Minor Dacitic Breccia
1	HAZELTON GROUP SEDIMENTS – not traversed

SYMBOLS

- GEOLOGICAL CONTACT
- FAULT
- ③ TRIBUTARY

METRES 0 100 200 300 400 500 600 700 800 900 1000

PB

SILTS
13
10
9
8
7

500 METERS

TATE-82.PR-529

BP Minerals Limited

TATE CLAIMS

CAPOOSE LAKE PROJECT B.C.

LEAD (PPM) CONTENT OF STREAM SILTS

DWG NO	DATE NOV. 1982 PROJECT 529-F	FIG. 5C
REPORT NO.	NTS 93F/7 SCALE 1:20,000	
TO ACCOMPANY REPORT		

TATE 2

TATE 1

TATE 3

TATE 4

TATE 5

TATE 6

Tatelkuz Mountain

Tatelkuz Lake

L 1836

L 1837

L 1835

L 1834

BLK A

4900

5000

4300

3500

3100

3200

4000

5906000

5904000

5902000

5900000 N

390000E

392000

394000

396000

LEGEND

5	PLEISTOCENE, TILL, GRAVEL
4	QUARTZ DIORITE
3	SILTSTONE, SANDSTONE, Minor Rhyolite Breccia
2	PORPHYRITIC ANDESITE, Minor Dacitic Breccia
1	HAZELTON GROUP SEDIMENTS - not traversed

SYMBOLS

- GEOLOGICAL CONTACT
- FAULT
- ③ TRIBUTARY

METRES 0 100 200 300 400 500 600 700 800 900 1000

ZN

SILTS
79
72
64
57
50

500 METERS

TATE-82.PR-529

BP Minerals Limited

TATE CLAIMS

CAPOOSE LAKE PROJECT B.C.

ZINC (PPM) CONTENT OF STREAM SILTS

DWG NO	DATE NOV. 1982 PROJECT 529-F	FIG. 5D
REPORT NO	NTS 93F/7 SCALE 1:20,000	
TO ACCOMPANY REPORT		

TATE 2

TATE 1

TATE 3

TATE 4

TATE 5

TATE 6

Tatelkuz Mountain

Tatelkuz Lake

L 1836

L 1837

L 1835

L 1834

BLK A

4900

5000

4300

3500

3100

3200

4000

5906000

5904000

5902000

5900000 N

390000 E

392000

394000

396000

LEGEND

5	PLEISTOCENE, TILL, GRAVEL
4	QUARTZ DIORITE
3	SILTSTONE, SANDSTONE, Minor Rhyolite Breccia
2	PORPHYRITIC ANDESITE, Minor Dacitic Breccia
1	HAZELTON GROUP SEDIMENTS - not traversed

SYMBOLS

GEOLOGICAL CONTACT

FAULT

③ TRIBUTARY

METRES 0 100 200 300 400 500 600 700 800 900 1000

NI

SILTS

21
18
17
16
14

500 METERS

TATE-82.PR-529

BP Minerals Limited

TATE CLAIMS

CAPOOSE LAKE PROJECT B.C.

NICKEL (PPM) CONTENT OF STREAM SILTS

DWG NO.	DATE NOV. 1982 PROJECT 529-F	FIG. 5E
REPORT NO.	NTS 93F/7 SCALE 1:20,000	
TO ACCOMPANY REPORT:		

TATE 2
TATE 1
TATE 3
TATE 4
TATE 5
TATE 6
Tatelkuz Mountain
Tatelkuz Lake
L 1836
L 1837
L 1835
L 1834
BLK A
4900
5000
4300
3500
3100
3200
4000
5906000
5904000
5902000
5900000 N
390000 E
392000
394000
396000

LEGEND

5	PLEISTOCENE, TILL, GRAVEL
4	QUARTZ DIORITE
3	SILTSTONE, SANDSTONE, Minor Rhyolite Breccia
2	PORPHYRITIC ANDESITE, Minor Dacitic Breccia
1	HAZELTON GROUP SEDIMENTS – not traversed

SYMBOLS

- GEOLOGICAL CONTACT
- FAULT
- ③ TRIBUTARY

METRES 0 100 200 300 400 500 600 700 800 900 1000

AG
SILTS .7 .6 .5 .4 .3

500 METERS

TATE-82.PR-529

BP Minerals Limited

TATE CLAIMS
CAPOOSE LAKE PROJECT B.C.
SILVER, (PPM) CONTENT OF STREAM SILTS

DWG. NO.	DATE NOV. 1982 PROJECT 529-F	FIG. 5F
REPORT NO.	NTS 93F/7 SCALE 1:20,000	
TO ACCOMPANY REPORT:		

TATE 2
TATE 1
TATE 3
TATE 4
TATE 5
TATE 6
Tatelkuz Mountain
L 1836
L 1837
L 1835
L 1834
BLK A
Tatelkuz Lake
4900
5000
4300
3500
3100
3200
4000
5906000
5904000
5902000
5900000 N
390000 E
392000
394000
396000

LEGEND

5	PLEISTOCENE, TILL, GRAVEL
4	QUARTZ DIORITE
3	SILTSTONE, SANDSTONE, Minor Rhyolite Breccia
2	PORPHYRITIC ANDESITE, Minor Dacitic Breccia
1	HAZELTON GROUP SEDIMENTS – not traversed

SYMBOLS

- GEOLOGICAL CONTACT
- FAULT
- ③ TRIBUTARY

METRES 0 100 200 300 400 500 600 700 800 900 1000

AS
SILTS
20
17
13
11
8

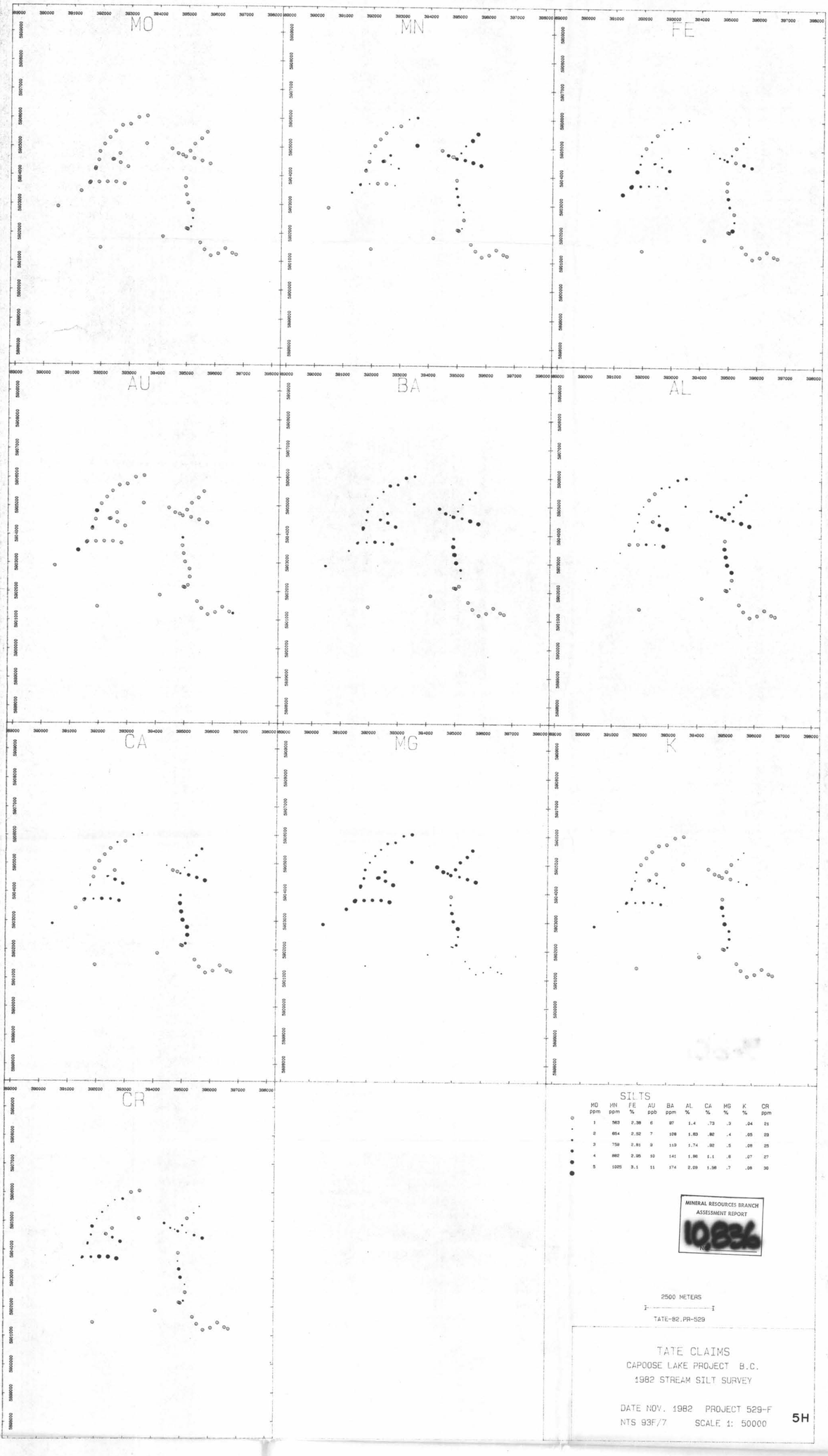
500 METERS

TATE-82.PR-529

BP Minerals Limited

TATE CLAIMS
CAPOOSE LAKE PROJECT B.C.
ARSENIC, (PPM) CONTENT OF STREAM SILTS

DWG NO	DATE NOV. 1982 PROJECT 529-F	FIG 56
REPORT NO.	NTS 93F/7 SCALE 1:20,000	
TO ACCOMPANY REPORT		



SILTS

	MO ppm	MN ppm	FE %	AU ppb	BA ppm	AL %	CA %	MG %	K %	CR ppm
1	1	563	2.38	6	87	1.4	.73	.3	.04	21
2	2	654	2.52	7	108	1.63	.82	.4	.05	23
3	3	759	2.81	9	119	1.74	.92	.5	.06	25
4	4	882	2.95	10	141	1.86	1.1	.6	.07	27
5	5	1025	3.1	11	174	2.09	1.56	.7	.08	30

2500 METERS

TATE-82.PR-529

TATE CLAIMS
CAPOOSE LAKE PROJECT B.C.
1982 STREAM SILT SURVEY

DATE NOV. 1982 PROJECT 529-F
NTS 93F/7 SCALE 1: 50000

5H