

COMPILATION REPORT ON THE TASU AREA

QUEEN CHARLOTTE ISLANDS

By S. McAllister

November 1983

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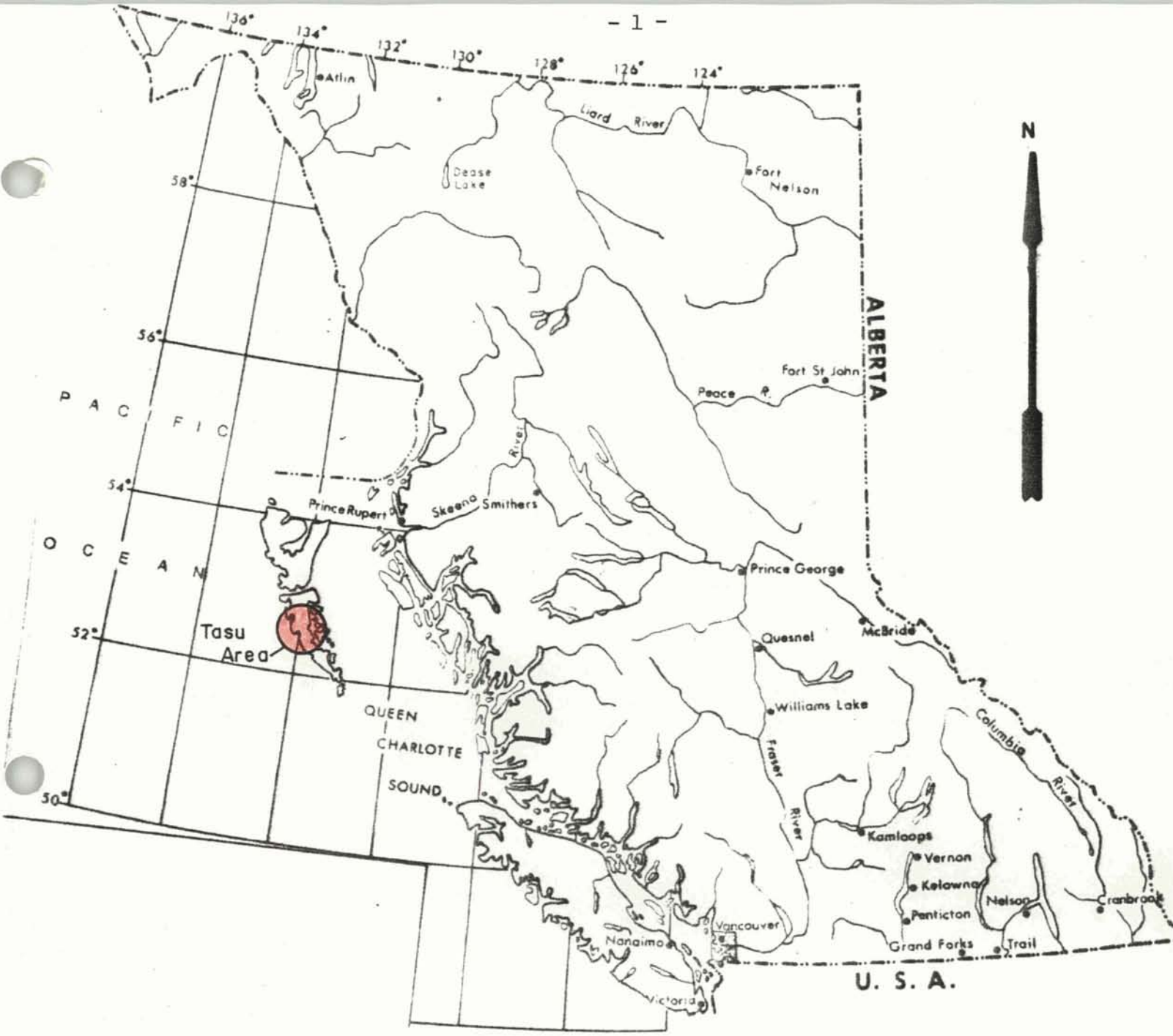
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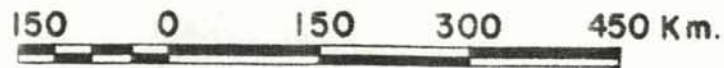
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INDEX MAP

TASU AREA, QUEEN CHARLOTTE ISLANDS



SCALE 1: 7 500 000

Figure 1a

INTRODUCTION

The closing of the Tasu operation has prompted an interest in the mineral potential of the surrounding region, especially as no exhaustive exploration program has been carried out by Falconbridge Limited in the area. This report attempts to encompass the past exploration, geology, geochemistry, and claim status of that part of Moresby Island within an approximate 20 kilometer radius of Tasu.

The Tasu Area has been the site of mineral exploration and geological study since the late 1800's. A synopsis of all mineral exploration in the area, with a concentration on work in the last three decades, is given in Table I.

LOCATION AND ACCESS

The Queen Charlotte Islands are located off the west coast of British Columbia approximately 700 kilometers northwest of Vancouver (Fig. 1a). Tasu is located on the west side of Moresby Island, the southern of the two large islands. The region referred to as the Tasu area extends from Hibben Island eastward to Louise Island in the north, then southward to Lyell Island and west across Moresby Island from Bygsby Inlet to Pocket Inlet.

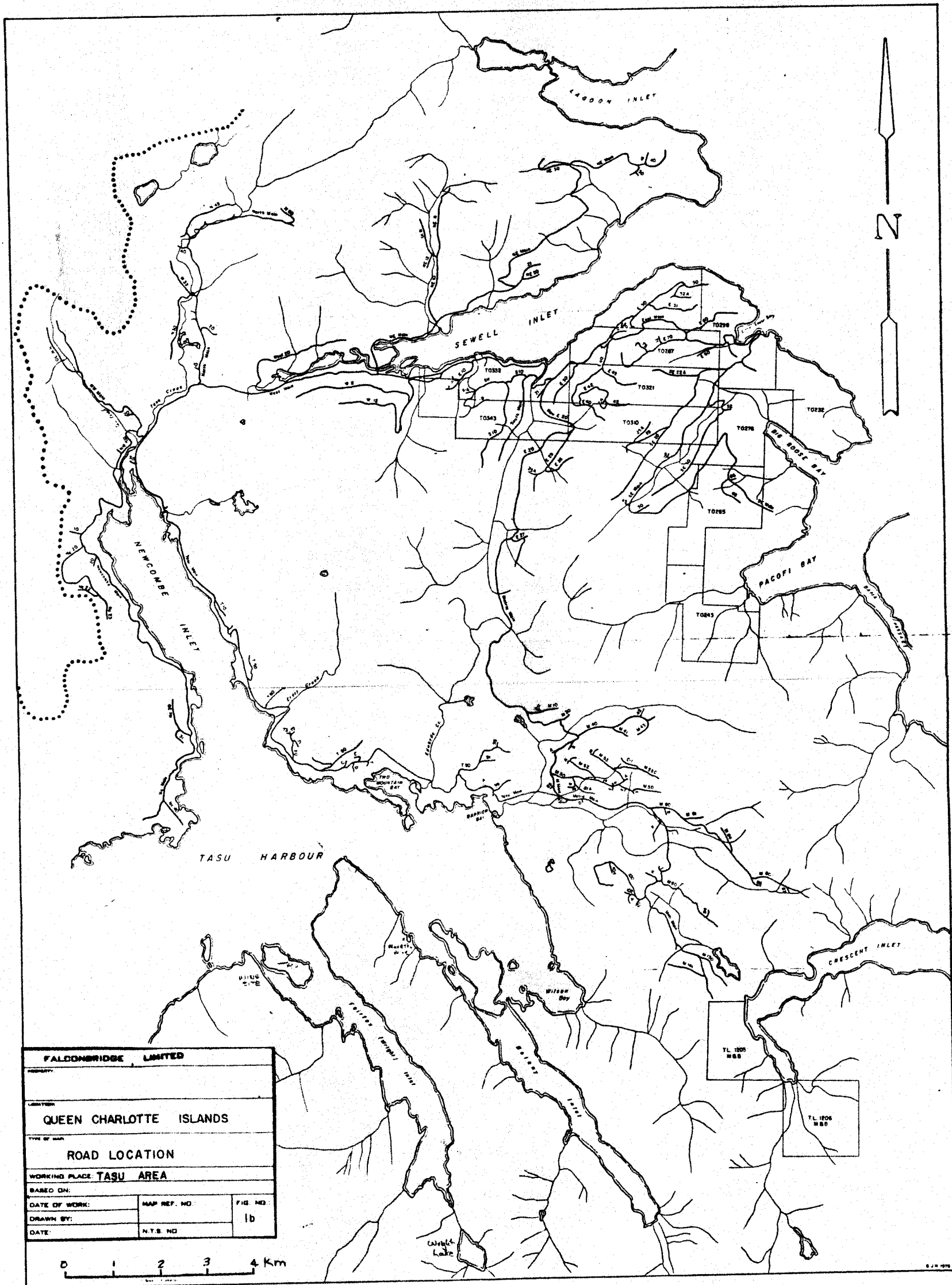
The Tasu Area is accessible by boat, helicopter and float plane from sandspit, weather permitting. Active logging by Western Forest Products has made parts of the region more accessible by a network of roads (Fig. 1b). The non-active logging roads are in various states of repair, often segmented by numerous landslides or totally overgrown with alders. Nevertheless, many of the roads could be travelled by trail bikes and on foot. A complete set of Western Forest Products road maps for the area are on file in the Falconbridge Delta Office.

TOPOGRAPHY

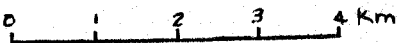
The Tasu Area is characterized by its rugged terrain, fiord-like inlets on the west coast, and steep sloped mountains commonly with rounded summits. The relief in the area is 3,500 feet. At higher elevations cypress and scrub spruce are common. Elsewhere, forests of hemlock, spruce and cedar are present with little underbrush except for a heavy carpet of moss. In previously logged areas that have been reforested the second growth of spruce and hemlock is often dense. Other logged-off areas are littered with logging slash and where the slopes are steep, subject to landslides.

CLAIM STATUS

Approximately 40% of the Tasu Area is covered by mineral claims held in good standing, (Fig. 2). Falconbridge Limited holds claims covering the Tasu Mine, the Tommy showing and four areas of anomalous stream sediment geochemistry.



FALCONBRIDGE LIMITED		
PROJECT:		
LOCATION:		
QUEEN CHARLOTTE ISLANDS		
TYPE OF MAP:		
ROAD LOCATION		
WORKING PLACE: TASU AREA		
BASED ON:		
DATE OF WORK:	MAP REF. NO.	FIG. NO.
DRAWN BY:		1b
DATE:	N.T.S. NO.	



PAST EXPLORATION IN THE TASU AREA

(From Chamberlain, Arscott, Elliott)

Claim	Year	Agent	Type of Work	Results
Cliffhangar	1981	Ventures West Min. (G. G. Richards, J. S. Christie)	Geology & Geochemistry	Outlined soil As anomaly. Au values low.
QP (Lapsed)	1976	Falconbridge Limited (D. H. James)	Geology, Geochemistry Magnetometer Survey	No Fe-Cu skarn deposit.
Early Bird	1907-1933	John McLellan		172 tons of ore mined with 154 oz Au & 30 oz Ag.
	1939	D. F. Kidd		15 tons of ore mined with 150 oz Au
	1981	Charlotte Resources Ltd.	Diamond Drilling of quartz vein in basalt	Au values range from .001 to .008 oz/t
Noble	1981	Energy Reserves Canada Ltd. (L. Paulsen)	Geochemistry	Spotty Au anomalies with average values 6.7 ppb Au in rocks, 10.1 ppb Au in silt.
SHG	1979	Placer Development Ltd (J. S. Christie)	Geology & Geochemistry	Quartz veined acid dyke swarm and Silicified breccia occur in limestone with Au values up to 155 ppb.
	1981	JMT Services (G. G. Richards + J. S. Christie)	Diamond Drilling 6 holes for a total of 461m	Au values up to 1020 ppb, but unoxidized samples yield no Au potential. No skarn body at base of limestone. No further work recommended.
Blue	1919			Discovered by Jones, Wiggs & McRae
(Now Swindle)	1931-1932		Series of open cuts	Quartz veins yield values of 0.2-0.6 oz/ton Au.

TABLE I

Claim	Year	Agent	Type of Work	Results
Swindle	1979	Mountaineer Mines Ltd. (R. Woolverton)	Airborne Magnetometer Survey	Delineated limestone-basalt contact
	1980	Plaza Mining Ltd. (J. Doherty)	Geochemistry	Average values of 0.03 oz/ton Au & 0.01 oz/ton Ag from quartz vein cutting basalt.
Hawk's Nest	1979	J. T. Shearer	Prospecting	Chalcopyrite + pyrite veinlets in Karmutsen basalt. Assays less than 10 ppb Au.
	1980	B. C. Gold Syndicate (J. T. Shearer)	Geochemistry	Generally low As + Au values. One Diorite sample yielded 2000 ppb Au
Jasper	1982	Ventures West Min. (G. G. Richards + C. Harivel)	Geochemistry	As soil anomaly coincides with area of limestone cut by rhyolite and andesite dykes.
North Star	1982	Ventures West Min. (G. G. Richards + C. Harivel)	Geology + Geochemistry	Maximum value of 1196 ppb Au in pyritic clay altered rock with spotty silicification.
Singa	1980	J. C. Stephens Explora- tions (J. T. Shearer)	Geochemistry	Values less than 10 ppb Au.
Redtop	1982	Ventures West Min. (G. G. Richards & C. Harivel)	Geology & Geochemistry	Outlined As soil anomaly
	1983	Majorem Minerals Ltd. G. G. Richards	Geology & Geochemistry	Coincident As-Au soil anomalies over silicified andesite tuff & altered rhyolite breccia. Values range from 1-498 ppb Au & 3-225 ppm As
Tan8 (Lapsed)	1980	UMEX (R. S. Tolbert)	Geochemistry	Isolated highs for Au, Ag & As

Claim	Year	Agent	Type of Work	Results
Garnet & Ruby	1953-1954	Cominco (R. Woolverton)	Prospecting & Staking	Discovery of high grade Zn-Cu & Cu Fe showings.
	1965-1966	Moresby Mines Co.	Prospecting & Trenching	Extend and sample showings
	1966	Moresby Mines Co. (D. Smellie)	Magnetometer Survey	Showed generally magnetically anomalous areas.
	1966	Moresby Mines Co. (D. Arscott)	Geology & detail Magnetometer survey	Work over showings used as a drilling guide.
	1966	Moresby Mines Co. (West Coast Core Drillers)	Diamond Drilling 7 Ax holes, 1076'	Proved erratic & pod like nature of high grade Zn-Cu mineralization
	1966	Moresby Mines Co. (D. Arscott)	Diamond Drilling 5 EX holes, 550'	Partially delimited moderate grade Cu-Fe mineralization.
	1967	Moresby Mines Co. (D. Arscott)	Geology & Prospecting	Outlined 2 areas 1000' x 500' & 400' x 2200' of disseminated Cu-Mo mineralization.
	1967	Canadian Superior Exploration Ltd.	Induced Polarization Survey	A 3,500' x 1,000' anomalous zone.
	1967	Canadian Superior Exploration Ltd.	Geology & Geochemistry	Confirmed I. P. anomaly.
	1967	Canadian Superior Exploration Ltd.	Magnetometer Survey	Delineated granodiorite-basalt contact readily.
	1968	Canadian Superior Exploration Ltd.	Diamond Drilling 3 AQ holes, 1,583' 3 EX holes, 400'	Disseminated Cu-Mo mineralization in granodiorites is sparse and below economic grade.
	1971	Imperial Oil Limited (P. Somerville)	Geology, Geochemistry Induced Polarization Survey	Outlined areas of anomalous Cu-Mo that coincide with I. P. anomaly defined drill targets.

Claim	Year	Agent	Type of Work	Results
Garnet & Ruby	1972	Imperial Oil Limited (Longyear)	Diamond Drilling 10 AQ holes, 2,132'	Subeconomic grades, less than 0.4% Cu equivalent.
	1974	Dowa Mining Co. Ltd. (Coates Drilling)	Diamond Drilling 3 IEX holes, 706'	No economic skarn type mineralization found.
King Neptune	1980	Charles Kowall	Staking	Staked to cover lapsed Garnet & Ruby Claims.
Tommy	1953-1954	St. Eugene Mining Co. (J. J. McDougall & M. Helper)	Prospecting & Staking	High grade Cu skarn on Tommy claim obtained from A. Jones. Billy claim staked.
	1956	St. Eugene Mining Co. (J. McDougall-M. Helper)	Prospecting	200' x 50' zone of disseminated Zn mineralization discovered.
	1965	Falconbridge Nickel Mines Ltd. (M. Helper)	Prospecting	Grab samples assayed up to 0.50 oz/ton Ag, 0.83% Cu & 3.39% Zn.
Crescent	1979	J. C. Stephen Exp. (J. T. Shearer)	Geochemistry, Geology Trenching	Large Au anomaly in soil outlined.
	1980	J. C. Stephen Exp. (J. T. Shearer)	Geology, Geochemistry, Airborne magnetometer & I. P. survey	Free Au in soils. Diverse rock types anomalous for Au.
	1980	B. C. Gold Syndicate (J. T. Shearer)	Diamond Drilling 6 BQ holes, 761m	Anomalous Au values with spot highs, but below ore grades.
Locke	1980	Ventures West Min. (G. G. Richards & J. S. Christie)	Geology & Geochemistry	Au anomaly outlined.
	1981	"	Geology & Geochemistry	Large soil As-Au anomaly outlined.
Locke, Goldy	1982	Majorem Minerals Ltd. (G. G. Richards & J. S. Christie)	Geology & Geochemistry Trenching	Three Au showings discovered with maximum values of 0.268 oz/ton Au.

Claim	Year	Agent	Type or Work	Results
Three Bears Hot Porridge	1982	Ventures West Min. (G. G. Richards & C. Harivel)	Geology & Geochemistry	Au values low, 10 ppb or less, As anomaly defined.
Lockeport	1980	J. C. Stephen Exp. (J. T. Shearer)	Geochemistry	Low Au values, high As in soil.
Four Corners	1980	Ventures West Min. (G. G. Richards & J. S. Christie)	Geology & Geochemistry	
	1981	Ventures West Min. (G. G. Richards & J. S. Christie)	Geology & Geochemistry	400 x 1000 m As soil anomaly coincident with rhyolite & andesite containing disseminated sulphides.
Geobet	1981	Ventures West Min. (G. G. Richards & J. S. Christie)	Geology & Geochemistry	As anomaly associated with altered rhyolite. Maximum Au values 66 & 32 ppb in rock & soil.
April	1979	Placer Development (W. S. Pentland)	Geochemistry, Magneto- meter & EM survey	
	1980	JMT Services (J. S. Christie & G. G. Richards)	Geology & Geochemistry	
	1980	Placer Development (J. S. Christie & G. G. Richards)	Diamond Drilling, Geology & Geochemistry	
	1981	Placer Development (W. S. Pentland)	Geology & Geochemistry	
	1981	Placer Development (W. S. Pentland)	Diamond Drilling 13 NQ holes, 2025 m	Intersections of up to 12m with more than 2 gms/t Au, a maximum of 20 gms/t Au over 3m.

Claim	Year	Agent	Type of Work	Results
April	1981	Placer Development (J. S. Christie & C. Harivel)	Geology & Geochemistry	
Swede Peninsula (now Eagle)	1907	Larsen, Pearson & Rodgers		Cu showing located.
	1907-1960		Many open cuts dug & 3 adits driven	Chalcopyrite in amygdules and along fractures of massive greenstones. Average grade of 0.6% Cu.
D (now Eagle)	1961	Queen Charlotte Resources (H. R. Morris)	Geology, Geochemistry Diamond Drilling	
Pogmohom (now Eagle)	1964	Placid Oil (H. R. Morris)	Magnetometer Survey	No anomalous areas.
D (now Eagle)	1965	King-Stevenson Gas (G. A. Wilson)	Geology	Best assays: Tr Au, 0.1 oz/ton Ag 0.83% Cu-average 0.3% Cu.
Brandy (now Eagle)	1969	Ana Lake Mining (W. J. Weymark)	Trenching Bulk Sampling Diamond Drilling	21 Drill holes indicate continuity of Cu - bearing zones.
Merry K (now Eagle)	1976	Rio Tinto (A. Troup)	Geology, Geochemistry & Magnetometer survey	
Anna	1980	Texasgulf Canada (P. Delancey)	Geochemistry	Low Au values generally with spot highs of 3410 & 1920 ppb Au in soil & rock respectively.
	1981	Kidd Creek Mines Ltd. (P. Delancey)	Geology & Geochemistry	Au mineralization associated with Tertiary intrusive is minor & erratic. Two anomalous areas with less than 93 ppb Au.
Alpine	1957	St. Eugene Mining Co. (C. M. Campbell Jr.)		Examined magnetite skarn at Apex showing.

Claim	Year	Agent	Type or Work	Results
Alpine	1961	Falconbridge Limited (J. J. McDougall)	Airborne magnetometer survey	Picked up Apex magnetite showing only by flying at low speeds a few feet above the deposit.
	1963	Westrob Mines (J. J. McDougall)	Diamond Drilling 3 holes, 320'	North & south exposures are one magnetite body.
Highgrade	1981	Ventures West Minerals (G. G. Richards & J. S. Christie)	Geology & Geochemistry	Major NW trending structure cuts basalt.
	1982	Majorem Minerals	Trenching	3 m wide mineralized structure in 2.5 km. long belt yields values of 0.06-0.1 oz/ton Au.
	1983	" "	Diamond Drilling 21 holes approx. 840m	Mineralization continues to depth of 30-50 m with individual assays up to 0.4 oz/ton Au.
Lyell	1980	UMEX (R. S. Tolbert)	Geochemistry	Small Au anomaly coincident with major NW trending shear zone values up to 350 ppb Au.
	1981	UMEX (I. Nadeau)	Diamond Drilling 4 holes, 305.4m	Values average 0.005 oz/ton Au, maximum of 0.075 oz/ton Au. No further work recommended.
	1959-1960	B. C. Dept. of Mines	Air magnetometer Survey over 750 km ² of Moresby Island	No new magnetite deposits discovered. Many anomalies a result of topographic highs & slightly higher than overage magnetite content of basic andesite & basalts.

Claim	Year	Agent	Type or Work	Results
Lyell	1969-1970	Falconbridge Ltd. (J. J. McDougall & R. B. bank & A. H. Dawson)	Reconnaissance Geochemistry Analyzed for Cu & Mo	Tasu Sound-a few high Mo values, no further work recommended. N. of Tasu & E of Moresby Lake - samples from through ice were not anomalous. Lockeport & Salmon River - in area of known Cu mineralization only 1 sample anomalous. W. coast S. of Tasu - no anomalies Peel inlet - Mosquito Lake - Cu & Mo anomalies warrant further prospecting. Anna Lake - One anomalous sample.
	1978	Falconbridge Ltd. (B. D. Simmon)	Reconnaissance Geochemistry	No anomalies on Rayonier Roads north of Tasu.
	1979	Falconbridge Ltd. (J. J. McDougall & P. J. Burns)	Reconnaissance Geochemistry	Two moderate Mo anomalies on west shore of Newcombe inlet.
Tak 1-2	1983	Falconbridge Ltd. (S. McAllister & K. Hicks)	Staking	
Pro 1-2	1983	"	"	
Sitka 1-3	1983	"	"	
Noah, Ark 1-2	1983	"	"	
Iron Duke	1911-1912			Property located and Crown granted.
	1918		80' Adit Minor test pitting	
	1959	Silver Standard Mines Ltd.	Magnetometer Survey	

Claim	Year	Agent	Type or Work	Results
	1961	Campbell M. Robertson	Geology	
	1961	Magnum Con. Mining	Geology and Magnetometer Survey	
	1962	Magnum Con. Mining	Diamond Drilling 15 AX holes, 3054'	
	1962	Silver Standard Mines Ltd. (D. D. Campbell)	Diamond Drilling 33 EX holes, 4,805'	546,000 Tons proven and probable ore, 46% Fe
Tasu Townsite	1910			Showing found.
	1954	Cominco	Relocated showing pitting & stripping	
	1964	Wesfrob Mines	Diamond Drilling 9 AX holes, 2,346'	100,000 tons low grade Fe ore
Lobstalk	1956	Falconbridge	2 pack sack holes 164'	One hole bottomed in magnetite.
	1964	Placid Oil	Magnetometer Survey	

The majority of the claims in the Tasu Area are held by Majorem Minerals Ltd. and were originally staked by members of JMT Services; J. S. Christie, G. G. Richards and C. Harivel. Majorem Minerals Ltd. would be interested in a package deal on most of their Queen Charlotte properties.

Placer Development Limited, which optioned the April Claims from JMT, is interested in a joint venture partner for further work.

The remaining claims in the Tasu Area are owned by various interests, (Figure 1c.).

GEOCHEMISTRY

Falconbridge Limited conducted reconnaissance stream sediment sampling in the Tasu Area during 1969, 1976 and 1978 to cover drainages in the following areas; Tasu found, west shore of Newcombe Inlet, north of Newcombe Inlet, Sewell Inlet, south of Moore Channel and Kootanay Inlet. All samples were analysed for copper and molybdenum. Additionally the 1970's samples were run for silver, mercury and arsenic. A number of soil samples have also been taken on the west shore of Newcombe Inlet. (Figure 3).

Soil and stream sediment geochemistry for gold and arsenic has been carried out on a property level on claims in the Tasu Area. A compilation of anomalies from assessment reports for claims in the area and from Falconbridge's own work is presented in Figure 4.

Gold

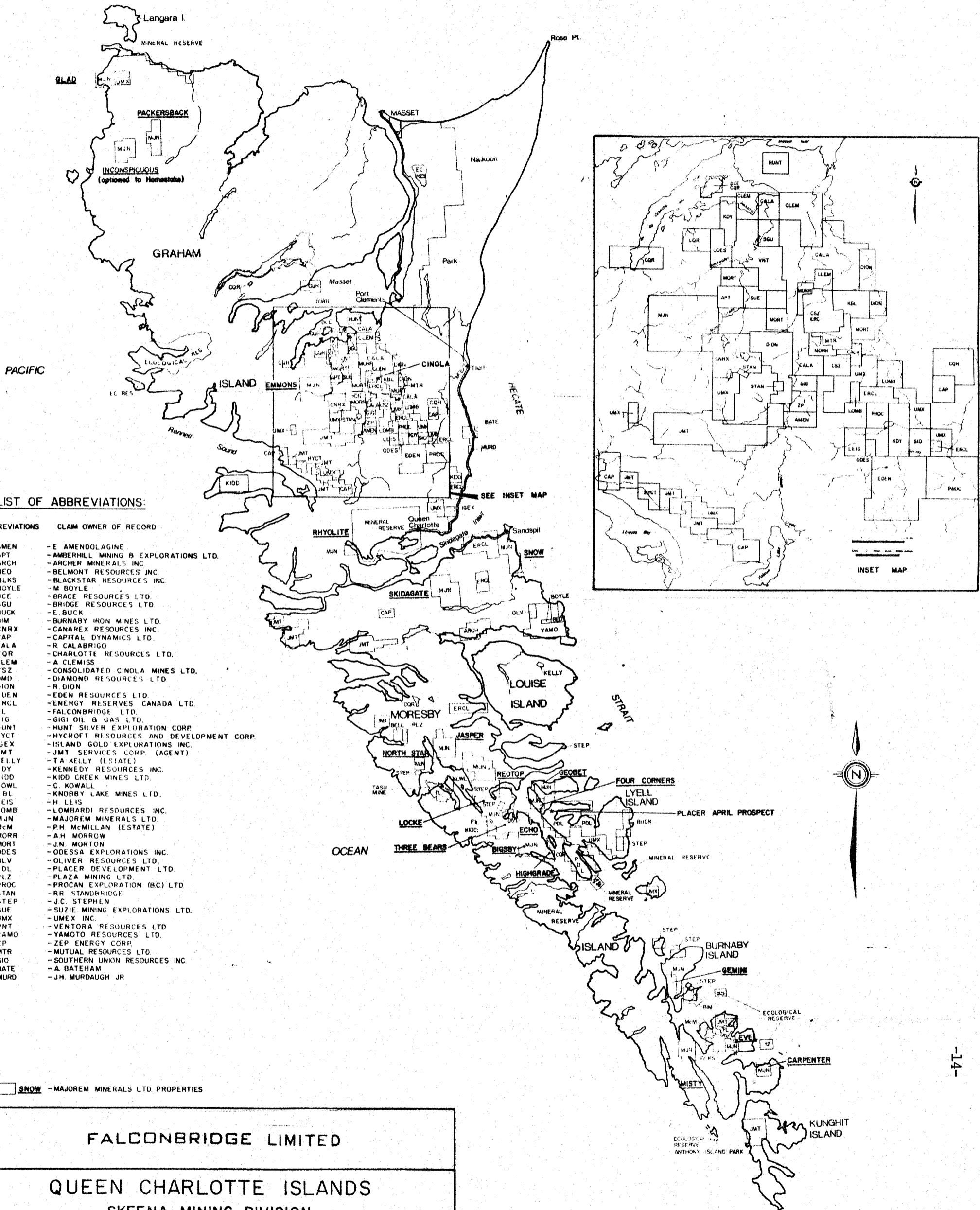
Gold soil anomalies are present on the Redtop, Crescent, Locke, April and Highgrade claims where except for April they are coincident with arsenic anomalies. On the Crescent claims free gold has been found in soils.

Stream sediment gold anomalies are sporadic, none of Falconbridge's soil or stream sediment samples have been analysed for gold.

TABLE 3

Gold Anomalies

<u>Claim</u>	<u>Anomaly Size</u>	<u>Maximum Au value:</u>	<u>Soil</u>	<u>Stream Sediment</u>
Noble	No soils sampled			1132 ppb
Redtop	300m x 400 m Open to the north		436 ppb	1050 ppb
Crescent	1000m x 950 m		7200 ppb Free gold in soil	
Locke	500 m X 600 m & 300 m X 100 m		523 ppb	
Ana				3410 ppb



LIST OF ABBREVIATIONS:

Abbreviations	CLAIM OWNER OF RECORD
AMEN	- E AMENDOLAGINE
APT	- AMBERHILL MINING & EXPLORATIONS LTD.
ARCH	- ARCHER MINERALS INC.
BEQ	- BELMONT RESOURCES INC.
BLKS	- BLACKSTAR RESOURCES INC.
BOYLE	- M. BOYLE
BCE	- BRACE RESOURCES LTD.
BGU	- BRIDGE RESOURCES LTD.
BUCK	- E. BUCK
BIM	- BURNABY IRON MINES LTD.
CNRX	- CANAREX RESOURCES INC.
CAP	- CAPITAL DYNAMICS LTD.
CALA	- R. CALABRIGO
COR	- CHARLOTTE RESOURCES LTD.
CLEM	- A. CLEMIS
CSZ	- CONSOLIDATED CINOLA MINES LTD.
DMD	- DIAMOND RESOURCES LTD.
DION	- R. DION
LUEN	- EDEN RESOURCES LTD.
ERCL	- ENERGY RESERVES CANADA LTD.
FL	- FALCONBRIDGE LTD.
GIG	- GIGI OIL & GAS LTD.
HUNT	- HUNT SILVER EXPLORATION CORP.
HYCT	- HYCROFT RESOURCES AND DEVELOPMENT CORP.
IGEX	- ISLAND GOLD EXPLORATIONS INC.
JMT	- JMT SERVICES CORP. (AGENT)
KELLY	- T.A. KELLY (ESTATE)
KDY	- KENNEDY RESOURCES INC.
KIDD	- KIDD CREEK MINES LTD.
KOWL	- C. KOWALL
KBL	- KNOBBY LAKE MINES LTD.
LEIS	- H. LEIS
LOMB	- LOMBARDI RESOURCES INC.
M.J.N.	- MAJOREM MINERALS LTD.
McM	- P.H. McMILLAN (ESTATE)
MORR	- A.H. MORROW
MORT	- J.N. MORTON
ODES	- ODESSA EXPLORATIONS INC.
OLV	- OLIVER RESOURCES LTD.
PDL	- PLACER DEVELOPMENT LTD.
PLZ	- PLAZA MINING LTD.
PROC	- PROCAN EXPLORATION (BC) LTD.
STAN	- R.R. STANBRIDGE
STEP	- J.C. STEPHEN
SUE	- SUZIE MINING EXPLORATIONS LTD.
UMX	- U.M.X. INC.
VNT	- VENTORA RESOURCES LTD.
YAMO	- YAMOTO RESOURCES LTD.
ZP	- ZEP ENERGY CORP.
MTR	- MUTUAL RESOURCES LTD.
SIO	- SOUTHERN UNION RESOURCES INC.
BATE	- A. BATEHAM
MURD	- J.H. MURDAUGH JR.

SNOW - MAJOREM MINERALS LTD. PROPERTIES

FALCONBRIDGE LIMITED

**QUEEN CHARLOTTE ISLANDS
SKEENA MINING DIVISION
MINERAL CLAIM MAP**

ACCURACY NOT GUARANTIED - This map is believed to be a good approximation of claim location and ownership. DATE - July 1, 1983 - Includes mineral claims recorded prior to July 1, 1983.

Fig. 10

<u>Claim</u>	<u>Anomaly Size</u>	<u>Maximum Au Value: Soil</u>	<u>Steam Sediment</u>
April		100 ppb	
Highgrade	800 m X 200 m & 1000 m X 100 m	7420 ppb	10,000 ppb

Arsenic

Northwest trending soil arsenic anomalies occur on the Jasper, Redtop, Crescent, Locke, and Highgrade claims frequently coinciding with gold soil anomalies. These arsenic anomalies are generally more extensive than the gold anomalies.

Arsenic stream sediment anomalies occur predominantly north of Sewell and Newcombe Inlets.

Copper

Most of the copper sediment anomalies occur in areas underlain by the Karmutsen basalts and appear to be a function of the basic lithology and not mineralization. Stream sediment sampling in two areas of known copper mineralization-Tasu Mine and the Swede Peninsula-yielded low to moderate copper values. On a regional scale these two areas might not have been picked up.

Molybdenum

The only stream sediment molybdenum anomaly occurs on the east side of the King Neptune claim in an area of known molybdenum mineralization. Soils on the west side of Newcombe Inlet are anomalous for molybdenum.

Mercury

Mercury stream sediment anomalies occur on the west shore and north of Newcombe Inlet. Mercury is not a sensitive indicator of mineralization in the Queen Charlottes as the northwest trending structures are frequently highly anomalous for mercury.

Silver

Soils anomalous for silver are located on the west shore of Newcombe Inlet. Anomalous silver stream sediments occur north of Newcombe Inlet in the area of the recently staked Pro and Tak claims.

Summary

In view of the fact that stream sediment geochemistry has been the basis for staking many claims in the Tasu Area it should be noted that three areas of known mineral occurrence in the Queen Charlottes have not been delineated by conventional stream sediment sampling. As mentioned before Tasu Mine and Swede Peninsula yielded low to moderate copper values while the Cinola gold deposit on Graham Island did not exhibit any stream sediment gold anomalies (Barakso and Tegart, 1982). Definite gold anomalies in the vicinity of the Cinola deposit were found using a heavy mineral sampling technique.

Should Falconbridge do any further stream sediment geochemistry in the Tasu Area sampling techniques such as sieving the sample to a -40 or -80 mesh fraction in the field or heavy mineral sampling must be considered.

GEOLOGY

General

The Tasu Area forms part of the Insular Tectonic belt and is underlain by rocks ranging in age from late Triassic to Recent. Volcanic rocks dominate, followed by intrusive and sedimentary rocks. (Table 2), Three main periods of vulcanism and sedimentation, as well as two periods of intrusive activity are represented in the rocks of the Tasu Area. (Figure 5).

The oldest rocks in the area are the submarine basalts of the Karmutsen Fm. Pillow basalts, massive basaltic flows and sills, often amygduloidal, and minor interlava limestones are present.

The Jurassic-Triassic Kunga Fm. conformably overlies the Karmutsen. The Kunga limestone and argillites represent a preperiod of marine sedimentations.

The Jurassic Yakoun Fm. may be disconformable or somewhat unconformable with the Kunga Fm. This dominantly volcanic unit is composed of porphyritic andesite, tuffs, agglomerate, flows, volcanic sandstone and conglomerate with minor shale.

The Karmutsen, Kunga and Yakoun Formations comprise the lithostratigraphic unit of Wrangellia that were accreted to the West coast in the Mesozoic. (Yorath and Chase).

The Lower Cretaceous Longarm Fm. unconformably overlies the Yakoun Fm. and is composed of calcareous siltstone, greywacke, conglomerate and minor volcanic rocks.

The Jurassic diorite to quartz diorite San Cristobal batholith outcrops in the southwest of the map area and intrudes the Karmutsen and Kunga Formations. These syntectonic plutons together with the Longarm Fm. comprise the suture assemblage.

The Cretaceous Haida Fm. unconformably overlies all older units and is composed of sandstone, siltstone and shale deposited in a marine basin.

The cap of Upper Cretaceous conglomerate, the Honna Fm., overlies the Haida Fm. unconformably, possibly interfingering. The Haida and Honna Formations together comprise the post-suture assemblage.

The Tertiary Massé Fm. is a thick accumulation of volcanic flows and breccias, ranging from basalt to rhyolite in composition that unconformably overlie all older units. Some basic and acid hypabyssal intrusives are also included in the formation.

Cretaceous-Tertiary post-tectonic plutons, mainly granodiorite and quartz monzonite stocks, intrude all older units. The rift assemblage is composed of these plutonic rocks and the volcanic rocks of the Massé Fm.

Table of Formations for Tasu Area

AGE	STRATIGRAPHIC UNIT	INTRUSIVE ROCKS	TECTONIC ASSEMBLAGE
Quaternary	Alluvium		
Tertiary	Masset Fm.	Post-Tectonic Plutons	RIFT
Cretaceous	Honna Fm.		POST SUTURE
	Haida Fm.		
	Longarm Fm.	Syntectonic Plutons	SUTURE ASSEMBLAGE
Jurassic	Yakoun Fm.		
	Kunga Fm.		(WRANGELLIA) ALLOCHTHONOUS
Triassic	Karmutsen Fm.		

Table 2
(after Sutherland Brown, Yorath and Chase)

Mineral Occurrences

The only producing mine in the map area has been the Wesfrob Mine at Tasu. The mineral showings in the area are outlined in Figure 6. Table 4 shows the association between host rock and type of mineralization. What follows is a brief description of each showing starting from the southeast of the map area.

Highgrade (Majorem Minerals Ltd.)

Geology, geochemistry and trenching have outline gold showings in a NNW trending belt 2.5 km long by 400m wide. Trenching indicated mineralized structures with an average width of 3m and values in the range of 0.06-0.1 oz/t Au. This belt is coincident with gold and arsenic soil anomalies (Figure 4).

Diamonddrilling has shown that mineralization continues to depths of 30-50m. Individual assays range up to 0.4 oz/ton Au, with the general range of values from 0.06-0.1 oz/ton Au.

TABLE 4

Mineralization - Host Rock Association

<u>Type of Mineralization</u>	<u>Showing</u>	<u>Host Rock</u>
Au-bearing quartz vein systems	Early Bird	Karmutsen Basalt
	Blue Mule	" "
	Ellen	" "
	Highgrade	" "
Disseminated Cu	Swede	Karmutsen Basalt
Pyrometasomatic Fe-Cu	Tasu	Kunga limestone & Karmutsen basalt
	Garnet	" " " "
	Apex	" " + Quartz Diorite
Disseminated Au	Crescent	Masset Gabbro & Rhyolite
	April	Masset Fragmental Rhyolite
	Locke	Kunga limestone & Masset dykes
Pyrometasomatic Fe.	Iron Duke	Kunga limestone & Karmutsen basalt
	Tasu Townsite	" "
	Lobstock	Karmutsen basalt
Disseminated Cu-Mo	Garnet	Diorite

This system of Au-bearing quartz veins has been emplaced along a major structure within the Karmutsen basalt. The gold potential on this property is promising.

Ellen

Gold mineralization occurs in two small (8") intersecting quartz breccia

veins that cut basalts, limestones and argillites of lower Karmutsen Formation. Free gold occurs in the veins. Fifty tons of ore yielded 18 oz. Au. This showing has no economic Au potential due to the size of the quartz veins.

Ticksey and Shuttle (Charlotte Resources Ltd.)

The gold content of beach gravels was derived from the erosion of small gold-bearing quartz veins in Karmutsen basalt which outcrop along the adjacent shore. Due to the size of the source veins these placers have no real Au-potential.

Lobstock

The showing consists of pyritic magnetite replacing metamorphosed Karmutsen basalt adjacent to limestone beds.

April (Placer Development Ltd.)

Gold mineralization has been found in the northwest striking fragmental rhyolite unit of the Masset Formation. Eleven of eighteen drill holes had at least one intersection of 2-5 grams/ton Au over 3-12 meters. Some holes had more than one intersection. Two holes returned values of 17.07 and 11.20 gms/ton Au each over 6 meters. The 400 meter long zone is open to the southeast and Placer is looking for a joint venture partner to put up \$175,000 to further test this zone.

Swede (Diamond Resources Ltd.)

Copper mineralization occurs in the form of chalcopyrite and bornite filling in amygdules and hairline fractures in massive amygdaloidal basalts of the Karmutsen formation. Average values are 0.6% Au with maximum of 2.4% Cu. The mineralization is erratic and of submarginal economic interest.

Apex

Iron and copper mineralization occurs as magnetite skarn at the base of Kunga limestone San Cristobal quartz diorite contact. Drilling by Falconbridge in 1963 indicated the presence of 200,000 tons of ore running 34% Fe, 0.9% Cu, and 0.72 oz/ton Ag.

Locke (Majorem Minerals Ltd.)

Gold mineralization occurs within a fault bounded block of Kunga limestone cut by andesite to rhyolite dykes. Coincident soil arsenic and gold anomalies have been outlined, covering an area 2 kilometers by 500 meters. Trenching was carried out in areas of altered and silicified outcrops. The chip samples ranged in values from 0.268 oz/ton Au to less than .003 oz/ton Au both over 1.5 meters. The gold mineralization is restricted to narrow zones that are small and discontinuous in plan view.

Trenching has not been carried out on the area with the best developed geochemical anomaly. Trenching is warranted on this area and follow-up drilling would be required.

Crescent (J. C. Stephen)

This property was staked in 1979-80 by the B. C. Gold Syndicate consisting of McIntyre, Newmont and Cantung. Coincident soil Au (+ 100 to 7000 ppb) and As anomalies were outlined. Trenching yielded a maximum value of 0.472 oz/ton Au associated with a 3 cm quartz stringer in a highly altered rhyolite rich in pyrite and arsenopyrite. Six holes drilled had disappointing results with gold values in the .03 oz/ton range, in a variety of rock types. More drilling was approved in the highly anomalous area when McIntyre apparently backed out. The property could be available on joint venture basis.

Hawk's Nest (J. C. Stephen)

The information available on this showing is sparse. Tension gashes within Karmutsen basalt are filled with minor amounts of pyrite and chalcopyrite. One sample of diorite with irregular blebs of chalcopyrite yielded 2000 ppb Au. No information available on zinc mineralization.

Tasu Townsite (Falconbridge)

Diamond drilling in 1964 determined the presence of 100,000 tons of low grade Fe ore in the form of magnetite skarn. No further work has been done to date.

Tommy (Falconbridge)

The claims were staked to cover a narrow high grade copper vein 2-7' by 200' of 0.72-0.83% Cu, but may not actually cover this showing. A 50' by 200' low grade zone of 2-3% zinc as disseminated sphalerite is present on the claim. These skarn occurrences are likely to be limited, this uneconomical.

Garnet (C. Kowall)

This showing is presently contained within the King Neptune claim. Chalcopyrite-zinc skarns with values of up to 30.3% Zn proved to be very small and erratic. Two areas, 1000' by 500' and 400' by 2200', of Cu-Mo mineralization were discovered within diorite with values of 0.15% Cu and 0.01% MoS₂. This mineralization proved to be sparse and below economic grade. A copper-iron-silver skarn was also found on the property with overall average grades of 1.3% Cu, 5-44% Fe, 0.6 oz/ton Ag and 0.08% MoS₂. Tonnage proved to be limited to no more than 100,000 tons.

Blue Mule (Plaza Mining Ltd.)

Gold mineralization occurs in a series of NE striking quartz veins that cut Karmutsen basalt. Early work (1913-1932) reported values of 0.2-0.6 oz/t Au, while more recent (1980) work indicates values of 0.03 oz/ton Au and 0.01 oz/ton Ag.

Early Bird (Charlotte Resources)

Gold mineralization occurs in quartz veins cutting Karmutsen basalt probably emplaced along faults. Before 1940, 197 tons of ore yielded 304 oz Au and 30 oz Ag. Recent drilling resulted in values ranging from .001-.008 oz/ton Au.

Iron Duke (Estate of T. A. Kelly)

Drilling of the magnetite skarn has indicated the presence of 546,000 tons of proven and probable ore with a grade of 46% Fe.

Summary

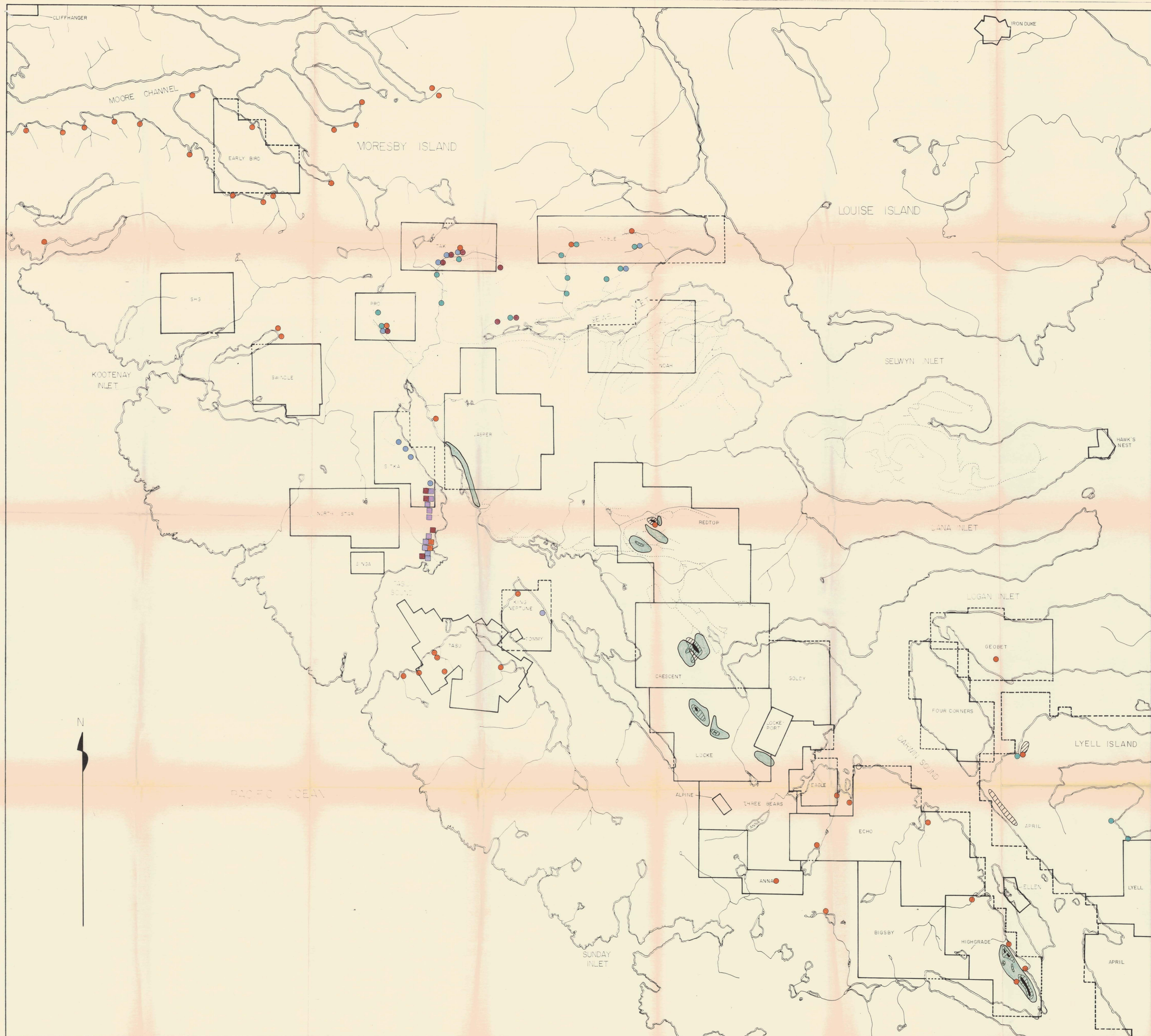
The Tasu area has shown potential for gold, iron, copper, copper-zinc, and copper-molybdenum mineralization. The present economic potential for mineralization other than gold is weak due to both low and erratic grades as well as limited tonnages.

The areas with the best gold potential seem to be Majorem's Highgrade and Placer Development's April properties. These have been taken the furthest to date. Majorem's Locke claim also has promising gold potential, as well as J. C. Stephen's Crescent property. These properties all lie in a NW trending belt. All these owners would be interested in a joint venture.

REPORTS & REFERENCES AVAILABLE

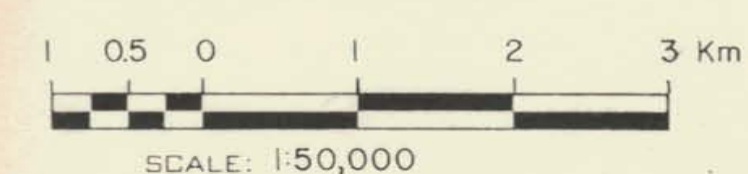
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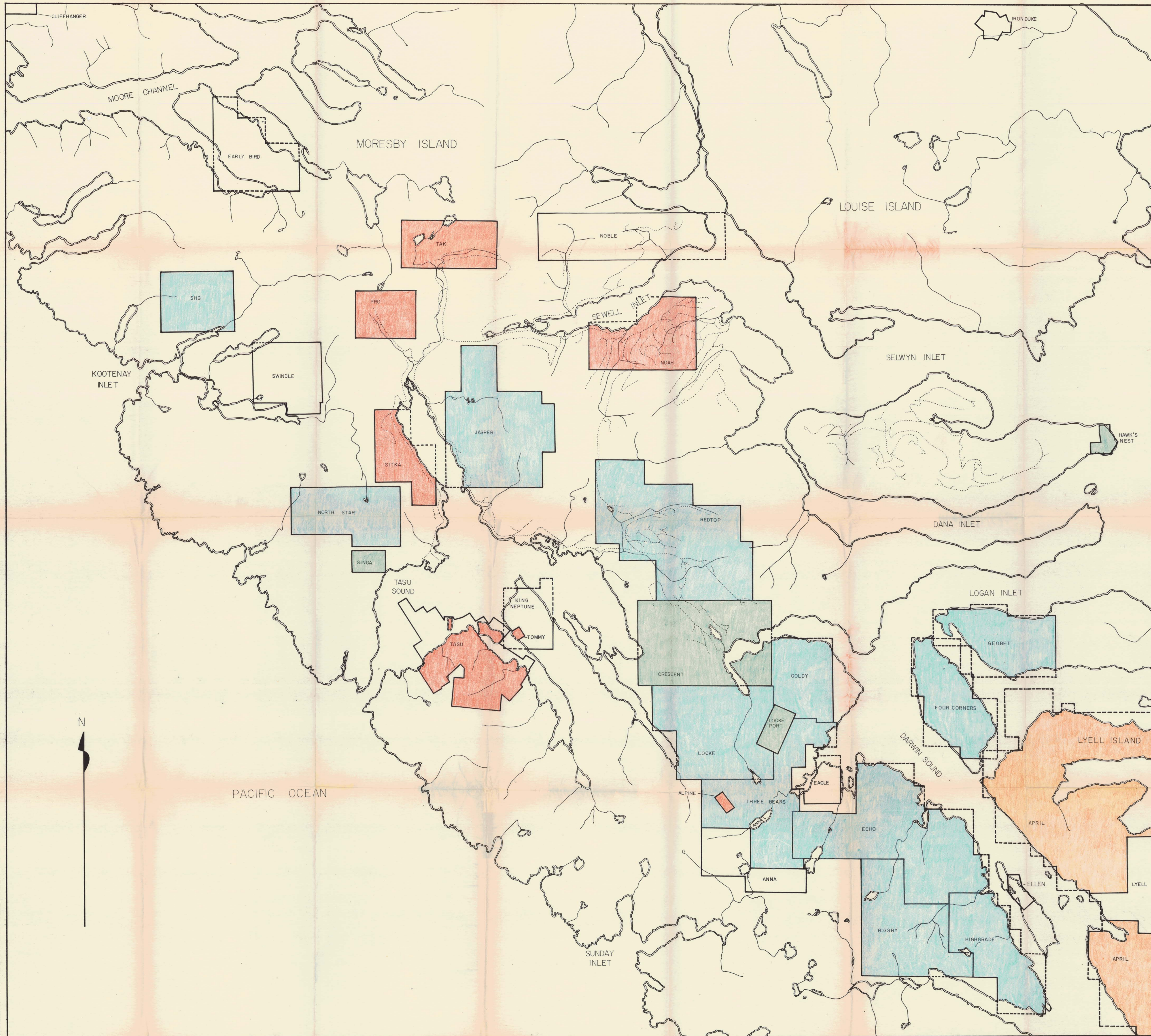


LEGEND

- CLAIM BOUNDARY
- LOGGING ROAD
- STREAM
- SOIL GEOCHEMISTRY:
 - ≥ 30 ppm As
 - ≥ 20 ppb Au
 - ≥ 100 ppb Au
- SOIL & SILT ANOMALIES
 - Au
 - Cu
 - Mo
 - Ag
 - Hg
 - As

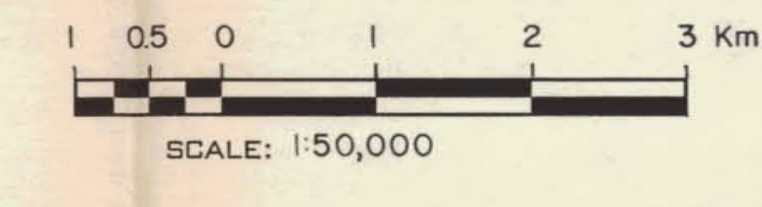


FALCONBRIDGE LIMITED		PROJECT NO.
		092
QUEEN CHARLOTTE ISLANDS		
GEOCHEMISTRY		
WORKING PLACE: TASU AREA		
BASED ON:		
DATE OF WORK:	MAP REF. NO.:	FIG. NO.:
DRAWN BY: SM		4
DATE: OCTOBER 1983	N.T.S. NO.: 03 & 12 & 13 03, 02, & 6	



LEGEND

- CLAIM BOUNDARY
- LOGGING ROAD
- STREAM
- CLAIM OWNERSHIP
- FALCONBRIDGE LIMITED
- MAJOREM MINERALS LTD.
- J.C. STEPHEN
- PLACER DEVELOPMENT LTD.
- OTHER

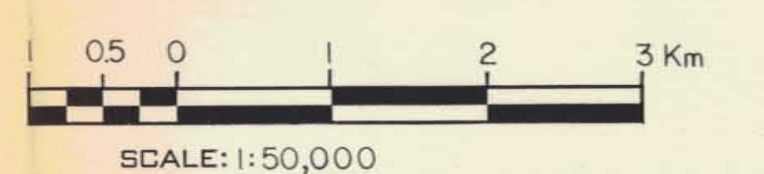


FALCONBRIDGE LIMITED		PROJECT NO.:
		092
LOCATION:		
QUEEN CHARLOTTE ISLANDS		
TYPE OF MAP:		
CLAIM MAP		
WORKING PLACE: TASU AREA		
BASED ON:		
DATE OF WORK:	MAP REF. NO.:	FIG. NO.:
DRAWN BY: SM		2
DATE: OCTOBER 1983	N.T.S. NO.: 103 5/12 & 13	
	103 5/2 & 3	

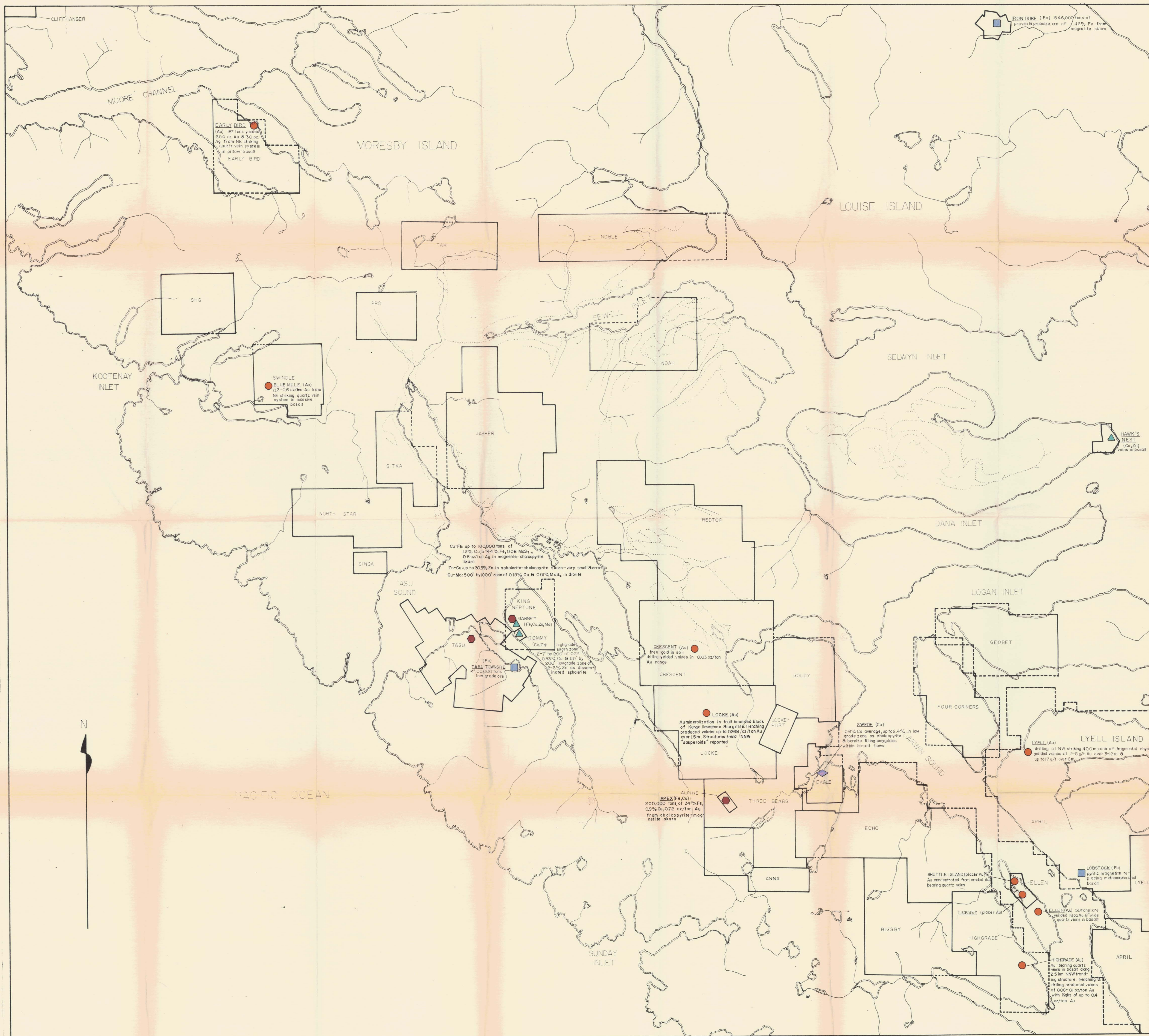


LEGEND

- QUATERNARY**
- Q Recent alluvium, Pleistocene till, marine drift and outwash sands
- TERTIARY**
- TM Massey Formation: subaerial basalt flows and breccias, rhyolite ashflows and lesser dacite
 - TM undivided Massey Formation
 - TMD Feldspar porphyry
 - TME Gabbro-diorite
- CRETACEOUS**
- QUEEN CHARLOTTE GROUP (KS, KHO, KHA)**
- KHO Hanna Formation: conglomerate with granitic cobbles, arkosic grits and minor shale
 - KHA Haida Formation: green glauconitic and grey sandstone, grey silty shale and sandstone and buff calcareous siltstone
 - KL Longarm Formation: dark grey calcareous siltstone and fine lithic greywacke, angular fine conglomerate and minor volcanic rocks
- VANCOUVER GROUP (JY, JM, JKU, TRKU, TRKA)**
- JURASSIC**
- JY Yakon Formation: porphyritic andesite agglomerate and flows, calcareous scoriaceous lapilli tuff, volcanic sandstone and conglomerate, minor tuffaceous shale and coal
 - TRJKU Kunga Formation: massive grey limestone, flaggy black limestone and flaggy black argillite-undivided
 - JKU flaggy black argillite member, minor limestone
 - TRKU limestone members, undivided
 - TRKU₁ flaggy black limestone member, minor argillite
 - TRKU₂ massive grey limestone member
- TRIASSIC**
- TRKA Karmutsen Formation: basalt massive flows, pillow lavas, pillow breccia and tuff, related sills, minor interlava limestone, volcanic sandstone and shale and amphibolized equivalents
- PLUTONIC ROCKS**
- CRETACEOUS AND TERTIARY**
- KTP Post-tectonic plutons: quartz monzonite, granite, granodiorite and quartz diorite
- JURASSIC ?**
- JS Syntectonic plutons: hornblende diorite and quartz diorite
- Fault (defined, approximate) ————
- Lineaments
- Geological contacts (defined, approximate, assumed) - - - - -
- Logging road (active and inactive) - - - - -

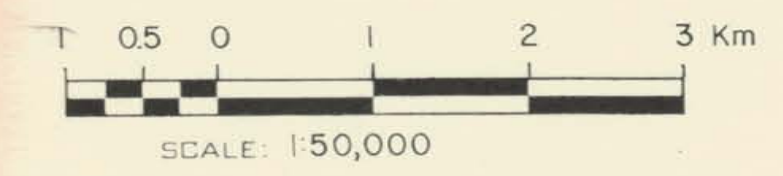


FALCONBRIDGE NICKEL MINES LIMITED		
PROPERTY:	PROJECT NO.:	
	073	
	072	
QUEEN CHARLOTTE ISLANDS		
GEOLOGY		
WORKING PLACE: <i>Tasu Area</i>		
BASED ON:		
DATE OF WORK:	MAP REF. NO.:	FIG. NO.:
DRAWN BY: S.M.		
DATE: OCTOBER 1983	N.T.S. NO.:	5
	103/2813	
	103/2816	



LEGEND

- CLAIM BOUNDARY ————
- LOGGING ROAD ————
- STREAM ————
- SHOWINGS
- Au
- Fe
- ▲ Cu, Zn
- ◆ Fe, Cu
- ◇ Cu



FALCONBRIDGE LIMITED		PROJECT NO.
		092
QUEEN CHARLOTTE ISLANDS		
MINERAL SHOWINGS		
WORKING PLACE: TASU AREA		
BASED ON:		
DATE OF WORK:	MAP REF. NO.:	FIG. NO.:
DRAWN BY: SM		6
DATE: OCTOBER 1983	N.T.S. NO.: 103 B/12 & 13	(03, 02, & 16)

EARLY BIRD
(Au) HP tons yielded
30-4 oz Au @ 50 oz
Ag from NE striking
quartz vein system
in pillow basalt
EARLY BIRD

SWINDLE
(Au)
Blue Bull (Au)
up to 0.02/ton Au from
NE striking quartz vein
system in massive
basalt

Cu-Fe: up to 100,000 tons of
13% Cu, 5-14% Fe, 0.08 MoS₂,
0.5 oz/ton Ag in magnetite-chalcopyrite
skarn
Zn-Cu up to 30.3% Zn in sphalerite-chalcopyrite skarn - very small barroisite
Cu-Mo: 500' by 1000' zone of 0.15% Cu @ 0.01% MoS₂ in diorite

KING NEPTUNE
(Fe, Cu, Zn, Mo)
High grade
skarn zone
2-7' by 200' of 0.72%
0.83% Cu @ 50' by
200' low grade zone of
2-3% Zn or dissem.
isolated sphalerite

CRESCENT (Au)
Trace gold in soil
drilling yielded values in 0.03 oz/ton
Au range

LOCKE (Au)
Auriferous in fault bounded block
of Kungo limestone & argillite. Trenching
produced values up to 0.256 oz/ton Au
over 1.5 m. Structures trend NNW
'Jasperoids' reported

ALPINE
APEX (Fe, Cu)
200,000 tons of 34% Fe,
0.8% Cu, 0.72 oz/ton Ag
from chalcopyrite-mag-
netite skarn

SWIDE (Cu)
0.6% Cu average, up to 2.4% in low
grade zone as chalcopyrite
& barite filling amygdalae
within basalt flows

LYELL (Au)
drilling of NW striking 400 m zone of fragmental rhyolite
yielded values of 2-2.5 g/t Au over 300 m @
up to 17 g/t over 5 m

LOBSTOCK (Fe)
Synitic magnetite re-
placing metamorphosed
basalt

ELLEN (Au)
50 tons ore
yielded 1802 Au @ 8" wide
quartz veins in basalt

HIGHGRADE (Au)
Au-bearing quartz
veins in basalt along
2.5 km NNW trend-
ing structure. Trenching
drilling produced values
of 0.06% Cu over Au
with highs of up to 0.4
oz/ton Au

SHUTTLE ISLAND (placer Au)
Au concentrated from eroded Au
bearing quartz veins

TICKSEY (placer Au)

HIGHGRADE

BIGSBY

APRIL

APRIL

ANNA

THREE BEARS

EAGLE

LOCKE

LOCKE

LOCKE

LOCKE

LOCKE

GOULDY

GOULDY

GOULDY

GOULDY

REDFTOP

REDFTOP

REDFTOP

REDFTOP

NOAH

NOAH

NOAH

NOAH

SEWELL

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NOBLE

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PRO

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PRO

SHG

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SHG

SHG

KOOTENAY
INLET

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INLET

MORESBY ISLAND

LOUISE ISLAND

SELWYN INLET

DANA INLET

LOGAN INLET

GEOBET

FOUR CORNERS

LYELL ISLAND

APRIL

APRIL

APRIL

APRIL

APRIL

APRIL

PACIFIC OCEAN

SUNDAY INLET

SUNDAY INLET

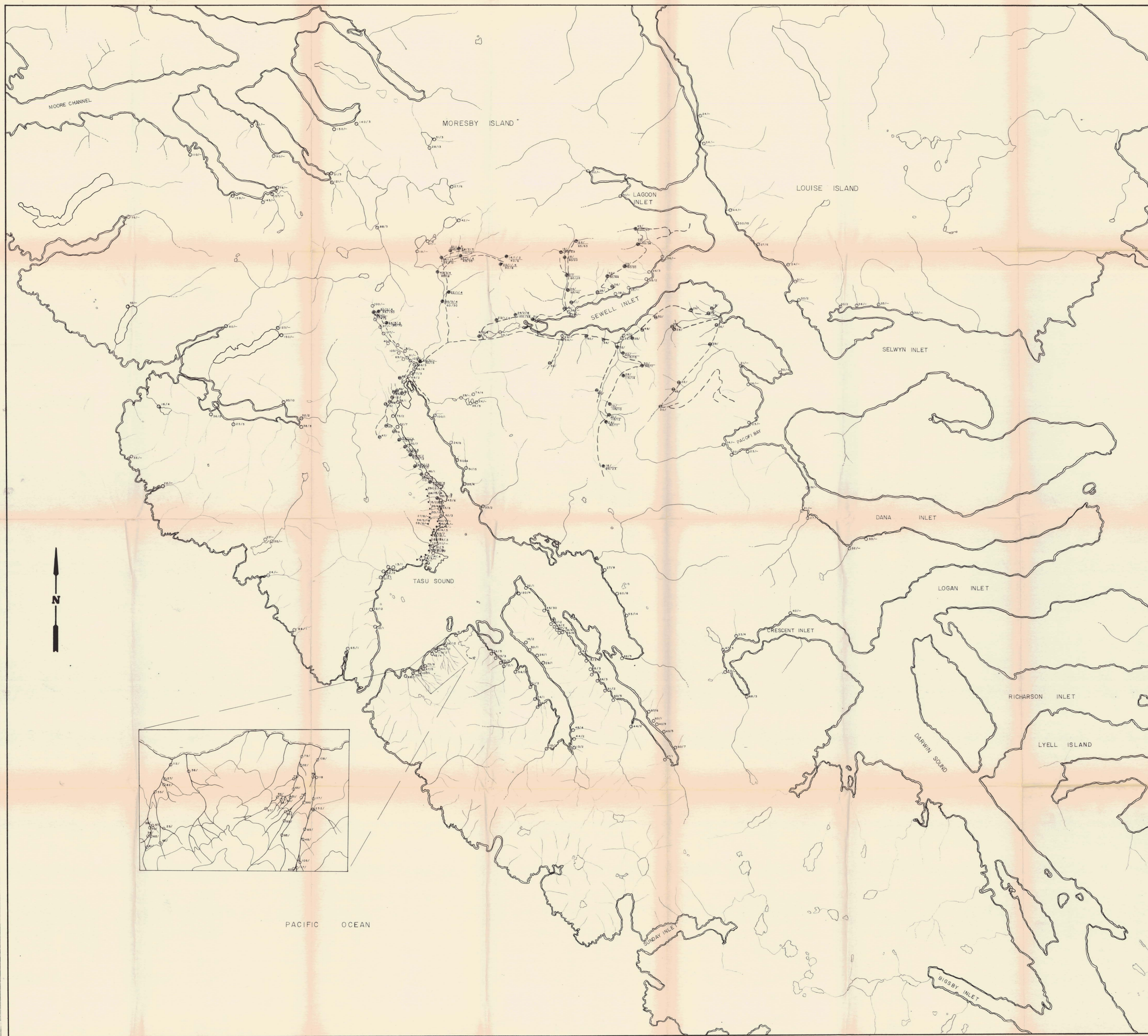
SUNDAY INLET

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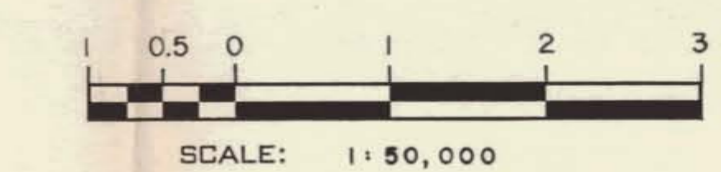
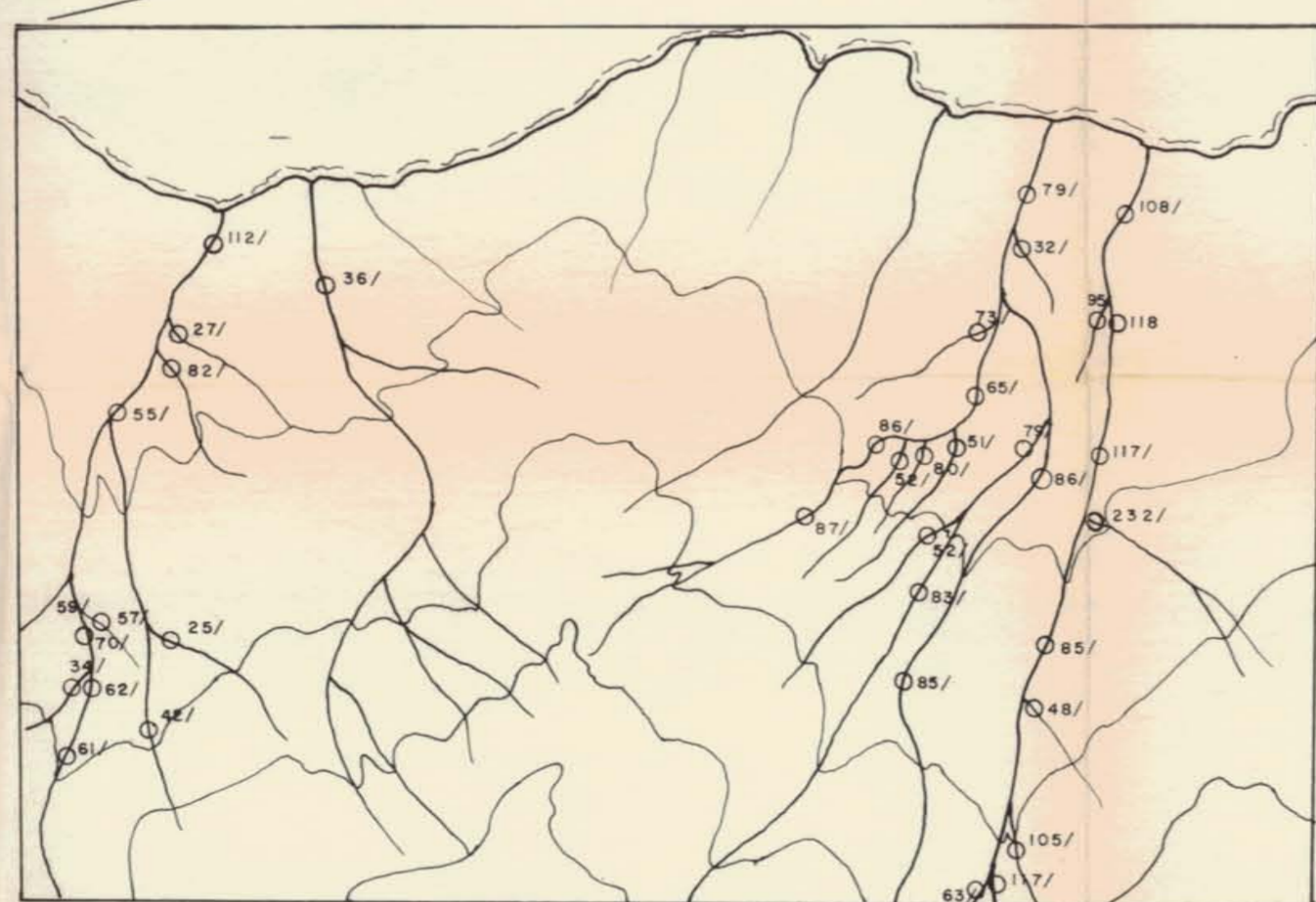
LEGEND

Stream Sed. Geochem.

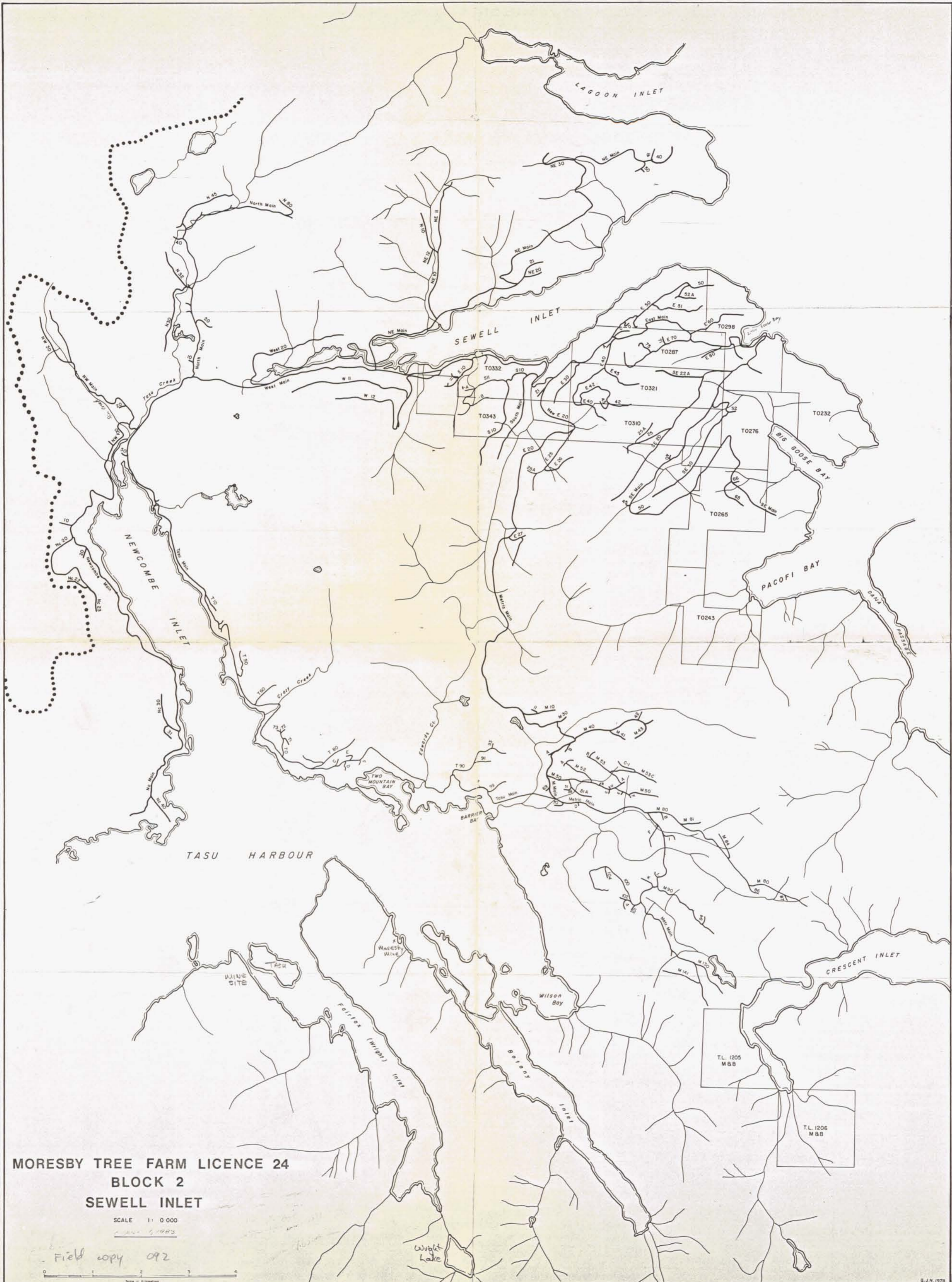
- - 1969 SAMPLE
- ⊖ - 1976 SAMPLE
- ⊕ - 1978 SAMPLE
- - SOIL SAMPLE

Values

40/3/5 - CU/MO/AG (ppm)
 67/20 - Hg(ppb)/AS (ppm)



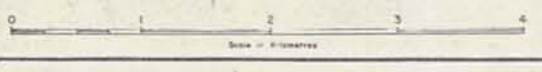
FALCONBRIDGE LIMITED		PROJECT NO.
		092
LOCATION		
QUEEN CHARLOTTE ISLANDS		
TYPE OF MAP		
STREAM SEDIMENT GEOCHEMISTRY		
WORKING PLACE: TASU AREA		
BASED ON:		
DATE OF WORK: SEPT., 1983	MAP REF. NO.:	FIG. NO.:
DRAWN BY: S.Z.	103 B/12 B13	3
DATE: OCTOBER, 1983	N.T.S. NO.: 03 C/9 B16	



**MORESBY TREE FARM LICENCE 24
BLOCK 2
SEWELL INLET**

SCALE 1:0 000
1983

Field copy 092





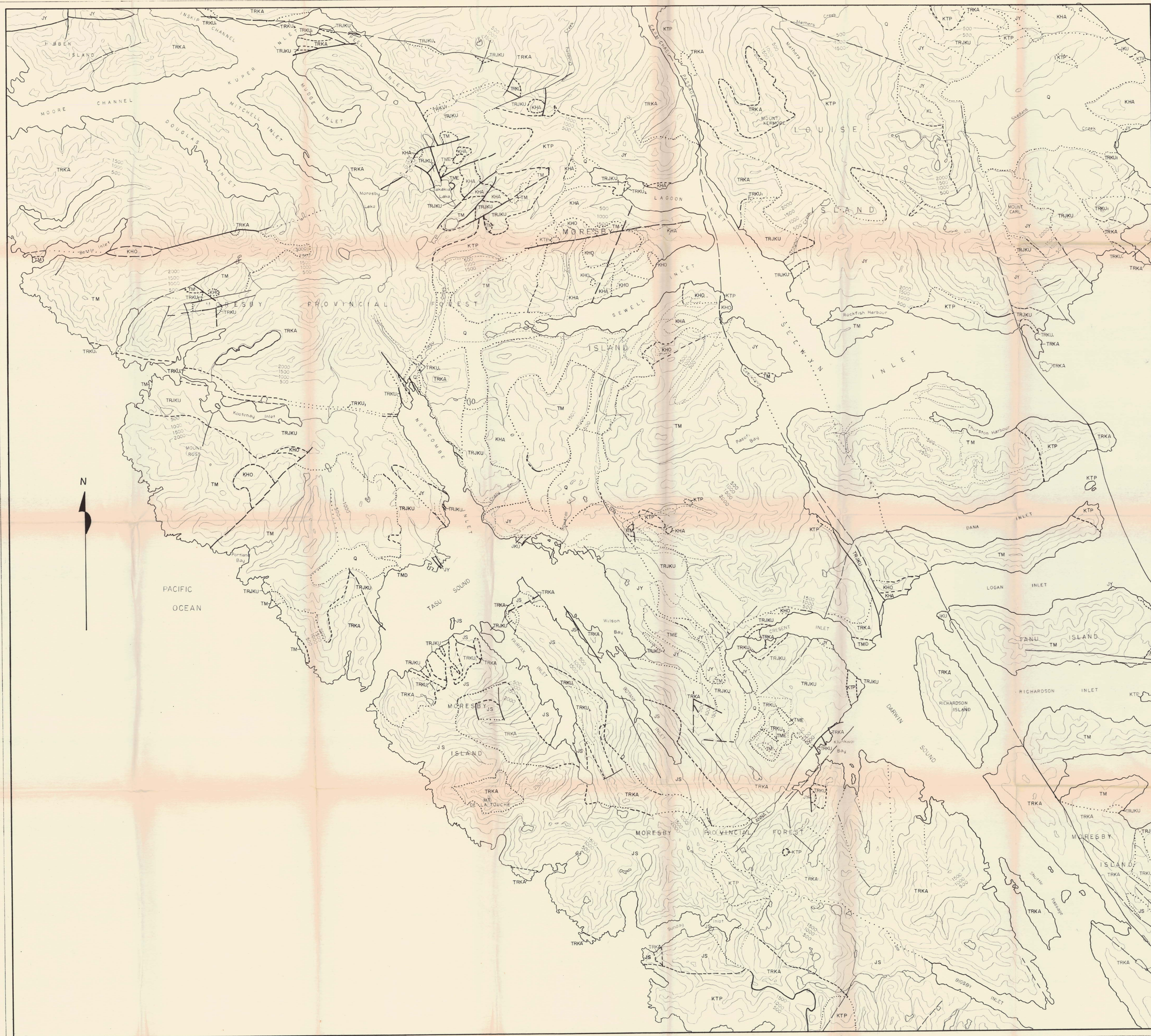
**MORESBY TREE FARM LICENCE 24
BLOCK 2
SEWELL INLET**

SCALE 1:10 000

1983

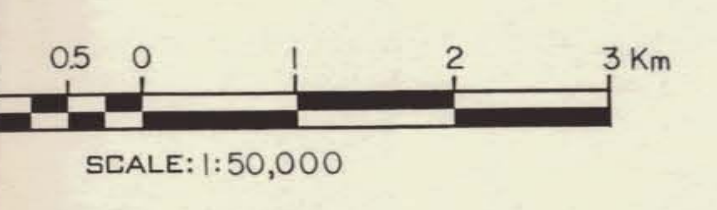
Field copy 092





LEGEND

- QUATERNARY**
- Q Recent alluvium, Pleistocene till, marine drift and outwash sands
- TERTIARY**
- TM Mosset Formation: subaerial basalt flows and breccias, rhyolite outflows and lesser dacite
 - TM undivided Mosset Formation
 - TMD Feldspar porphyry
 - TME Gabbrro-diabase
- CRETACEOUS**
- QUEEN CHARLOTTE GROUP (KS, KHO, KHA)**
- KHO Hanna Formation: conglomerate with granitic cobbles, arkosic grits and minor shale
 - KHA Hada Formation: green glauconitic and grey sandstone, grey silty shale and sandstone and buff calcareous siltstone
 - KL Longarm Formation: dark grey calcareous siltstone and fine lithic greywacke, angular fine conglomerate and minor volcanic rocks
- VANCOUVER GROUP (JY, JM, JKU, TRKU, TRKA)**
- JURASSIC**
- JY Yakon Formation: porphyritic andesite agglomerate and flow, calcareous saccaraceous lapilli tuff, volcanic sandstone and conglomerate, minor tuffaceous shale and coal
 - TRJKU Kunga Formation: massive grey limestone, flaggy black limestone and flaggy black argillite-undivided
 - JKU flaggy black argillite member, minor limestone
 - TRKU limestone members, undivided
 - TRKU flaggy black limestone member, minor argillite
 - TRKU massive grey limestone member
- TRIASSIC**
- TRKA Karmutsen Formation: basalt massive flows, pillow lavas, pillow breccia and tuff, related sills, minor interlava limestone, volcanic sandstone and shale and amphibolized equivalents
- PLUTONIC ROCKS**
- CRETACEOUS AND TERTIARY**
- KTP Post-tectonic plutons: quartz monzonite, granite, granodiorite and quartz diorite
- JURASSIC ?**
- JS Syntectonic plutons: hornblende diorite and quartz diorite
- Fault (defined, approximate) ————
- Lineaments
- Geological contacts (defined, approximate, assumed) - - - - -
- Logging road (active and inactive) - - - - -



FALCONBRIDGE NICKEL MINES LIMITED		
PROPERTY:	PROJECT NO. 092	
LOCATION:		
QUEEN CHARLOTTE ISLANDS		
GEOLOGY		
WORKING PLACE: TASU AREA		
BASED ON:		
DATE OF WORK:	MAP REF. NO.:	FIG. NO.:
DRAWN BY: SM		5
DATE: OCTOBER 1983	N.T.B. NO.: 1038/2615	
	1038/916	