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Till geochemistry and clast lithology data for the Mira-Framboise Area, Southeastern Cape Breton Island, Nova Scotia

M.B. McClenaghan, R.N.W. DiLabio, K.A. Laurus

1992

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Framboise Area, Southeastern Cape Breton Island, Nova
Scotia¹**

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TABLE OF CONTENTS

	page
INTRODUCTION.....	1
Purpose.....	1
Location and Access.....	3
Previous Work.....	5
Geology.....	5
Bedrock Geology.....	5
Quaternary geology.....	10
METHODS.....	12
Sample collection.....	12
Geochemical analyses.....	15
Pebble counts.....	18
Data Evaluation.....	18
RESULTS AND DISCUSSION.....	19
Regional Patterns.....	19
Detailed Grid Patterns.....	21
ACKNOWLEDGMENTS.....	22
REFERENCES.....	24
APPENDICES	
Appendix A. Sample locations and descriptions.....	27
A.1 1990 till and pebble samples.....	29
A.2 1991 till and pebble samples.....	35
A.3 Bedrock and float samples.....	55
Appendix B. Till geochemical data for the <0.063 mm fraction, proportional symbol maps and summary statistics.....	59
B.1 1990 orientation study data.....	61
B.2 Regional data.....	71
B.3 Deep Cove detailed grid data.....	109
B.4 Blue Mountain detailed grid data.....	121
B.5 Stirling area detailed grid data.....	135
B.6 Stratigraphic section data.....	147

Appendix C. Bedrock and float boulder geochemical data.....	155
Appendix D. Analytical methods and quality control results.....	159
D.1 Analytical methods.....	161
D.2 1991 till standard analytical data.....	165
D.3 1991 till duplicate sample analytical data.....	169
D.4 1991 bedrock standards and duplicate analytical data.....	177
D.5 1990 till standards and duplicate analytical data.....	181
Appendix E. Pebble lithology data for the 1-5 cm fraction, proportional symbol maps and summary statistics.....	185
E.1 Regional data.....	187
E.2 Deep Cove detailed grid data.....	207
E.3 Blue Mountain detailed grid data.....	215
E.4 Stirling Area detailed grid data.....	227
E.5 Stratigraphic section data.....	239

Tables

Table 1. Analytical methods for till and bedrock samples.....	16
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List of Figures

Figure 1. Location of the study area in eastern Canada.....	2
Figure 2. Location of study area in southeastern Cape Breton Island.....	4
Figure 3. Location of regional sample sites, sections and the 3 detailed sampling grids at Stirling, Deep Cove and Blue Mountain.....	in back pocket
Figure 4. Bedrock geology and mineral occurrences*.....	6
Figure 5. Regional ice flow patterns.....	11

* also in back pocket as a clear film overlay for regional sample proportional symbol maps in appendices B and E.

INTRODUCTION

Purpose

As part of the Canada-Nova Scotia Cooperation Agreement on Mineral Development, reconnaissance and detailed till sampling were completed in the Mira (NTS 11F/16) and Framboise (11F/9) areas of southeastern Cape Breton Island, Nova Scotia (Figure 1) during the 1990 and 1991 field seasons. The purposes of this project were to document changes in till provenance and relate these to the complex sequence of ice flow patterns known from glacial striae and to demonstrate methods for evaluating the mineral potential of the area using drift prospecting techniques. These were accomplished by examining the till stratigraphy exposed in coastal sections, by collecting regional till samples from across the entire study area, and by collecting closely spaced till samples around the Deep Cove and Blue Mountain mineralized bedrock occurrences and the Mindamar Mine at Stirling.

This open file report includes sample location information and descriptions, till geochemical data, till pebble lithology data, and limited bedrock and float boulder geochemical data. These data are listed in the appendices. Digital data files, including sample site UTM coordinates, site descriptions, till geochemical data, pebble lithology data and bedrock geochemical data, are available on computer diskettes. A 1:50,000 colour version of the bedrock geology map (Figure 4) is also available in digital form on 2 diskettes. Documentation on each diskette describes file contents and formats.

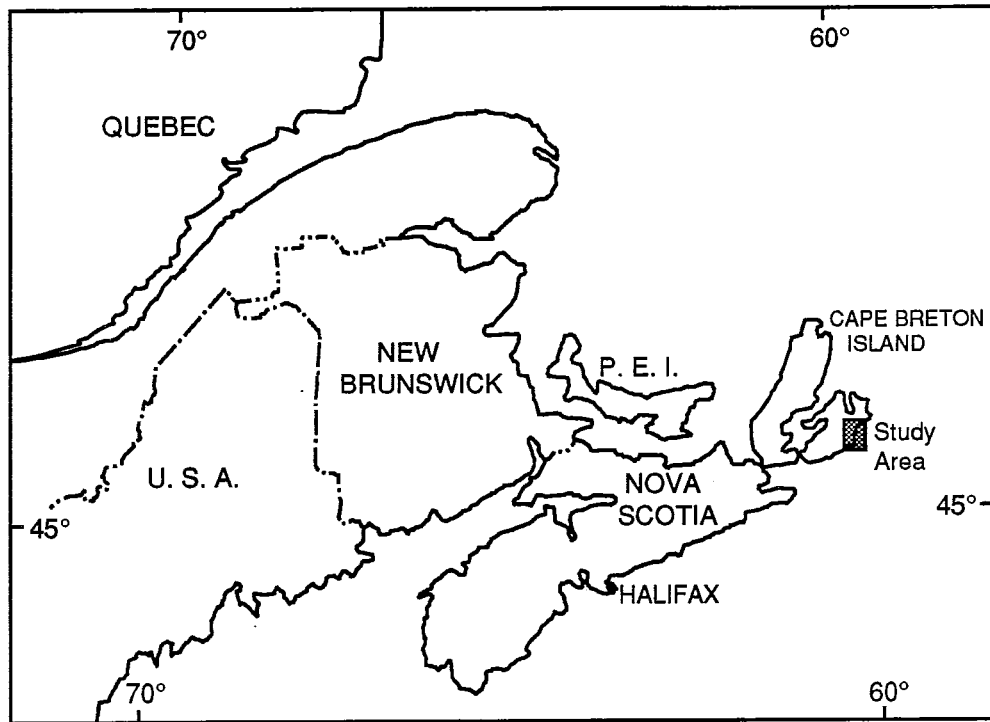


Figure 1. Location of the study area in eastern Canada.

A final report containing detailed interpretations of the data presented here and their relationship to the Quaternary stratigraphy of the area will be published at a later date. The results from the till geochemistry program provide baseline geological data for future mineral exploration and outline anomalous areas which warrant further investigation.

Location and Access

The Mira-Framboise area (Figure 2) is located on the southeastern side of Cape Breton Island, 15 km south of Sydney, between latitudes 45°38'N and 46°00'N and longitudes 60°00'W and 60°30'W. A detailed map of the study area, at a scale of 1:50,000, is included in the back pocket (Figure 3). The area includes parts of Cape Breton and Richmond counties and comprises approximately 1100 km². The area is bounded to the east by the Atlantic Ocean, and to the northwest by East Bay of Bras d'Or Lake. The Mira River bisects the northern half of the area and flows north-northeastward through Marion Bridge towards its outlet at the Atlantic Ocean. Louisbourg National Historic Park is located on the northeastern shore of Gabarus Bay. Major villages in the study area include Marion Bridge, Gabarus, Fourchu and Framboise.

The Mira-Framboise area is traversed by Highways 327 and 4, running south-southwestward through the area from Sydney. Numerous secondary roads and logging roads provide access to most of the area. Those areas not accessible by vehicle were reached using a helicopter.

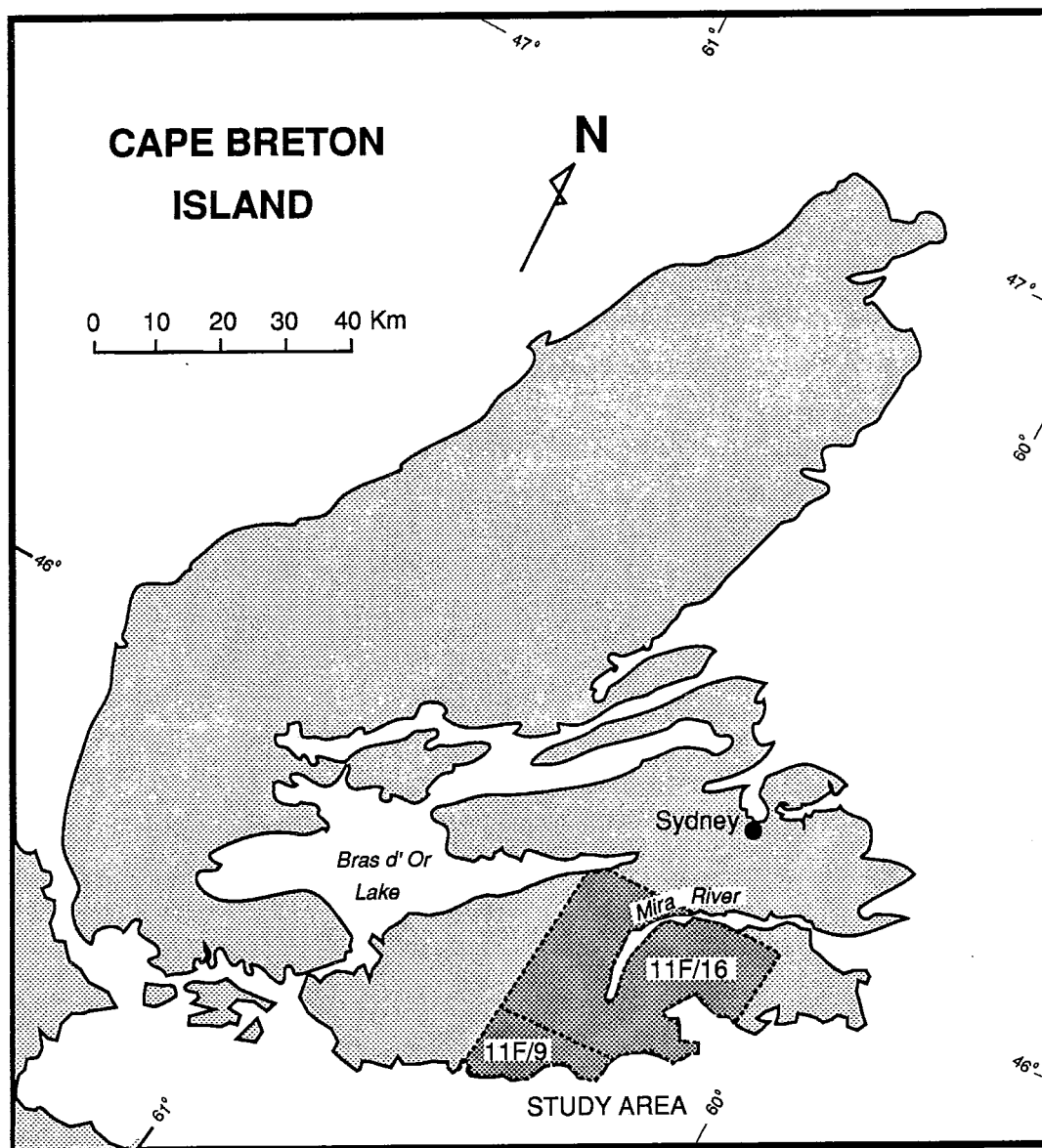


Figure 2. Location of study area in southeastern Cape Breton Island.

Previous Work

Fortescue and Hornbrook (1969) completed a biogeochemical survey around the Yava Pb deposit to determine the applicability of biogeochemical prospecting in southeastern Cape Breton Island. The Mira-Framboise area was included in two regional geochemical surveys that were completed by the Nova Scotia Department of Mines and Energy. Stream sediments were collected as part of a regional survey completed in 1982 (Rogers, 1983) and lake bottom gyttja samples were collected as part of regional survey of eastern Cape Breton Lowlands (Rogers and MacDonald, 1984). Data from both surveys were combined and plotted as a series of Open File Maps (Rogers and MacDonald, 1986; Lombard, 1991). Sangster (1988) described the geochemical results and glacial dispersal patterns in B horizon soil samples collected in the Blue Mountain area, southeast of Marion Bridge. MacDonald et al. (1991) completed a detailed, multimedia (vegetation, humus, A horizon soil and till) geochemical study in the area surrounding the east zone of the Yava Pb deposit.

Geology

Bedrock Geology

Barr et al. (1990) have assigned all the rocks of the study area to the "Mira Terrane". According to Barr et al. (1990), the Mira Terrane consists of Precambrian Fourchu Group (Weeks, 1954) metavolcanic and metasedimentary rocks lying in northeast-southwest oriented belts, separated by younger, mainly sedimentary units (Figure 4). These units comprise late Precambrian to early Carboniferous clastic and volcanic rocks, several Cambrian clastic



Figure 4. Bedrock geology of the Mira-Framboise area. Numbers 1 to 6 correspond to mineral occurrences listed in the legend on the following two pages. A clear film version of this map is included in the back pocket for overlaying on proportional symbol maps in appendices.

LEGEND

Southeastern Cape Breton Island

7

CARBONIFEROUS

MORIEN GROUP

- 19 *GLENGARRY VALLEY AND BIG BARREN FORMATIONS*: green-grey and red polymictic conglomerate, sandstone, siltstone, shale, mudstone

RIVERSDALE GROUP

- 18 *SILVER MINE FORMATION*: grey-green and grey sandstone; grey-green and red mudstone, siltstone; minor coal

CANSO GROUP

- 17 *MACKEIGAN LAKE FORMATION*: grey shale, siltstone with gypsum, anhydrite; red shale

WINDSOR GROUP

- 16 *UIST, LOCH LOMOND AND ENON FORMATIONS*: red siltstone, sandstone, conglomerate with intercalated limestone, dolostone, gypsum, anhydrite; includes basal conglomerate

- 15 Undivided

CAMBRIAN

LATE CAMBRIAN

- 14 *MACNEIL FORMATION*: grey shale, siltstone; black limestone

MIDDLE CAMBRIAN

- 13 *MACLEAN BROOK FORMATION*: grey quartz sandstone, siltstone, shale

- 12 *TROUT BROOK FORMATION*: grey to red-brown cleaved shale and siltstone

- 11 undivided

EARLY CAMBRIAN

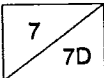
- 10 *CANOE BROOK FORMATION*: red-brown calcareous mudstone, siltstone; rare pink limestone

- 9 *MACCODRUM FORMATION*: light grey to green micaceous siltstone, sandstone

- 8 white quartz arenite

LATE PRECAMBRIAN TO DEVONIAN

INTRUSIVE ROCKS





- 7  *Felsic Intrusives*: 7, Precambrian intrusive units including Chisholm Brook granodiorite, quartz monzonite; Capelin Cove leucogranite; Belfry Gut granite; Lower St. Esprit granite; Huntington Mtn. granite. 7D, Devonian intrusive units including Gillis Mtn. granite, monzodiorite; Deep Cove granite; Salmon River rhyolite porphyry

- 6 *Mafic Intrusives*: Precambrian units including Chisholm Brook diorite; gabbro; mafic porphyry

LATE PRECAMBRIAN TO EARLY CAMBRIAN

8

5	maroon to red quartzite, quartz pebble conglomerate; micaceous sandstone
4	KELVIN GLEN FORMATION: orange arkosic sandstone; purple to grey wacke; micaceous red sandstone
	FOURCHU GROUP (INCLUDING UNITS OF THE MAIN A DIEU SEQUENCE AND COASTAL AND STIRLING BELTS)
3	Volcanogenic Sediments: volcanic conglomerate, wacke, siltstone intercalated with volcanic flow and pyroclastic units
2	Intermediate to Felsic Volcanics: 2a, dacitic to rhyolitic flows; 2b, dacitic to rhyolitic tuff, quartz-feldspar crystal tuff; 2c, undivided
1	Mafic to Intermediate Volcanics: 1a, basalt to andesite flows; 1b, tuff, lapilli tuff, basalt to andesite lithic crystal tuff; 1c, undivided

Geological boundary (approximate or assumed)	
Regional fault	
Contact metamorphic aureole	
Metallic mineral occurrence	

INDEX TO METALLIC MINERAL OCCURRENCES

1. Deep Cove (Cu, Mo, Zn, Ag, Bi)
2. MacDonald Lake (Pb, Zn)
3. Copper Shaft (Cu, Zn, Pb, Mo, Ag, Bi)
4. Gillis Mountain (Cu, Mo)
5. Yava (Pb)
6. Stirling (Zn, Pb, Cu, Ag, Au)

Map Compilation Sources

Barr, S.M.; MacDonald, A.S. and White, C.E.

1988: The Fourchu Group and associated granitoid rocks, Coxheath Hills, East Bay Hills, and southwestern Stirling and Coastal belts, southeastern Cape Breton Island, Nova Scotia; Geological Survey of Canada, Open File 1759, 15p., 2 maps (1:50,000 scale).

1989: Geological maps of the Coastal and Stirling belts, southeastern Cape Breton Island, Nova Scotia; Geological Survey of Canada, Open File 1988, 2 maps (1:50,000 scale)

Barr, S.M.; White, C.E. and MacDonald, A.S.

1992: Revision of upper Precambrian - Cambrian stratigraphy, southeastern Cape Breton Island, Nova Scotia; in Current Research, Geological Survey of Canada, Paper 92-1, p.21-26.

Boehner, R.C. and Prime, G.

1985: Geology of the Loch Lomond basin and Glengarry half graben, Nova Scotia; Nova Scotia Department of Mines and Energy, Map 85-2 (1:50,000 scale).

Weeks, L.J.

1958: Geology, Mira sheet, Cape Breton and Richmond counties, Cape Breton Island, Nova Scotia; Geological Survey of Canada, Map 1056A (1 inch = 1 mile)

formations and Carboniferous clastic units in the Windsor Group (Barr et al. 1992). Plutonic rocks within the Fourchu Group are mainly late Precambrian to Cambrian in age (Cormier, 1972) except for the Salmon River rhyolite porphyry, the Gillis Mountain Pluton and the Deep Cove Pluton which are Devonian in age (Barr et al., 1990). Cambrian hornfelsic sedimentary rocks near Blue Mountain are believed to be contact metamorphic aureoles marking the positions of subjacent Devonian granite plutons (Sangster, 1988).

The strong northeast-southwest "grain" of the terrane is controlled by northeast-southwest oriented bedrock faults and bedrock ridges composed of the more resistant rock types, mainly the Fourchu Group rocks in the East Bay Hills and the Precambrian and Devonian granitic rocks and their contact metamorphic aureoles.

There are two abandoned mines in the study area, the Mindamar Mine (Zn-Pb-Cu massive sulphide deposit) at Stirling and the Yava Mine (sandstone-hosted Pb) at Silver Mine (Figure 4). Bedrock in the northeast part of the study area hosts several small Cu-Pb-Zn-Bi-Mo-Ag mineral occurrences within Devonian granitic rocks and their thermal aureoles, including: 1) the Deep Cove occurrence (Mo-Ag-Bi-Cu) in the Fortress of Louisbourg National Historic Park; 2) the Blue Mountain (MacDonald Lake; Sangster, 1988) occurrence (Pb-Zn), southeast of Marion Bridge; 3) the Gillis Mountain occurrence (Mo-Cu), east of the Mira River; and 4) the Copper Shaft occurrence (Cu-Bi), 1 km southwest of Blue Mountain (Figure 4). There are several other smaller showings of mainly pyritic mineralization throughout the study area, about which there is very little information published. Mineralized float boulders have been

found along the southern shore of Gabarus Bay, in the vicinity of Gull Cove (Macdonald, 1989).

Quaternary Geology

The surficial geology of the Mira-Framboise area was mapped by Grant (1988) at a scale of ^{1:250,000}1:250,000, as part of the regional surficial mapping of Cape Breton Island. Striations and landforms indicate that the study area was affected by at least 3 major ice flow events during the Wisconsin; an oldest flow to the east (ice flow 2 on Figure 5), a younger flow to the north-northeast (ice flow 3) and a youngest flow to the south-southeast (ice flow 4).

Most of the study area is covered by till except for the East Bay Hills, in the northwest corner. The highest point in the study, Sgurra Bhreac (700 m above sea level), is located there. In the south, large till ridges that are 1 to 8 km long, up to 0.5 km wide and 30 to 60 m high, trend eastward. These ridges are composed of red, silty till and were formed by older, eastward ice flow (ice flow 2). The surfaces of the ridges are covered in flutings oriented southeastward that were formed by the third, southeastward ice flow event (ice flow 4). Southwest of southern end of the Mira River and in northeastern part of area, northeastward trending drumlins cover the surface. They were formed by the second, northeastward ice flow event (ice flow 3). Southwest of the Mira River, northwest-southeast flutings are superimposed on the drumlins. They were shaped by the final, south-southeastward ice flow event (ice flow 4).

As part of this study, coastal sections around Gabarus Bay and at several other locations as far south as St. Esprit Beach were examined in an attempt to relate the multiple tills exposed in the

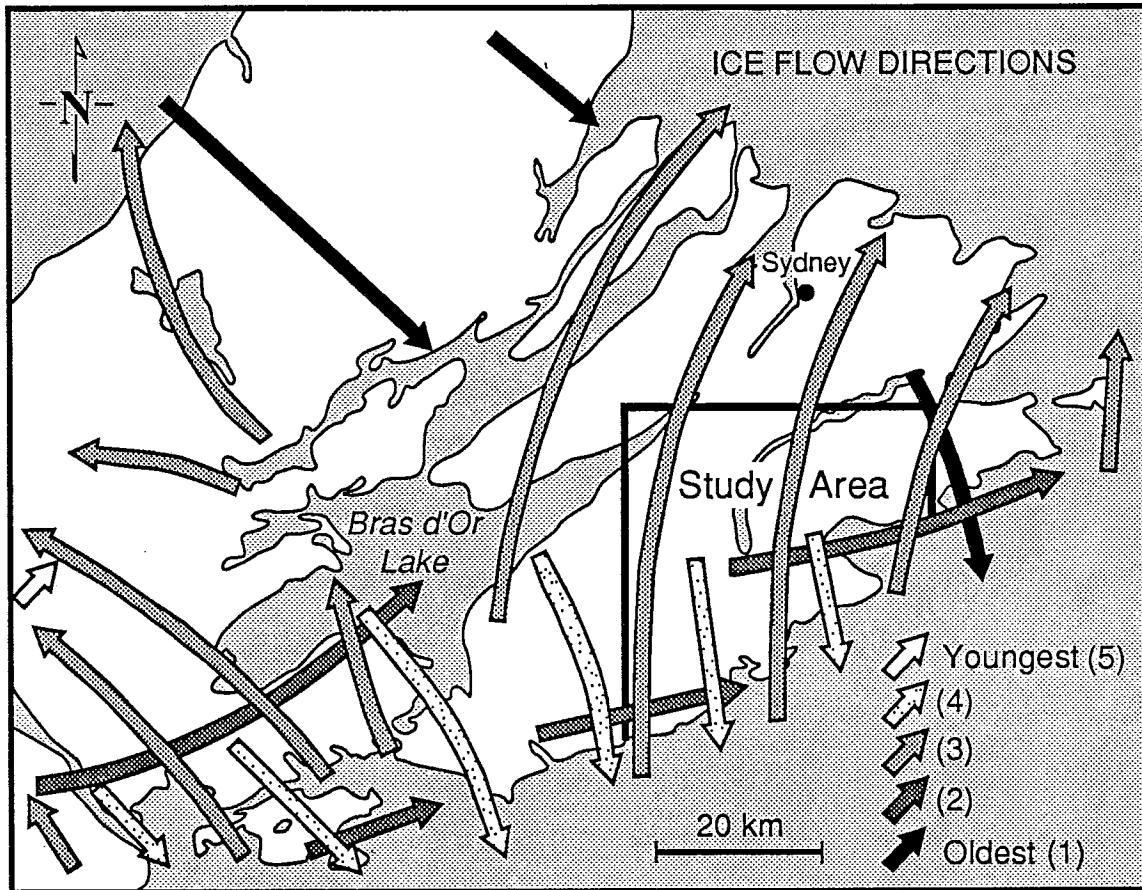


Figure 5. Regional ice flow patterns (modified from MacDonald et al. 1991; Grant, 1988).

sections to the complex ice flow history known from striations and surface features described above. The oldest till in the area is a grey, silty sand till that is exposed only at two sites near English Cove. It is silty till, which we interpret as resulting from the older eastward ice flow event (Figure 5). Most of the region is covered by the reddish, silty till that contains a mixture of local and distantly derived clasts. The red colour and fine-grained texture of this till are the result of erosion of Carboniferous sedimentary rocks to the west. In the southern part of the area, the red till is overlain by a discontinuous grey, sandy till composed mainly of locally derived clasts and varying in thickness from less than 0.5 m in the Stirling area to 3.0 m at Capelin Cove and St. Esprit Beach. Till fabric data indicate that the red, clay-rich till was deposited by ice flowing eastward (ice flow 2) and that it was remolded by north-northeastward flowing ice (ice flow 3). The sandy till cap was probably deposited by ice flowing north-northeastward (ice flow 3). These two phases of ice flow are recorded by striae on many outcrops exposed along the coast. Highland areas in the northern part of the study area have only a thin cover of locally derived stony, sandy till. This till was most likely deposited by ice flowing northward (ice flow 3).

The correlations of the till units and ice flow phases with those described by Stea et al. (1992) will be made in the final report.

METHODS

Sample Collection

Orientation studies completed in 1990 were used to determine which part of the soil profile developed on till was the best sampling medium for the regional till sampling program. Approximately 130

till samples were collected from 4 sections along the coast and from 25 smaller sections sampled in detailed around the Yava, Deep Cove, MacIntyre Lake, Copper Shaft, and Blue Mountain base metal occurrences. Results indicated that the <0.063 mm fraction of the C horizon is a useful fraction for analysis. The UTM easting and northing coordinates, and descriptions for the 1990 till samples are listed in Appendix A and site locations are shown in Figure 3. Till geochemical data are listed in Appendix B. These data were not used in the calculation of summary statistics or the plotting of regional geochemical maps.

In 1991, till samples (2 kg) were collected over the entire region as part of the regional survey and from 3 smaller areas overlying known bedrock mineralization (Figure 4). A total of 324 regional till samples were collected from sites 3 to 5 km apart, some of which correspond to regional biogeochemical sample sites, also sampled in 1991 by the Geological Survey of Canada (Dunn and Adcock, 1991). Till samples were collected from the C horizon of soil exposed in hand-dug surface pits 0.5 to 1.0 m deep. Sample sites were reached by vehicle using the existing network of roads and trails and by walking along the shoreline. The most remote areas were reached by helicopter. Regional till samples were collected for prospecting purposes, to establish regional background values of base and precious metals in drift and to identify anomalous areas that may indicate mineralization in the underlying or nearby bedrock.

An additional 169 till samples were collected from the C horizon of soil in hand-dug surface pits from closely spaced sites around an inactive base metal mine and 2 mineralized bedrock

occurrences (refer to location map in back pocket). These 3 areas were sampled in detail to document the nature of glacial dispersal from the mineralized sources, i.e., the directions and distance that successive ice flow events have dispersed material and the variation in trace element concentration in tills around the bedrock source. Around the former Mindamar base metal Mine at Stirling, 46 till samples were collected approximately 200 to 500 m apart in a 24 km² area. At four of the sites, an additional till sample was collected to compare the composition of the thin, discontinuous cover of sandy till to the underlying, red silty-clay till that blankets the area. A total of 51 till samples were collected in a 1.5 km² area around the Deep Cove Mo- Ag-Bi-Cu occurrence in the Fortress of Louisbourg National Historic Park. Five to six till samples were collected at 100 m spacings along each of seven lines oriented north-south and spaced 100 to 150 m apart. In the Blue Mountain (MacDonald Lake) area, 69 till samples were collected approximately 500 m apart within a 35 km² area.

At each regional and detailed grid site, one till sample and one pebble sample were collected and a brief site/pit description was made. Till characteristics recorded included: unit thickness; texture; colour; compaction; visible weathering/oxidation; structures present; and clast content. A photograph was taken of each regional sample site. The location of each sample site was recorded on a 1:50,000 topographic map. For the 3 detailed sampling areas, sample locations were recorded in the field on 1:10,000 colour aerial photographs. Sample locations, as UTM easting and northing coordinates, and descriptions are listed in Appendix A and a location map is provided in the back pocket (Figure 3).

Approximately 130 till samples were collected from 12 coastal sections along Gabarus Bay and at several locations as far south as St. Esprit Beach. At the sections, several vertically adjacent till samples were collected to characterize compositional variations within and between tills. Pebble samples were also collected from the sections but not for every till sample. At nine sections, till fabrics were measured. Detailed descriptions of the sections and sediments exposed were recorded, including unit thicknesses and the nature of contacts between tills and these are included in Appendix A.2. Sample locations are shown on Figure 3. Striations on coastal outcrops and in the vicinity of sections were measured and recorded on 1:50,000 topographic maps.

A total of 31 bedrock samples were collected from selected outcrops within the detailed till sampling areas at Blue Mountain and Deep Cove to document and compare the geochemical signatures of the mineralized bedrock to that of the till. Four mineralized boulders from the beach and one from the till at Gull Cove and one cobble from the borrow pit 1 km southwest of Framboise were also collected for geochemical analysis. Sample UTM easting and northing coordinates and descriptions are listed in Appendix A.3 and locations are shown on Figure 3.

Geochemical Analyses

The <0.063 mm till fraction was analyzed for 29 trace or minor elements (Table 1) by Bondar-Clegg and Company Ltd. of Ottawa, Ontario. The elements Al, Fe (total), Mg, Mn, Ca, K, Na, Sc, V, Cr, Co, Ni, Cu, Zn, As, Sr, Y, Mo, Ag, Cd, Sn, Sb, Te, Ba, La, W, Pb and Bi were analyzed by Inductively Coupled Plasma Spectroscopy (ICP)

Element	Analytical Method	Extraction	Lower Detection Limit
Al	ICP	HCl-HNO ₃ , 3:1	0.01%
Fe (total)	ICP	HCl-HNO ₃ , 3:1	0.01%
Mn	ICP	HCl-HNO ₃ , 3:1	1%
Mg	ICP	HCl-HNO ₃ , 3:1	0.01%
Ca	ICP	HCl-HNO ₃ , 3:1	0.01%
Na	ICP	HCl-HNO ₃ , 3:1	0.01%
K	ICP	HCl-HNO ₃ , 3:1	0.01%
Sc	ICP	HCl-HNO ₃ , 3:1	5 ppm
V	ICP	HCl-HNO ₃ , 3:1	1 ppm
Cr	ICP	HCl-HNO ₃ , 3:1	1 ppm
Co	ICP	HCl-HNO ₃ , 3:1	1 ppm
Ni	ICP	HCl-HNO ₃ , 3:1	1 ppm
Cu	ICP	HCl-HNO ₃ , 3:1	1 ppm
Zn	ICP	HCl-HNO ₃ , 3:1	1 ppm
As	ICP	HCl-HNO ₃ , 3:1	5 ppm
Sr	ICP	HCl-HNO ₃ , 3:1	1 ppm
Y	ICP	HCl-HNO ₃ , 3:1	1 ppm
Mo	ICP	HCl-HNO ₃ , 3:1	1 ppm
Ag	ICP	HCl-HNO ₃ , 3:1	0.2 ppm
Cd	ICP	HCl-HNO ₃ , 3:1	0.2 ppm
Sn	ICP	HCl-HNO ₃ , 3:1	20 ppm
Sb	ICP	HCl-HNO ₃ , 3:1	5 ppm
Te	ICP	HCl-HNO ₃ , 3:1	10 ppm
Ba	ICP	HCl-HNO ₃ , 3:1	2 ppm
La	ICP	HCl-HNO ₃ , 3:1	1 ppm
W	ICP	HCl-HNO ₃ , 3:1	20 ppm
Pb	ICP	HCl-HNO ₃ , 3:1	2 ppm
Bi	ICP	HCl-HNO ₃ , 3:1	5 ppm
Au	Fire assay-DCP	HCl-HNO ₃ , 1:3	1 ppb

ICP Inductively Coupled Plasma spectroscopy

DCP Direct Current Plasma spectroscopy

Table 1. Analytical methods for till and bedrock samples

following a "partial" digestion in HCl and HNO₃. A 20 g split was analyzed for Au by fire assay preparation of a silver bead followed by Direct Current Plasma (DCP) analysis using an aqua regia digestion. Analytical procedures are described in detail in Appendix D.1.

Bedrock and boulder samples were analyzed for the same suite of elements as the till samples using the same methods described above. Analytical methods and lower detection limits for each element are summarized in Table 1 and are described in detail in Appendix D.1. Till geochemical data are listed in Appendix B and bedrock geochemical data are listed in Appendix C.

Analytical quality control was monitored using three Geological Survey of Canada "in house" standards (TCA-8010, TCA-8043 and SB-A) inserted into analytical batches at regular intervals (approximately every 15 samples) and duplicate analyses of field samples. The TCA standards are bulk till samples collected from the Geraldton area and are used to monitor the accuracy of the gold analyses at low (TCA-8043) and higher (TCA-8010) concentrations. SB-A standard is a bulk till sample collected from the Sisson Brook area of New Brunswick and is used to monitor the accuracy of base metal analyses. Results are listed in Appendix D.

Duplicate samples were used to monitor the precision of the analyses and the data are listed in Appendix D.3. The results indicated a problem with the Cd analyses; values are significantly different between duplicate samples. All till samples were reanalyzed for Cd by Bondar-Clegg. Only the second set of Cd values are reported in Appendix B. Both sets of Cd results for duplicate samples are listed in Appendix D.3.

Pebble Counts

Approximately 300 pebbles, measuring 1 to 5 cm in diameter, from each regional sample site and selected stratigraphic sections were classified into 15 rock type categories: 1) mafic to intermediate volcanic rocks; 2) felsic volcanic rocks; 3) rhyolite; 4) hornfels; 5) granite; 6) diorite; 7) quartzite; 8) vein quartz; 9) red and green sedimentary rocks; 10) purple sedimentary rocks; 11) greywacke; 12) felsic intrusive rocks; 13) mafic intrusive rocks; 14) limestone; 15) other. The first 14 categories reflect major bedrock types found within or to the west of the study area, whereas the "other" category includes rocks that could not be identified or lithologies that could not be placed in the other 14 categories. Pebble lithology abundance data are listed in Appendix E.

Data Evaluation

Geochemical values reported as less than the lower detection limit were reassigned values of one half the detection limit for calculation of summary statistics and plotting proportional symbol maps. Univariate statistics and frequency histograms for the till geochemical data and the number percent of selected pebble lithology groups were calculated using the Macintosh computer program StatViewII and are listed in appendices B (till) and E (pebbles).

The spatial distribution of the 1991 geochemical data and pebble lithology data for the regional till samples and for the 3 detailed sampling grids at Deep Cove, Stirling and Blue Mountain were plotted by Northwood Geoscience Ltd., Ottawa, Ontario. The dot diameters are proportional to concentrations at approximately 25,

50, 75, 90, 95, 99 and 100 percentile. Thirty proportional symbol maps of till geochemistry were generated: 1) 13 regional maps: Au, Cu, Pb, Zn, Cd, Ag, Mo, Fe, Mn, Ca, Sr, Bi, Ba; 2) 6 Deep Cove grid maps: Cu, Pb, Zn, Ag, Mo, As; 3) 6 Blue Mountain grid maps: Cu, Pb, Zn, Au, Ag, As; and 4) 5 Stirling grid maps: Cu, Pb, Zn, Au, Ca.

Proportional symbol maps for pebble lithologies were generated by combining some lithologic categories. The felsic intrusive pebble distribution map was produced by combining 3 categories, felsic intrusive, granite and diorite. The felsic volcanic distribution map was made by combining the felsic volcanic and rhyolite categories. Red, green, brown and purple sedimentary clasts were combined into one category because of the difficulties distinguishing between red and brown and between red and purple.

Proportional symbol maps are included in appendices B (till geochemistry) and E (pebble lithology data). A clear film map of the regional bedrock geology is provided in the back pocket which overlays each regional proportional symbol map. In order to compare the regional trace element and pebble lithology maps with those for the Deep Cove, Stirling and Blue Mountain areas, data for the 3 detailed grids were plotted using similar ranges of concentration as were used to plot the regional data. Therefore, samples that are anomalous on any of the detailed grid maps would also be anomalous if they had appeared on the regional maps.

RESULTS AND DISCUSSION

Regional Patterns

Anomalous gold concentrations in till are restricted to a small area of felsic volcanic rocks north of Gabarus Bay (Appendix B.2).

Although these rocks are shown as part of the Fourchu Group on Figure 4, they have recently been differentiated by Barr et al. (1992) as the late Precambrian to early Cambrian Main-a-Dieu sequence.

Anomalous lead and zinc levels in till are located in the Salmon River Valley, along the southern edge of the Silver Mine Formation which is the host rock for the Yava lead deposit. Moderately elevated lead levels also occur around Gillis Mountain, Copper Shaft and Blue Mountain. The few elevated arsenic levels are found near Gillis Mountain and Blue Mountain overlying middle Cambrian metasedimentary rocks. The highest copper, silver and bismuth levels in till are found overlying Cambrian metasedimentary rocks and Proterozoic Fourchu Group volcanic rocks north and west of Gabarus Bay.

Mineralized boulders found in till and on the beach along the southern shoreline of Gabarus Bay at Gull Cove, contain anomalous concentrations of arsenic and molybdenum and elevated levels of gold (Appendix C). One boulder, collected at the top of the exposed Quaternary sediment section at Gull Cove, contains elevated concentrations of Zn, As and Au.

In summary, several of the regional sample sites display combinations of anomalous concentrations of Au, Cu, As, Zn, Pb or Ag that are of interest to mineral exploration and warrant further investigation. Anomalous sites are located: 1) north and northeastward of Gillis Mountain; 2) in the vicinity of the Copper Shaft occurrence; 3) in the Canoe Lake area (approximately 5 km west of Gabarus Bay); 4) in the Blue Mountain area; 5) at Gull Cove, on the eastern shoreline of Gabarus Bay; 6) along the Salmon River valley, especially site 1060 which is located 1 km southwest of the

Yava Mine; and 7) the trench located in the southwest corner of area, overlying the northern boundary of Lower St. Esprit Granite (Rattling Brook area, data listed in Appendix B.6).

Detailed Grid Patterns

At Deep Cove, striations on coastal outcrops indicate that an early eastward ice flow (Figure 5, ice flow 2) was followed by a northward ice flow (Figure 5, ice flow 3). The highest Mo levels in till in the entire Mira-Framboise study area were found at this locality, covering an area of at least 1 km². All the metals present in the mineralized bedrock are enriched in the till. Anomalous levels of Mo, Cu, and Ag and, to a lesser extent Pb and Zn, occur in till at least 600 m east of the mineralized granite. This pattern indicates that the eastward ice flow was the dominant event and that the northward ice flow did not remobilize much of the metalliferous till. Drift prospecting in Mira-Framboise area will be aided by the interpretation of geochemical and other lithologic data in map form with the knowledge that the main till transport direction was eastward.

The Blue Mountain area, is covered by a thin, locally derived stony, sandy till. Elevated Cu concentrations in till occur across the detailed grid area. Anomalous Pb, Zn, As and Ag concentrations in till occur on the west side of the detailed sampling area, overlying Cambrian sedimentary rocks. This pattern may be the result of northward transport of debris from the Gillis Mountain and Blue Mountain mineral occurrences. Anomalous Au levels in till occur on the east side of the detailed sampling area overlying Fourchu Group

felsic volcanic rocks. These anomalous Au values occur in the same area as Au anomalies in the regional till samples.

The area of the Mindamar Mine at Stirling has a thick cover of reddish silty till derived from local bedrock and from Carboniferous sedimentary rocks west of the area. This till hampers drift prospecting where it is thick because its geochemistry reflects exotic bedrock sources to the west rather than local bedrock. When compared to the regional geochemical data set, till in the Stirling area is slightly enriched in Cu and Zn, forming an area of high background concentrations. Anomalous Au, Pb, Zn and Cu levels in till occur up to 1 km east and southeast of the mineralization, indicating that eastward glacial transport was the dominant event here.

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APPENDIX A. Sample locations and descriptions

	page
A.1 1990 till and pebble samples.....	29
A.2 1991 till and pebble samples.....	35
A.3 Bedrock and boulder samples.....	55

**APPENDIX A.1 1990 till and pebble sample locations and
descriptions**

Appendix A.1 1990 till sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
90DDA200	90DDA201	Harbour Point	721325	5080250	clayey silt till, stony	red brown	3.0	till
90DDA202	90DDA203	Harbour Point	721325	5080250	clayey silt till, stony	red brown	2.0	till
90DDA204	90DDA205	Harbour Point	721325	5080250	clayey silt till, stony	red brown	1.0	till
90DDA206	90DDA207	Gabarus Cove	721000	5079750	clayey silt till, stony	red brown	3.3	till
90DDA208	90DDA209	Gabarus Cove	721000	5079750	clayey silt till, stony	red brown	2.3	till
90DDA210	90DDA211	Gabarus Cove	721000	5079750	clayey silt till, stony	red brown	1.4	till
90DDA213	- -	Deep Cove	723700	5085200	clayey silt till, stony	red brown	5.3	till
90DDA214	- -	Deep Cove	723700	5085200	clayey silt till, stony	red brown	2.1	till
90DDA215	- -	Deep Cove	723700	5085200	clayey silt till, stony	red brown	1.5	till
90DDA216	- -	Deep Cove	723700	5085200	clayey silt till, stony	red brown	0.8	till
90DDA217	- -	Deep Cove	723700	5085200	clayey silt till, stony	orange-brown	0.1	till
90DDA218	- -	Deep Cove	723400	5085050	sand	grey	0.0	molybdenite flakes in sand
90DDA219	- -	Copper Shaft	716450	5087650	sandy till, very stony	greyish brown	1.7	till
90DDA220	- -	Copper Shaft	716450	5087650	sandy till, very stony	greyish brown	1.1	till
90DDA221	- -	Copper Shaft	716450	5087650	sandy till, stony	orange-brown	0.5	Till, B horizon
90DDA222	- -	Copper Shaft	716450	5087650	sandy till, stony	orange-brown	0.3	Till, B horizon
90DDA223	- -	Copper Shaft	716425	5087600	sandy till, very stony	greyish brown	0.1	Till, B horizon
90DDA224	- -	Copper Shaft	716425	5087600	sandy till, stony	orange-brown	0.2	Till, B horizon
90DDA225	- -	MacLeod Lake	718230	5085610	sandy till, stony	dark brown	0.2	Till, B horizon
90DDA226	- -	MacLeod Lake	718425	5085780	sandy till, stony	olive brown	0.8	till
90DDA227	- -	MacLeod Lake	718425	5085780	sandy till, stony	olive brown	0.5	till
90DDA228	- -	MacLeod Lake	718425	5085780	sandy till, stony	orange brown	0.3	Till, B horizon
90DDA229	- -	MacLeod Lake	718575	5085950	sandy till, stony	greyish brown	1.0	till
90DDA230	- -	MacLeod Lake	718575	5085950	sandy till, stony	greyish brown	0.8	till
90DDA231	- -	MacLeod Lake	718575	5085950	sandy till, stony	orange brown	2.5	Till, B horizon
90DDA232	- -	McIntyre Lake	718340	5086120	sandy till, stony	olive brown	0.7	till
90DDA233	- -	McIntyre Lake	718300	5086250	sandy till, stony	olive brown	0.7	till
90DDA234	- -	McIntyre Lake	718300	5086250	sandy till, stony	orange brown	0.5	Till, B horizon
90DDA235	- -	McIntyre Lake	718300	5086250	sandy till, stony	orange brown	0.2	Till, B horizon
90DDA236	- -	Red Bank I	719350	5081370	clayey silt till, stony	red brown	2.8	till
90DDA237	- -	Red Bank I	719350	5081370	clayey silt till, stony	red brown	2.3	till
90DDA238	- -	Red Bank I	719350	5081370	clayey silt till, stony	red brown	1.8	till
90DDA239	- -	Red Bank I	719350	5081370	clayey silt till, stony	red brown	1.3	till
90DDA240	- -	Red Bank I	719350	5081370	clayey silt till, stony	red brown	0.8	till
90DDA241	- -	Blue Mountain	718090	5089900	sandy till, very stony	dark olive brown	0.6	Till, C horizon
90DDA242	- -	Blue Mountain	718090	5089900	sandy till, very stony	orange brown	0.4	Till, B horizon
90DDA243	- -	Blue Mountain	718090	5089900	sandy till, very stony	orange brown	0.2	Till, B horizon
90DDA244	- -	Blue Mountain	718050	5089990	sandy till, stony	olive brown	1.0	Till, C horizon
90DDA245	- -	Blue Mountain	718050	5089990	sandy till, stony	olive brown	0.8	Till, C horizon

Appendix A.1 1990 till sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
90DDA246	- -	Blue Mountain	718050	5089990	sandy till, stony	olive brown	0.6	Till, C horizon
90DDA247	- -	Blue Mountain	718050	5089990	sandy till, stony	red brown	0.5	Till, B horizon
90DDA248	- -	Blue Mountain	718050	5089990	sandy till, stony	red brown	0.2	Till, B horizon
90DDA249	- -	Blue Mountain	718040	5090040	sandy till, stony	olive brown	0.8	Till, C horizon
90DDA250	- -	Blue Mountain	718040	5090040	sandy till, stony	olive brown	0.7	Till, C horizon
90DDA251	- -	Blue Mountain	718040	5090040	sandy till, stony	red brown	0.5	Till, B horizon
90DDA252	- -	Blue Mountain	718040	5090040	sandy till, stony	grey	0.3	Till, Ae horizon
90DDA253	- -	Blue Mountain	718000	5090120	sandy till, stony	olive brown	0.6	Till, C horizon
90DDA254	- -	Blue Mountain	718000	5090120	sandy till, stony	olive brown	0.4	Till, C horizon
90DDA255	- -	Blue Mountain	718000	5090120	sandy till, stony	red brown	0.2	Till, B horizon
90DDA256	- -	Blue Mountain	718000	5090120	sandy till, stony	grey	0.1	Till, Ae horizon
90DDA258	- -	Blue Mountain	717975	5090160	sandy till, stony	olive brown	0.7	Till, C horizon
90DDA259	- -	Blue Mountain	717975	5090160	sandy till, stony	olive brown	0.5	Till, C horizon
90DDA260	- -	Blue Mountain	717975	5090160	sandy till, stony	olive brown	0.3	Till, C horizon
90DDA261	- -	Blue Mountain	717975	5090160	sandy till, stony	red brown	0.2	Till, B horizon
90DDA262	- -	Blue Mountain	717130	5088950	sandy till, very stony	olive brown	0.4	Till, C horizon
90DDA263	- -	Blue Mountain	717130	5088950	sandy till, stony	red brown	0.2	Till, B horizon
90DDA264	- -	Blue Mountain	717290	5089075	pebble gravel	olive brown	0.4	Pebble gravel, C horizon
90DDA265	- -	Blue Mountain	717290	5089075	pebbly sand	red brown	0.2	Sand, B horizon
90DDA268	- -	Blue Mountain	716890	5089150	sandy till, stony	olive brown	0.5	Till, C horizon
90DDA269	- -	Blue Mountain	716890	5089150	sandy till, stony	olive brown	0.4	Till, C horizon
90DDA270	- -	Blue Mountain	716890	5089150	gravel	olive brown	0.3	gravel, B horizon
90DDA271	- -	Blue Mountain	716890	5089150	pebbly sand	orange brown	0.2	Pebbly sand
90DDA272	- -	Blue Mountain	716950	5089400	sandy till, very stony	olive brown	0.5	Till, C horizon
90DDA273	- -	Blue Mountain	716950	5089400	sandy till, very stony	olive brown	0.3	Till, C horizon
90DDA274	- -	Blue Mountain	716950	5089400	sandy till, stony	orange brown	0.1	Till, B horizon
90DDA275	- -	Blue Mountain	717150	5089600	sandy till, stony	olive brown	0.6	Till, C horizon
90DDA276	- -	Blue Mountain	717150	5089600	sandy till, stony	olive brown	0.4	Till, C horizon
90DDA277	- -	Blue Mountain	717150	5089600	sandy till, stony	olive brown	0.2	Till, C horizon
90DDA278	- -	Blue Mountain	717150	5089600	pebbly sand	red brown	0.1	Pebbly sand, B horizon
90DDA279	- -	Blue Mountain	717550	5089250	sandy till, very stony	olive brown	0.9	Till, C horizon
90DDA280	- -	Blue Mountain	717550	5089250	sandy till, very stony	olive brown	0.7	Till, C horizon
90DDA281	- -	Blue Mountain	717550	5089250	sandy till, very stony	olive brown	0.5	Till, C horizon
90DDA282	- -	Blue Mountain	717550	5089250	sandy till, very stony	olive brown	0.3	Till, C horizon
90DDA283	- -	Blue Mountain	717550	5089250	pebbly sand	orange brown	0.1	Pebbly sand, B horizon
90DDA288	- -	Blue Mountain	717400	5088600	sandy till, stony	olive brown	0.9	Till, C horizon
90DDA289	- -	Blue Mountain	717400	5088600	sandy till, stony	olive brown	0.7	Till, C horizon
90DDA290	- -	Blue Mountain	717400	5088600	sandy till, stony	olive brown	0.5	Till, C horizon
90DDA291	- -	Blue Mountain	717400	5088600	pebbly sand	orange brown	0.3	Pebbly sand, B horizon

Appendix A.1 1990 till sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
90DDA292	- -	Blue Mountain	717400	5088600	pebbly sand	orange brown	0.2	Pebbly sand, B horizon
90DDA293	- -	Blue Mountain	718600	5091000	sandy till, stony	olive brown	0.5	Till, C horizon
90DDA294	- -	Blue Mountain	718600	5091000	sandy till, stony	orange brown	0.3	Till, B horizon
90DDA295	- -	Blue Mountain	718600	5091000	sandy till, stony	orange brown	0.1	Till, B horizon
90DDA296	- -	Red Bank II	719345	5081470	clayey silt till, stony	red brown	4.0	Till
90DDA297	90DDA314	Red Bank II	719345	5081470	clayey silt till, stony	red brown	5.0	Till
90DDA298	- -	Red Bank II	719345	5081470	clayey silt till, stony	red brown	6.0	Till
90DDA299	- -	Red Bank II	719345	5081470	clayey silt till, stony	red brown	7.0	Till
90DDA300	- -	Red Bank II	719345	5081470	clayey silt till, stony	red brown	7.8	Till
90DDA301	- -	Red Bank II	719345	5081470	clayey silt till, stony	red brown	8.0	Till
90DDA302	- -	Red Bank II	719345	5081470	clayey silt till, stony	red brown	8.5	Till
90DDA303	- -	Red Bank II	719345	5081470	clayey silt till, stony	red brown	9.5	Till
90DDA304	- -	Red Bank II	719345	5081470	clayey silt till, stony	red brown	10.0	Till
90DDA305	- -	Red Bank II	719345	5081470	clayey silt till, stony	red brown	10.5	Till
90DDA307	90DDA308	Red Bank II	719345	5081470	clayey silt till, stony	red brown	13.5	Till
90DDA309	- -	Red Bank II	719345	5081470	clayey silt till, stony	red brown	14.0	Till
90DDA310	- -	Red Bank II	719345	5081470	clayey silt till, stony	red brown	14.5	Till
90DDA311	90DDA312	Red Bank II	719345	5081470	clayey silt till, stony	red brown	15.0	Till
90DDA315	90DDA306	Red Bank II	719345	5081470	clayey silt till, stony	red brown	2.0	Till
90DDA316	- -	Red Bank II	719345	5081470	clayey silt till, stony	red brown	2.5	Till
90DDA317	- -	Red Bank II	719345	5081470	clayey silt till, stony	red brown	11.0	Till
90DDA318	- -	Red Bank II	719345	5081470	clayey silt till, stony	red brown	11.5	Till
90DDA319	- -	Red Bank II	719345	5081470	clayey silt till, stony	red brown	12.0	Till
90DDA320	- -	Red Bank II	719345	5081470	clayey silt till, stony	red brown	13.0	Till
90DDA321	- -	Deep Cove	723400	5085050	sandy silt till, stony	greyish brown	1.3	Till
90DDA322	- -	Deep Cove	723400	5085050	sandy silt till, stony	greyish brown	1.0	Till
90DDA323	- -	Deep Cove	723400	5085050	sandy silt till, stony	greyish brown	0.8	Till
90DDA324	- -	Deep Cove	723400	5085050	sandy silt till, stony	greyish brown	0.5	Till
90DDA325	- -	Deep Cove	723400	5085050	sandy silt till, stony	brown	0.4	Till, B horizon
90DDA326	- -	Deep Cove	723590	5085060	clayey silt till, stony	red brown	0.0	Till
90DDA327	- -	Yava	701150	5081510	clayey silt till, stony	brown	0.9	Till, C horizon
90DDA328	- -	Yava	701150	5081510	clayey silt till, stony	brown	0.7	Till, C horizon
90DDA329	- -	Yava	701150	5081510	clayey silt till, stony	brown	0.5	Till, C horizon
90DDA330	- -	Yava	701150	5081510	sandy silt till, stony	brown	0.4	Till, C horizon
90DDA331	- -	Yava	701150	5081510	sandy silt till, stony	orange brown	0.3	Till, B horizon
90DDA332	- -	Yava	701150	5081510	sandy silt till, stony	orange brown	0.1	Till, B horizon
90DDA333	- -	Yava	703030	5082690	sandy till, stony	olive grey	0.9	Till, C horizon
90DDA334	- -	Yava	703030	5082690	sandy till, stony	olive grey	0.6	Till, C horizon
90DDA335	- -	Yava	703030	5082690	sandy till, stony	olive brown	0.5	Till, B/C transition

Appendix A.1 1990 till sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
90DDA336	- -	Yava	703030	5082690	sandy till, stony	orange brown	0.3	Till, B horizon
90DDA337	- -	Yava	703030	5082690	sandy till, stony	grey	0.1	Till, Ae horizon
90DDA338	- -	Yava	703260	5083000	sandy till, stony	olive brown	0.9	Till, C horizon
90DDA339	- -	Yava	703260	5083000	sandy till, stony	olive brown	0.7	Till, C horizon
90DDA340	- -	Yava	703260	5083000	sandy till, stony	olive brown	0.4	Till, C horizon
90DDA341	- -	Yava	703260	5083000	sandy till, stony	orange brown	0.3	Till, B horizon
90DDA343	- -	Yava	703790	5083800	sandy till, stony	olive brown	0.9	Till, C horizon
90DDA344	- -	Yava	703790	5083800	sandy till, stony	olive brown	0.6	Till, C horizon
90DDA345	- -	Yava	703790	5083800	sandy till, stony	olive brown	0.3	Till, C horizon
90DDA346	- -	Yava	703790	5083800	sandy till, stony	orange brown	0.1	Till, B horizon
90DDA347	- -	Yava	704440	5084250	sandy till, stony	brown	0.8	Till, C horizon
90DDA348	- -	Yava	704440	5084250	sandy till, stony	brown	0.5	Till, C horizon
90DDA349	- -	Yava	704440	5084250	sandy till, stony	orange brown	0.3	Till, B horizon
90DDA350	- -	Yava	704440	5084250	sandy till, stony	orange brown	0.2	Till, B horizon

**APPENDIX A.2 1991 till and pebble sample locations and
descriptions**

Appendix A.2 1991till and pebble sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
91DDA0001	91DDA0016	Hardy's Bank	720000	5082600	clayey silt till, stony	red brown	4.5 - 5.0	Section; Till fabric measured on 0001
91DDA0002	91DDA0016	Hardy's Bank	720000	5082600	clayey silt till, stony	red brown	4.0 - 4.5	Section at Hardy's Bank
91DDA0003	91DDA0016	Hardy's Bank	720000	5082600	clayey silt till, stony	red brown	3.5 - 4.0	Section at Hardy's Bank
91DDA0004	91DDA0016	Hardy's Bank	720000	5082600	clayey silt till, stony	red brown	3.0 - 3.5	Section at Hardy's Bank
91DDA0005	91DDA0016	Hardy's Bank	720000	5082600	clayey silt till, stony	red brown	2.5 - 3.0	Section at Hardy's Bank
91DDA0006	91DDA0017	Hardy's Bank	720000	5082600	clayey silt till, stony	red brown	2.0 - 2.5	Section; Till fabric measured on 0006
91DDA0007	91DDA0017	Hardy's Bank	720000	5082600	clayey silt till, stony	red brown	1.5 - 2.0	Section at Hardy's Bank
91DDA0008	91DDA0017	Hardy's Bank	720000	5082600	clayey silt till, stony	red brown	1.0 - 1.5	Section at Hardy's Bank
91DDA0009	91DDA0018	Hardy's Bank	720050	5082900	clayey silt till, stony	red brown	2.5 - 3.0	Section; Till fabric measured on 0018
91DDA0010	91DDA0018	Hardy's Bank	720050	5082900	clayey silt till, stony	red brown	2.0 - 2.5	Section at Hardy's Bank
91DDA0011	91DDA0018	Hardy's Bank	720050	5082900	clayey silt till, stony	red brown	1.5 - 2.0	Section at Hardy's Bank
91DDA0012	91DDA0019	Hardy's Bank	720050	5082900	clayey silt till, stony	red brown	1.0 - 1.5	Section; Till fabric measured on 0019
91DDA0013	91DDA0019	Hardy's Bank	720050	5082900	clayey silt till, stony	red brown	0.5 - 1.0	Section at Hardy's Bank
91DDA0014	91DDA0019	Hardy's Bank	720050	5082900	clayey silt till, stony	red brown	0.0 - 0.5	Section at Hardy's Bank
91DDA0021	91DDA0020	Morrison's Cove	721200	5084300	clayey silt till, stony	red brown	2.5 - 3.0	Section; Till fabric measured on 0020
91DDA0022	--	Morrison's Cove	721200	5084300	clayey silt till, stony	red brown	3.0 - 3.5	Section at Morrison Cove
91DDA0023	--	Morrison's Cove	721200	5084300	clayey silt till, stony	red brown	3.5 - 4.0	Section at Morrison Cove
91DDA0024	--	Morrison's Cove	721200	5084300	clayey silt till, stony	red brown	4.0 - 4.5	Section at Morrison Cove
91DDA0025	--	Morrison's Cove	721200	5084300	clayey silt till, stony	red brown	4.5 - 5.0	Section at Morrison Cove
91DDA0026	--	Morrison's Cove	721200	5084300	clayey silt till, stony	red brown	5.0 - 5.5	Section at Morrison Cove
91DDA0027	--	Morrison's Cove	721200	5084300	clayey silt till, stony	red brown	5.5 - 6.0	Section at Morrison Cove
91DDA0029	91DDA0028	Blue Mountain	716800	5089300	sandy till, stony	orange brown	0.6 - 0.7	oxidized
91DDA0030	91DDA0031	Blue Mountain	717250	5089650	sandy till, stony	olive brown	1.3	
91DDA0032	91DDA0033	Blue Mountain	717400	5090000	sandy till, stony	olive brown	1.7	
91DDA0034	91DDA0035	Blue Mountain	718000	5090200	sandy till, stony	olive brown	1.3	on top of drumlin
91DDA0036	91DDA0037	Blue Mountain	718150	5089800	sandy till, stony	olive brown	1.4	
91DDA0038	91DDA0039	Blue Mountain	718000	5089300	sandy till, stony	olive brown	1.3	
91DDA0040	91DDA0041	Blue Mountain	717800	5089200	sandy till, stony	olive brown	1.0	
91DDA0042	91DDA0043	Blue Mountain	717500	5088900	sandy till, stony	dark olive brown	2.0	
91DDA0044	91DDA0045	Blue Mountain	717400	5088600	sandy till, very stony	olive brown	1.0	*poor sample, high clast content
91DDA0046	91DDA0047	Blue Mountain	718200	5090900	sandy till, stony	orange brown	0.4	oxidized; high clast content-till?
91DDA0048	91DDA0049	Blue Mountain	718500	5091000	sandy till, stony	orange brown	0.6-0.7	oxidized
91DDA0050	91DDA0051	Blue Mountain	719150	5090700	sandy till, stony	olive grey	0.5	outcrop 10 m to East
91DDA0052	91DDA0053	Blue Mountain	719400	5091200	sandy till, stony	purply grey	1.2	*purple argillite clasts
91DDA0054	91DDA0055	Blue Mountain	719500	5091600	sandy till, stony	purply grey	0.7	
91DDA0056	91DDA0057	Blue Mountain	719250	5092100	sandy till, stony	red brown	1.0	
91DDA0058	91DDA0059	Blue Mountain	718900	5092800	sandy till, very stony	orange grey	0.8	oxidized

Appendix A.2 1991till and pebble sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
91DDA0060	91DDA0061	Blue Mountain	719850	5091150	sandy till, stony	olive grey	0.4 - 0.8	Section 700 m N of McDonald's Lake
91DDA0062	91DDA0063	Blue Mountain	719850	5091150	sandy till, stony	olive grey	0.8 - 1.2	Section 700 m N of McDonald's Lake
91DDA0064	91DDA0065	Blue Mountain	719850	5091150	sandy till, stony	olive grey	1.2 - 1.6	Section 700 m N of McDonald's Lake
91DDA0066	91DDA0067	Blue Mountain	719850	5091150	sandy till, stony	orange brown	1.6 - 2.0	Section 700 m N of McDonald's Lake
91DDA0068	91DDA0069	Blue Mountain	720000	5090750	sandy till, stony	olive brown	1.2	
91DDA0070	91DDA0071	Blue Mountain	719600	5090700	sandy till, very stony	brown	0.7	oxidized; high clast content-till?
91DDA0072	91DDA0073	Blue Mountain	719100	5090200	sandy till, stony	olive brown	1.0	
91DDA0074	91DDA0075	Blue Mountain	719100	5089400	sandy till, stony	olive brown	2.0	
91DDA0076	91DDA0077	Blue Mountain	718950	5088900	sandy till, stony	olive grey	2.0	
91DDA0078	91DDA0079	Blue Mountain	718900	5088500	sandy till, mod. stony	grey buff brown	1.2	striated outcrop, 3m N, 183° AZ
91DDA0080	91DDA0081	Blue Mountain	718800	5088100	sandy till, mod. stony	grey buff brown	1.0	
91DDA0082	91DDA0083	Blue Mountain	719100	5087900	sandy till, mod. stony	grey buff brown	0.4	
91DDA0084	91DDA0085	Blue Mountain	719400	5089000	sandy till, mod. stony	olive brown	1.6	
91DDA0086	91DDA0087	Blue Mountain	719800	5089000	sandy till, stony	olive brown	1.4	
91DDA0088	91DDA0089	Blue Mountain	719850	5089500	sandy till, very stony	olive brown	1.6	partially oxidized
91DDA0090	91DDA0091	Blue Mountain	720500	5089000	sandy till, very stony	olive grey	2.4	
91DDA0092	91DDA0093	Blue Mountain	720350	5089250	sandy till, very stony	olive brown	1.2	
91DDA0094	91DDA0095	Blue Mountain	719900	5088300	sandy till, stony	olive grey	1.6	*POOR SAMPLE-too sorted, till?
91DDA0096	91DDA0097	Blue Mountain	720400	5088150	sandy till, very stony	olive brown	1.1	
91DDA0098	91DDA0099	Blue Mountain	720900	5088100	sandy till, mod. stony	olive brown	1.5	
91DDA0100	91DDA0101	Blue Mountain	718150	5092500	sandy till, mod. stony	buff brown	0.7	
91DDA0102	91DDA0103	Blue Mountain	717900	5092000	sandy till, very stony	olive brown	1.0	
91DDA0104	91DDA0105	Blue Mountain	717250	5090800	sandy till	olive brown	0.8	
91DDA0106	91DDA0107	Blue Mountain	717750	5091350	sandy till, very stony	olive brown	2.5	
91DDA0108	91DDA0109	Blue Mountain	718500	5090500	sandy till, mod. stony	olive brown	0.8	
91DDA0110	91DDA0111	Blue Mountain	717800	5089650	sandy till, mod. stony	orange brown	0.7	moderately oxidized
91DDA0112	91DDA0113	Blue Mountain	717300	5091900	sandy till, mod. stony	olive brown	0.7	
91DDA0114	91DDA0115	Blue Mountain	717300	5089200	very sandy till, stony	orange brown	2.0	
91DDA0116	91DDA0117	Blue Mountain	718300	5089000	mod. stony	olive grey	0.7	*POOR SAMPLE
91DDA0118	91DDA0119	Blue Mountain	720800	5089500	mod. stony	brown	0.7	
91DDA0120	91DDA0121	Blue Mountain	720900	5090000	sandy till, very stony	olive brown	1.4	*POOR SAMPLE-till?
91DDA0122	91DDA0123	Blue Mountain	718700	5091500	sandy till, few clasts	orange brown	1.0	oxidized, reworked?
91DDA0124	91DDA0125	Blue Mountain	718700	5090000	sandy till, very stony	orange brown	0.7	oxidized, too sorted to be till
91DDA0126	91DDA0127	Blue Mountain	718600	5089600	sandy till, mod. stony	orange brown	0.9	
91DDA0128	91DDA0129	Blue Mountain	720500	5088700	sandy till, very stony	olive grey	0.8	
91DDA0130	91DDA0131	Blue Mountain	720650	5090850	sandy till, mod. stony	grey	1.2	*Excellent sample
91DDA0132	91DDA0139	Capelin Cove	701300	5058800	clay rich till, mod. stony	dark red	6.2 - 6.7	Section at Capelin Cove

Appendix A.2 1991till and pebble sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
91DDA0133	91DDA0139	Capelin Cove	701300	5058800	clay rich till, mod. stony	dark red	5.5 - 6.2	Section; Till fabric measured on 0139
91DDA0134	91DDA0139	Capelin Cove	701300	5058800	clay rich till, mod. stony	dark red	5.2 - 5.7	Section at Capelin Cove
91DDA0135	91DDA0139	Capelin Cove	701300	5058800	clay rich till, mod. stony	dark red	4.7 - 5.2	Section; Till fabric measured on 0140
91DDA0136	--	Capelin Cove	701300	5058800	sandy till, stony	buff brown	3.8 - 4.2	Section at Capelin Cove
91DDA0137	--	Capelin Cove	701300	5058800	sandy till, stony	buff brown	3.4 - 3.8	Section at Capelin Cove
91DDA0138	--	Capelin Cove	701300	5058800	sandy till, stony	buff brown	3.0 - 3.4	Section at Capelin Cove
91DDA0141	91DDA0142	Blue Mountain	720400	5091850	mod. stony	grey	1.2	
91DDA0143	91DDA0144	Blue Mountain	721700	5091200	very stony	olive grey	0.5	
91DDA0145	91DDA0146	Blue Mountain	721000	5091400	very stony	grey	1.0	
91DDA0147	91DDA0148	Blue Mountain	720500	5091500	few to mod. stony	red grey	2.0	
91DDA0149	91DDA0150	Blue Mountain	722850	5091350	clay rich, very stony	olive grey brown	0.4	
91DDA0151	91DDA0152	Blue Mountain	723000	5091000	clay rich till, few stones	red brown	1.1	
91DDA0153	91DDA0154	Blue Mountain	723000	5090500	silty till, mod. stony	red grey	0.6	
91DDA0155	91DDA0156	Blue Mountain	722550	5090300	silty till, mod. stony	grey brown	0.8	
91DDA0157	91DDA0158	Blue Mountain	722400	5089950	sandy till, very stony	grey brown	0.5	
91DDA0159	91DDA0160	Blue Mountain	720300	5092300	sandy till, very stony	olive brown	1.8	
91DDA0161	91DDA0162	Blue Mountain	722000	5089800	sandy till, very stony	brown	2.0	
91DDA0163	91DDA0164	Blue Mountain	722700	5089700	silty till, mod. stony	olive brown	0.6	
91DDA0165	91DDA0166	Blue Mountain	722400	5089250	clay rich till, few stones	red brown	0.4	numerous weathered in-situ pebbles
91DDA0167	91DDA0168	Blue Mountain	721900	5088700	silty sand till, mod. stony	olive brown	0.7	numerous weathered in-situ pebbles
91DDA0169	91DDA0170	Blue Mountain	721800	5089050	silty sand till, mod. stony	olive grey	1.5	
91DDA0171	91DDA0172	Blue Mountain	721800	5089750	silty sand till, mod. stony	grey	1.5	
91DDA0173	91DDA0174	Blue Mountain	721500	5090200	clayey sand till, mod. stony	grey		
91DDA0175	91DDA0176	Stirling	699900	5068200	clay rich till, mod. stony	red brown	0.8	
91DDA0177	91DDA0178	Stirling	700400	5068000	clay rich till, mod. stony	red brown	0.7	
91DDA0179	91DDA0180	Stirling	700000	5068000	clay rich till, mod. stony	red brown	1.0	
91DDA0181	91DDA0182	Stirling	699500	5067900	clayey silt till, mod. stony	red brown	1.2	striated outcrop: 175°-185° AZ -
91DDA0184	91DDA0183	MacKays Point	714650	5069750	silty sand till, mod. stony	buff brown	1.4	Till fabric measured on 0183
91DDA0185	91DDA0186	Stirling	700200	5066900	silty sand till, few stones	buff red	0.8	
91DDA0187	91DDA0188	Stirling	700100	5066600	clay rich till, mod. stoney	red brown	0.8	
91DDA0189	91DDA0190	Stirling	699700	5066600	clay rich till, mod. stoney	red brown	0.6	
91DDA0191	91DDA0192	Stirling	699300	5066400	silty till, mod. stony	red brown	0.9	
91DDA0193	91DDA0194	Stirling	699200	5066700	silty sand till, mod. stony	red brown	0.6	
91DDA0195	91DDA0196	Stirling	699600	5067000	clay rich till, mod. stoney	red brown	0.6	
91DDA0197	91DDA0198	Stirling	699200	5067200	clay rich till, mod. stoney	red brown	0.8	
91DDA0199	91DDA0200	Stirling	699300	5067400	clayey silt till, mod. stoney	red brown	0.7	
91DDA0201	91DDA0202	Stirling	699100	5067350	silty till, mod. stony	brown	0.6	

Appendix A.2 1991till and pebble sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
91DDA0203	91DDA0204	Stirling	700800	5065700	sandy till, stony	light brown	0.7	
91DDA0205	91DDA0206	Stirling	702000	5066900	clay rich till, few stones	red	1.5	
91DDA0207	91DDA0208	Stirling	704400	5066600	sandy till, stony	tan brown	1.0	
91DDA0209	91DDA0210	Stirling	701800	5067500	sandy till, stony	red brown	0.7	
91DDA0211	91DDA0212	Stirling	698850	5068600	clay rich till, few stones	red	1.0	
91DDA0213	91DDA0214	Stirling	698000	5068200	clay rich till, few stones	dark red	1.3	
91DDA0215	91DDA0216	Stirling	698900	5067600	clay rich till, few stones	dark red		
91DDA0217	91DDA0218	Stirling	699200	5068250	clay rich till, mod. stoney	red brown	1.3	
91DDA0219	91DDA0220	Stirling	699600	5067300	clay rich till, mod. stoney	red brown	2.8	
91DDA0221	91DDA0222	Stirling	700000	5067100	clay rich till, mod. stoney	red brown	1.7	
91DDA0223	91DDA0224	Stirling	698650	5066600	clay rich till, mod. stoney	red	0.5	
91DDA0225	91DDA0226	Stirling	699400	5068550	clay rich till, mod. stoney	greyish red	0.6	
91DDA0227	91DDA0228	Stirling	699900	5067650	very stony	orange brown	0.6	*POOR SAMPLE; oxidized, till?
91DDA0229	91DDA0230	Stirling	700400	5067400	clay rich till, mod. stony	red	0.7	
91DDA0231	91DDA0232	Stirling	700500	5066500	clayey silt till, mod. stony	red brown	0.8	
91DDA0233	91DDA0234	N. Capelin Cove	703800	5059450	sandy till, very stony	olive grey brown	1.0	striated outcrop: 350° AZ
91DDA0235	91DDA0236	N. Capelin Cove	703200	5059250	clay rich till, few stones	dark red brown	1.0	striated outcrop: 015°-020° AZ
91DDA0238	91DDA0237	Stirling	702900	5068600	sandy till, gravelly	light brown	0.8	
91DDA0240	91DDA0239	Stirling	702200	5067900	silty till, stony	red brown	0.6	
91DDA0241	91DDA0242	Stirling	701200	5066800	clayey silt till, stony	red brown	2.0	
91DDA0243	91DDA0244	Stirling	701400	5067000	clayey silt till, stony	red brown	0.7	
91DDA0245	91DDA0246	Stirling	701100	5067050	clayey silt till, stony	red brown	1.8	
91DDA0247	91DDA0248	Stirling	702200	5066900	silty till, stony	light red brown	1.0	
91DDA0249	91DDA0250	Stirling	702100	5068700	sandy till, stony	brown	0.9	
91DDA0251	91DDA0252	Stirling	701800	5067850	silty sand till, stony	light red brown	0.6	
91DDA0253	91DDA0254	Stirling	701700	5068300	silty sand till, stony	red brown	0.8	
91DDA0255	91DDA0256	Stirling	702500	5067500	sandy silt till, stony	light red brown	0.6	
91DDA0257	91DDA0258	Stirling	701300	5067600	clayey silt till, very stony	red brown	0.7	
91DDA0259	91DDA0260	Stirling	701350	5067150	silty till	red brown	0.6 - 1.1	Section at Stirling
91DDA0261	91DDA0262	Stirling	701350	5067150	silty sand till	light brown	0.3 - 0.6	Section at Stirling
91DDA0263	91DDA0264	Stirling	704400	5066600	silty sand till, mod. stony	red brown	0.5	
91DDA0265	91DDA0266	Stirling	699650	5067300	silty sand till, very stony	grey brown	1.0	
91DDA0267	91DDA0268	Stirling	700000	5067950	silty sand till	red brown	0.4	
91DDA0269	91DDA0270	Stirling	702000	5066900	very sandy till, mod. stony	orange brown	1.0	
91DDA0271	91DDA0271	Stirling	701400	5067950	silty sand till, few stones	olive brown	0.6	
91DDA0272	--	Rattling Brook	695850	5059900	sandy till, stony	olive brown	0.0 - 1.0	Section at Rattling Brook - Site D
91DDA0273	--	Rattling Brook	695850	5059900	sandy till, stony	olive brown	1.0 - 2.0	Section at Rattling Brook - Site D

Appendix A.2 1991till and pebble sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
91DDA0274	--	Rattling Brook	695850	5059900	sandy till, stony	olive brown	2.0 - 3.0	Section at Rattling Brook - Site D
91DDA0275	--	Rattling Brook	695850	5059900	sandy till, stony	olive brown	3.0 - 4.0	Section at Rattling Brook - Site D
91DDA0276	91DDA0277	Rattling Brook	695850	5059900	sandy till, very stony	olive brown	0.0 - 1.0	Section at Rattling Brook - Site C
91DDA0278	91DDA0279	Rattling Brook	695850	5059900	sandy till, stony	grey brown	1.0 - 2.0	Section at Rattling Brook - Site C
91DDA0280	91DDA0281	Rattling Brook	695850	5059900	silty sand	olive grey	0.0 - 1.0	Section at Rattling Brook - Site A
91DDA0283	91DDA0282	Rattling Brook	695850	5059900	silty sand, stony	buff grey	1.0 - 1.5	Section at Rattling Brook - Site A
91DDA0284	91DDA0282	Rattling Brook	695850	5059900	silty sand, stony	buff grey	1.5 - 2.0	Section at Rattling Brook - Site A
91DDA0286	91DDA0285	N. Capelin Cove	703150	5059200	clay rich till, stony	red brown	5.5 - 6.0	Section; Till fabric measured on 0285
91DDA0287	91DDA0288	N. Capelin Cove	703150	5059200	clayey silt till, mod. stony	red brown	5.3 - 5.5	Section; Till fabric measured on 0287
91DDA0289	91DDA0290	N. Capelin Cove	703150	5059200	clay rich till, few stones	red brown	4.3 - 5.3	Section at N. Capelin Cove; *striae: 195°
91DDA0291	91DDA0292	St. Esprit	695980	5057050	silty sand till, mod. stony	orange brown	0.2 - 0.7	Section at St. Esprit
91DDA0293	91DDA0294	St. Esprit	695980	5057050	silty sand till, mod. stony	olive brown	0.7 - 1.2	Section at St. Esprit
91DDA0295	91DDA0296	St. Esprit	695980	5057050	silty sand till, mod. stony	olive brown	1.2 - 1.7	Section at St. Esprit
91DDA0297	91DDA0298	St. Esprit	695980	5057050	silty sand till, mod. stony	olive brown	1.7 - 2.3	Section at St. Esprit
91DDA0299	91DDA0300	St. Esprit	695980	5057050	silty sand till, mod. stony	olive brown	4.3 - 5.3	Section at St. Esprit
91DDA0301	91DDA0302	St. Esprit	695980	5057050	silty sand till, mod. stony	olive brown	6.3 - 6.9	Section at St. Esprit
91DDA0303	91DDA0304	St. Esprit	695980	5057050	clay rich till, few stones	red	6.9 - 7.3	Section at St. Esprit
91DDA0305	91DDA0306	St. Esprit	695980	5057050	clay rich till, mod. stony	red brown	6.8 - 8.4	Section at St. Esprit
91DDA0307	91DDA0308	St. Esprit	695980	5057050	clay rich till, few stones	red brown	9.4 - 10.4	Section at St. Esprit
91DDA0309	91DDA0310	Strachans Cove	698850	5057100	sandy till, stony	olive brown	0.3 - 0.6	*striae: i)243° AZ, ii) 163° AZ
91DDA0311	91DDA0312	Forchu	714900	5066950	clay rich till, few stones	red	2.0 - 2.5	Section at Kate Rock Cove
91DDA0313	91DDA0314	Forchu	714900	5066950	clay rich till, few stones	red brown	1.5 - 2.0	Section at Kate Rock Cove
91DDA0316	91DDA0315	Forchu	714900	5066950	clay rich till, few stones	red brown	1.0 - 1.5	Section at Kate Rock Cove
91DDA0317	91DDA0318	Forchu	714900	5066950	silty sand till, mod. stony	red grey	0.5 - 1.0	Section at Kate Rock Cove
91DDA0319	91DDA0320	Forchu	714900	5066950	silty sand till, very stony	red grey	0.2 - 0.5	Section at Kate Rock Cove
91DDA0321	91DDA0322	Seal Rock Cove	705100	5060700	clay rich till, stony	orange brown	1.0	oxidized
91DDA0323	--	Seal Rock Cove	705450	5060800	organic material	black	0.0 - 1.4	wood sample
91DDA0324	91DDA0325	Louisbourg Park	721700	5086050	silty sand till, few stones	olive grey	0.6	
91DDA0326	91DDA0327	Louisbourg Park	722700	5086400	sandy till, mod. stony	orange brown	0.6	
91DDA0328	91DDA0329	Louisbourg Park	724400	5087150	silty sand till, mod. stony	buff brown	0.6	
91DDA0330	91DDA0331	Louisbourg Park	726750	5088000	silty sand till, mod. stony	olive buff brown	0.7	
91DDA0332	91DDA0333	Louisbourg Park	728950	5089200	silty sand till, very stony	orange brown	0.7	
91DDA0334	91DDA0335	Louisbourg Park	730800	5089150	silty sand till, mod. stony	buff brown	0.6	
91DDA0338	91DDA0339	Louisbourg Park	732700	5085700	silty sand till, few stones	red brown	0.7	
91DDA0340	91DDA0341	Louisbourg Park	730650	5084850	sandy till, stony	red brown	0.8	
91DDA0342	91DDA0343	Louisbourg Park	727900	5084700	sandy till, stony	red brown	0.7	
91DDA0344	91DDA0345	Louisbourg Park	723100	5085150	sandy till, few stones	red brown	0.7	

Appendix A.2 1991till and pebble sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
91DDA0346	91DDA0347	Louisbourg Park	724250	5084775	sandy till, stony	red brown	0.7	
91DDA0348	91DDA0349	Louisbourg Park	726050	5084650	sandy till, stony	red brown	0.9	
91DDA0350	91DDA0351	Louisbourg Park	732400	5088950	silty sand till, stony	red brown	0.7	
91DDA0362	91DDA0363	Deep Cove	723600	5085000	clay rich till, stony	purply brown	1.4 - 2.0	Section at Deep Cove
91DDA0364	91DDA0365	Deep Cove	723600	5085000	clay rich till, stony	purply brown	0.8 - 1.4	Section at Deep Cove
91DDA0366	91DDA0367	Deep Cove	723600	5085000	clay rich till, stony	purply brown	0.0 - 0.8	Section at Deep Cove
91DDA0371	91DDA0372	Deep Cove	723300	5085300	silty sand till, stony	dark red brown	0.7	
91DDA0373	91DDA0374	Deep Cove	723250	5085400	silty sand till, stony	brown	0.5	
91DDA0375	91DDA0376	Deep Cove	723200	5085500	silty sand till, few stones	brown	0.5	
91DDA0377	91DDA0378	Deep Cove	723150	5085600	clay rich till, stony	orange brown	0.7	
91DDA0379	91DDA0380	Deep Cove	723350	5085200	silty sand till, stony	dark red brown	0.6	
91DDA0381	91DDA0382	Deep Cove	723400	5085100	silty sand till, stony	red brown	1.3	
91DDA0383	91DDA0384	Deep Cove	723500	5085150	clayey silt till, mod. stony	red brown	0.6	
91DDA0385	91DDA0386	Deep Cove	723500	5085350	clay rich till, stony	dark brown	0.8	
91DDA0387	91DDA0388	Deep Cove	723500	5085450	clayey sand till, mod. stony	orange brown	0.9	
91DDA0389	91DDA0390	Deep Cove	723500	5085600	silty till, few stones	light brown	0.6	
91DDA0391	91DDA0392	Deep Cove	723500	5085710	clayey silt till, few stones	dark brown	0.6	
91DDA0395	91DDA0396	Deep Cove	723500	5085250	silty sand till, stony	red brown	0.8	
91DDA0397	91DDA0398	Deep Cove	723700	5085050	sandy till, stony	red brown	0.6	
91DDA0399	91DDA0400	Deep Cove	723700	5085150	sandy till, stony	grey brown	1.0	
91DDA0403	91DDA0404	Deep Cove	723700	5085330	clay rich till, very stony	orange brown	1.2	
91DDA0405	91DDA0406	Deep Cove	723700	5085450	clay rich till, stony	orange brown	0.4	
91DDA0407	91DDA0408	Deep Cove	723700	5085550	clay rich till, stony	dark brown	0.5	
91DDA0409	91DDA0410	Deep Cove	723700	5085250	silty sand till, stony	medium brown	0.7	
91DDA0411	91DDA0412	Deep Cove	723600	5085350	silty sand till, stony	dark brown	0.8	
91DDA0413	91DDA0414	Deep Cove	723600	5085490	clay rich till, stony	orange brown	0.7	
91DDA0415	91DDA0416	Deep Cove	723600	5085680	silty sand till, stony	grey brown	0.4	excellent sample
91DDA0417	91DDA0418	Deep Cove	723600	5085750	sandy till, few stones	grey brown	0.5	
91DDA0420	91DDA0421	Deep Cove	723600	5085250	sandy till, very stony	grey brown	0.9	
91DDA0422	91DDA0423	Deep Cove	723900	5085050	clay rich till, stony	brown	0.8	
91DDA0424	91DDA0435	Deep Cove	723900	5084950	clay rich till, stony	red brown	0.7	
91DDA0425	91DDA0426	Deep Cove	723900	5085550	silty till, stony	orange brown	0.6	
91DDA0427	91DDA0428	Deep Cove	723900	5085450	silty till, stony	orange brown	0.7	
91DDA0429	91DDA0430	Deep Cove	723900	5085300	silty till, very stony	orange brown	0.7	
91DDA0431	91DDA0432	Deep Cove	723900	5085150	silty till, stony	orange brown	0.7	
91DDA0433	91DDA0434	Deep Cove	723600	5085150	silty till, very stony	orange brown	0.6	
91DDA0436	91DDA0437	Deep Cove	724100	5084900	very sandy till, very stony	grey brown		

Appendix A.2 1991till and pebble sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
91DDA0440	91DDA0441	Deep Cove	724100	5084800	clay rich till, stony	grey brown	0.8	
91DDA0442	91DDA0443	Deep Cove	724300	5084750	silty sand till, few stones	red brown	0.8	
91DDA0444	91DDA0445	Deep Cove	724300	5084850	silty sand till, mod. stony	light grey brown	0.8	
91DDA0446	91DDA0447	Deep Cove	724300	5084950	silty sand till, stony	red brown	0.8	
91DDA0448	91DDA0449	Deep Cove	724100	5085250	silty sand till, stony	red brown	0.9	
91DDA0450	91DDA0451	Deep Cove	724100	5085100	silty sand till, stony	red brown	0.8	
91DDA0452	91DDA0453	Deep Cove	724100	5085000	silty till, few stones	red brown	0.7	
91DDA0454	91DDA0455	Deep Cove	724300	5085050	clayey silt till, stony	brown	0.7	
91DDA0456	91DDA0457	Deep Cove	724300	5085150	clayey silt till, stony	brown	0.6	
91DDA0458	91DDA0459	Deep Cove	724300	5085410	silty till, mod. stony	brown	0.8	
91DDA0460	91DDA0461	Stirling	700800	5067500	sandy till, stony	brown	0.8	
91DDA0462	91DDA0463	Deep Cove	723700	5085200	silty till, stony	red brown	3.0 - 3.5	Section at Deep Cove
91DDA0464	91DDA0465	Deep Cove	723700	5085200	silty sand till, stony	red brown	2.5 - 3.0	Section at Deep Cove
91DDA0466	91DDA0467	Deep Cove	723700	5085200	silty sand till, stony	red brown	2.0 - 2.5	Section at Deep Cove
91DDA0469	91DDA0468	Deep Cove	723700	5085200	silty sand till, stony	red brown	1.5 - 2.0	Section at Deep Cove
91DDA0470	91DDA0471	Deep Cove	723700	5085200	silty sand till, stony	red brown	1.0 - 1.5	Section at Deep Cove
91DDA0472	91DDA0473	Deep Cove	723700	5085200	silty sand till, stony	red brown	0.5 - 1.0	Section at Deep Cove
91DDA0474	91DDA0475	Deep Cove	723700	5085200	silty sand till, stony	red brown	0.2 - 0.5	Section at Deep Cove
91DDA0476	--	Deep Cove	723700	5085200	sandy till, stony	rusty brown	0.0 - 0.2	Section at Deep Cove
91DDA0478	91DDA0479	Stirling	700800	5067950	sandy till, stony	olive brown	0.7	
91DDA0480	91DDA0481	Framboise	704450	5065350	sandy till, stony	olive grey	3.0 - 4.0	Section at Framboise
91DDA0482	91DDA0483	Framboise	704450	5065350	sandy till, stony	olive grey	2.0 - 3.0	Section at Framboise
91DDA0484	91DDA0485	Framboise	704450	5065350	sandy till, very stony	orange brown	1.0 - 2.0	Section at Framboise; oxidized
91DDA0486	91DDA0487	Framboise	704450	5065350	sandy till, very stony	orange brown	0.0 - 1.0	Section at Framboise; oxidized
91DDA0489	91DDA0490	Fiddlers Lake	717000	5086400	sandy till, very stony	purply grey	8.2 - 9.2	Section at Fiddler's Lake - Pit A
91DDA0491	91DDA0492	Fiddlers Lake	717000	5086400	sandy till, very stony	purply grey	7.2 - 8.2	Section at Fiddler's Lake - Pit A
91DDA0493	91DDA0494	Fiddlers Lake	717000	5086400	sandy till, very stony	purply grey	6.2 - 7.2	Section at Fiddler's Lake - Pit A
91DDA0495	91DDA0496	Fiddlers Lake	717000	5086400	silty sand till, mod. stony	purply grey	4.5 - 5.2	Section at Fiddler's Lake - Pit B
91DDA0497	91DDA0498	Fiddlers Lake	717000	5086400	silty sand till, mod. stony	purply grey	3.7 - 4.5	Section at Fiddler's Lake - Pit B
91DDA0499	91DDA0500	Fiddlers Lake	717000	5086400	silty sand till, mod. stony	purply grey	2.5 - 3.2	Section at Fiddler's Lake - Pit C
91DDA0501	91DDA0502	Fiddlers Lake	717000	5086400	sandy till, very stony	olive brown	1.5 - 2.5	Section at Fiddler's Lake - Pit C
91DDA0503	91DDA0504	Fiddlers Lake	717000	5086400	sandy till, very stony	orange brown	0.0 - 2.0	Section at Fiddler's Lake - Pit D; till?
91DDA0505	91DDA0506	English Cove	706750	5063000	silty sand till, mod. stony	olive brown	17.0 - 17.5	Section at English Cove - S. Section
91DDA0507	91DDA0508	English Cove	706750	5063000	silty sand till, mod. stony	olive brown	16.5 - 17.0	Section at English Cove - S. Section
91DDA0509	91DDA0510	English Cove	706750	5063000	silty sand till, mod. stony	olive brown	15.5 - 16.5	Section; Till fabric measured on 0509
91DDA0511	91DDA0512	English Cove	706750	5063000	silty sand till, mod. stony	olive brown	15.0 - 15.5	Section at English Cove - S. Section
91DDA0513	91DDA0514	English Cove	706750	5063000	clayey silt till, few stones	red brown	14.5 - 15.0	Section at English Cove - S. Section

Appendix A.2 1991till and pebble sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
91DDA0515	91DDA0516	English Cove	706750	5063000	clayey silt till, few stones	red brown	14.0 - 14.5	Section; Till fabric measured on 0515
91DDA0517	91DDA0518	English Cove	706750	5063000	clayey silt till, few stones	red brown	13.0 - 14.0	Section at English Cove - S. Section
91DDA0519	91DDA0520	English Cove	706750	5063000	clay rich till, few stones	red brown	6.5 - 8.0	Section at English Cove - N. Section
91DDA0521	91DDA0522	English Cove	706750	5063000	clay rich till, few stones	red brown	5.0 - 6.5	Section at English Cove - N. Section
91DDA0523	91DDA0524	English Cove	706750	5063000	clay rich till, few stones	red brown	3.5 - 5.0	Section at English Cove - N. Section
91DDA0525	91DDA0526	English Cove	706750	5063000	sandy till, few stones	red brown	0.8 - 2.0	Section at English Cove - N. Section
91DDA0527	91DDA0528	English Cove	706750	5063000	silty sand till, mod. stony	buff brown	0.0 - 0.8	Section at English Cove - N. Section
91DDA0529	91DDA0530	Red Cape	707300	5063500	clayey sand till, few stones	red brown	8.5 - 9.5	Section at Red Cape
91DDA0531	91DDA0532	Red Cape	707300	5063500	clayey silt till, few stones	red brown	8.0 - 8.5	Section at Red Cape
91DDA0533	91DDA0534	Red Cape	707300	5063500	clayey silt till, few stones	red brown	7.0 - 8.0	Section at Red Cape
91DDA0535	91DDA0536	Red Cape	707300	5063500	clayey silt till, few stones	red brown	6.0 - 7.0	Section; Till fabric measured on 0535
91DDA0537	91DDA0538	Red Cape	707300	5063500	clayey silt till, few stones	red brown	5.5 - 6.0	Section at Red Cape
91DDA0539	91DDA0540	Red Cape	707300	5063500	clayey silt till, mod. stony	red brown	4.0 - 5.0	Section at Red Cape
91DDA0541	91DDA0542	Red Cape	707300	5063500	clayey silt till, mod. stony	red brown	3.5 - 4.0	Section; Till fabric measured on 0541
91DDA0543	91DDA0544	Red Cape	707300	5063500	clayey silt till, mod. stony	red brown	3.0 - 3.5	Section at Red Cape
91DDA0549	91DDA0550	Fullers Gut	710600	5064850	clayey silt till, few stones	purply brown	5.6 - 6.0	Fullers Gut Sect.; Till fabric on 0549
91DDA0551	91DDA0552	Gull Cove	726250	5077650	silty sand till, stony	olive brown	2.0 - 2.8	*striae: i) 107°-138°, ii) 055°
91DDA0553	91DDA0554	Gull Cove	726250	5077650	silty sand till, stony	olive brown	1.0 - 2.0	Section at Gull Cove
91DDA0555	91DDA0556	Gull Cove	726250	5077650	silty sand till, stony	olive brown	0.2 - 1.0	Section at Gull Cove
91DDA0557	91DDA0558	Fullers Gut	710600	5064850	silty sand till, few stones	red brown	5.1 - 5.3	Section at Fullers Gut
91DDA0559	91DDA0560	Fullers Gut	710600	5064850	silty till, few stones	red brown	4.0 - 5.0	Section at Fullers Gut
91DDA0561	91DDA0562	Fullers Gut	710600	5064850	silty till, few stones	red brown	3.0 - 4.0	Section; Till fabric measured on 0561
91DDA0563	91DDA0564	Fullers Gut	710600	5064850	silty till, few stones	red brown	2.0 - 3.0	Section; striae: i)072°AZ,ii)352°-007
91DDA0566	91DDA0565	Fullers Gut	710600	5064850	silty till, few stones	red brown	1.0 - 2.0	Section at Fullers Gut
91DDA0567	91DDA0568	Fullers Gut	710600	5064850	silty till, few stones	red brown	0.5 - 1.0	Section at Fullers Gut
91DDA0570	91DDA0571	Fox Cove	706450	5061650	silty till, few stones	dark red brown	9.8-10.3	Section at Fox Cove
91DDA0572	91DDA0573	Fox Cove	706450	5061650	silty sand till, few stones	grey	9.0 - 9.8	Section; Till fabric measured on 0572
91DDA0574	91DDA0575	Fox Cove	706450	5061650	clay rich till, mod. stony	dark red	8.3 - 9.0	Section; Till fabric measured on 0574
91DDA0576	91DDA0577	Fox Cove	706450	5061650	clay rich till, mod. stony	dark red	7.5 - 8.3	Section at Fox Cove; *striae: 119° AZ
91DDA0578	91DDA0579	Fox Cove	706450	5061650	clay rich till, mod. stony	dark red	3.0 - 4.5	Section at Fox Cove
91DDA0580	91DDA0581	Fox Cove	706450	5061650	silty sand till, stony	olive grey	2.0 - 3.0	Section at Fox Cove
91DDA0582	91DDA0583	Fox Cove	706450	5061650	silty sand till, stony	orange grey	0.0 - 1.0	Section at Fox Cove
91DDA0584	91DDA0569	MacIsaacs Cape	719000	5073050	silty till, stony	red brown	5.0 - 6.0	Section at MacIsaacs Cape
91DDA0586	91DDA0585	MacIsaacs Cape	719000	5073050	silty till, stony	red brown	4.0 - 5.0	Section at MacIsaacs Cape
91DDA0588	91DDA0587	MacIsaacs Cape	719000	5073050	silty till, stony	red brown	3.0 - 4.0	Section at MacIsaacs Cape
91DDA0590	91DDA0589	MacIsaacs Cape	719000	5073050	silty till, stony	red brown	2.0 - 3.0	Section at MacIsaacs Cape
91DDA0592	91DDA0591	MacIsaacs Cape	719000	5073050	silty till, stony	red brown	1.0 - 2.0	Section at MacIsaacs Cape

Appendix A.2 1991till and pebble sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
91DDA1000	91DDA1000	11F16	710523	5077037	clayey silt till	brown	0.7	
91DDA1001	91DDA1001	11F16	707743	5074743	clayey silt till	dark brown	0.6-0.7	oxidized
91DDA1002	91DDA1002	11F16	709406	5076016	clayey silt till	dark brown	0.7	
91DDA1003	91DDA1003	11F16	711310	5076482	sandy till	light brown	0.6	
91DDA1004	91DDA1004	11F16	714568	5077076	clayey silt till	orange brown	0.6	
91DDA1005	91DDA1005	11F16	712865	5077557	clayey silt till	brown	0.4	
91DDA1006	91DDA1006	11F16	711803	5078429	clayey silt till	orange brown	0.7	
91DDA1007	91DDA1007	11F16	711377	5080057	clayey silt till	brown	0.4	
91DDA1008	91DDA1008	11F16	716052	5097124	clay rich till, stony	light brown	0.6	
91DDA1009	91DDA1009	11F16	715330	5095546	silty sand till, few stones	brown	0.9	
91DDA1010	91DDA1010	11F16	716038	5094439	silty sand till, stony	orange brown	0.7	oxidized
91DDA1011	91DDA1011	11F16	715444	5093583	clay rich till, stony	light grey brown	0.6	
91DDA1012	91DDA1012	11F16	715585	5092293	clayey silt till	orange brown	0.6	
91DDA1013	91DDA1013	11F16	715167	5090934	clayey silt till	orange brown	0.6	
91DDA1014	91DDA1014	11F16	714658	5089502	clayey silt till	orange brown	0.6	
91DDA1015	91DDA1015	11F16	713844	5088638	clayey silt till	dark brown	0.6	
91DDA1016	91DDA1016	11F16	713876	5087146	clayey silt till	dark brown	0.7-0.8	oxidized
91DDA1017	91DDA1017	11F16	715953	5086635	clayey silt till	dark brown	0.6	
91DDA1018	91DDA1018	11F16	717190	5085960	clayey silt till	dark brown	0.6	
91DDA1019	91DDA1019	11F16	717167	5084163	silty sand till	orange brown	0.6	
91DDA1020	91DDA1020	11F16	722376	5078853	clayey silt till	dark brown	0.7	oxidized
91DDA1021	91DDA1021	11F16	720351	5079560	clayey silt till	orange brown	0.6	
91DDA1022	91DDA1022	11F16	718480	5082946	clayey silt till	dark brown	0.7	
91DDA1023	91DDA1023	11F16	719050	5081651	silty sand till	orange brown	0.6	
91DDA1024	91DDA1024	11F16	718488	5080714	clayey silt till	orange brown	0.5	
91DDA1025	91DDA1025	11F16	713855	5093817	clayey silt till	dark brown	0.6	
91DDA1026	91DDA1026	11F16	711160	5081871	clayey silt till	orange brown	0.6	
91DDA1027	91DDA1027	11F16	710402	5083432	clayey silt till	orange brown	0.6	
91DDA1028	91DDA1028	11F16	710117	5084593	sandy till	orange brown	0.6	oxidized
91DDA1029	91DDA1029	11F16	710441	5085649	clayey silt till	dark brown	1.0	
91DDA1030	91DDA1030	11F16	710319	5087156	clayey silt till	dark grey brown	0.5	
91DDA1031	91DDA1031	11F16	710501	5088867	clayey silt till	orange brown	0.6	slightly oxidized
91DDA1032	91DDA1032	11F16	711051	5089699	sandy till	orange brown	0.7	
91DDA1033	91DDA1033	11F16	711464	5090699	clay rich till, few stones	light brown	0.7	
91DDA1034	91DDA1034	11F16	711868	5091870	sandy till	dark brown	0.6	
91DDA1035	91DDA1035	11F16	712227	5092533	silty sand till	orange brown	0.6	
91DDA1036	91DDA1036	11F16	712974	5093250	clayey silt till	orange brown	0.6	

Appendix A.2 1991till and pebble sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
91DDA1037	91DDA1037	11F16	717880	5097026	clayey silt till	orange brown	0.6	oxidized
91DDA1038	91DDA1038	11F16	713225	5095010	sandy till	orange brown	0.7	oxidized
91DDA1039	91DDA1039	11F16	711778	5093594	clayey silt till	dark brown	0.5	
91DDA1040	91DDA1040	11F16	716915	5095266	clayey silt till	orange brown	0.7	
91DDA1041	91DDA1041	11F16	718649	5096222	clayey silt till , few stones	light brown	0.6	
91DDA1042	91DDA1042	11F16	720552	5096026	clayey silt till	orange brown	0.6	
91DDA1043	91DDA1043	11F16	722418	5096881	sandy till	dark brown	0.7	highly oxidized.
91DDA1044	91DDA1044	11F16	723377	5097862	sandy till	dark brown	0.7	oxidized
91DDA1045	91DDA1045	11F16	728955	5097895	clayey silt till	dark brown	0.4	oxidized
91DDA1046	91DDA1046	11F16	729560	5095844	clayey silt till	dark brown	0.8	oxidized
91DDA1047	91DDA1047	11F16	731316	5096195	clayey silt till	dark brown	0.7	oxidized
91DDA1048	91DDA1048	11F16	709668	5096766	clayey silt till	reddish brown	0.6	
91DDA1049	91DDA1049	11F16	711901	5096721	clayey silt till	dark brown	0.6	
91DDA1050	91DDA1050	11F16	710986	5092515	clayey silt till	dark brown	0.6	
91DDA1051	91DDA1051	11F16	710070	5091424	clayey silt till	dark brown	0.8	
91DDA1052	91DDA1052	11F16	707083	5086562	clayey silt till	dark brown	0.7	
91DDA1053	91DDA1053	11F16	705923	5085457	clayey silt till	dark brown	0.7	
91DDA1054	91DDA1054	11F16	705168	5084785	clayey silt till	orange brown	0.7	
91DDA1055	91DDA1055	11F16	704249	5084190	clayey silt till	orange brown	0.7	
91DDA1056	91DDA1056	11F16	703300	5083292	clayey silt till	orange brown	0.6	
91DDA1057	91DDA1057	11F16	702215	5082219	clayey silt till	dark brown	0.7	
91DDA1058	91DDA1058	11F16	702078	5081519	clayey silt till	dark brown	0.5	
91DDA1059	91DDA1059	11F16	700549	5080995	sandy till	dark brown	0.6	highly oxidized
91DDA1060	91DDA1060	11F16	700192	5080548	clayey silt till	dark brown	0.7	
91DDA1061	91DDA1061	11F16	699053	5079851	clayey silt till	dark brown	0.6	
91DDA1062	91DDA1062	11F16	697755	5079280	clayey silt till	orange brown	0.5	
91DDA1063	91DDA1063	11F16	697490	5078270	clayey silt till	dark brown	0.7	
91DDA1064	91DDA1064	11F16	696542	5077357	clayey silt till	dark brown	0.6	
91DDA1065	91DDA1065	11F16	695051	5077179	clayey silt till	orange brown	0.7	
91DDA1066	91DDA1066	11F16	708723	5087423	clayey silt till	dark brown	0.6	
91DDA1067	91DDA1067	11F16	709883	5079045	clayey silt till	dark brown	0.6	
91DDA1068	91DDA1068	11F16	709054	5080543	clayey silt till	dark brown	0.4	
91DDA1069	91DDA1069	11F16	708239	5081995	clayey silt till	orange brown	0.7	
91DDA1070	91DDA1070	11F16	707724	5084270	clayey silt till	brown	0.8	
91DDA1071	91DDA1071	11F16	708654	5085955	clayey silt till	orange brown	0.5	
91DDA1072	91DDA1072	11F16	708658	5091976	clayey silt till	dark brown	0.6	
91DDA1073	91DDA1073	11F16	708576	5090535	clayey silt till	orange brown	0.7	

Appendix A.2 1991till and pebble sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
91DDA1074	91DDA1074	11F16	707511	5090183	clayey silt till	dark brown	0.6	
91DDA1075	91DDA1075	11F16	704844	5088849	clayey silt till	dark brown	0.4	
91DDA1076	91DDA1076	11F16	706668	5088996	clayey silt till	reddish brown	0.6	
91DDA1077	91DDA1077	11F16	708130	5088290	clayey silt till	reddish brown	0.6	
91DDA1078	91DDA1078	11F16	708707	5089411	clayey silt till	dark brown	0.3-0.4	*POOR SAMPLE
91DDA1079	91DDA1079	11F16	709926	5093963	clayey silt till	dark brown	0.6	
91DDA1080	91DDA1080	11F16	697448	5089009	clayey silt till	orange brown	0.6	
91DDA1081	91DDA1081	11F16	698657	5089927	clayey silt till	orange brown	0.6	
91DDA1082	91DDA1082	11F16	699703	5090822	clayey silt till	orange brown	0.7	
91DDA1083	91DDA1083	11F16	700666	5091286	clayey silt till	dark brown	0.5	
91DDA1084	91DDA1084	11F16	701891	5091710	sandy till	dark brown	0.5	
91DDA1085	91DDA1085	11F16	703150	5092157	clayey silt till	dark brown	0.6	
91DDA1086	91DDA1086	11F16	703950	5091420	clayey silt till	dark brown	0.5	
91DDA1087	91DDA1087	11F16	694503	5084511	clay rich till	orange brown	0.5	
91DDA1088	91DDA1088	11F16	695716	5085307	clayey silt till	reddish brown	0.5	
91DDA1089	91DDA1089	11F16	697956	5086346	clayey silt till	dark brown	0.6	
91DDA1090	91DDA1090	11F16	698496	5088043	sandy till	dark brown	0.6	
91DDA1091	91DDA1091	11F16	699564	5088044	clayey silt till	dark brown	0.5	
91DDA1092	91DDA1092	11F16	700199	5089107	clayey silt till	brown	0.4	
91DDA1093	91DDA1093	11F16	701227	5089607	clayey silt till	orange brown	0.5	
91DDA1094	91DDA1094	11F16	702059	5090272	clayey silt till	orange brown	0.6	oxidized
91DDA1095	91DDA1095	11F16	701600	5088371	sandy till	orange brown	0.6	
91DDA1096	91DDA1096	11F16	700940	5087664	sandy till	dark brown	0.6	
91DDA1097	91DDA1097	11F16	700039	5087185	clayey silt till	orange brown	0.7	
91DDA1098	91DDA1098	11F16	698990	5086063	clayey silt till	reddish brown	0.7	
91DDA1099	91DDA1099	11F16	701015	5096794	sandy till	dark brown	0.6	
91DDA1100	91DDA1100	11F16	700186	5095849	sandy till	dark brown	0.6	
91DDA1101	91DDA1101	11F16	699448	5095064	clayey silt till	orange brown	0.6	
91DDA1102	91DDA1102	11F16	698678	5094129	sandy till	brown	0.6	
91DDA1103	91DDA1103	11F16	697193	5093627	very sandy till	dark brown	0.8	
91DDA1104	91DDA1104	11F16	696153	5092540	clayey silt till	dark brown	0.6	
91DDA1105	91DDA1105	11F16	695069	5091008	clay rich till, stony	dark brown	0.9	
91DDA1106	91DDA1106	11F16	694057	5090336	clayey silt till	reddish brown	0.7	
91DDA1107	91DDA1107	11F16	695774	5084453	clayey silt till	brown	0.6	
91DDA1108	91DDA1108	11F16	697929	5085051	clayey silt till	dark brown	0.5	
91DDA1109	91DDA1109	11F16	696733	5084884	clayey silt till	dark brown	0.8	
91DDA1110	91DDA1110	11F16	694647	5083112	clayey silt till	reddish brown	0.7	

Appendix A.2 1991till and pebble sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
91DDA1111	91DDA1111	11F16	696036	5083636	clayey silt till	reddish brown	0.5	
91DDA1112	91DDA1112	11F16	697401	5084070	clayey silt till	dark brown	0.6	
91DDA1113	91DDA1113	11F16	698610	5084527	clayey silt till	dark brown	0.6	
91DDA1114	91DDA1114	11F16	714562	5069748	clayey silt till	orange brown	1.6	oxidized
91DDA1115	91DDA1115	11F9	713600	5068367	clayey silt till	dark brown	0.6	
91DDA1116	91DDA1116	11F9	714362	5065934	clayey silt till	dark brown	0.6	
91DDA1117	91DDA1117	11F9	712635	5065950	clayey silt till	dark brown	0.6	
91DDA1118	91DDA1118	11F9	711074	5065946	clayey silt till	reddish brown	0.6	
91DDA1119	91DDA1119	11F9	707007	5065910	clayey silt till	brown	0.6	
91DDA1120	91DDA1120	11F9	709152	5066499	clayey silt till	brown	0.6	
91DDA1121	91DDA1121	11F9	710052	5066089	clayey silt till	orange brown	0.6	oxidized
91DDA1122	91DDA1122	11F9	708010	5066363	clayey silt till	orange brown	0.7	oxidized
91DDA1123	91DDA1123	11F9	705868	5066532	clayey silt till	dark brown	0.6	
91DDA1124	91DDA1124	11F9	704944	5067291	clayey silt till	brown	0.6	
91DDA1125	91DDA1125	11F9	704419	5068223	clayey silt till	orange brown	0.7	oxidized
91DDA1126	91DDA1126	11F16	704798	5071290	sandy till	orange brown	0.5	oxidized
91DDA1127	91DDA1127	11F16	704365	5070474	clayey silt till	orange brown	0.6	
91DDA1128	91DDA1128	11F16	704104	5069664	clayey silt till	orange brown	0.7	
91DDA1129	91DDA1129	11F9	703290	5068699	clayey silt till	brown	0.5	
91DDA1130	91DDA1130	11F9	702160	5068167	clayey silt till	dark brown	0.6	
91DDA1131	91DDA1131	11F9	701451	5067285	clayey silt till	dark brown	0.7	
91DDA1132	91DDA1132	11F9	704176	5066921	clayey silt till	reddish brown	0.6	
91DDA1133	91DDA1133	11F9	702956	5066857	sandy till	dark brown	0.6	
91DDA1134	91DDA1134	11F9	704584	5065613	sandy till	orange brown	0.5	oxidized
91DDA1135	91DDA1135	11F9	702942	5065472	clayey silt till	brown	0.6	
91DDA1136	91DDA1136	11F9	701719	5064840	clayey silt till	orange brown	0.8	
91DDA1137	91DDA1137	11F9	700535	5065160	clayey silt till	dark brown	0.6	
91DDA1138	91DDA1138	11F9	700868	5066379	clayey silt till	dark brown	0.5	
91DDA1139	91DDA1139	11F16	707370	5072085	sandy till, stony	dark brown	0.5	
91DDA1140	91DDA1140	11F16	706630	5071307	sandy till, very stony	dark brown	0.6	
91DDA1141	91DDA1141	11F16	705830	5070917	clayey silt till	dark brown	0.6	
91DDA1142	91DDA1142	11F9	700369	5063839	sandy till, very stony	orange brown	0.7	highly oxidized
91DDA1143	91DDA1143	11F9	699831	5064482	clayey silt till	dark brown	0.8	
91DDA1144	91DDA1144	11F9	699065	5065663	sandy till, very stony	reddish brown	0.8	
91DDA1145	91DDA1145	11F9	698398	5065356	clayey silt till, very stony	reddish brown	0.7	
91DDA1146	91DDA1146	11F9	694887	5068061	clayey silt till	dark brown	0.6	
91DDA1147	91DDA1147	11F9	696290	5068435	clayey silt till	dark brown	0.6	

Appendix A.2 1991till and pebble sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
91DDA1148	91DDA1148	11F9	697487	5068352	clayey silt till	dark brown	0.6	
91DDA1149	91DDA1149	11F9	698446	5067817	clayey silt till	dark brown	0.8	
91DDA1150	91DDA1150	11F9	698855	5069162	clayey silt till	reddish brown	0.6	
91DDA1151	91DDA1151	11F9	699428	5067436	clayey silt till	orange brown	0.6	
91DDA1152	91DDA1152	11F9	706797	5063777	clayey silt till	dark brown	0.7	
91DDA1153	91DDA1153	11F9	705677	5064593	sandy till	orange brown	0.8	oxidized
91DDA1154	91DDA1154	11F9	696606	5060411	clayey silt till	reddish brown	0.5	
91DDA1155	91DDA1155	11F9	694876	5059327	clayey silt till	dark brown	0.7	
91DDA1156	91DDA1156	11F9	699269	5063083	clayey silt till	orange brown	0.7	
91DDA1157	91DDA1157	11F9	700188	5066941	clayey silt till	dark brown	0.6	
91DDA1158	91DDA1158	11F9	695173	5064577	sandy till	orange brown	0.6	oxidized
91DDA1159	91DDA1159	11F9	694874	5061866	sandy till	orange brown	0.7	oxidized
91DDA1160	91DDA1160	11F9	695697	5061067	sandy till	orange brown	0.7	oxidized
91DDA1161	91DDA1161	11F9	714809	5067447	clayey silt till	dark brown	0.6	
91DDA1162	91DDA1162	11F9	708063	5067697	clayey silt till	brown	0.6	
91DDA1163	91DDA1163	11F9	706162	5067568	clayey silt till	brown	0.6	
91DDA1164	91DDA1164	11F16	704442	5081714	clayey silt till	orange brown	0.6	
91DDA1165	91DDA1165	11F16	699563	5077903	clayey silt till	brown	0.7	
91DDA1166	91DDA1166	11F16	697409	5075672	clayey silt till	orange brown	0.7	
91DDA1167	91DDA1167	11F16	696018	5072966	clayey silt till	orange brown	0.6	
91DDA1168	91DDA1168	11F16	695658	5071025	clayey silt till	brown	0.6	
91DDA1169	91DDA1169	11F16	709386	5070994	sandy till	dark brown	0.6	
91DDA1170	91DDA1170	11F16	712013	5071820	clayey silt till	orange brown	0.5	
91DDA1171	91DDA1171	11F16	711796	5073806	very sandy till	dark brown	0.6	
91DDA1172	91DDA1172	11F16	721301	5078085	clayey silt till	dark brown	0.6	
91DDA1173	91DDA1173	11F16	713596	5080702	clayey silt till	brown	0.6	
91DDA1174	91DDA1174	11F16	723832	5088937	clayey silt till	dark brown	0.6	
91DDA1175	91DDA1175	11F16	727075	5091693	clayey silt till	dark brown	0.7	
91DDA1300	91DDA1300	11F16	723957	5096616	silty sand till, bouldery	dark brown	0.5	
91DDA1301	91DDA1301	11F16	724579	5095723	clayey silt till	dark brown	0.6	
91DDA1302	91DDA1302	11F16	725636	5094663	clayey silt till	dark brown	0.6	
91DDA1303	91DDA1303	11F16	726867	5095376	clayey silt till	dark brown	0.7	
91DDA1304	91DDA1304	11F16	728231	5095806	clayey silt till, stony	dark brown	0.6	
91DDA1305	91DDA1305	11F16	724913	5093768	clayey silt till	dark brown	0.6	
91DDA1306	91DDA1306	11F16	723915	5094564	clayey silt till	dark brown	0.6	
91DDA1307	91DDA1307	11F16	722982	5093179	clayey silt till	dark brown	0.6	
91DDA1308	91DDA1308	11F16	720553	5095693	clayey silt till	dark brown	0.6	

Appendix A.2 1991till and pebble sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
91DDA1309	91DDA1309	11F16	720857	5094382	clayey silt till	dark brown	0.6	
91DDA1310	91DDA1310	11F16	720148	5092599	clayey silt till	dark brown	0.6	
91DDA1311	91DDA1311	11F16	721389	5093807	sandy till, stony	dark red	0.4	
91DDA1312	91DDA1312	11F16	716674	5093857	clayey silt till	orange brown	0.6	
91DDA1313	91DDA1313	11F16	717135	5092519	clayey silt till	orange brown	0.5	
91DDA1314	91DDA1314	11F16	716485	5090516	clayey silt till, stony	dark brown	0.5	
91DDA1315	91DDA1315	11F16	718264	5090877	clayey silt till	dark brown	0.6	
91DDA1316	91DDA1316	11F16	717058	5088992	clayey silt till	orange brown	0.6	
91DDA1317	91DDA1317	11F16	719892	5090783	clayey silt till	reddish brown	0.6	
91DDA1318	91DDA1318	11F16	719164	5093195	clayey silt till	orange brown	0.6	
91DDA1319	91DDA1319	11F16	719357	5088946	sandy till	orange brown	0.7	
91DDA1320	91DDA1320	11F16	720932	5088189	clayey silt till	dark brown	0.7	
91DDA1321	91DDA1321	11F16	721923	5089709	clayey silt till, very stony	dark brown	0.6	
91DDA1322	91DDA1322	11F16	722860	5091299	clayey silt till	orange brown	0.6	
91DDA1323	91DDA1323	11F16	720981	5090341	clayey silt till	dark brown	0.6	
91DDA1324	91DDA1324	11F16	714194	5097092	silty sand till	dark brown	0.6	
91DDA1325	91DDA1325	11F16	709273	5091905	clayey silt till	orange brown	0.6	
91DDA1326	91DDA1326	11F16	707789	5093633	clayey silt till	orange brown	0.4	oxidized
91DDA1327	91DDA1327	11F16	706899	5084439	clayey silt till	orange brown	0.6	
91DDA1328	91DDA1328	11F16	705994	5083788	clayey silt till	dark brown	0.6	
91DDA1329	91DDA1329	11F16	707293	5097081	clayey silt till	orange brown	0.7	oxidized
91DDA1330	91DDA1330	11F16	705659	5095424	clayey silt till	orange brown	0.6	
91DDA1331	91DDA1331	11F16	704960	5097084	clayey silt till	dark brown	0.6	
91DDA1332	91DDA1332	11F16	701834	5093817	clayey silt till	grey brown	0.5	
91DDA1333	91DDA1333	11F16	703338	5094438	clayey silt till	dark brown	0.6	
91DDA1334	91DDA1334	11F16	700263	5093052	clayey silt till	dark brown	0.6	
91DDA1335	91DDA1335	11F16	698768	5091481	sandy till	dark brown	0.6	
91DDA1336	91DDA1336	11F16	697355	5090545	clayey silt till	dark brown	0.6	
91DDA1337	91DDA1337	11F16	696235	5089491	sandy till, stony	dark brown	0.5	
91DDA1338	91DDA1338	11F16	694986	5088450	clayey silt till	reddish brown	0.5	
91DDA1339	91DDA1339	11F16	707284	5081465	clayey silt till	dark brown	0.6	
91DDA1340	91DDA1340	11F16	705996	5080005	clayey silt till	reddish brown	0.7	
91DDA1341	91DDA1341	11F16	705310	5080330	clayey silt till	dark brown	0.6	
91DDA1342	91DDA1342	11F16	704262	5079296	clayey silt till	dark brown	0.6	
91DDA1343	91DDA1343	11F16	707160	5090942	clayey silt till	reddish brown	0.5	
91DDA1344	91DDA1344	11F16	706614	5091744	sandy till	reddish brown	0.6	
91DDA1345	91DDA1345	11F16	705975	5092629	clayey silt till	dark brown	0.7	

Appendix A.2 1991till and pebble sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
91DDA1346	91DDA1346	11F16	704786	5094470	clayey silt till	dark brown	0.5	
91DDA1347	91DDA1347	11F16	705759	5094322	sandy till	dark brown	0.6	
91DDA1348	91DDA1348	11F16	709209	5077953	clayey silt till	reddish brown	0.4	
91DDA1349	91DDA1349	11F16	694134	5085969	clayey silt till	dark brown	0.5	
91DDA1350	91DDA1350	11F16	695117	5086955	clayey silt till	brown	0.5	
91DDA1351	91DDA1351	11F16	696377	5088141	clayey silt till	greyish brown	0.6	
91DDA1352	91DDA1352	11F16	714622	5070656	clayey silt till	rusty brown	0.6	oxidized
91DDA1353	91DDA1353	11F16	715543	5071846	clayey silt till	dark brown	0.6	
91DDA1354	91DDA1354	11F16	716066	5072939	clayey silt till	dark brown	0.5	
91DDA1355	91DDA1355	11F16	715941	5074234	clayey silt till	orange brown	0.5	
91DDA1356	91DDA1356	11F16	714863	5074616	clayey silt till, stony	orange brown	0.6	oxidized
91DDA1357	91DDA1357	11F16	716495	5077960	clay rich till, stony	dark reddish grey	0.4	
91DDA1358	91DDA1358	11F16	717767	5078519	clayey silt till	reddish brown	0.5	
91DDA1359	91DDA1359	11F16	718048	5079663	clayey silt till	reddish brown	0.6	
91DDA1360	91DDA1360	11F16	712605	5087936	sandy till, very stony	reddish brown	0.7	till?
91DDA1361	91DDA1361	11F16	712123	5085746	sandy till, very stony	reddish brown	0.6	till?
91DDA1362	91DDA1362	11F16	709740	5074185	clayey silt till	dark brown	0.4	
91DDA1363	91DDA1363	11F16	709452	5073646	clayey silt till	dark brown	0.8	
91DDA1364	91DDA1364	11F16	707933	5072551	clayey silt till	orange brown	0.5	
91DDA1365	91DDA1365	11F16	717860	5081929	clayey silt till	dark brown	0.8	
91DDA1366	91DDA1366	11F16	719509	5083713	clayey silt till	dark brown	0.6	oxidized
91DDA1367	91DDA1367	11F16	720098	5084513	clayey silt till	dark brown	0.6	
91DDA1368	91DDA1368	11F16	722022	5084885	clayey silt till	dark brown	0.6	
91DDA1369	91DDA1369	11F16	719411	5085654	sandy till	dark brown	0.7	
91DDA1370	91DDA1370	11F16	720142	5086826	sandy till	orange brown	0.7	
91DDA1371	91DDA1371	11F16	718193	5086536	sandy till	dark brown	0.5	
91DDA1372	91DDA1372	11F16	718115	5085183	clayey silt till	grey brown	0.6	
91DDA1373	91DDA1373	11F16	716578	5086886	clayey silt till	dark brown	0.7	
91DDA1374	91DDA1374	11F16	716792	5087566	sandy till, stony	orange brown	0.6	
91DDA1375	91DDA1375	11F16	715246	5087841	silty sand till	orange brown	0.4	
91DDA1376	91DDA1376	11F16	713028	5089013	clay rich till	orange brown	0.5	
91DDA1377	91DDA1377	11F16	712995	5090101	clay rich till	orange brown	0.5	oxidized
91DDA1378	91DDA1378	11F16	714877	5085789	sandy till, stony	dark brown	0.7	
91DDA1379	91DDA1379	11F16	714659	5084586	clayey silt till	dark brown	0.6	
91DDA1380	91DDA1380	11F16	713753	5083752	clay rich till	dark brown	0.6	
91DDA1381	91DDA1381	11F16	712992	5082624	clay rich till	reddish brown	0.6	
91DDA1382	91DDA1382	11F16	715336	5083356	silty sand till	dark brown	0.6	

Appendix A.2 1991till and pebble sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
91DDA1383	91DDA1383	11F16	715868	5081426	clay rich till, stony	reddish brown	0.5	
91DDA1384	91DDA1384	11F16	716730	5082692	sandy till, stony	orange brown	0.6	
91DDA1385	91DDA1385	11F16	717007	5077218	clay rich till	reddish brown	0.7	
91DDA1386	91DDA1386	11F16	715154	5078433	clayey silt till, stony	dark brown	0.6	
91DDA1387	91DDA1387	11F16	714265	5075592	sandy till	brown	0.5	
91DDA1388	91DDA1388	11F16	712658	5075555	clayey silt till	dark brown	0.6	
91DDA1389	91DDA1389	11F16	713809	5074364	clay rich till, stony	dark brown	0.5	
91DDA1390	91DDA1390	11F16	716395	5075656	sandy till, very stony	dark brown	0.7	
91DDA1391	91DDA1391	11F16	704154	5072004	clay rich till, stony	dark brown	0.5	
91DDA1392	91DDA1392	11F16	703891	5072999	clayey silt till	dark brown	0.6	
91DDA1393	91DDA1393	11F16	704166	5074654	clayey silt till	dark brown	0.6	
91DDA1394	91DDA1394	11F16	704891	5076491	clayey silt till	dark brown	0.7	
91DDA1395	91DDA1395	11F16	704195	5075722	silty sand till, stony	reddish brown	0.8	
91DDA1396	91DDA1396	11F16	706221	5074486	clayey silt till	dark brown	0.6	
91DDA1397	91DDA1397	11F16	709407	5078789	sandy till, very stony	reddish brown	0.6	
91DDA1398	91DDA1398	11F16	707650	5078734	silty till, very stony	reddish brown	0.8	
91DDA1399	91DDA1399	11F16	707827	5076596	sandy till, stony	dark brown	0.8	
91DDA1400	91DDA1400	11F16	706720	5077671	sandy till, stony	olive brown	0.6	
91DDA1401	91DDA1401	11F16	707341	5095594	sandy till, stony	dark brown	0.7	
91DDA1402	91DDA1402	11F16	732233	5091027	clayey silt till	orange brown	0.7	
91DDA1403	91DDA1403	11F16	732090	5092850	clayey silt till	orange brown	0.8	
91DDA1404	91DDA1404	11F16	694336	5080073	silty till, very stony	dark red	0.7	
91DDA1405	91DDA1405	11F16	695140	5081592	clayey silt till	orange brown	0.6	
91DDA1406	91DDA1406	11F16	696999	5080807	clayey silt till	reddish brown	0.7	
91DDA1407	91DDA1407	11F16	695727	5079165	clayey silt till	dark brown	0.6	
91DDA1408	91DDA1408	11F9	703039	5064133	clayey silt till	dark brown	0.6	
91DDA1409	91DDA1409	11F9	702643	5062401	sandy till, very stony	dark brown	0.7	till?
91DDA1410	91DDA1410	11F9	699514	5061496	clayey silt till	dark brown	0.7	
91DDA1411	91DDA1411	11F9	700257	5060813	sandy till, very stony	orange brown	0.6	till?
91DDA1412	91DDA1412	11F9	701297	5059790	sandy till, very stony	dark brown	0.6	till?
91DDA1413	91DDA1413	11F16	701822	5079154	clayey silt till	dark brown	0.6	
91DDA1414	91DDA1414	11F16	700747	5076353	clayey silt till	dark brown	0.7	
91DDA1415	91DDA1415	11F16	700962	5073628	clayey silt till	orange brown	0.5	
91DDA1416	91DDA1416	11F16	699319	5072818	clayey silt till	dark brown	0.6	
91DDA1417	91DDA1417	11F16	701881	5071080	clayey silt till	dark brown	0.5	
91DDA1418	91DDA1418	11F16	711677	5070008	silty till, stony	orange brown	0.5	
91DDA1419	91DDA1419	11F16	714200	5072635	sandy till, stony	dark brown	0.7	

Appendix A.2 1991till and pebble sample locations and descriptions

Till Sample	Pebble Sample	Location	Easting	Northing	Till Texture	Till Colour	Sample Depth (m)	Comments
91DDA1420	91DDA1420	11F16	719617	5076038	clayey silt till	dark brown	0.6	
91DDA1421	91DDA1421	11F16	715207	5080212	clayey silt till	reddish brown	0.7	
91DDA1422	91DDA1422	11F16	729914	5092873	clayey silt till	orange brown	0.7	
91DDA1423	91DDA1423	11F16	724806	5091074	clayey silt till	dark brown	0.6	
91DDA1424	91DDA1424	11F9	697677	5064204	clayey silt till	reddish brown	0.7	
91DDA1425	91DDA1425	11F9	697100	5062596	silty sand till, very stony	orange brown	0.6	

**APPENDIX A.3 bedrock and float boulder sample locations
 and descriptions**

Appendix A.3 Bedrock and boulder sample sites and descriptions

Sample Number	Location	Easting	Northing	Comments
91DD0A336	Deep Cove	723350	5085050	granite, with molybdenite
91DDA0337	Deep Cove	723350	5085050	basalt, quartz-sulphide veins
91DDA0352	Deep Cove	723350	5085050	basalt, sheared, quartz-sulphide veins
91DDA0353	Deep Cove	723350	5085050	granite, with molybdenite crystals (1-3 cm), contact with basaltic wall rock
91DDA0355	Deep Cove	723600	5085000	granite, with molybdenite
91DDA0356	Deep Cove	723600	5084950	large granite dyke, with cross-cutting quartz-molybdenite dykes
91DDA0358	Deep Cove	723650	5084950	basalt, with quartz veins containing molybdenite + minor sulphides
91DDA0360	Deep Cove	723700	5084950	basalt, with molybdenite
91DDA0361	Deep Cove	723800	5084900	felsic tuff, with molybdenite throughout
91DDA0368	Deep Cove	724050	5084740	basalt, with quartz-feldspar vein containing molybdenite
91DDA0369	Deep Cove	724470	5084430	basalt, with quartz-feldspar vein containing molybdenite
91DDA0370	Deep Cove	724850	5084100	basalt, with quartz vein containing molybdenite
91DDA0393	Deep Cove	723500	5085360	basalt
91DDA0438	Deep Cove	723900	5085200	float boulder/bedrock?, gneissic granite, with molybdenite
91DDA0439	Deep Cove	723900	5085100	float boulder, granite, visible sulphides
91DDA0477	Deep Cove	723700	5085200	granite, with sulphides, trace molybdenite in veins and fractures
91DDA0488	Framboise	704450	5065350	float cobble, mafic volcanic, disseminated sulphides throughout
91DDA0545	Gull Cove	726250	5077650	float boulder in till, at top of 20 m section, sulphides
91DDA0546	Gull Cove	726250	5077650	float boulder on beach, felsic volcanic, fine grained, disseminated sulphides
91DDA0547	Gull Cove	726250	5077650	float boulder on beach, purple, Fourchu Group volcanoclastic
91DDA0548	Gull Cove	726250	5077650	2 float boulders on beach, sediment? quartz vein, pyrite along bedding planes
91DDA0593	Blue Mountain	716300	5094050	grey shale, rusty partings and joints
91DDA0594	Blue Mountain	716650	5093000	grey, thinly bedded sandstone, abundant shale partings, some sulphides
91DDA0595	Blue Mountain	717000	5089150	grey slate, hornfelsed, rusty (limonite), some pyrite in joints & fractures
91DDA0596	Blue Mountain	717850	5089250	grey hornfels, sulphides along fractures
91DDA0597	Blue Mountain	717400	5088700	spotted grey hornfels, trace sulphides
91DDA0598	Blue Mountain	717300	5088500	spotted dark grey hornfels, massive texture
91DDA0599	Blue Mountain	717300	5088500	pink dacite porphyry
91DDA0600	Blue Mountain	717600	5089000	spotted grey hornfels, pyrite in fractures
91DDA0601	Blue Mountain	718600	5091000	grey slate

Appendix A.3 Bedrock and boulder sample sites and descriptions

Sample Number	Location	Easting	Northing	Comments
91DDA0602	Blue Mountain	719150	5090700	dark grey to black slate or hornfels
91DDA0603	Blue Mountain	719200	5090700	dark grey hornfels with disseminated sulphides
91DDA0604	Blue Mountain	719200	5090700	pink dacite porphyry dyke, with sulphides
91DDA0605	Blue Mountain	719000	5089800	knotted skarn
91DDA0606	Blue Mountain	719000	5089550	knotted skarn
91DDA0607	Blue Mountain	719000	5089450	spotted grey hornfels, with a few quartz veins; trace sulphides
91DDA0608	Blue Mountain	719100	5089150	spotted, very dark grey hornfels
91DDA0609	Blue Mountain	718900	5088500	spotted, very dark grey hornfels, grey-brown weathered surface

APPENDIX B. Till geochemical data for the <0.063 mm fraction, proportional symbol maps and summary statistics

	page
B.1 1990 orientation study data.....	61
B.2 Regional data.....	71
B.3 Deep Cove detailed grid data.....	109
B.4 Blue Mountain detailed grid data.....	121
B.5 Stirling area detailed grid data.....	135
B.6 Stratigraphic section data.....	147

**APPENDIX B.1 1990 orientation study till geochemical data
for the <0.063 mm fraction**

Appendix B.1 Till geochemical data for 1990 till samples

Sample Number	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
90DDA200	2.43	4.14	1040	1.40	2.29	<0.05	0.18	55	16	13	16	32	107	16	43	19	2
90DDA202	2.58	4.45	1025	1.52	1.33	<0.05	0.20	57	20	14	22	36	115	23	34	20	4
90DDA204	2.21	3.77	889	1.11	0.34	<0.05	0.14	48	17	13	18	30	94	20	25	20	2
90DDA206	2.15	3.64	1143	1.23	2.86	<0.05	0.17	50	15	12	15	31	101	10	46	18	<1
90DDA208	2.16	3.67	1042	1.12	1.11	<0.05	0.12	53	14	11	13	29	104	14	35	21	1
90DDA210	2.00	3.50	1096	1.04	0.52	<0.05	0.11	53	13	11	12	26	102	18	30	20	2
90DDA212	2.55	3.78	353	0.95	0.10	<0.05	0.09	52	21	11	17	140	93	154	10	10	28
90DDA214	2.28	3.43	560	1.19	0.16	<0.05	0.13	49	22	13	22	75	87	6	13	8	2
90DDA215	2.06	3.24	506	1.11	0.15	<0.05	0.11	45	21	12	21	61	69	15	12	7	1
90DDA216	2.11	3.21	472	1.11	0.14	<0.05	0.11	45	21	13	21	60	78	6	12	7	2
90DDA217	3.11	3.12	255	0.90	0.09	<0.05	0.09	42	21	10	17	62	87	49	11	8	5
90DDA219	3.03	4.50	940	1.26	0.30	<0.05	0.10	51	24	34	31	775	802	67	12	9	1
90DDA220	2.91	4.37	806	1.16	0.28	<0.05	0.10	51	25	29	30	605	658	44	12	10	2
90DDA221	5.25	3.76	527	0.43	0.07	<0.05	<0.05	35	30	20	17	378	242	29	5	8	2
90DDA222	5.12	4.03	332	0.35	0.07	<0.05	<0.05	43	31	11	13	258	211	28	4	7	2
90DDA223	4.03	3.78	657	0.97	0.25	<0.05	0.09	42	27	28	25	238	664	34	9	8	2
90DDA224	3.90	4.36	384	0.48	0.11	<0.05	0.06	53	26	11	18	165	314	39	6	6	2
90DDA225	3.71	4.43	709	0.88	0.12	<0.05	0.06	58	28	23	25	242	216	141	10	7	<1
90DDA226	3.12	4.69	502	0.82	0.10	<0.05	0.06	63	25	18	21	153	246	76	10	6	2
90DDA227	3.48	4.61	428	0.81	0.10	<0.05	<0.05	62	26	17	24	153	274	56	11	6	2
90DDA228	4.46	5.34	391	0.81	0.09	<0.05	0.05	67	28	16	25	146	284	65	10	6	<1
90DDA229	2.75	4.55	712	1.18	0.13	<0.05	0.21	63	31	18	24	132	180	12	14	8	<1
90DDA230	2.54	4.30	602	1.07	0.13	<0.05	0.16	60	29	16	23	106	155	23	13	8	<1
90DDA231	2.52	5.26	370	0.69	0.08	<0.05	0.06	72	27	11	16	54	101	17	10	6	1
90DDA232	2.23	4.44	854	0.90	0.18	<0.05	0.11	62	25	22	23	232	431	89	13	8	2
90DDA233	2.77	4.26	648	0.80	0.12	<0.05	0.08	57	26	19	22	297	287	31	10	7	1
90DDA234	3.74	4.59	531	0.67	0.09	<0.05	<0.05	58	29	16	20	377	324	49	8	7	<1
90DDA235	3.69	4.59	527	0.56	0.08	<0.05	<0.05	58	28	14	17	324	277	39	8	6	1
90DDA236	2.15	4.48	617	1.37	0.46	<0.05	0.16	61	29	15	25	46	107	15	17	13	1
90DDA237	2.27	4.42	1001	1.38	0.46	<0.05	0.18	63	31	17	27	50	103	<5	20	13	3
90DDA238	2.31	4.35	1101	1.36	0.39	<0.05	0.17	59	32	17	28	50	108	<5	20	13	1
90DDA239	2.34	4.28	787	1.31	0.34	<0.05	0.17	57	29	18	29	51	109	6	19	13	1
90DDA240	2.43	4.27	733	1.23	0.30	0.05	0.16	55	31	17	31	52	110	<5	19	16	2
90DDA241	4.67	6.02	308	0.44	0.06	<0.05	0.08	52	34	10	15	63	217	95	5	7	3
90DDA242	2.97	8.25	142	0.15	<0.05	<0.05	<0.05	80	26	5	7	40	131	112	4	5	3
90DDA243	4.78	8.19	145	0.18	<0.05	<0.05	<0.05	58	34	5	6	46	144	95	3	5	5

Appendix B.1 Till geochemical data for 1990 till samples

Sample Number	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
90DDA244	3.45	7.61	469	0.96	0.07	<0.05	0.16	47	30	13	24	111	768	136	8	7	5
90DDA245	3.43	8.08	452	1.02	0.07	<0.05	0.17	48	32	13	27	117	781	143	8	7	5
90DDA246	3.42	6.68	447	0.83	0.06	<0.05	0.12	45	31	14	26	107	617	114	7	7	5
90DDA247	4.27	5.31	358	0.61	0.06	<0.05	0.07	44	32	12	24	68	397	66	6	6	4
90DDA248	5.43	5.45	388	0.41	<0.05	<0.05	0.05	40	32	10	18	55	316	52	5	5	3
90DDA249	4.64	5.57	652	0.90	0.10	<0.05	0.22	58	32	20	30	108	452	36	8	7	3
90DDA250	5.19	5.24	382	0.73	0.08	<0.05	0.11	53	34	14	27	90	360	21	7	6	3
90DDA251	4.96	6.95	217	0.32	0.05	<0.05	<0.05	63	33	8	13	46	173	26	5	5	3
90DDA252	0.31	2.80	303	<0.05	<0.05	<0.05	<0.05	62	17	3	5	5	16	7	2	5	1
90DDA253	3.79	5.49	542	0.85	0.09	<0.05	0.18	55	28	18	24	76	553	81	8	7	4
90DDA254	3.82	5.47	440	0.76	0.09	<0.05	0.13	50	27	15	23	72	543	105	8	7	6
90DDA255	5.86	5.38	322	0.39	0.05	<0.05	0.09	69	32	10	14	21	141	<5	4	6	3
90DDA256	0.40	3.41	311	<0.05	<0.05	<0.05	<0.05	77	21	4	7	3	9	<5	2	5	1
90DDA258	3.29	6.39	385	0.85	0.07	<0.05	0.12	49	29	13	23	101	529	66	8	7	4
90DDA259	3.26	6.48	374	0.82	0.06	<0.05	0.12	48	29	12	24	100	530	52	7	7	4
90DDA260	4.58	6.06	358	0.72	0.06	<0.05	0.07	51	34	14	23	70	496	32	6	7	3
90DDA261	4.83	6.23	234	0.54	<0.05	<0.05	<0.05	53	33	9	20	59	429	32	5	6	4
90DDA262	6.27	5.70	343	0.69	<0.05	<0.05	0.06	57	36	14	26	100	340	30	5	8	3
90DDA263	8.05	5.79	222	0.48	<0.05	<0.05	<0.05	53	38	10	19	79	249	23	4	7	3
90DDA264	6.52	4.36	680	0.49	<0.05	<0.05	0.05	41	33	23	21	83	197	31	6	7	6
90DDA265	7.94	5.13	153	0.32	<0.05	<0.05	<0.05	40	39	8	16	70	134	7	4	6	5
90DDA268	3.58	>10.00	401	0.48	<0.05	<0.05	0.05	39	37	11	9	99	140	237	4	6	5
90DDA269	4.76	7.00	383	0.42	<0.05	<0.05	<0.05	30	38	10	11	66	112	128	3	6	4
90DDA270	4.78	>10.00	643	0.36	<0.05	<0.05	0.06	56	64	9	5	42	66	92	4	10	6
90DDA271	5.66	7.84	671	0.29	<0.05	<0.05	<0.05	37	55	8	10	38	76	72	3	6	5
90DDA272	2.63	6.94	629	0.88	0.05	<0.05	0.11	47	29	18	17	92	175	95	8	6	5
90DDA273	2.81	6.98	562	0.88	<0.05	<0.05	0.11	47	30	15	16	93	187	90	8	5	4
90DDA274	4.96	6.97	586	0.55	<0.05	<0.05	0.06	41	38	12	14	91	143	86	6	5	4
90DDA275	3.17	6.67	424	0.92	0.06	<0.05	0.13	47	32	12	23	103	230	38	6	6	3
90DDA276	3.26	6.79	457	0.94	0.06	<0.05	0.14	47	33	13	24	102	232	40	7	6	5
90DDA277	3.62	6.88	510	0.91	0.06	<0.05	0.11	46	33	15	24	97	255	42	7	6	4
90DDA278	4.58	6.08	440	0.77	<0.05	<0.05	0.08	42	37	11	24	72	254	19	6	7	4
90DDA279	3.77	5.68	1120	0.94	0.12	<0.05	0.14	55	27	35	32	174	609	60	10	9	3
90DDA280	3.37	5.22	1154	0.82	0.13	<0.05	0.13	54	23	34	30	236	627	62	9	8	1
90DDA281	4.87	5.65	1612	0.81	0.11	<0.05	0.13	48	28	47	38	289	839	69	7	10	4
90DDA282	7.37	5.05	1371	0.50	0.06	<0.05	0.07	45	34	43	23	213	419	59	4	10	5

Appendix B.1 Till geochemical data for 1990 till samples

Sample Number	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
90DDA283	7.38	7.09	181	0.24	<0.05	<0.05	<0.05	65	41	6	9	128	141	32	4	8	5
90DDA288	3.43	4.99	910	1.09	0.18	<0.05	0.18	64	28	23	35	133	1047	13	14	8	2
90DDA289	3.30	4.92	772	0.99	0.17	<0.05	0.15	66	28	21	33	128	893	14	13	8	3
90DDA290	3.81	4.50	688	0.87	0.14	<0.05	0.10	59	27	21	29	138	811	17	11	8	1
90DDA291	6.76	4.01	424	0.46	0.06	<0.05	<0.05	46	30	15	19	67	443	<5	5	7	1
90DDA292	5.84	4.14	342	0.37	0.05	<0.05	<0.05	49	29	12	18	56	358	<5	5	5	3
90DDA293	2.93	6.24	448	0.69	<0.05	<0.05	0.10	43	30	11	21	71	231	63	6	5	4
90DDA294	4.54	6.68	638	0.59	<0.05	<0.05	0.07	42	33	12	18	71	244	57	5	5	5
90DDA295	6.61	7.21	852	0.26	<0.05	<0.05	<0.05	41	32	8	10	45	121	39	3	6	3
90DDA296	2.26	3.97	747	1.38	0.48	<0.05	0.14	52	32	17	30	53	99	<5	24	12	<1
90DDA297	2.48	4.13	796	1.44	0.51	<0.05	0.18	57	34	18	31	55	101	<5	30	13	3
90DDA298	2.53	4.52	881	1.54	0.52	<0.05	0.16	57	37	19	33	55	105	10	28	13	2
90DDA299	2.50	4.48	935	1.53	0.53	<0.05	0.15	58	36	19	32	58	108	<5	28	13	2
90DDA300	2.47	4.35	1009	1.48	0.51	<0.05	0.16	56	34	19	32	58	101	11	28	13	1
90DDA301	2.46	4.42	953	1.53	0.54	<0.05	0.16	57	36	19	32	58	104	<5	27	13	2
90DDA302	2.37	4.03	813	1.49	0.49	<0.05	0.17	57	33	18	29	57	103	<5	25	13	1
90DDA303	2.41	4.08	841	1.50	0.50	<0.05	0.19	58	33	18	29	54	107	7	26	13	1
90DDA304	2.38	4.12	777	1.51	0.50	<0.05	0.19	58	33	17	28	53	104	7	25	13	<1
90DDA305	2.32	4.18	754	1.43	0.50	<0.05	0.16	56	33	18	29	53	102	6	24	13	2
90DDA307	2.50	4.40	862	1.50	0.54	<0.05	0.17	59	37	19	32	56	102	7	30	13	1
90DDA309	2.57	4.72	865	1.67	0.62	<0.05	0.21	67	42	19	32	54	118	8	30	13	3
90DDA310	2.57	4.88	961	1.69	0.57	<0.05	0.16	62	41	21	35	60	131	5	30	13	2
90DDA311	2.49	4.49	822	1.55	0.54	<0.05	0.18	61	35	19	32	57	110	8	28	14	2
90DDA315	2.49	4.27	859	1.47	0.62	<0.05	0.19	55	32	18	33	50	105	12	23	14	3
90DDA316	2.52	4.43	761	1.58	0.69	<0.05	0.19	57	33	18	31	50	106	<5	24	14	2
90DDA317	2.47	4.40	782	1.58	0.54	<0.05	0.19	62	34	18	30	55	106	<5	27	13	<1
90DDA318	2.48	4.54	872	1.57	0.52	<0.05	0.16	60	37	20	32	56	107	<5	27	13	3
90DDA319	2.48	4.62	914	1.60	0.52	<0.05	0.15	59	39	21	35	58	111	6	26	13	2
90DDA320	2.40	4.51	872	1.59	0.56	<0.05	0.16	62	39	19	33	55	108	<5	26	13	2
90DDA321	2.82	4.52	579	1.69	0.32	<0.05	0.26	64	27	16	27	78	90	<5	27	14	4
90DDA322	2.67	4.32	544	1.59	0.30	<0.05	0.23	60	28	15	27	81	85	12	26	14	2
90DDA323	2.73	4.39	548	1.62	0.29	<0.05	0.22	60	29	15	28	82	89	<5	25	14	1
90DDA324	2.89	4.45	544	1.68	0.24	<0.05	0.22	63	30	15	26	80	88	9	23	15	1
90DDA325	2.70	4.09	330	1.10	0.09	<0.05	0.12	64	26	11	21	34	75	8	13	6	2
90DDA326	2.62	4.08	526	1.91	0.75	0.06	0.25	52	29	16	31	58	91	8	24	11	1
90DDA327	1.94	4.01	1902	0.68	0.28	<0.05	0.16	32	26	17	34	19	2513	19	16	17	2

Appendix B.1 Till geochemical data for 1990 till samples

Sample Number	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
90DDA328	1.98	3.76	1760	0.67	0.25	<0.05	0.19	32	26	16	33	18	2314	<5	17	20	4
90DDA329	2.02	4.03	1926	0.68	0.22	<0.05	0.17	33	26	17	33	21	2028	14	15	31	3
90DDA330	1.80	3.46	1300	0.52	0.09	<0.05	0.12	28	21	13	24	16	1269	18	10	10	1
90DDA331	1.89	3.54	1306	0.56	0.09	<0.05	0.11	28	22	13	28	15	1282	19	10	9	2
90DDA332	2.90	4.22	5065	0.34	0.07	<0.05	0.07	29	26	20	24	16	1218	12	6	9	2
90DDA333	1.96	3.01	1098	0.69	0.11	<0.05	0.10	28	20	18	31	19	765	25	7	9	1
90DDA334	2.03	3.21	1311	0.66	0.10	<0.05	0.09	28	22	18	31	20	861	26	7	9	2
90DDA335	2.97	3.01	1740	0.67	0.07	<0.05	0.07	26	25	17	32	15	1007	9	5	6	<1
90DDA336	3.93	6.82	102	0.11	<0.05	<0.05	<0.05	49	28	3	4	10	167	42	3	3	3
90DDA337	0.35	0.59	<50	<0.05	<0.05	<0.05	<0.05	14	3	<1	3	4	18	5	2	2	<1
90DDA338	1.49	2.38	831	0.36	0.11	<0.05	0.11	21	14	9	16	20	577	16	12	13	3
90DDA339	1.16	2.05	807	0.30	0.10	<0.05	0.08	18	12	8	15	16	497	<5	10	11	2
90DDA340	1.33	2.33	912	0.34	0.09	<0.05	0.08	20	14	9	16	17	549	14	10	8	1
90DDA341	2.43	3.57	105	0.07	<0.05	<0.05	<0.05	37	11	3	3	6	99	<5	3	3	2
90DDA343	0.90	1.62	611	0.22	0.07	<0.05	<0.05	13	10	7	12	10	317	<5	6	6	<1
90DDA344	1.39	2.02	951	0.27	0.07	<0.05	<0.05	16	13	11	16	12	374	9	7	6	2
90DDA345	1.54	1.71	841	0.20	0.05	<0.05	<0.05	14	11	12	13	9	301	7	5	5	<1
90DDA346	2.96	2.56	689	0.18	<0.05	<0.05	<0.05	20	19	11	12	9	277	<5	4	5	<1
90DDA347	1.68	3.36	1055	0.50	<0.05	<0.05	0.08	26	19	14	25	22	447	9	7	10	1
90DDA348	1.36	2.31	571	0.37	<0.05	<0.05	0.08	20	17	10	20	14	258	8	8	6	2
90DDA349	1.13	1.92	457	0.27	<0.05	<0.05	0.05	17	14	8	15	11	198	<5	6	6	1
90DDA350	1.97	2.82	510	0.32	<0.05	<0.05	0.05	25	22	11	18	14	296	9	6	7	1

Appendix B.1 Till geochemical data for 1990 till samples

Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	Ce ppm	W ppm	Pb ppm	Bi ppm	Au ppb
90DDA200	<0.5	<1	<20	<5	<10	146	17	46	<10	16	<5	<1
90DDA202	0.9	<1	<20	<5	<10	132	18	52	13	17	<5	<1
90DDA204	0.6	<1	<20	<5	<10	102	16	48	<10	10	<5	1
90DDA206	0.6	<1	<20	<5	<10	162	17	50	<10	14	<5	1
90DDA208	0.7	<1	<20	<5	<10	120	17	47	<10	14	<5	5
90DDA210	<0.5	<1	<20	<5	<10	100	16	44	<10	13	<5	2
90DDA212	2.1	2	<20	<5	<10	62	14	39	<10	16	10	2
90DDA214	<0.5	<1	<20	<5	<10	84	12	38	<10	6	<5	2
90DDA215	<0.5	<1	<20	<5	<10	66	12	35	<10	6	<5	1
90DDA216	<0.5	<1	<20	<5	<10	63	12	35	<10	8	<5	<1
90DDA217	1.2	<1	<20	<5	<10	46	12	38	<10	9	7	1
90DDA219	<0.5	1	<20	<5	<10	48	26	76	<10	528	28	3
90DDA220	<0.5	<1	<20	<5	<10	46	26	78	<10	329	24	5
90DDA221	1.1	<1	<20	<5	<10	27	17	46	<10	125	12	2
90DDA222	1.3	1	<20	<5	<10	26	16	41	<10	94	8	<1
90DDA223	1.6	<1	<20	<5	<10	33	19	72	13	196	62	14
90DDA224	0.8	1	<20	<5	<10	30	15	43	<10	75	35	6
90DDA225	<0.5	<1	<20	<5	<10	39	19	55	<10	74	43	2
90DDA226	1.5	1	<20	<5	<10	32	21	53	<10	96	12	9
90DDA227	0.8	2	<20	<5	<10	35	21	56	<10	83	14	3
90DDA228	0.8	<1	<20	<5	<10	39	21	54	<10	75	16	7
90DDA229	<0.5	<1	<20	<5	<10	70	26	60	<10	50	<5	<1
90DDA230	<0.5	1	<20	<5	<10	50	25	59	<10	43	<5	6
90DDA231	<0.5	<1	<20	<5	<10	31	21	49	<10	24	8	4
90DDA232	<0.5	2	<20	<5	<10	36	23	60	<10	121	15	10
90DDA233	0.9	<1	<20	<5	<10	34	20	48	<10	62	16	5
90DDA234	1.3	1	<20	<5	<10	28	19	44	<10	68	28	5
90DDA235	1.0	1	<20	<5	<10	27	17	42	<10	58	26	7
90DDA236	<0.5	<1	<20	<5	<10	90	18	48	<10	18	<5	7
90DDA237	<0.5	<1	<20	<5	<10	89	18	53	<10	23	<5	5
90DDA238	<0.5	<1	<20	<5	<10	97	19	52	<10	34	9	5
90DDA239	<0.5	<1	<20	<5	<10	88	19	52	<10	19	<5	6
90DDA240	<0.5	1	<20	<5	<10	120	21	49	<10	17	<5	2
90DDA241	<0.5	<1	<20	<5	<10	36	22	49	<10	821	11	2
90DDA242	<0.5	<1	<20	<5	<10	25	23	53	<10	727	14	<1
90DDA243	<0.5	<1	<20	<5	<10	21	17	39	<10	806	15	2

Appendix B.1 Till geochemical data for 1990 till samples

Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	Ce ppm	W ppm	Pb ppm	Bi ppm	Au ppb
90DDA244	<0.5	2	<20	7	<10	37	26	69	<10	1061	12	3
90DDA245	<0.5	<1	<20	<5	<10	34	27	70	<10	945	10	3
90DDA246	<0.5	<1	<20	<5	<10	30	26	65	<10	677	8	3
90DDA247	<0.5	1	<20	<5	<10	26	21	52	<10	454	10	2
90DDA248	0.8	<1	<20	<5	<10	22	17	44	<10	441	8	2
90DDA249	<0.5	<1	<20	<5	<10	64	24	63	<10	345	12	4
90DDA250	<0.5	<1	<20	<5	<10	49	22	54	<10	245	9	2
90DDA251	<0.5	<1	<20	<5	<10	26	18	45	<10	147	12	<1
90DDA252	<0.5	<1	<20	<5	<10	11	41	95	<10	8	<5	<1
90DDA253	<0.5	<1	<20	<5	<10	59	25	62	<10	577	<5	3
90DDA254	<0.5	1	<20	<5	<10	58	26	63	<10	774	<5	2
90DDA255	<0.5	<1	<20	<5	<10	42	21	49	<10	81	8	<1
90DDA256	<0.5	<1	<20	<5	<10	11	44	102	<10	10	<5	3
90DDA258	<0.5	1	<20	<5	<10	35	28	63	<10	1759	7	2
90DDA259	<0.5	<1	<20	<5	<10	32	28	64	<10	1428	7	2
90DDA260	1.3	<1	<20	<5	<10	34	26	57	<10	696	<5	2
90DDA261	1.2	<1	<20	<5	<10	35	23	50	<10	499	5	<1
90DDA262	<0.5	<1	<20	<5	<10	30	18	45	<10	151	7	2
90DDA263	<0.5	<1	<20	<5	<10	24	15	39	<10	119	<5	2
90DDA264	<0.5	<1	<20	<5	<10	30	15	43	<10	161	10	5
90DDA265	<0.5	1	<20	<5	<10	21	15	35	<10	92	10	1
90DDA268	<0.5	<1	<20	10	<10	23	25	57	<10	129	<5	3
90DDA269	<0.5	<1	<20	8	<10	21	20	46	<10	101	6	4
90DDA270	1.1	1	<20	<5	<10	25	23	59	<10	57	16	<1
90DDA271	<0.5	<1	<20	<5	<10	18	17	42	<10	63	9	1
90DDA272	<0.5	<1	<20	<5	<10	60	27	66	<10	631	7	2
90DDA273	<0.5	<1	<20	<5	<10	62	27	61	<10	691	6	4
90DDA274	<0.5	1	<20	5	<10	38	21	44	<10	447	<5	12
90DDA275	<0.5	<1	<20	<5	<10	38	26	64	<10	442	8	5
90DDA276	<0.5	<1	<20	<5	<10	42	27	66	<10	479	7	2
90DDA277	<0.5	2	<20	<5	<10	34	27	64	<10	414	<5	2
90DDA278	<0.5	<1	<20	<5	<10	30	25	57	<10	261	5	2
90DDA279	<0.5	<1	<20	<5	<10	48	23	80	<10	414	12	5
90DDA280	<0.5	<1	<20	<5	<10	42	20	73	<10	385	12	5
90DDA281	<0.5	1	<20	<5	<10	40	23	74	10	400	14	4
90DDA282	<0.5	<1	<20	<5	<10	31	17	48	<10	310	18	5

Appendix B.1 Till geochemical data for 1990 till samples

Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	Ce ppm	W ppm	Pb ppm	Bi ppm	Au ppb
90DDA283	0.9	<1	<20	<5	<10	22	15	39	<10	120	29	<1
90DDA288	<0.5	<1	<20	<5	<10	54	24	65	<10	320	15	34
90DDA289	<0.5	1	<20	<5	<10	49	25	66	<10	254	15	4
90DDA290	<0.5	<1	<20	<5	<10	41	21	55	<10	208	14	6
90DDA291	<0.5	<1	<20	<5	<10	31	14	36	<10	144	6	2
90DDA292	<0.5	1	<20	<5	<10	27	15	38	<10	140	9	1
90DDA293	<0.5	<1	<20	<5	<10	32	23	56	<10	354	<5	<1
90DDA294	<0.5	<1	<20	<5	<10	29	21	52	<10	316	<5	2
90DDA295	<0.5	<1	<20	<5	<10	19	17	41	<10	174	6	2
90DDA296	<0.5	<1	<20	<5	<10	99	18	46	<10	22	<5	1
90DDA297	<0.5	<1	<20	<5	<10	114	21	53	<10	23	<5	1
90DDA298	<0.5	<1	<20	<5	<10	123	21	54	<10	23	<5	<1
90DDA299	<0.5	<1	<20	<5	<10	111	21	53	<10	22	<5	3
90DDA300	<0.5	<1	<20	<5	<10	104	20	52	<10	22	<5	2
90DDA301	<0.5	<1	<20	<5	<10	108	20	54	<10	24	<5	<1
90DDA302	<0.5	<1	<20	<5	<10	100	18	50	<10	16	<5	1
90DDA303	<0.5	<1	<20	<5	<10	105	18	49	<10	15	<5	2
90DDA304	<0.5	<1	<20	<5	<10	107	18	49	<10	12	<5	2
90DDA305	<0.5	<1	<20	<5	<10	112	18	47	<10	18	<5	3
90DDA307	<0.5	<1	<20	<5	<10	109	22	57	<10	23	<5	2
90DDA309	<0.5	<1	<20	<5	<10	118	20	54	<10	19	<5	2
90DDA310	0.5	<1	<20	<5	<10	109	21	59	<10	21	<5	2
90DDA311	<0.5	<1	<20	<5	<10	114	21	55	<10	21	<5	2
90DDA315	<0.5	<1	<20	<5	<10	129	20	54	<10	18	<5	2
90DDA316	<0.5	<1	<20	<5	<10	156	19	53	<10	19	<5	3
90DDA317	<0.5	<1	<20	<5	<10	114	19	49	<10	17	<5	3
90DDA318	<0.5	<1	<20	<5	<10	110	21	54	<10	22	<5	3
90DDA319	<0.5	<1	<20	<5	<10	113	21	54	<10	24	<5	<1
90DDA320	<0.5	<1	<20	<5	<10	117	20	48	<10	22	<5	1
90DDA321	<0.5	1	<20	<5	<10	726	17	37	<10	9	<5	2
90DDA322	<0.5	<1	<20	<5	<10	678	16	38	<10	8	<5	1
90DDA323	<0.5	<1	<20	<5	<10	672	16	39	<10	6	<5	2
90DDA324	<0.5	<1	<20	<5	<10	481	17	40	<10	5	<5	2
90DDA325	<0.5	<1	<20	<5	<10	50	11	28	<10	11	7	1
90DDA326	<0.5	<1	<20	<5	<10	355	14	35	<10	7	<5	<1
90DDA327	<0.5	33	<20	<5	<10	360	25	68	<10	412	<5	<1

Appendix B.1 Till geochemical data for 1990 till samples

Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	Ce ppm	W ppm	Pb ppm	Bi ppm	Au ppb
90DDA328	<0.5	28	<20	<5	<10	543	27	67	13	580	<5	<1
90DDA329	<0.5	8	<20	<5	<10	488	33	77	12	3054	<5	1
90DDA330	<0.5	2	<20	<5	<10	74	24	71	<10	2230	<5	1
90DDA331	<0.5	1	<20	<5	<10	66	24	68	<10	2162	<5	1
90DDA332	<0.5	1	<20	<5	<10	42	22	78	<10	4589	<5	1
90DDA333	<0.5	<1	<20	<5	<10	16	28	81	<10	10000	<5	1
90DDA334	<0.5	1	<20	<5	<10	16	27	80	<10	10000	<5	<1
90DDA335	<0.5	<1	<20	<5	<10	14	22	74	<10	2208	<5	2
90DDA336	<0.5	<1	<20	<5	<10	10	15	48	<10	1736	<5	<1
90DDA337	<0.5	<1	<20	<5	<10	6	12	32	<10	196	<5	<1
90DDA338	<0.5	<1	<20	<5	<10	36	24	58	<10	3130	<5	2
90DDA339	<0.5	<1	<20	<5	<10	17	24	59	<10	2147	<5	1
90DDA340	<0.5	<1	<20	<5	<10	20	25	66	<10	1796	<5	1
90DDA341	<0.5	<1	<20	<5	<10	7	11	30	<10	319	<5	4
90DDA343	<0.5	<1	<20	<5	<10	13	19	54	<10	351	<5	<1
90DDA344	<0.5	<1	<20	<5	<10	15	21	60	<10	467	<5	1
90DDA345	<0.5	<1	<20	<5	<10	11	21	53	<10	364	<5	<1
90DDA346	<0.5	<1	<20	<5	<10	12	18	44	<10	327	<5	<1
90DDA347	<0.5	<1	<20	<5	<10	26	25	66	<10	444	<5	1
90DDA348	<0.5	<1	<20	<5	<10	20	24	64	<10	194	<5	<1
90DDA349	<0.5	<1	<20	<5	<10	13	24	68	<10	153	<5	<1
90DDA350	<0.5	<1	<20	<5	<10	15	20	65	<10	203	<5	1

APPENDIX B.2 Regional till geochemical data for the <0.063 mm fraction

	page
Data listing.....	73
Summary statistics.....	91
Proportional symbol maps*	
Bedrock map legend.....	92
Ca.....	94
Mg.....	95
Fe (total).....	96
Mn.....	97
Ba.....	98
Au.....	99
As.....	100
Ag.....	101
Cu.....	102
Pb.....	103
Bi.....	104
Cd.....	105
Zn.....	106
Mo.....	107
Sr.....	108

*clear film overlay bedrock geology map in back pocket

Appendix B.2 Till geochemistry data for regional samples

Sample Number	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
91DDA0291	2.22	3.21	720	2.45	0.53	0.05	0.11	< 5	52	30	15	26	30	73	< 5	34	7	< 1
91DDA0309	1.55	2.36	768	0.67	0.34	0.04	0.10	< 5	37	20	11	16	21	66	16	25	7	< 1
91DDA0319	1.48	2.45	754	0.51	0.34	0.04	0.10	< 5	38	16	11	13	27	62	< 5	24	8	2
91DDA0321	1.64	2.77	543	0.62	0.28	0.04	0.14	< 5	36	20	11	19	24	68	< 5	24	11	1
91DDA0324	2.82	3.87	489	2.84	0.11	0.03	0.14	6	48	28	17	31	39	89	< 5	12	5	< 1
91DDA0326	4.00	3.88	413	2.55	0.13	0.02	0.09	9	72	28	14	21	63	76	< 5	16	6	< 1
91DDA0328	5.46	4.23	334	1.76	0.09	0.03	0.08	11	95	26	11	12	26	90	< 5	15	8	1
91DDA0330	3.97	4.54	765	2.54	0.16	0.02	0.10	9	68	24	15	16	51	249	6	13	9	3
91DDA0332	5.91	7.84	1150	1.47	0.09	0.02	0.05	9	60	13	9	7	52	87	< 5	7	13	8
91DDA0334	3.96	4.34	796	2.85	0.21	0.03	0.10	9	66	24	14	17	75	173	< 5	15	7	< 1
91DDA0338	2.12	2.58	514	1.62	0.08	0.02	0.10	< 5	29	19	9	15	21	65	< 5	10	4	< 1
91DDA0340	3.08	3.63	477	1.91	0.13	0.03	0.08	< 5	42	14	9	11	11	90	< 5	14	5	< 1
91DDA0342	3.97	4.97	790	1.69	0.18	0.02	0.11	5	35	13	9	10	13	165	41	12	7	2
91DDA0344	3.56	5.09	434	3.12	0.12	0.02	0.12	6	71	32	16	26	65	110	< 5	12	8	< 1
91DDA0346	4.95	5.72	592	4.00	0.09	0.03	0.20	8	87	30	20	30	83	129	< 5	8	7	3
91DDA0348	6.63	7.14	681	4.23	0.08	0.02	0.19	12	97	79	23	36	194	139	< 5	11	11	< 1
91DDA0350	3.82	5.11	628	1.12	0.12	0.02	0.06	6	68	15	9	5	16	49	< 5	13	7	< 1
91DDA0486	2.09	5.11	1349	0.90	0.29	0.04	0.12	< 5	49	20	23	14	54	99	< 5	25	6	1
91DDA0503	3.55	6.78	1276	0.66	0.06	0.04	0.09	< 5	67	28	36	28	71	90	11	6	7	2
91DDA0527	1.48	2.50	693	0.54	0.30	0.04	0.11	< 5	34	18	12	16	38	64	< 5	22	8	< 1
91DDA0555	2.22	4.43	859	0.79	0.39	0.04	0.15	6	55	16	14	14	58	115	11	30	11	4
91DDA0567	1.85	3.41	905	0.78	0.27	0.05	0.17	5	42	26	16	24	47	105	< 5	21	13	2
91DDA0582	1.53	2.44	802	0.55	0.30	0.04	0.09	< 5	32	18	14	17	24	59	< 5	20	7	2
91DDA1000	1.86	3.29	689	1.39	0.15	0.02	0.14	< 5	42	36	12	32	19	68	< 5	14	6	3
91DDA1001	3.88	3.87	764	1.58	0.16	0.03	0.10	< 5	66	81	13	58	30	55	< 5	18	7	9
91DDA1002	2.23	2.86	438	1.22	0.21	0.02	0.09	< 5	37	72	10	59	12	63	< 5	18	8	8
91DDA1003	2.51	5.37	2250	2.20	0.12	0.04	0.11	< 5	40	54	22	54	36	104	< 5	13	7	4
91DDA1004	2.81	4.22	1098	2.23	0.16	0.02	0.13	< 5	55	41	15	35	51	139	< 5	15	8	2
91DDA1005	3.23	4.14	945	2.59	0.38	0.05	0.08	6	74	35	16	20	45	98	< 5	32	7	1
91DDA1006	3.63	6.81	829	2.52	0.07	0.03	0.12	< 5	40	52	12	50	45	116	< 5	11	5	2
91DDA1007	3.45	6.82	862	1.92	0.03	0.03	0.16	< 5	43	65	19	49	43	127	< 5	10	7	3
91DDA1008	2.53	3.68	1614	1.51	0.05	0.02	0.21	< 5	33	37	16	41	23	174	< 5	10	7	< 1
91DDA1009	2.87	4.79	764	1.66	0.02	0.02	0.21	< 5	40	44	18	42	32	200	< 5	8	6	< 1
91DDA1010	3.01	5.75	724	0.75	0.03	0.02	0.13	< 5	42	63	14	40	17	98	< 5	5	7	8
91DDA1011	2.23	3.82	309	1.36	0.02	0.02	0.21	< 5	29	67	13	59	20	82	< 5	5	5	6
91DDA1012	2.08	3.81	2026	0.64	0.07	0.02	0.18	< 5	37	50	20	35	11	123	< 5	9	5	3

Appendix B.2 Till geochemistry data for regional samples

Sample Number	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
91DDA1013	2.45	4.10	397	1.32	0.02	0.02	0.17	< 5	28	51	13	45	20	145	< 5	4	8	4
91DDA1014	2.81	4.09	324	0.88	0.02	< 0.01	0.10	< 5	28	70	10	48	13	121	61	4	5	6
91DDA1015	3.30	5.16	323	0.97	0.02	< 0.01	0.10	< 5	34	54	9	38	8	109	< 5	4	5	3
91DDA1016	4.65	5.93	384	1.44	0.02	0.01	0.10	< 5	36	58	8	31	39	189	105	4	6	5
91DDA1017	5.64	5.04	605	1.37	0.09	0.01	0.07	< 5	51	48	14	32	20	335	< 5	6	8	4
91DDA1018	3.42	5.14	549	1.35	0.10	0.02	0.08	< 5	76	34	10	23	26	82	< 5	10	8	2
91DDA1019	2.84	4.84	885	2.80	0.22	0.03	0.10	< 5	83	44	16	29	70	126	< 5	18	8	2
91DDA1020	2.71	3.85	594	1.38	0.24	0.03	0.07	< 5	51	22	7	18	6	60	< 5	25	8	2
91DDA1021	4.05	5.34	1319	3.17	0.38	0.03	0.10	8	66	24	16	17	18	132	< 5	28	11	2
91DDA1022	3.49	4.88	808	2.65	0.30	0.02	0.09	5	78	48	15	25	31	125	< 5	26	7	2
91DDA1023	3.87	4.29	404	1.98	0.08	0.01	0.06	< 5	56	67	12	37	23	96	< 5	9	5	6
91DDA1024	2.18	3.10	543	2.15	0.10	0.02	0.16	< 5	34	27	14	26	23	70	< 5	8	5	1
91DDA1025	4.08	5.89	906	0.91	0.01	0.01	0.13	< 5	41	44	17	23	12	140	< 5	4	4	1
91DDA1026	3.54	6.48	472	1.78	0.02	0.02	0.13	< 5	39	69	13	47	34	102	< 5	6	5	4
91DDA1027	2.72	5.55	651	1.95	0.03	0.02	0.14	< 5	34	40	20	46	48	199	< 5	7	6	< 1
91DDA1028	2.34	3.94	1011	1.19	0.05	0.01	0.15	< 5	28	34	20	30	9	160	< 5	7	9	< 1
91DDA1029	2.30	4.07	339	1.36	0.02	0.01	0.12	< 5	23	40	15	44	23	146	< 5	5	6	2
91DDA1030	2.82	4.96	711	1.66	0.02	0.02	0.18	5	34	39	17	42	50	169	< 5	7	7	< 1
91DDA1031	2.41	3.74	395	1.44	0.02	0.01	0.18	< 5	29	39	13	33	24	123	< 5	6	6	2
91DDA1032	2.28	3.71	482	1.39	0.03	0.02	0.15	< 5	30	33	14	33	20	117	< 5	6	6	1
91DDA1033	2.25	4.68	381	1.68	0.02	0.01	0.15	< 5	33	41	15	44	33	141	< 5	7	5	2
91DDA1034	4.18	6.67	1517	1.44	0.01	0.02	0.14	< 5	43	70	29	56	36	233	< 5	6	9	4
91DDA1035	3.48	5.59	577	1.65	0.02	0.02	0.17	< 5	38	53	20	51	27	204	< 5	6	9	< 1
91DDA1036	4.70	6.59	1513	1.55	0.01	0.02	0.14	< 5	44	73	26	59	31	289	< 5	5	6	2
91DDA1037	3.74	5.99	1134	1.59	0.01	0.01	0.17	< 5	40	73	22	58	27	185	< 5	5	5	4
91DDA1038	3.66	8.24	2762	1.32	0.02	0.01	0.14	< 5	49	52	28	39	24	400	< 5	4	9	2
91DDA1039	2.73	5.55	651	1.63	0.03	0.02	0.15	< 5	35	44	21	41	44	167	9	6	7	2
91DDA1040	3.71	6.05	1376	1.47	0.02	0.02	0.16	< 5	43	54	25	40	30	185	< 5	7	7	3
91DDA1041	2.51	4.59	325	1.60	0.02	0.02	0.20	< 5	33	50	14	45	20	95	< 5	7	6	3
91DDA1042	4.81	6.78	521	1.58	0.03	0.02	0.13	< 5	41	63	18	69	70	235	< 5	5	6	6
91DDA1043	4.74	8.27	728	1.22	0.01	0.01	0.14	< 5	49	90	37	67	53	224	< 5	5	5	12
91DDA1044	3.17	6.13	515	1.01	0.02	0.01	0.11	< 5	42	45	11	27	16	150	< 5	5	4	2
91DDA1045	3.02	4.59	419	0.83	0.05	0.01	0.08	< 5	50	31	8	16	4	70	< 5	7	4	1
91DDA1046	5.72	5.26	896	1.38	0.17	0.02	0.06	7	77	30	14	13	23	84	< 5	13	12	1
91DDA1047	4.90	3.85	417	0.99	0.16	0.02	0.05	6	63	237	11	262	21	68	< 5	14	8	33
91DDA1048	2.52	3.49	905	1.80	0.10	< 0.01	0.09	< 5	49	33	15	31	11	161	< 5	11	5	2

Appendix B.2 Till geochemistry data for regional samples

Sample Number	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
91DDA1049	1.87	2.60	318	0.71	0.02	< 0.01	0.05	< 5	23	22	9	19	8	120	< 5	3	5	< 1
91DDA1050	2.04	4.12	1193	1.46	0.10	0.02	0.14	< 5	31	41	16	41	27	277	< 5	9	11	2
91DDA1051	1.70	3.20	1295	1.07	0.03	0.01	0.11	< 5	31	31	11	28	15	197	< 5	6	10	2
91DDA1052	1.86	4.57	2863	1.30	0.03	0.01	0.14	< 5	31	40	15	39	35	1125	12	6	21	4
91DDA1053	1.52	3.15	1146	1.06	0.04	0.01	0.12	< 5	24	41	11	34	15	770	< 5	6	7	4
91DDA1054	1.91	2.58	523	1.00	0.03	0.01	0.10	< 5	25	28	10	24	4	392	< 5	5	7	3
91DDA1055	2.01	3.34	937	1.07	0.02	< 0.01	0.08	< 5	26	25	13	40	9	366	< 5	4	5	1
91DDA1056	1.52	3.19	1188	0.94	0.05	< 0.01	0.09	< 5	22	20	12	21	9	742	< 5	5	6	2
91DDA1057	1.82	3.13	4355	1.28	0.09	< 0.01	0.12	< 5	25	23	15	47	12	771	< 5	6	7	1
91DDA1058	3.80	2.46	907	0.42	0.03	0.02	0.07	< 5	19	29	5	17	3	80	< 5	5	4	4
91DDA1059	3.74	6.80	547	0.88	0.02	< 0.01	0.06	< 5	48	41	10	22	5	1002	< 5	4	5	3
91DDA1060	2.02	2.88	1744	0.67	0.05	0.01	0.07	< 5	22	20	9	16	11	775	< 5	6	16	2
91DDA1061	2.55	5.79	1789	1.05	0.02	< 0.01	0.09	< 5	33	31	19	26	21	361	31	4	7	1
91DDA1062	2.16	3.82	914	1.34	0.02	< 0.01	0.14	< 5	26	36	17	41	24	151	< 5	4	8	< 1
91DDA1063	1.19	2.62	20000	0.76	0.08	0.01	0.11	< 5	32	15	8	19	37	3027	< 5	12	24	2
91DDA1064	1.33	1.87	1056	0.88	0.20	0.02	0.11	< 5	24	13	5	11	7	148	< 5	20	9	2
91DDA1065	1.84	2.48	2893	1.02	0.16	0.01	0.10	< 5	25	19	8	17	12	246	< 5	21	14	3
91DDA1066	3.63	5.57	495	1.98	0.01	< 0.01	0.13	< 5	38	50	21	49	28	133	< 5	4	4	1
91DDA1067	1.96	4.49	983	1.46	0.32	0.02	0.13	6	39	32	15	27	32	100	14	14	15	1
91DDA1068	2.39	3.94	1286	1.66	0.20	0.01	0.13	< 5	33	44	12	46	22	117	< 5	13	11	2
91DDA1069	1.95	3.21	459	1.32	0.08	0.01	0.08	< 5	36	22	10	18	16	51	< 5	10	5	< 1
91DDA1070	2.75	3.93	355	1.56	0.03	0.01	0.12	< 5	35	32	12	31	16	111	< 5	7	5	< 1
91DDA1071	2.65	3.81	427	1.46	0.03	0.01	0.13	< 5	34	37	13	33	16	116	< 5	6	5	< 1
91DDA1072	1.91	3.18	468	0.99	0.04	< 0.01	0.09	< 5	29	28	16	28	11	70	< 5	7	5	< 1
91DDA1073	1.73	3.51	529	1.02	0.03	< 0.01	0.12	< 5	27	26	14	25	13	120	< 5	6	5	< 1
91DDA1074	1.76	3.27	348	0.80	0.02	< 0.01	0.07	< 5	34	39	14	29	20	50	< 5	7	4	1
91DDA1075	1.49	3.06	737	0.95	0.05	< 0.01	0.08	< 5	29	35	14	29	11	63	< 5	8	6	3
91DDA1076	1.35	3.40	280	1.05	0.02	< 0.01	0.12	< 5	31	31	13	29	11	53	< 5	6	5	< 1
91DDA1077	1.33	2.77	808	0.85	0.02	< 0.01	0.09	< 5	20	20	13	21	5	264	< 5	3	11	< 1
91DDA1078	2.21	4.75	979	0.80	0.03	< 0.01	0.09	< 5	40	33	17	28	16	128	7	6	7	2
91DDA1079	1.31	3.30	612	0.93	0.02	< 0.01	0.09	< 5	26	24	14	25	17	75	< 5	4	5	1
91DDA1080	3.19	2.74	602	1.86	0.42	0.02	0.07	< 5	45	19	11	12	13	74	< 5	37	9	1
91DDA1081	2.81	2.84	397	1.51	0.36	0.01	0.06	< 5	41	17	8	11	9	64	< 5	37	8	1
91DDA1082	4.70	3.86	622	1.57	0.39	0.01	0.06	6	49	16	10	8	15	85	< 5	41	12	3
91DDA1083	5.07	3.49	671	1.34	0.30	0.01	0.06	< 5	59	25	12	11	15	75	< 5	27	9	1
91DDA1084	3.03	3.03	526	1.54	0.49	0.02	0.06	< 5	49	21	8	10	7	60	< 5	44	12	2

Appendix B.2 Till geochemistry data for regional samples

Sample Number	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
91DDA1085	3.88	3.07	406	1.43	0.29	0.01	0.06	< 5	46	33	10	22	11	74	< 5	30	8	< 1
91DDA1086	5.20	6.21	346	1.01	0.15	0.02	0.05	< 5	107	38	8	14	9	49	< 5	13	10	2
91DDA1087	2.19	4.06	452	1.52	0.21	0.01	0.17	< 5	46	29	15	27	19	99	< 5	23	12	< 1
91DDA1088	2.45	3.54	506	1.89	0.29	0.02	0.15	< 5	48	28	13	26	21	99	< 5	36	6	< 1
91DDA1089	4.77	2.97	462	0.91	0.15	< 0.01	0.05	< 5	42	20	9	11	12	58	< 5	13	10	2
91DDA1090	2.83	2.71	453	1.89	0.49	0.01	0.06	5	53	32	10	20	22	67	< 5	38	9	< 1
91DDA1091	2.56	3.37	761	2.42	0.44	0.02	0.14	< 5	54	28	15	26	23	103	< 5	39	8	2
91DDA1092	2.22	2.78	450	2.02	0.51	0.02	0.09	< 5	52	23	10	19	10	72	< 5	42	9	2
91DDA1093	2.52	2.71	364	1.47	0.38	0.02	0.05	< 5	47	21	9	13	8	54	< 5	36	10	< 1
91DDA1094	2.59	3.28	471	1.36	0.34	0.02	0.07	< 5	51	21	9	12	8	73	< 5	32	9	1
91DDA1095	2.36	3.45	495	1.85	0.26	0.02	0.14	< 5	46	30	13	24	21	96	< 5	32	6	< 1
91DDA1096	3.11	2.67	499	1.33	0.24	0.01	0.08	< 5	38	19	10	14	8	81	< 5	25	9	1
91DDA1097	3.54	3.14	402	1.84	0.18	0.01	0.16	< 5	46	30	11	26	12	110	< 5	20	8	2
91DDA1098	2.69	2.85	542	1.62	0.16	< 0.01	0.13	< 5	43	37	12	30	16	92	6	22	5	< 1
91DDA1099	1.82	2.39	898	1.68	0.26	0.01	0.09	< 5	37	24	10	20	18	61	< 5	20	8	1
91DDA1100	1.67	2.34	737	1.60	0.25	0.01	0.09	< 5	38	19	10	17	24	54	< 5	19	7	< 1
91DDA1101	2.33	3.09	525	1.96	0.34	0.02	0.09	< 5	55	40	13	27	16	91	< 5	30	6	3
91DDA1102	4.68	3.61	209	0.76	0.10	0.01	0.06	< 5	53	28	5	10	11	47	< 5	11	9	2
91DDA1103	2.84	2.73	241	2.25	0.14	0.01	0.11	< 5	43	58	11	31	18	60	< 5	12	7	< 1
91DDA1104	2.50	3.37	391	3.04	0.43	0.02	0.23	5	54	31	15	30	30	112	< 5	25	12	< 1
91DDA1105	2.11	2.99	397	2.08	0.11	0.01	0.17	< 5	41	30	12	27	14	79	< 5	13	6	< 1
91DDA1106	2.04	3.68	590	1.80	0.19	0.01	0.16	< 5	41	32	17	35	18	100	< 5	25	7	2
91DDA1107	1.93	3.89	479	1.10	0.06	0.01	0.13	< 5	32	30	15	29	16	66	10	11	5	1
91DDA1108	1.27	2.96	396	0.98	0.08	< 0.01	0.09	< 5	28	32	11	24	12	69	< 5	9	5	2
91DDA1109	1.91	3.55	627	1.32	0.12	< 0.01	0.09	< 5	37	27	14	28	12	91	< 5	17	7	1
91DDA1110	2.40	4.38	530	1.93	0.09	0.01	0.24	< 5	46	35	17	35	19	108	< 5	13	7	1
91DDA1111	2.00	4.44	366	1.04	0.05	< 0.01	0.11	< 5	40	35	14	32	8	86	< 5	8	6	< 1
91DDA1112	2.18	4.03	454	1.49	0.07	0.01	0.20	< 5	39	37	14	32	12	100	< 5	10	7	1
91DDA1113	1.56	3.43	375	1.32	0.08	< 0.01	0.17	< 5	33	31	15	27	20	77	< 5	9	6	3
91DDA1114	2.25	4.13	500	2.08	0.21	0.02	0.16	< 5	45	15	7	11	99	70	< 5	27	5	15
91DDA1115	2.21	3.20	822	1.99	0.29	0.01	0.12	< 5	42	20	15	18	27	93	< 5	24	8	1
91DDA1116	1.62	2.51	337	1.25	0.28	0.02	0.07	< 5	35	16	6	10	15	60	< 5	20	7	2
91DDA1117	2.56	2.65	411	1.75	0.33	0.01	0.11	< 5	51	25	11	19	33	70	< 5	24	16	1
91DDA1118	2.46	3.95	713	2.23	0.23	0.02	0.19	< 5	49	32	17	28	38	93	< 5	24	8	2
91DDA1119	1.68	2.88	527	1.66	0.37	0.02	0.11	< 5	41	20	11	20	27	80	< 5	29	13	< 1
91DDA1120	2.61	3.29	745	2.01	0.27	0.02	0.18	< 5	41	27	19	28	26	106	< 5	27	9	2

Appendix B.2 Till geochemistry data for regional samples

Sample Number	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
91DDA1121	2.62	3.36	573	2.07	0.17	0.02	0.18	< 5	44	29	17	26	25	93	< 5	23	6	< 1
91DDA1122	1.61	2.48	401	1.15	0.29	0.01	0.09	< 5	34	14	7	9	8	49	< 5	26	7	1
91DDA1123	1.94	3.40	880	2.01	0.20	0.01	0.12	< 5	45	24	16	20	27	90	< 5	18	7	< 1
91DDA1124	2.24	3.83	840	2.00	0.11	0.01	0.13	5	47	30	16	25	39	88	< 5	15	8	1
91DDA1125	5.11	5.62	383	0.80	0.04	< 0.01	0.08	< 5	50	34	11	15	16	68	< 5	6	7	1
91DDA1126	2.91	2.43	816	1.21	0.17	0.01	0.08	< 5	33	22	10	13	13	99	< 5	13	8	< 1
91DDA1127	2.64	3.50	697	2.09	0.20	0.01	0.13	6	56	27	14	20	34	82	< 5	25	6	2
91DDA1128	3.74	4.30	731	2.64	0.30	0.02	0.12	7	70	34	19	29	43	105	< 5	32	9	1
91DDA1129	1.97	2.95	447	1.75	0.13	0.01	0.13	< 5	39	26	11	20	17	86	< 5	18	6	< 1
91DDA1130	2.68	3.85	944	2.41	0.14	0.01	0.16	5	57	45	17	29	28	112	< 5	21	6	< 1
91DDA1131	2.30	3.31	493	2.41	0.30	0.01	0.11	5	61	48	14	24	44	89	< 5	25	11	< 1
91DDA1132	1.88	3.31	477	1.60	0.12	0.01	0.09	5	44	25	11	20	16	71	< 5	12	8	< 1
91DDA1133	1.98	2.77	571	1.62	0.14	0.01	0.09	6	39	25	13	19	20	77	< 5	13	7	< 1
91DDA1134	4.28	5.00	996	1.99	0.13	0.02	0.09	< 5	78	27	19	14	26	67	< 5	12	9	< 1
91DDA1135	2.94	5.14	1110	2.63	0.10	0.02	0.15	5	54	38	21	32	55	113	< 5	14	9	< 1
91DDA1136	2.69	3.49	796	2.07	0.15	0.02	0.10	7	50	30	18	24	35	81	< 5	15	7	2
91DDA1137	2.17	3.44	945	2.22	0.18	0.02	0.12	8	50	30	16	22	39	77	< 5	18	9	< 1
91DDA1138	3.21	4.43	878	2.69	0.14	0.02	0.16	9	65	43	19	27	44	108	< 5	18	6	< 1
91DDA1139	2.37	3.81	865	1.88	0.18	0.02	0.15	8	58	24	16	22	37	86	< 5	23	7	< 1
91DDA1140	8.31	4.48	3864	2.36	0.27	0.02	0.14	10	89	53	35	44	110	121	< 5	20	28	2
91DDA1141	2.21	2.75	1018	1.18	0.16	0.02	0.13	< 5	41	16	11	11	29	59	< 5	20	8	< 1
91DDA1142	1.97	3.92	619	1.45	0.10	0.01	0.10	< 5	38	25	19	17	20	52	< 5	8	6	1
91DDA1143	3.71	4.14	1608	1.93	0.11	0.02	0.10	< 5	47	40	15	28	18	141	< 5	12	10	< 1
91DDA1144	3.36	4.01	403	1.76	0.10	0.02	0.08	< 5	61	46	13	22	15	64	< 5	14	6	2
91DDA1145	2.15	3.13	688	2.07	0.22	0.02	0.11	5	48	34	13	26	24	75	< 5	17	7	< 1
91DDA1146	2.67	3.23	573	1.97	0.21	0.02	0.11	< 5	50	24	12	19	16	79	< 5	17	7	1
91DDA1147	3.06	3.67	482	1.84	0.11	0.01	0.12	< 5	52	29	12	24	18	102	< 5	13	7	2
91DDA1148	3.11	4.16	1308	2.45	0.31	0.02	0.15	7	67	33	19	26	42	127	< 5	30	10	< 1
91DDA1149	2.51	3.38	620	2.06	0.15	0.02	0.14	< 5	49	30	15	24	24	92	< 5	20	5	< 1
91DDA1150	2.40	3.48	727	1.97	0.13	0.01	0.16	< 5	48	28	14	25	24	120	< 5	20	7	2
91DDA1151	2.42	3.44	782	2.30	0.21	0.02	0.13	< 5	53	39	14	31	22	111	< 5	25	8	< 1
91DDA1152	1.97	2.88	725	1.53	0.24	0.02	0.10	< 5	38	22	10	15	20	70	< 5	22	12	< 1
91DDA1153	2.58	4.27	708	1.65	0.17	0.02	0.13	< 5	61	23	8	12	13	75	< 5	22	7	< 1
91DDA1154	2.82	4.10	989	3.38	0.18	0.02	0.17	7	60	41	18	33	36	86	< 5	26	11	< 1
91DDA1155	3.79	3.93	638	3.91	0.16	0.02	0.08	8	94	39	19	28	211	290	< 5	19	5	< 1
91DDA1156	2.01	2.69	456	1.67	0.12	0.01	0.09	< 5	37	32	12	22	22	65	< 5	12	5	2

Appendix B.2 Till geochemistry data for regional samples

Sample Number	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
91DDA1157	2.67	3.73	835	2.47	0.15	0.01	0.13	< 5	49	48	17	32	58	539	< 5	16	6	1
91DDA1158	4.33	4.00	486	1.97	0.22	0.02	0.05	< 5	58	36	14	16	24	74	< 5	17	7	< 1
91DDA1159	2.52	3.13	529	1.63	0.16	0.01	0.06	< 5	48	29	13	18	25	43	< 5	16	6	< 1
91DDA1160	5.25	4.91	599	2.11	0.06	0.02	0.10	8	59	48	9	16	24	82	< 5	6	9	3
91DDA1161	2.29	3.53	847	2.05	0.24	0.02	0.15	5	49	24	15	20	36	84	< 5	25	7	< 1
91DDA1162	2.30	3.40	847	2.04	0.23	0.02	0.15	5	46	24	14	18	30	89	< 5	27	8	< 1
91DDA1163	2.19	3.54	814	2.03	0.31	0.02	0.12	5	51	24	14	18	31	89	< 5	30	9	< 1
91DDA1164	1.67	1.48	244	0.47	0.08	0.02	0.07	< 5	20	12	5	7	4	35	< 5	9	3	1
91DDA1165	1.28	1.24	210	0.35	0.04	0.02	0.05	< 5	14	15	3	6	1	25	< 5	5	3	1
91DDA1166	2.19	2.55	562	1.26	0.08	0.01	0.11	< 5	30	30	10	19	11	92	< 5	12	7	3
91DDA1167	1.93	2.42	632	1.24	0.10	0.02	0.09	< 5	30	36	8	26	9	67	< 5	12	8	4
91DDA1168	1.90	2.67	685	1.39	0.13	0.01	0.10	< 5	34	32	10	20	10	96	< 5	15	7	3
91DDA1169	5.09	4.38	444	1.44	0.13	0.02	0.06	7	75	29	12	15	25	62	< 5	12	8	2
91DDA1170	2.15	3.53	782	2.02	0.42	0.01	0.08	< 5	56	38	12	23	27	76	< 5	29	8	4
91DDA1171	2.32	3.70	1393	2.16	0.31	0.02	0.07	< 5	71	28	11	13	15	100	< 5	27	6	< 1
91DDA1172	3.95	4.53	705	2.28	0.25	0.01	0.05	6	64	17	11	10	16	95	< 5	26	7	< 1
91DDA1173	3.46	7.02	1092	2.83	0.06	0.02	0.10	< 5	44	44	23	51	65	142	< 5	9	6	< 1
91DDA1174	4.34	2.52	390	2.19	0.17	0.02	0.09	5	80	31	13	18	71	96	< 5	22	6	< 1
91DDA1300	3.18	4.99	648	1.13	0.06	0.01	0.07	< 5	39	46	13	30	26	125	< 5	5	19	4
91DDA1301	4.28	5.28	417	1.47	0.09	< 0.01	0.04	5	90	42	13	22	29	73	< 5	10	5	1
91DDA1302	3.88	4.11	1082	2.42	0.24	0.01	0.07	6	78	34	19	18	39	112	< 5	18	6	1
91DDA1303	7.35	3.92	696	1.33	0.12	0.01	0.05	8	57	31	19	13	23	87	< 5	12	15	< 1
91DDA1304	3.83	3.65	664	1.57	0.23	0.01	0.05	5	51	23	14	11	28	75	< 5	27	9	2
91DDA1305	4.61	4.79	529	2.22	0.20	0.01	0.05	7	96	53	16	20	53	92	< 5	19	6	< 1
91DDA1306	5.13	4.51	555	1.28	0.13	0.01	0.05	7	80	27	14	13	19	92	< 5	9	8	2
91DDA1307	3.67	4.50	738	2.22	0.19	0.01	0.06	6	78	29	15	14	59	132	< 5	16	6	< 1
91DDA1308	3.10	7.16	520	2.10	0.04	0.01	0.10	< 5	43	39	8	23	44	146	12	5	6	3
91DDA1309	3.92	5.65	643	1.10	0.04	0.01	0.07	< 5	41	31	14	18	16	127	< 5	4	9	2
91DDA1310	2.57	4.85	466	1.51	0.07	0.01	0.09	< 5	53	30	12	21	22	169	< 5	5	5	1
91DDA1311	1.01	4.32	227	0.34	0.04	0.01	0.05	< 5	69	26	3	7	< 1	23	6	5	3	< 1
91DDA1312	2.01	3.79	310	1.41	0.01	0.01	0.11	< 5	26	29	12	34	16	108	< 5	4	5	< 1
91DDA1313	2.57	5.06	353	1.81	0.01	0.01	0.15	< 5	31	41	14	40	24	132	< 5	4	5	< 1
91DDA1314	3.18	7.33	482	2.29	< 0.01	0.01	0.11	< 5	38	48	9	29	46	104	< 5	3	5	2
91DDA1315	4.45	7.27	438	1.36	0.02	0.01	0.10	< 5	37	33	14	28	78	313	< 5	3	4	2
91DDA1316	3.99	9.44	439	1.42	0.02	0.01	0.08	< 5	40	37	8	18	86	198	128	3	4	5
91DDA1317	4.75	8.27	442	1.12	0.04	0.01	0.07	< 5	63	37	8	14	58	365	< 5	3	6	3

Appendix B.2 Till geochemistry data for regional samples

Sample Number	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
91DDA1318	2.89	8.57	523	2.05	0.02	0.01	0.12	< 5	42	43	8	25	83	156	19	3	6	4
91DDA1319	2.83	3.86	325	1.12	0.07	0.01	0.07	< 5	53	38	10	22	19	85	< 5	4	5	3
91DDA1320	3.53	4.83	758	2.46	0.10	0.01	0.18	< 5	64	41	20	33	84	260	< 5	8	6	3
91DDA1321	3.37	5.18	1015	2.57	0.23	0.02	0.11	6	101	32	18	20	70	243	< 5	17	6	< 1
91DDA1322	3.98	4.19	716	2.00	0.18	0.02	0.11	6	78	29	13	14	50	137	< 5	18	8	< 1
91DDA1323	5.45	4.11	555	1.82	0.12	0.02	0.09	5	75	31	11	16	55	173	< 5	10	7	2
91DDA1324	2.16	3.30	607	1.45	0.05	0.01	0.13	< 5	26	25	14	28	19	170	< 5	5	6	< 1
91DDA1325	1.59	2.88	362	0.83	0.02	< 0.01	0.07	< 5	23	23	9	19	7	94	< 5	3	7	1
91DDA1326	2.06	3.43	877	1.76	0.08	< 0.01	0.09	< 5	38	25	17	25	18	124	< 5	11	5	< 1
91DDA1327	2.81	1.98	190	0.84	0.03	0.01	0.07	< 5	20	17	8	15	5	85	< 5	4	4	1
91DDA1328	1.56	2.09	238	0.88	0.04	0.01	0.07	< 5	19	13	7	13	5	66	< 5	4	3	< 1
91DDA1329	1.87	2.17	353	1.11	0.16	0.01	0.07	< 5	36	33	9	17	13	57	< 5	12	6	2
91DDA1330	1.77	2.42	686	1.35	0.34	0.02	0.06	< 5	50	22	12	12	29	82	< 5	26	8	2
91DDA1331	2.72	2.15	1167	1.76	0.25	0.01	0.14	< 5	32	24	11	22	7	76	< 5	17	6	1
91DDA1332	3.33	2.85	490	2.49	0.65	0.02	0.07	5	62	28	13	21	9	65	< 5	36	10	2
91DDA1333	4.14	3.49	537	1.54	0.16	0.02	0.08	< 5	57	23	13	17	20	84	< 5	17	12	< 1
91DDA1334	3.02	2.71	317	1.59	0.11	0.02	0.08	5	42	19	11	18	12	67	< 5	17	5	< 1
91DDA1335	3.11	3.19	502	1.86	0.34	0.03	0.07	6	56	26	17	25	18	63	< 5	22	8	2
91DDA1336	2.29	1.91	350	1.01	0.09	0.02	0.07	< 5	27	17	9	14	4	50	< 5	9	4	< 1
91DDA1337	2.01	2.52	477	1.70	0.17	0.03	0.13	< 5	37	19	11	15	15	74	< 5	16	5	< 1
91DDA1338	2.32	2.82	1009	2.07	0.16	0.02	0.14	< 5	41	22	12	21	6	133	< 5	14	8	< 1
91DDA1339	1.95	2.87	330	1.12	0.15	0.03	0.07	< 5	38	80	9	52	11	48	< 5	10	9	9
91DDA1340	1.97	3.39	467	1.25	0.20	0.03	0.08	< 5	51	29	12	21	10	43	< 5	18	6	1
91DDA1341	1.55	3.14	704	1.26	0.35	0.04	0.07	< 5	56	213	11	115	19	54	< 5	30	7	28
91DDA1342	2.04	3.23	509	1.47	0.33	0.03	0.07	< 5	55	34	9	21	15	55	< 5	33	7	3
91DDA1343	1.30	3.44	340	1.09	0.03	0.02	0.11	< 5	28	27	14	29	15	68	< 5	6	5	< 1
91DDA1344	5.99	8.09	972	2.40	0.11	0.02	0.07	6	152	47	25	24	39	142	< 5	16	13	7
91DDA1345	3.00	3.28	701	2.40	0.32	0.04	0.06	5	74	36	18	32	33	118	< 5	19	8	< 1
91DDA1346	1.00	2.13	1045	1.31	0.18	0.02	0.16	< 5	34	16	11	13	9	62	< 5	14	5	< 1
91DDA1347	4.43	3.87	1542	1.01	0.11	0.02	0.06	< 5	57	44	13	17	8	72	< 5	10	30	5
91DDA1348	1.50	3.07	448	1.18	0.08	0.02	0.12	< 5	40	37	9	16	5	51	< 5	10	4	2
91DDA1349	2.45	3.26	581	2.15	0.25	0.03	0.17	< 5	46	25	14	22	21	87	< 5	25	5	< 1
91DDA1350	2.35	2.53	463	1.72	0.24	0.02	0.12	< 5	37	20	12	18	14	65	< 5	25	5	< 1
91DDA1351	4.25	2.94	977	1.94	0.15	0.02	0.15	< 5	41	31	13	20	8	87	< 5	17	5	4
91DDA1352	1.94	3.38	716	1.64	0.26	0.04	0.12	< 5	39	14	10	13	30	138	< 5	22	7	2
91DDA1353	2.66	3.56	686	1.83	0.21	0.04	0.10	< 5	53	20	10	14	35	110	< 5	22	7	1

Appendix B.2 Till geochemistry data for regional samples

Sample Number	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
91DDA1354	2.21	3.24	697	1.86	0.31	0.03	0.12	< 5	43	16	10	11	23	103	< 5	30	7	1
91DDA1355	2.46	3.92	1102	2.35	0.31	0.04	0.17	7	59	21	14	19	38	113	< 5	31	9	1
91DDA1356	2.40	2.70	539	1.77	0.42	0.03	0.10	< 5	47	19	8	15	15	73	< 5	31	7	< 1
91DDA1357	2.98	4.86	1022	2.97	0.48	0.03	0.31	6	48	39	18	43	39	133	< 5	26	16	2
91DDA1358	2.41	3.65	1095	2.22	0.10	0.03	0.15	< 5	34	30	14	34	16	120	< 5	10	7	< 1
91DDA1359	2.51	3.78	511	2.78	0.04	0.02	0.18	< 5	34	25	14	33	26	99	< 5	6	5	< 1
91DDA1360	2.86	4.36	358	1.34	0.02	0.02	0.11	< 5	27	34	14	42	24	265	8	3	7	1
91DDA1361	7.56	5.27	981	0.64	0.06	0.02	0.08	< 5	38	45	28	23	92	311	61	3	10	3
91DDA1362	3.00	4.48	941	2.16	0.14	0.03	0.15	5	64	38	17	28	47	107	< 5	17	6	2
91DDA1363	2.52	3.94	1079	1.68	0.08	0.03	0.14	< 5	50	31	13	28	31	94	< 5	12	8	< 1
91DDA1364	2.17	3.37	571	1.59	0.17	0.03	0.09	< 5	49	22	11	19	19	75	< 5	19	5	1
91DDA1365	2.65	4.89	1231	3.56	0.33	0.04	0.14	6	74	49	22	37	51	142	< 5	20	11	1
91DDA1366	2.44	3.53	571	2.25	0.23	0.03	0.08	< 5	56	31	12	18	46	99	< 5	16	7	< 1
91DDA1367	2.84	4.11	686	2.66	0.31	0.03	0.10	5	71	40	15	23	67	106	< 5	19	7	< 1
91DDA1368	1.83	3.55	392	1.77	0.08	0.02	0.08	< 5	57	21	9	15	14	75	< 5	11	3	2
91DDA1369	3.54	4.34	575	1.66	0.09	0.02	0.08	< 5	68	30	12	17	42	116	< 5	8	7	< 1
91DDA1370	2.16	5.90	360	1.54	0.05	0.02	0.16	< 5	61	47	6	21	42	70	11	10	4	4
91DDA1371	2.76	5.58	606	1.84	0.05	0.01	0.11	< 5	63	42	16	28	107	156	< 5	5	5	1
91DDA1372	2.65	4.98	703	2.12	0.17	0.02	0.10	< 5	66	27	17	23	50	147	67	9	8	< 1
91DDA1373	2.41	4.65	499	1.75	0.09	0.02	0.07	< 5	53	26	10	22	31	146	< 5	7	7	< 1
91DDA1374	3.91	4.70	417	1.78	0.07	0.02	0.08	< 5	52	32	14	27	35	502	< 5	6	5	< 1
91DDA1375	3.56	10.00	443	1.59	0.02	0.03	0.12	< 5	53	66	6	20	80	145	9	4	4	6
91DDA1376	2.48	5.34	418	1.74	0.02	0.02	0.17	< 5	32	34	13	39	38	139	< 5	6	7	2
91DDA1377	2.21	4.64	488	1.63	0.02	0.01	0.13	< 5	28	42	16	49	28	124	< 5	4	4	6
91DDA1378	2.57	3.94	445	1.97	0.07	0.02	0.08	< 5	32	33	11	28	23	196	< 5	5	7	2
91DDA1379	4.04	5.16	579	1.52	0.04	0.01	0.05	< 5	59	21	15	16	22	94	< 5	5	6	< 1
91DDA1380	2.24	5.08	510	1.81	0.02	0.02	0.08	< 5	41	32	13	27	29	173	< 5	4	6	< 1
91DDA1381	2.58	5.63	799	1.97	0.02	0.02	0.12	< 5	41	38	18	38	42	106	< 5	6	6	< 1
91DDA1382	4.15	6.20	851	2.68	0.11	0.02	0.07	6	95	22	18	24	91	104	< 5	11	7	< 1
91DDA1383	2.05	4.78	995	2.26	0.13	0.02	0.10	< 5	51	47	18	30	36	92	< 5	9	8	3
91DDA1384	3.25	7.77	2147	2.57	0.04	0.02	0.10	< 5	47	47	20	51	72	697	< 5	5	5	2
91DDA1385	2.20	4.56	1988	2.61	1.01	0.02	0.23	< 5	40	49	19	63	35	137	< 5	49	14	5
91DDA1386	2.70	4.65	1073	2.92	0.16	0.02	0.12	< 5	56	43	19	49	37	179	< 5	13	6	1
91DDA1387	2.48	4.32	1504	2.33	0.15	0.02	0.13	5	53	27	17	38	52	134	< 5	16	9	2
91DDA1388	2.75	3.98	774	2.48	0.30	0.02	0.08	6	67	24	13	14	30	111	< 5	26	9	1
91DDA1389	2.06	3.76	997	2.51	0.61	0.04	0.15	6	62	14	14	12	43	102	< 5	41	17	< 1

Appendix B.2 Till geochemistry data for regional samples

Sample Number	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
91DDA1390	2.39	4.03	2169	2.31	0.18	0.03	0.15	5	53	23	16	23	43	125	<5	21	11	2
91DDA1391	2.71	4.11	1169	2.35	0.20	0.03	0.18	7	64	29	18	23	39	122	<5	24	10	<1
91DDA1392	1.99	2.82	585	1.84	0.18	0.02	0.10	<5	43	245	15	121	19	76	<5	14	7	31
91DDA1393	2.46	3.61	988	2.51	0.21	0.03	0.12	7	64	36	17	23	48	85	<5	19	8	2
91DDA1394	2.04	3.64	942	2.33	0.22	0.02	0.13	5	49	112	16	43	29	79	<5	17	8	13
91DDA1395	4.73	4.39	1314	1.63	0.08	0.02	0.09	<5	59	107	26	49	19	69	<5	11	9	11
91DDA1396	3.24	4.61	1018	3.29	0.26	0.02	0.11	8	87	80	23	42	54	100	<5	30	6	3
91DDA1397	3.10	5.09	428	1.13	0.02	0.02	0.11	<5	42	25	13	22	5	61	<5	4	3	1
91DDA1398	2.20	3.37	566	1.80	0.22	0.02	0.09	<5	44	27	13	18	7	64	<5	17	8	<1
91DDA1399	1.08	2.16	480	1.04	0.22	0.02	0.08	<5	36	18	8	11	7	31	<5	15	9	<1
91DDA1400	2.71	3.18	736	1.68	0.26	0.02	0.06	<5	46	24	17	16	25	59	<5	20	6	3
91DDA1401	1.17	2.31	366	1.15	0.44	0.02	0.07	<5	48	18	8	12	18	50	<5	23	12	<1
91DDA1402	2.42	2.92	623	1.99	0.13	0.02	0.04	<5	46	11	9	8	20	92	<5	15	5	1
91DDA1403	3.82	3.82	613	1.85	0.13	0.02	0.09	6	62	16	10	8	42	144	<5	9	8	3
91DDA1404	1.43	4.14	479	1.14	0.08	0.01	0.08	<5	43	32	14	27	8	69	<5	10	10	1
91DDA1405	1.64	3.23	439	1.39	0.08	0.01	0.17	<5	32	27	13	26	18	82	<5	8	6	<1
91DDA1406	1.41	3.19	411	1.18	0.05	0.01	0.10	<5	31	25	14	26	10	77	<5	7	5	1
91DDA1407	1.29	2.89	534	0.85	0.03	0.01	0.08	<5	24	19	12	21	16	90	<5	7	5	<1
91DDA1408	3.14	4.21	630	1.96	0.09	0.02	0.13	<5	55	32	14	26	22	99	<5	12	8	1
91DDA1409	6.43	4.41	2391	1.41	0.10	0.02	0.07	6	53	38	28	22	40	81	<5	8	11	1
91DDA1410	3.88	3.62	741	3.44	0.23	0.02	0.08	<5	62	43	17	42	12	86	<5	21	6	<1
91DDA1411	5.30	5.43	1334	3.72	0.30	0.02	0.04	6	83	40	28	23	25	98	<5	35	8	2
91DDA1412	3.64	3.51	517	1.70	0.15	0.02	0.06	<5	50	26	12	19	31	75	<5	10	6	<1
91DDA1413	1.99	2.21	605	0.99	0.06	0.02	0.11	<5	23	15	8	13	7	84	<5	7	5	<1
91DDA1414	2.19	2.82	732	1.39	0.13	0.02	0.11	<5	37	18	11	16	10	78	<5	11	7	<1
91DDA1415	2.57	3.46	623	2.02	0.13	0.02	0.10	<5	50	32	13	24	22	92	<5	16	6	<1
91DDA1416	2.77	3.85	796	1.98	0.11	0.02	0.15	<5	52	28	15	26	23	126	<5	15	7	3
91DDA1417	2.62	3.77	675	2.34	0.12	0.02	0.09	5	68	25	15	19	42	82	<5	12	5	<1
91DDA1418	1.99	2.88	705	1.66	0.21	0.02	0.09	<5	38	17	11	14	21	82	<5	13	7	<1
91DDA1419	4.66	3.78	474	1.11	0.07	0.02	0.07	5	44	19	8	10	15	78	<5	8	7	1
91DDA1420	2.02	2.76	384	1.29	0.20	0.02	0.06	<5	34	11	7	7	7	83	<5	15	7	<1
91DDA1421	2.93	7.34	9569	1.94	0.10	0.02	0.07	<5	130	63	44	16	7	77	<5	7	3	<1
91DDA1422	4.05	4.00	942	1.88	0.17	0.02	0.08	6	59	15	12	9	37	135	<5	12	8	1
91DDA1423	3.79	3.53	429	2.20	0.14	0.02	0.06	6	84	27	13	17	73	87	<5	15	5	<1
91DDA1424	1.59	2.50	543	1.73	0.10	0.02	0.09	<5	34	33	12	20	20	54	<5	8	6	<1
91DDA1425	2.16	2.80	807	1.85	0.07	0.02	0.07	<5	32	28	12	17	24	68	<5	6	5	<1

Appendix B.2 Till geochemistry data for regional samples

Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
91DDA0291	0.3	< 0.2	< 20	< 5	11	34	17	< 20	14	< 5	< 1
91DDA0309	< 0.2	< 0.2	< 20	< 5	< 10	21	15	< 20	20	< 5	4
91DDA0319	< 0.2	0.3	< 20	< 5	< 10	27	13	< 20	24	< 5	3
91DDA0321	< 0.2	0.2	< 20	< 5	< 10	73	19	< 20	23	< 5	3
91DDA0324	0.3	0.7	< 20	6	13	35	10	< 20	20	6	2
91DDA0326	0.6	0.8	< 20	< 5	16	40	10	< 20	22	< 5	3
91DDA0328	0.5	1.5	< 20	< 5	18	45	8	< 20	39	< 5	< 1
91DDA0330	0.9	1.7	20	< 5	17	39	9	< 20	79	5	< 1
91DDA0332	1.1	1.2	< 20	< 5	21	31	9	< 20	48	< 5	3
91DDA0334	0.5	0.9	< 20	< 5	13	42	7	< 20	47	< 5	< 1
91DDA0338	0.4	0.1	< 20	5	< 10	31	9	< 20	21	< 5	3
91DDA0340	0.3	0.2	< 20	< 5	12	23	11	< 20	23	< 5	< 1
91DDA0342	0.7	0.1	< 20	< 5	16	26	11	< 20	28	< 5	< 1
91DDA0344	0.6	0.1	< 20	7	14	75	9	< 20	23	6	29
91DDA0346	0.6	0.3	< 20	< 5	18	207	11	< 20	24	6	< 1
91DDA0348	1.4	0.3	< 20	< 5	31	141	9	< 20	32	25	2
91DDA0350	0.4	0.5	< 20	< 5	22	23	6	< 20	23	5	1
91DDA0486	< 0.2	0.2	< 20	6	< 10	41	5	< 20	30	< 5	4
91DDA0503	0.4	0.7	< 20	6	< 10	41	18	< 20	27	< 5	17
91DDA0527	< 0.2	< 0.2	< 20	< 5	< 10	34	14	< 20	19	< 5	2
91DDA0555	0.6	< 0.2	< 20	6	< 10	67	13	< 20	28	< 5	14
91DDA0567	0.3	0.5	< 20	5	< 10	110	17	< 20	26	< 5	3
91DDA0582	< 0.2	0.4	< 20	< 5	< 10	20	14	< 20	20	< 5	2
91DDA1000	0.3	1.0	< 20	< 5	10	42	19	< 20	32	8	2
91DDA1001	0.5	1.7	< 20	< 5	15	50	19	< 20	41	7	< 1
91DDA1002	0.4	1.6	< 20	< 5	< 10	46	19	< 20	24	6	< 1
91DDA1003	0.4	0.5	< 20	< 5	14	36	30	< 20	39	13	< 1
91DDA1004	0.3	1.1	< 20	< 5	< 10	48	20	< 20	52	9	< 1
91DDA1005	0.4	1.2	< 20	< 5	13	46	14	< 20	36	8	3
91DDA1006	0.5	1.0	< 20	< 5	18	32	28	< 20	56	16	< 1
91DDA1007	0.6	1.0	< 20	< 5	17	42	22	< 20	52	14	< 1
91DDA1008	< 0.2	0.4	< 20	< 5	12	74	26	< 20	69	9	< 1
91DDA1009	0.4	0.7	< 20	< 5	12	50	25	< 20	107	11	< 1
91DDA1010	0.4	0.7	< 20	< 5	15	50	28	< 20	46	12	2
91DDA1011	0.3	1.3	< 20	< 5	< 10	61	36	< 20	43	10	1
91DDA1012	0.4	0.9	< 20	< 5	14	95	31	< 20	67	7	< 1

Appendix B.2 Till geochemistry data for regional samples

Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
91DDA1013	0.4	0.7	< 20	< 5	13	53	45	< 20	45	11	< 1
91DDA1014	0.3	0.4	< 20	< 5	13	36	28	< 20	49	6	2
91DDA1015	0.2	< 0.2	< 20	< 5	11	35	34	< 20	45	5	< 1
91DDA1016	0.7	1.7	< 20	< 5	16	46	36	< 20	193	11	3
91DDA1017	2.4	1.6	< 20	< 5	19	26	27	< 20	144	9	2
91DDA1018	0.6	0.7	< 20	< 5	14	35	24	< 20	44	10	2
91DDA1019	0.6	1.1	< 20	< 5	13	39	21	< 20	34	13	1
91DDA1020	0.6	0.6	< 20	< 5	16	19	13	< 20	27	6	< 1
91DDA1021	0.4	1.5	< 20	< 5	12	30	17	< 20	34	11	< 1
91DDA1022	0.5	0.9	< 20	< 5	15	28	17	< 20	37	12	3
91DDA1023	0.4	1.4	< 20	< 5	15	33	15	< 20	34	7	< 1
91DDA1024	0.4	0.4	< 20	< 5	< 10	31	17	< 20	27	6	< 1
91DDA1025	0.3	1.2	< 20	< 5	19	51	19	< 20	62	11	< 1
91DDA1026	0.4	1.9	< 20	< 5	15	35	26	< 20	48	11	< 1
91DDA1027	0.3	1.3	< 20	< 5	11	38	36	< 20	52	11	< 1
91DDA1028	0.3	1.5	< 20	< 5	13	61	36	< 20	39	5	< 1
91DDA1029	0.3	0.3	< 20	< 5	12	41	39	< 20	37	10	< 1
91DDA1030	0.3	1.3	< 20	< 5	14	74	27	< 20	62	8	2
91DDA1031	< 0.2	< 0.2	< 20	< 5	< 10	52	33	< 20	44	5	< 1
91DDA1032	0.4	0.8	< 20	< 5	12	46	25	< 20	48	7	< 1
91DDA1033	0.5	< 0.2	< 20	5	12	48	20	< 20	74	9	< 1
91DDA1034	0.4	2.0	< 20	< 5	19	46	17	< 20	124	9	< 4
91DDA1035	0.2	< 0.2	< 20	< 5	15	58	20	< 20	79	10	< 1
91DDA1036	0.3	1.4	< 20	< 5	19	71	18	< 20	159	11	< 1
91DDA1037	< 0.2	1.4	< 20	< 5	14	50	19	< 20	84	10	< 1
91DDA1038	0.6	3.2	< 20	< 5	14	53	26	< 20	431	14	< 1
91DDA1039	0.3	1.1	< 20	< 5	12	47	42	< 20	75	9	< 1
91DDA1040	0.3	1.0	< 20	< 5	13	48	21	< 20	106	7	3
91DDA1041	< 0.2	0.5	< 20	< 5	11	52	31	< 20	41	9	< 1
91DDA1042	1.2	0.3	< 20	< 5	22	45	27	< 20	140	12	1
91DDA1043	0.5	1.7	21	< 5	19	57	19	< 20	97	13	< 1
91DDA1044	0.5	< 0.2	< 20	< 5	13	48	18	< 20	57	8	< 1
91DDA1045	0.6	0.7	< 20	< 5	13	28	23	< 20	36	8	1
91DDA1046	0.6	1.6	< 20	< 5	21	30	15	< 20	50	9	7
91DDA1047	0.4	1.4	< 20	< 5	16	21	10	< 20	46	< 5	< 1
91DDA1048	< 0.2	0.8	< 20	< 5	< 10	43	19	< 20	45	8	< 1

Appendix B.2 Till geochemistry data for regional samples

Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
91DDA1049	< 0.2	0.9	< 20	< 5	< 10	20	19	< 20	93	< 5	< 1
91DDA1050	< 0.2	1.2	< 20	< 5	10	197	24	< 20	131	9	1
91DDA1051	0.2	1.0	< 20	< 5	11	87	26	< 20	89	6	5
91DDA1052	0.2	2.0	< 20	< 5	11	82	34	< 20	628	9	< 1
91DDA1053	< 0.2	1.1	< 20	< 5	10	23	27	< 20	746	6	1
91DDA1054	0.3	2.0	< 20	< 5	10	31	25	< 20	149	6	< 1
91DDA1055	0.6	1.2	< 20	< 5	< 10	18	21	< 20	293	9	< 1
91DDA1056	0.4	2.0	< 20	< 5	11	18	24	< 20	1034	8	< 1
91DDA1057	0.7	1.9	< 20	< 5	< 10	36	24	< 20	6628	7	< 1
91DDA1058	0.8	< 0.2	< 20	< 5	18	33	13	< 20	334	< 5	< 1
91DDA1059	0.6	0.7	< 20	< 5	18	27	24	< 20	211	9	< 1
91DDA1060	0.9	2.6	< 20	< 5	10	57	28	< 20	341	6	14
91DDA1061	0.4	1.2	< 20	< 5	12	31	25	< 20	314	8	< 1
91DDA1062	0.2	1.2	< 20	< 5	12	43	30	< 20	96	7	< 1
91DDA1063	< 0.2	29.5	< 20	< 5	< 10	268	49	< 20	2052	8	< 1
91DDA1064	0.3	1.6	< 20	< 5	< 10	54	21	< 20	98	7	< 1
91DDA1065	< 0.2	1.7	< 20	< 5	< 10	190	24	< 20	118	7	< 1
91DDA1066	0.2	0.8	< 20	< 5	15	59	12	< 20	66	10	< 1
91DDA1067	0.5	0.9	< 20	< 5	< 10	123	24	< 20	38	7	< 1
91DDA1068	0.4	0.3	< 20	< 5	13	140	23	< 20	51	< 5	< 1
91DDA1069	< 0.2	< 0.2	< 20	< 5	13	32	16	< 20	31	10	< 1
91DDA1070	0.2	0.7	< 20	< 5	16	41	15	< 20	61	9	< 1
91DDA1071	< 0.2	< 0.2	< 20	< 5	12	50	19	< 20	62	7	< 1
91DDA1072	0.2	1.2	< 20	< 5	10	20	24	< 20	52	8	< 1
91DDA1073	0.3	0.9	< 20	< 5	< 10	23	25	< 20	132	9	< 1
91DDA1074	0.4	1.1	< 20	< 5	< 10	26	20	< 20	45	6	< 1
91DDA1075	0.3	< 0.2	< 20	< 5	< 10	27	20	< 20	49	7	< 1
91DDA1076	0.3	< 0.2	< 20	< 5	< 10	29	19	< 20	32	7	< 1
91DDA1077	< 0.2	0.7	< 20	< 5	10	18	23	< 20	150	8	< 1
91DDA1078	0.7	0.6	< 20	< 5	12	26	21	< 20	107	8	< 1
91DDA1079	0.4	0.6	< 20	< 5	< 10	22	22	< 20	52	< 5	3
91DDA1080	0.3	1.6	< 20	< 5	11	31	18	< 20	31	6	< 1
91DDA1081	0.3	0.4	< 20	< 5	11	25	20	< 20	32	< 5	< 1
91DDA1082	0.5	1.9	< 20	< 5	15	28	22	< 20	44	< 5	< 1
91DDA1083	0.5	1.0	< 20	< 5	18	25	20	< 20	62	7	3
91DDA1084	0.3	1.8	< 20	< 5	14	17	29	< 20	39	5	< 1

Appendix B.2 Till geochemistry data for regional samples

Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
91DDA1085	0.5	0.9	< 20	< 5	14	25	20	< 20	42	9	< 1
91DDA1086	0.5	0.6	< 20	< 5	22	25	21	< 20	45	6	< 1
91DDA1087	0.3	1.4	< 20	< 5	< 10	96	29	< 20	40	7	< 1
91DDA1088	< 0.2	1.2	< 20	< 5	< 10	60	24	< 20	46	5	< 1
91DDA1089	< 0.2	1.9	< 20	< 5	18	22	21	< 20	46	6	< 1
91DDA1090	0.3	0.6	< 20	< 5	11	31	19	< 20	32	7	2
91DDA1091	< 0.2	0.8	< 20	< 5	< 10	66	20	< 20	40	5	< 1
91DDA1092	0.5	< 0.2	< 20	< 5	< 10	32	21	< 20	33	7	< 1
91DDA1093	0.4	0.4	< 20	< 5	< 10	24	22	< 20	39	8	< 1
91DDA1094	0.5	1.4	< 20	< 5	< 10	33	22	< 20	36	5	< 1
91DDA1095	0.3	0.7	< 20	< 5	< 10	56	23	< 20	42	8	< 1
91DDA1096	0.5	0.3	< 20	< 5	11	34	29	< 20	48	8	< 1
91DDA1097	0.6	1.1	< 20	< 5	13	62	24	< 20	40	< 5	< 1
91DDA1098	0.2	1.0	< 20	5	18	69	21	< 20	38	7	< 1
91DDA1099	0.3	< 0.2	< 20	8	< 10	110	19	< 20	30	< 5	< 1
91DDA1100	0.2	0.7	< 20	< 5	< 10	56	18	< 20	25	< 5	< 1
91DDA1101	0.4	1.0	< 20	< 5	13	68	17	< 20	31	8	< 1
91DDA1102	0.5	1.3	< 20	< 5	19	33	21	< 20	44	< 5	< 1
91DDA1103	0.3	2.0	< 20	< 5	11	33	19	< 20	32	< 5	< 1
91DDA1104	0.4	1.4	< 20	< 5	12	241	25	< 20	38	9	< 1
91DDA1105	0.4	0.4	< 20	< 5	< 10	57	21	< 20	31	< 5	< 1
91DDA1106	0.2	1.0	< 20	< 5	< 10	49	25	< 20	40	9	< 1
91DDA1107	0.7	0.4	< 20	< 5	< 10	33	22	< 20	40	7	< 1
91DDA1108	< 0.2	1.2	< 20	< 5	< 10	24	28	< 20	43	5	< 1
91DDA1109	0.4	0.3	< 20	< 5	< 10	29	22	< 20	44	8	< 1
91DDA1110	< 0.2	1.5	< 20	< 5	10	66	26	< 20	54	10	< 1
91DDA1111	0.4	1.4	< 20	< 5	10	36	26	< 20	40	10	< 1
91DDA1112	0.3	0.7	< 20	< 5	11	42	28	< 20	63	8	< 1
91DDA1113	< 0.2	1.5	< 20	< 5	< 10	36	25	< 20	39	8	< 1
91DDA1114	0.5	< 0.2	< 20	< 5	14	196	15	< 20	34	9	< 1
91DDA1115	< 0.2	0.6	< 20	< 5	12	47	16	< 20	30	6	< 1
91DDA1116	0.2	0.7	< 20	< 5	< 10	15	12	< 20	22	7	< 1
91DDA1117	0.2	0.4	< 20	< 5	13	49	20	< 20	34	< 5	< 1
91DDA1118	0.2	1.3	< 20	< 5	< 10	96	20	< 20	37	8	< 1
91DDA1119	< 0.2	< 0.2	< 20	5	< 10	99	22	< 20	29	7	< 1
91DDA1120	0.3	0.7	< 20	< 5	13	104	19	< 20	42	8	< 1

Appendix B.2 Till geochemistry data for regional samples

Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
91DDA1121	0.4	1.6	< 20	< 5	12	58	17	< 20	35	8	1
91DDA1122	< 0.2	0.3	< 20	< 5	< 10	20	14	< 20	23	< 5	< 1
91DDA1123	< 0.2	0.6	< 20	< 5	< 10	44	17	< 20	30	7	2
91DDA1124	< 0.2	0.7	< 20	< 5	14	53	24	< 20	35	.10	2
91DDA1125	0.5	1.4	< 20	< 5	25	32	19	< 20	52	11	< 1
91DDA1126	< 0.2	0.8	< 20	< 5	13	43	18	< 20	31	< 5	< 1
91DDA1127	0.4	1.6	< 20	< 5	< 10	61	18	< 20	36	6	2
91DDA1128	0.6	1.4	< 20	< 5	14	71	19	< 20	41	10	< 1
91DDA1129	0.5	0.6	< 20	< 5	10	37	21	< 20	33	8	< 1
91DDA1130	0.4	1.1	< 20	< 5	12	67	20	< 20	40	9	< 1
91DDA1131	0.4	0.4	< 20	< 5	10	30	22	< 20	29	9	4
91DDA1132	0.4	0.7	< 20	< 5	12	28	19	< 20	29	8	< 1
91DDA1133	< 0.2	1.3	< 20	< 5	11	24	19	< 20	28	< 5	< 1
91DDA1134	0.5	1.0	< 20	< 5	16	36	15	< 20	38	9	< 1
91DDA1135	0.3	< 0.2	< 20	< 5	13	69	31	< 20	42	11	< 1
91DDA1136	0.3	0.5	< 20	< 5	10	32	21	< 20	34	8	< 1
91DDA1137	0.3	1.3	< 20	< 5	11	44	19	< 20	30	9	2
91DDA1138	0.4	0.7	< 20	< 5	16	83	16	< 20	42	7	1
91DDA1139	0.4	< 0.2	< 20	< 5	< 10	70	22	< 20	35	8	< 1
91DDA1140	0.3	1.5	< 20	< 5	26	99	27	< 20	71	8	< 4
91DDA1141	0.3	< 0.2	< 20	< 5	< 10	52	23	< 20	40	6	< 1
91DDA1142	0.4	0.3	< 20	< 5	< 10	21	22	< 20	23	7	1
91DDA1143	0.5	0.9	< 20	< 5	16	52	16	< 20	39	8	< 1
91DDA1144	0.4	< 0.2	< 20	< 5	15	28	17	< 20	34	7	< 1
91DDA1145	< 0.2	0.4	< 20	< 5	11	41	18	< 20	23	6	< 1
91DDA1146	0.5	0.4	< 20	< 5	13	46	18	< 20	33	7	3
91DDA1147	0.4	1.0	< 20	< 5	12	49	16	< 20	36	8	2
91DDA1148	0.2	0.5	< 20	< 5	< 10	138	25	< 20	39	10	< 1
91DDA1149	0.3	< 0.2	< 20	< 5	< 10	54	17	< 20	33	9	< 1
91DDA1150	< 0.2	0.6	< 20	< 5	< 10	72	20	< 20	43	8	< 1
91DDA1151	0.4	< 0.2	< 20	< 5	10	40	20	< 20	32	10	< 1
91DDA1152	< 0.2	0.7	< 20	< 5	12	29	17	< 20	22	6	< 1
91DDA1153	0.5	0.2	< 20	< 5	< 10	35	13	< 20	33	7	1
91DDA1154	0.4	0.5	< 20	5	14	88	29	< 20	37	10	< 1
91DDA1155	0.3	0.7	< 20	< 5	15	36	15	< 20	75	9	1
91DDA1156	0.3	1.0	< 20	< 5	< 10	22	15	< 20	30	8	< 1

Appendix B.2 Till geochemistry data for regional samples

Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
91DDA1157	0.4	0.9	< 20	< 5	< 10	36	17	< 20	154	10	6
91DDA1158	0.3	0.6	< 20	< 5	18	22	16	< 20	40	7	5
91DDA1159	0.3	1.2	< 20	< 5	13	19	17	< 20	28	< 5	< 1
91DDA1160	0.4	< 0.2	< 20	< 5	17	25	18	< 20	41	8	< 1
91DDA1161	0.2	< 0.2	< 20	< 5	12	51	16	< 20	28	9	3
91DDA1162	0.4	0.6	< 20	< 5	< 10	53	18	< 20	30	7	1
91DDA1163	0.2	< 0.2	< 20	< 5	< 10	52	18	< 20	27	6	1
91DDA1164	< 0.2	0.7	< 20	< 5	10	13	10	< 20	35	< 5	< 1
91DDA1165	0.5	0.7	< 20	< 5	< 10	13	9	< 20	28	< 5	< 1
91DDA1166	< 0.2	0.6	< 20	< 5	< 10	39	20	< 20	49	5	< 1
91DDA1167	< 0.2	0.8	< 20	< 5	< 10	33	25	< 20	31	6	< 1
91DDA1168	0.3	1.4	< 20	< 5	13	49	20	< 20	35	7	< 1
91DDA1169	0.5	1.2	< 20	< 5	17	26	12	< 20	45	< 5	< 1
91DDA1170	0.4	< 0.2	< 20	< 5	< 10	24	12	< 20	22	6	2
91DDA1171	0.4	< 0.2	< 20	< 5	< 10	36	8	< 20	27	7	< 1
91DDA1172	0.7	1.5	< 20	< 5	15	26	8	< 20	31	7	< 1
91DDA1173	0.6	< 0.2	< 20	< 5	16	36	17	< 20	51	12	< 1
91DDA1174	0.6	0.4	< 20	< 5	13	77	12	< 20	54	< 5	4
91DDA1300	1.2	0.7	< 20	< 5	19	29	35	< 20	58	9	1
91DDA1301	0.7	2.4	< 20	< 5	22	27	13	< 20	47	10	1
91DDA1302	0.4	2.5	< 20	< 5	16	47	12	< 20	41	9	5
91DDA1303	0.5	2.0	< 20	< 5	26	30	22	< 20	60	6	2
91DDA1304	0.7	2.8	< 20	< 5	16	25	17	< 20	43	6	2
91DDA1305	0.5	1.4	< 20	< 5	20	48	13	< 20	47	10	3
91DDA1306	0.4	1.0	< 20	< 5	21	34	13	< 20	50	8	10
91DDA1307	0.5	1.8	< 20	< 5	19	42	15	< 20	47	11	3
91DDA1308	0.7	0.4	< 20	7	18	36	35	< 20	102	16	1
91DDA1309	0.5	< 0.2	< 20	< 5	20	29	27	< 20	59	9	3
91DDA1310	0.3	0.5	< 20	< 5	11	25	21	< 20	63	9	1
91DDA1311	0.3	0.3	< 20	7	< 10	14	17	< 20	25	10	5
91DDA1312	< 0.2	1.2	< 20	< 5	14	36	33	< 20	37	7	< 1
91DDA1313	0.5	0.5	< 20	< 5	13	48	36	< 20	47	10	< 1
91DDA1314	0.5	0.6	< 20	< 5	17	29	53	< 20	60	15	< 1
91DDA1315	0.8	1.3	< 20	< 5	23	23	22	< 20	176	15	< 1
91DDA1316	1.2	1.0	25	9	21	19	24	< 20	134	17	3
91DDA1317	0.9	0.9	< 20	< 5	21	22	26	< 20	166	10	< 1

Appendix B.2 Till geochemistry data for regional samples

Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
91DDA1318	0.4	1.0	< 20	7	15	29	38	< 20	169	14	2
91DDA1319	0.3	1.1	< 20	< 5	15	22	23	< 20	43	8	< 1
91DDA1320	0.6	0.9	< 20	< 5	17	60	28	< 20	91	10	9
91DDA1321	1.2	1.7	< 20	< 5	< 10	98	19	< 20	74	14	41
91DDA1322	0.6	1.1	< 20	< 5	14	60	15	< 20	52	6	7
91DDA1323	1	0.9	< 20	< 5	16	80	17	< 20	78	6	5
91DDA1324	< 0.2	0.4	< 20	< 5	< 10	70	26	< 20	51	7	< 1
91DDA1325	0.2	0.9	< 20	< 5	< 10	22	20	< 20	47	< 5	< 1
91DDA1326	0.4	< 0.2	< 20	< 5	10	45	22	< 20	58	10	< 1
91DDA1327	0.3	0.5	< 20	< 5	13	26	13	< 20	54	< 5	< 1
91DDA1328	0.4	< 0.2	< 20	< 5	13	35	12	< 20	43	< 5	< 1
91DDA1329	0.3	0.9	< 20	< 5	12	27	14	< 20	28	5	< 1
91DDA1330	0.5	0.5	< 20	< 5	11	21	18	< 20	28	7	2
91DDA1331	< 0.2	< 0.2	< 20	< 5	< 10	109	18	< 20	30	7	2
91DDA1332	0.4	0.9	< 20	< 5	11	28	21	< 20	27	6	< 1
91DDA1333	0.4	1.0	< 20	< 5	16	61	29	< 20	38	6	< 1
91DDA1334	0.4	0.9	< 20	< 5	< 10	41	15	< 20	27	6	< 1
91DDA1335	0.5	< 0.2	< 20	< 5	< 10	36	18	< 20	28	< 5	< 1
91DDA1336	0.3	0.7	< 20	< 5	< 10	28	14	< 20	28	< 5	< 1
91DDA1337	0.2	0.4	< 20	< 5	< 10	42	16	< 20	30	6	< 1
91DDA1338	< 0.2	0.8	< 20	< 5	12	165	19	< 20	30	8	< 1
91DDA1339	0.2	0.5	< 20	< 5	< 10	35	19	< 20	29	7	< 1
91DDA1340	0.6	0.8	< 20	< 5	< 10	28	17	< 20	28	5	< 1
91DDA1341	0.4	0.4	< 20	< 5	< 10	23	20	< 20	29	5	< 1
91DDA1342	0.4	1.5	< 20	< 5	< 10	25	20	< 20	29	< 5	1
91DDA1343	0.3	< 0.2	< 20	< 5	< 10	23	23	< 20	27	5	< 1
91DDA1344	0.7	1.8	< 20	< 5	16	81	22	< 20	63	11	< 2
91DDA1345	0.4	0.3	< 20	< 5	11	39	15	< 20	43	8	< 1
91DDA1346	< 0.2	0.9	< 20	11	19	40	13	< 20	48	11	1
91DDA1347	1	1.3	< 20	< 5	16	34	41	< 20	49	9	< 1
91DDA1348	0.2	1.3	< 20	< 5	< 10	40	19	< 20	24	6	1
91DDA1349	0.2	0.5	< 20	< 5	< 10	63	15	< 20	34	6	< 1
91DDA1350	0.2	0.6	< 20	< 5	< 10	53	14	< 20	30	< 5	< 1
91DDA1351	0.3	1.4	< 20	< 5	15	70	15	< 20	41	< 5	< 1
91DDA1352	0.6	0.8	< 20	< 5	< 10	43	13	< 20	35	6	< 1
91DDA1353	0.5	1.1	< 20	< 5	12	37	13	< 20	33	6	< 1

Appendix B.2 Till geochemistry data for regional samples

Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
91DDA1354	0.5	< 0.2	< 20	< 5	< 10	46	13	< 20	29	9	< 1
91DDA1355	0.5	1.0	< 20	6	< 10	99	17	< 20	38	8	< 1
91DDA1356	0.4	< 0.2	< 20	< 5	< 10	31	11	< 20	27	< 5	< 1
91DDA1357	0.5	1.0	< 20	< 5	12	237	20	< 20	62	14	< 1
91DDA1358	0.5	0.2	< 20	< 5	< 10	47	13	< 20	37	7	< 1
91DDA1359	0.4	0.3	< 20	< 5	10	27	11	< 20	26	7	< 1
91DDA1360	0.3	0.6	< 20	< 5	12	40	27	< 20	75	8	< 1
91DDA1361	4.2	2.0	< 20	< 5	25	40	23	< 20	346	6	7
91DDA1362	0.7	1.0	< 20	< 5	14	78	18	< 20	51	8	< 1
91DDA1363	0.6	0.3	< 20	< 5	10	55	20	< 20	37	6	< 1
91DDA1364	0.4	1.2	< 20	< 5	< 10	32	15	< 20	32	8	2
91DDA1365	0.6	0.8	< 20	6	< 10	66	22	< 20	39	12	4
91DDA1366	0.3	< 0.2	< 20	< 5	< 10	29	13	< 20	32	7	9
91DDA1367	0.5	1.4	< 20	< 5	10	30	13	< 20	35	10	6
91DDA1368	0.4	0.2	< 20	< 5	< 10	29	11	< 20	28	6	2
91DDA1369	0.9	1.2	< 20	< 5	15	27	15	< 20	43	7	1
91DDA1370	1.4	1.8	< 20	9	13	89	25	< 20	43	16	78
91DDA1371	0.9	1.1	< 20	6	< 10	31	34	< 20	48	21	< 1
91DDA1372	0.5	0.4	< 20	5	< 10	27	22	< 20	60	8	8
91DDA1373	0.6	0.8	< 20	< 5	12	38	23	< 20	58	7	2
91DDA1374	0.9	1.5	< 20	< 5	13	34	21	< 20	140	8	< 1
91DDA1375	1.2	1.3	< 20	7	21	34	32	< 20	107	14	< 1
91DDA1376	0.5	1.5	< 20	< 5	15	46	40	< 20	49	12	< 1
91DDA1377	0.3	0.6	< 20	< 5	< 10	50	29	< 20	51	8	< 1
91DDA1378	0.6	0.8	< 20	< 5	< 10	35	33	< 20	58	6	7
91DDA1379	0.5	1.6	< 20	< 5	16	25	22	< 20	42	9	2
91DDA1380	1	0.9	< 20	< 5	< 10	22	27	< 20	35	9	< 1
91DDA1381	0.6	0.5	< 20	7	14	42	24	< 20	47	9	< 1
91DDA1382	0.6	1.0	< 20	< 5	14	40	17	< 20	41	8	< 1
91DDA1383	0.4	< 0.2	< 20	9	10	45	24	< 20	28	8	< 1
91DDA1384	1.3	2.1	< 20	7	15	29	30	< 20	218	16	< 1
91DDA1385	0.5	1.3	< 20	< 5	< 10	166	20	< 20	71	8	< 1
91DDA1386	0.5	< 0.2	< 20	< 5	10	47	15	< 20	37	10	< 1
91DDA1387	< 0.2	< 0.2	< 20	< 5	< 10	87	19	< 20	38	7	< 1
91DDA1388	0.6	0.7	< 20	< 5	11	39	12	< 20	29	7	< 1
91DDA1389	0.3	< 0.2	< 20	< 5	12	90	19	< 20	32	10	2

Appendix B.2 Till geochemistry data for regional samples

Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
91DDA1390	0.6	0.7	< 20	< 5	12	76	20	< 20	74	10	< 1
91DDA1391	0.4	1.6	< 20	< 5	13	100	24	< 20	54	8	< 1
91DDA1392	0.5	0.4	< 20	< 5	11	72	17	< 20	30	10	< 1
91DDA1393	0.2	0.3	< 20	< 5	10	87	17	< 20	40	8	< 1
91DDA1394	0.4	< 0.2	< 20	< 5	< 10	58	23	< 20	33	7	< 1
91DDA1395	0.4	1.0	< 20	< 5	17	36	25	< 20	47	< 5	< 1
91DDA1396	0.4	1.0	< 20	< 5	< 10	78	18	< 20	39	11	< 1
91DDA1397	0.5	1.0	< 20	< 5	15	33	9	< 20	36	6	< 1
91DDA1398	0.6	0.3	< 20	< 5	< 10	25	18	< 20	26	6	< 1
91DDA1399	0.4	0.2	< 20	< 5	< 10	18	23	< 20	20	5	< 1
91DDA1400	0.4	0.3	< 20	< 5	< 10	23	18	< 20	27	5	< 1
91DDA1401	0.4	0.8	< 20	< 5	< 10	22	21	< 20	25	7	< 1
91DDA1402	0.4	0.6	< 20	< 5	< 10	24	7	< 20	28	< 5	< 1
91DDA1403	0.6	2.2	< 20	< 5	< 10	34	9	< 20	75	7	< 1
91DDA1404	0.5	1.0	< 20	< 5	10	32	22	< 20	32	8	< 1
91DDA1405	0.5	1.1	< 20	< 5	< 10	39	22	< 20	32	8	< 1
91DDA1406	0.5	< 0.2	< 20	< 5	< 10	31	19	< 20	39	8	< 1
91DDA1407	0.3	< 0.2	< 20	< 5	< 10	27	18	< 20	43	5	< 1
91DDA1408	0.5	0.5	< 20	< 5	12	44	19	< 20	39	6	< 1
91DDA1409	0.3	2.2	< 20	< 5	25	35	24	< 20	73	8	< 2
91DDA1410	0.6	0.8	< 20	< 5	< 10	49	26	< 20	35	8	< 1
91DDA1411	0.4	0.4	< 20	< 5	14	22	13	< 20	43	10	< 1
91DDA1412	0.4	1.9	< 20	< 5	12	21	17	< 20	40	7	< 1
91DDA1413	0.3	0.5	< 20	< 5	< 10	43	16	< 20	58	< 5	< 1
91DDA1414	0.4	1.3	< 20	< 5	11	41	20	< 20	40	< 5	< 1
91DDA1415	0.2	1.2	< 20	< 5	12	40	18	< 20	41	6	< 1
91DDA1416	0.2	0.9	< 20	< 5	14	60	20	< 20	50	8	< 1
91DDA1417	0.4	1.1	< 20	< 5	12	67	12	< 20	30	8	< 1
91DDA1418	0.5	0.4	< 20	< 5	< 10	32	13	< 20	30	5	< 1
91DDA1419	0.8	1.6	< 20	< 5	18	24	12	< 20	46	8	< 1
91DDA1420	0.4	< 0.2	< 20	< 5	12	14	10	< 20	21	7	< 1
91DDA1421	0.4	0.6	< 20	8	11	30	9	< 20	28	14	< 1
91DDA1422	0.4	0.2	< 20	< 5	17	37	9	< 20	70	5	< 1
91DDA1423	0.6	0.8	< 20	< 5	12	45	8	< 20	41	10	2
91DDA1424	0.4	0.6	< 20	< 5	< 10	32	15	< 20	23	6	< 1
91DDA1425	0.3	0.9	< 20	< 5	12	22	13	< 20	30	6	< 1

APPENDIX B.2 Summary statistics for regional till geochemical data

Element	Al ppm	Fe (tot)%	Mn ppm	Mg %	Ca %	Na %	K %	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm
Number of samples	324	324	324	324	324	324	324	324	324	324	324	324
Minimum	1.00	1.24	190	0.34	0.01	0.01	0.04	5	14	11	3	5
Maximum	8.31	1.00	20000	4.23	1.01	0.05	0.31	12	152	245	44	262
Mean	2.86	4.04	833.2	1.70	0.15	0.018	0.109	NA	48.1	35.1	13.9	26.5
Standard Deviation	1.16	1.37	1272.6	0.65	0.13	0.009	0.041	NA	18.1	24.3	5.2	16.2
Coefficient of Variation	40.37	33.99	152.7	38.19	84.19	50.76	37.44	NA	37.8	69.3	37.2	72.3
Geometric Mean	2.66	3.83	6621.9	1.57	0.10	0.016	0.102	NA	45.1	31	13	23
90th percentile	4.43	5.75	1196.8	2.51	0.32	0.03	0.161	NA	71.0	52.0	19.0	44.0
95th percentile	5.10	6.81	1609.8	2.81	0.38	0.04	0.18	NA	80.9	67.6	23.0	51.0

Element	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm
Number of samples	324	324	324	324	324	324	324	323	324	324	324	324
Minimum	1	23	5	3	3	1	0.2	0.2	20	5	10	13
Maximum	211	3027	128	49	30	33	4.2	28.2	25	11	31	268
Mean	28.7	137.5	NA	14.7	7.5	2.1	0.43	0.28	NA	NA	NA	48.5
Standard Deviation	23.9	205.6	NA	9.4	3.3	3.4	0.33	1.57	NA	NA	NA	35.4
Coefficient of Variation	83.0	149.5	NA	63.6	43.5	166.6	77.41	561.25	NA	NA	NA	73.0
Geometric Mean	22.0	105.2	NA	11.9	7.0	1.2	0.35	0.15	NA	NA	NA	41.2
90th percentile	54.0	199.1	NA	27.1	11.0	4.0	0.7	0.4	NA	NA	NA	82.1
95th percentile	71.3	319.6	NA	32.0	13.0	6.0	0.9	0.5	NA	NA	NA	105.5

Element	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
Number of samples	324	324	324	324	324
Minimum	5	20	14	5	1
Maximum	53	20	6628	25	78
Mean	20.2	NA	87.9	7.4	NA
Standard Deviation	7.2	NA	391.3	3.3	NA
Coefficient of Variation	35.8	NA	445.1	44.1	NA
Geometric Mean	10.0	NA	47.0	6.7	NA
90th percentile	29.0	NA	106.1	11.0	NA
95th percentile	34	NA	166.9	13.3	NA

NA not applicable, most values at or below lower detection limit

LEGEND

Southeastern Cape Breton Island

92

CARBONIFEROUS

MORIEN GROUP

19 **GLENGARRY VALLEY AND BIG BARREN FORMATIONS:** green-grey and red polymictic conglomerate, sandstone, siltstone, shale, mudstone

RIVERSDALE GROUP

18 **SILVER MINE FORMATION:** grey-green and grey sandstone; grey-green and red mudstone, siltstone; minor coal

CANSO GROUP

17 **MACKEIGAN LAKE FORMATION:** grey shale, siltstone with gypsum, anhydrite; red shale

WINDSOR GROUP

16 **UIST, LOCH LOMOND AND ENON FORMATIONS:** red siltstone, sandstone, conglomerate with intercalated limestone, dolostone, gypsum, anhydrite; includes basal conglomerate

15 Undivided

CAMBRIAN

LATE CAMBRIAN

14 **MACNEIL FORMATION:** grey shale, siltstone; black limestone

MIDDLE CAMBRIAN

13 **MACLEAN BROOK FORMATION:** grey quartz sandstone, siltstone, shale

12 **TROUT BROOK FORMATION:** grey to red-brown cleaved shale and siltstone

11 undivided

EARLY CAMBRIAN

10 **CANOE BROOK FORMATION:** red-brown calcareous mudstone, siltstone; rare pink limestone

9 **MACCODRUM FORMATION:** light grey to green micaceous siltstone, sandstone

8 white quartz arenite





LATE PRECAMBRIAN TO DEVONIAN

INTRUSIVE ROCKS

7 **Felsic Intrusives:** 7, Precambrian Intrusive units including Chisholm Brook granodiorite, quartz monzonite; Capelin Cove leucogranite; Belfry Gut granite; Lower St. Esprit granite; Huntington Mtn. granite. 7D, Devonian Intrusive units including Gillis Mtn. granite, monzodiorite; Deep Cove granite; Salmon River rhyolite porphyry

6 **Mafic Intrusives:** Precambrian units including Chisholm Brook diorite; gabbro; mafic porphyry

5	maroon to red quartzite, quartz pebble conglomerate; micaceous sandstone
4	<i>KELVIN GLEN FORMATION</i> : orange arkosic sandstone; purple to grey wacke; micaceous red sandstone FOURCHU GROUP (INCLUDING UNITS OF THE MAIN A DIEU SEQUENCE AND COASTAL AND STIRLING BELTS)
3	Volcanogenic Sediments: volcanic conglomerate, wacke, siltstone intercalated with volcanic flow and pyroclastic units
2	Intermediate to Felsic Volcanics: 2a, dacitic to rhyolitic flows; 2b, dacitic to rhyolitic tuff, quartz-feldspar crystal tuff; 2c, undivided
1	Mafic to Intermediate Volcanics: 1a, basalt to andesite flows; 1b, tuff, lapilli tuff, basalt to andesite lithic crystal tuff; 1c, undivided

Geological boundary (approximate or assumed)	
Regional fault	
Contact metamorphic aureole	
Metallic mineral occurrence	

INDEX TO METALLIC MINERAL OCCURRENCES

1. Deep Cove (Cu, Mo, Zn, Ag, Bi)
2. MacDonald Lake (Pb, Zn)
3. Copper Shaft (Cu, Zn, Pb, Mo, Ag, Bi)
4. Gillis Mountain (Cu, Mo)
5. Yava (Pb)
6. Stirling (Zn, Pb, Cu, Ag, Au)

Map Compilation Sources

Barr, S.M.; MacDonald, A.S. and White, C.E.

1988: The Fourchu Group and associated granitoid rocks, Coxheath Hills, East Bay Hills, and southwestern Stirling and Coastal belts, southeastern Cape Breton Island, Nova Scotia; Geological Survey of Canada, Open File 1759, 15p., 2 maps (1:50,000 scale).

1989: Geological maps of the Coastal and Stirling belts, southeastern Cape Breton Island, Nova Scotia; Geological Survey of Canada, Open File 1988, 2 maps (1:50,000 scale)

Barr, S.M.; White, C.E. and MacDonald, A.S.

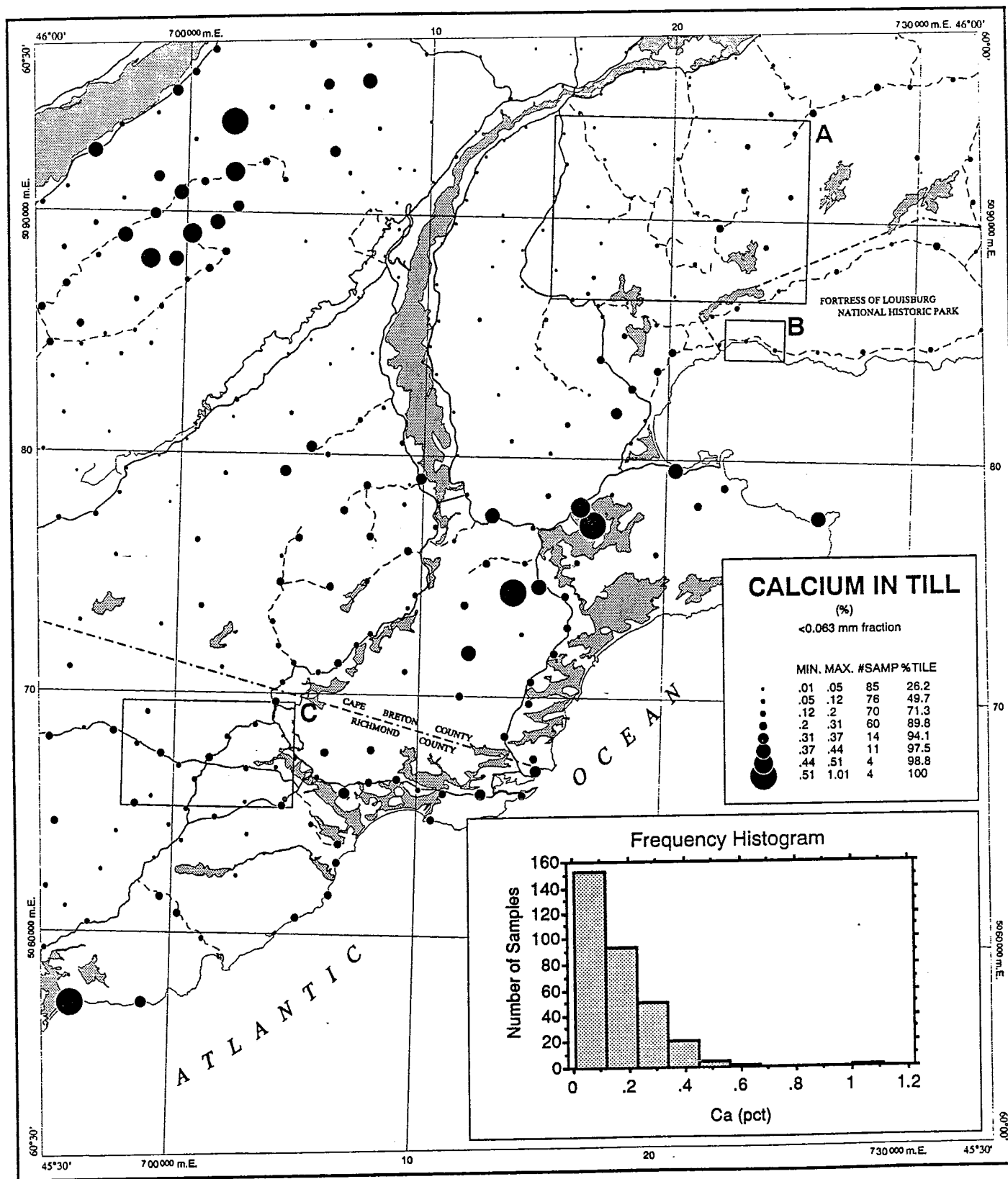
1992: Revision of upper Precambrian - Cambrian stratigraphy, southeastern Cape Breton Island, Nova Scotia; in Current Research, Geological Survey of Canada, Paper 92-1, p.21-26.

Boehner, R.C. and Prime, G.

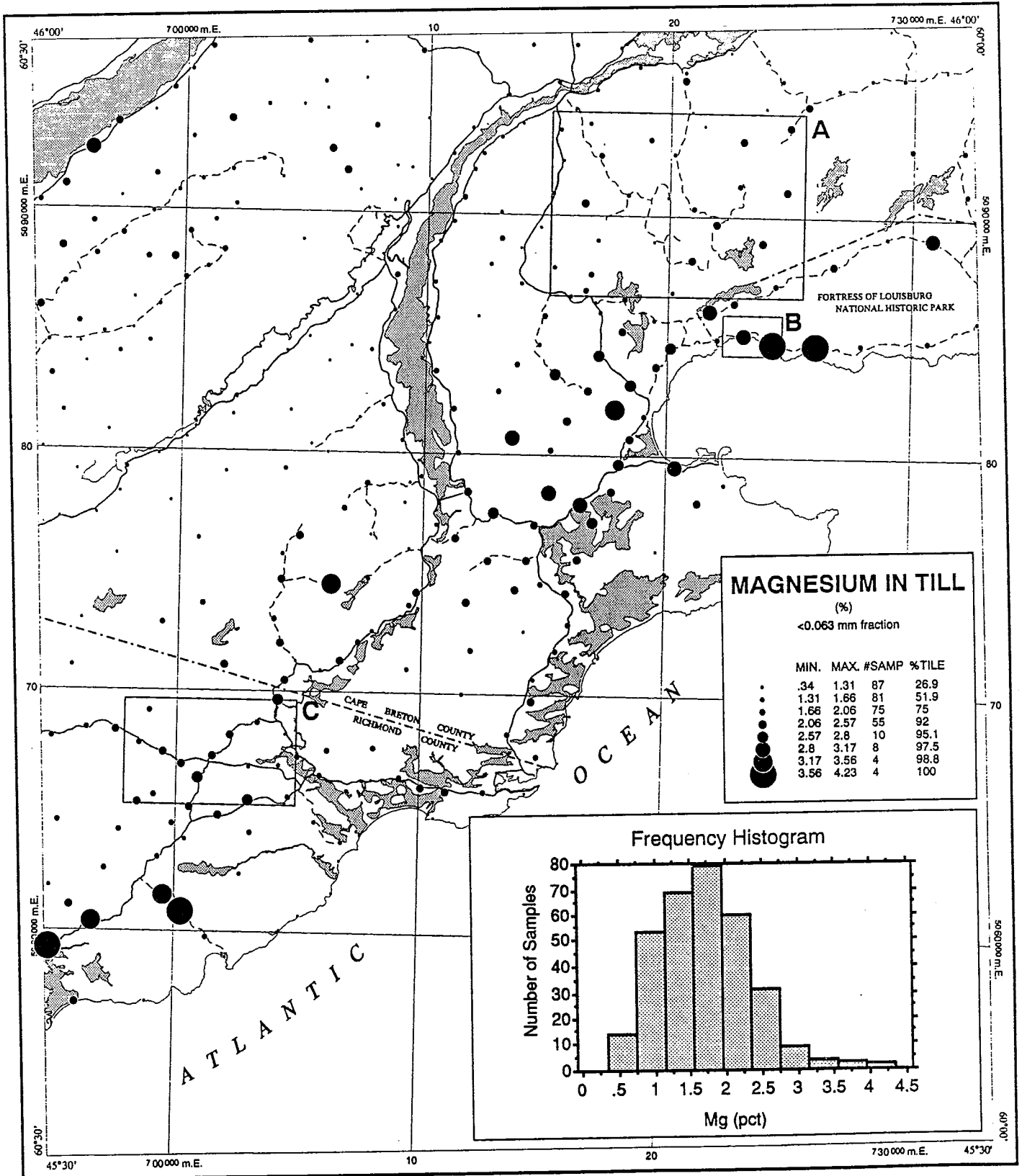
1985: Geology of the Loch Lomond basin and Glengarry half graben, Nova Scotia; Nova Scotia Department of Mines and Energy, Map 85-2 (1:50,000 scale).

Weeks, L.J.

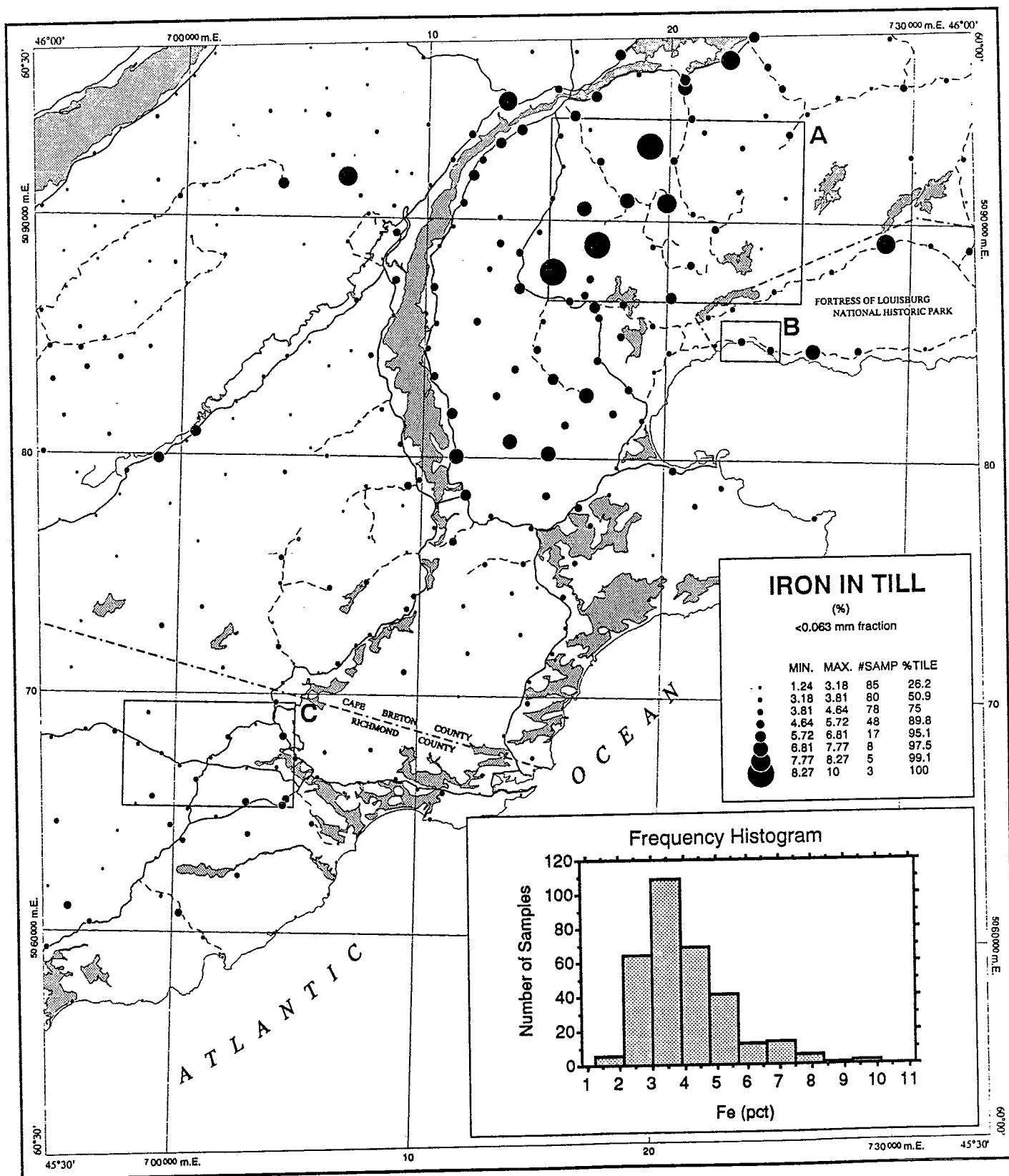
1958: Geology, Mira sheet, Cape Breton and Richmond counties, Cape Breton Island, Nova Scotia; Geological Survey of Canada, Map 1056A (1 inch = 1 mile)



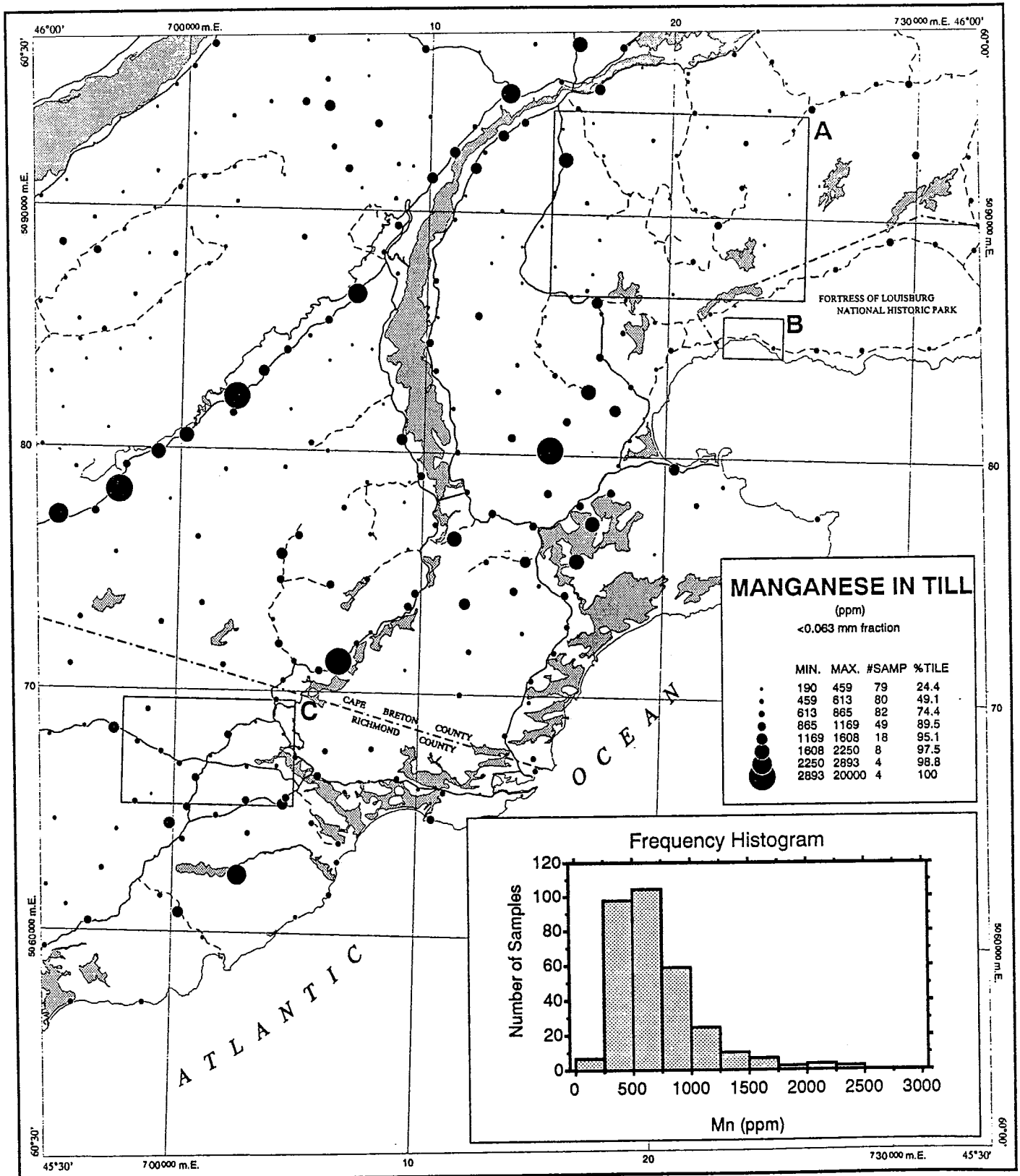
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Southeastern Cape Breton Island, Nova Scotia



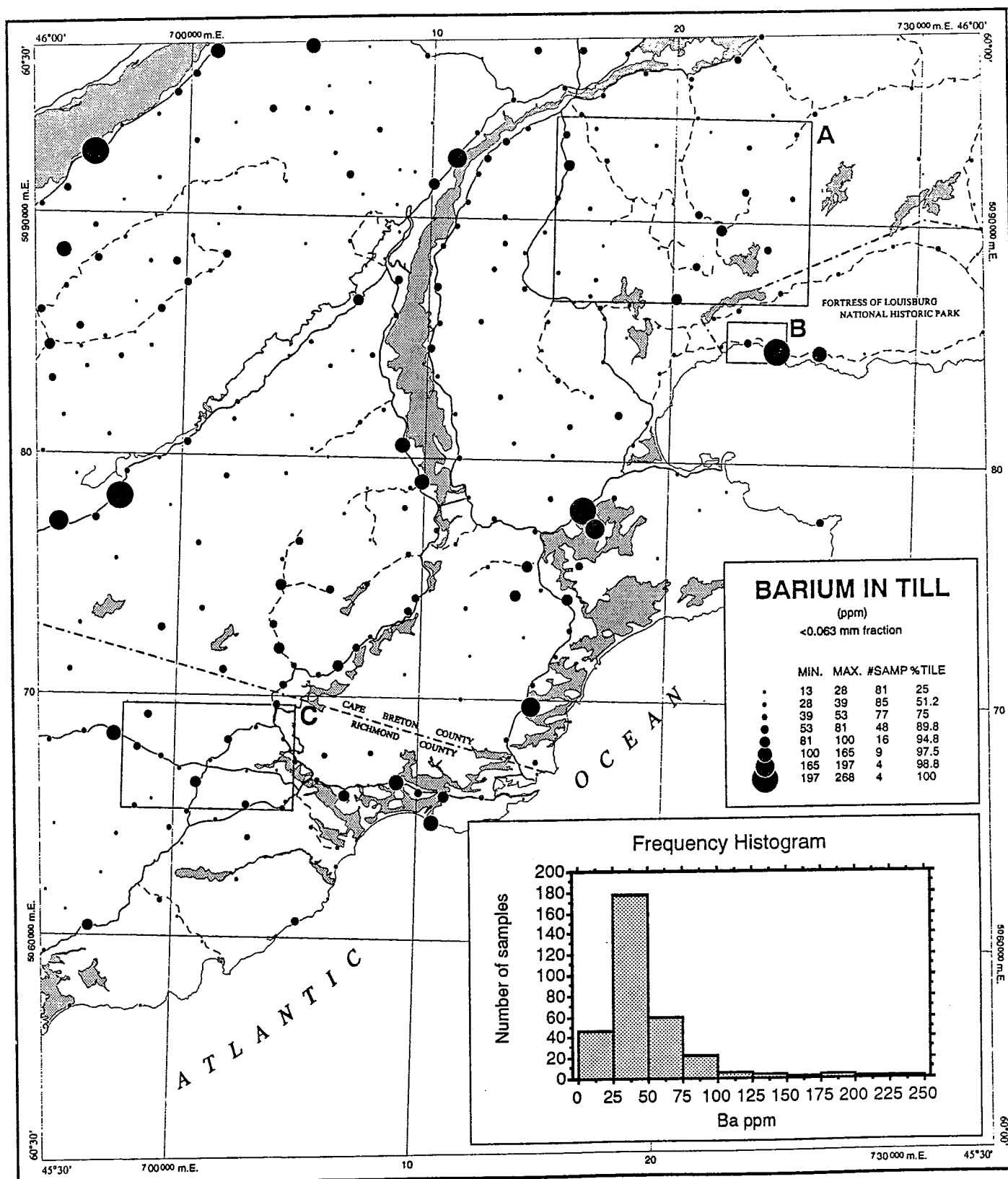
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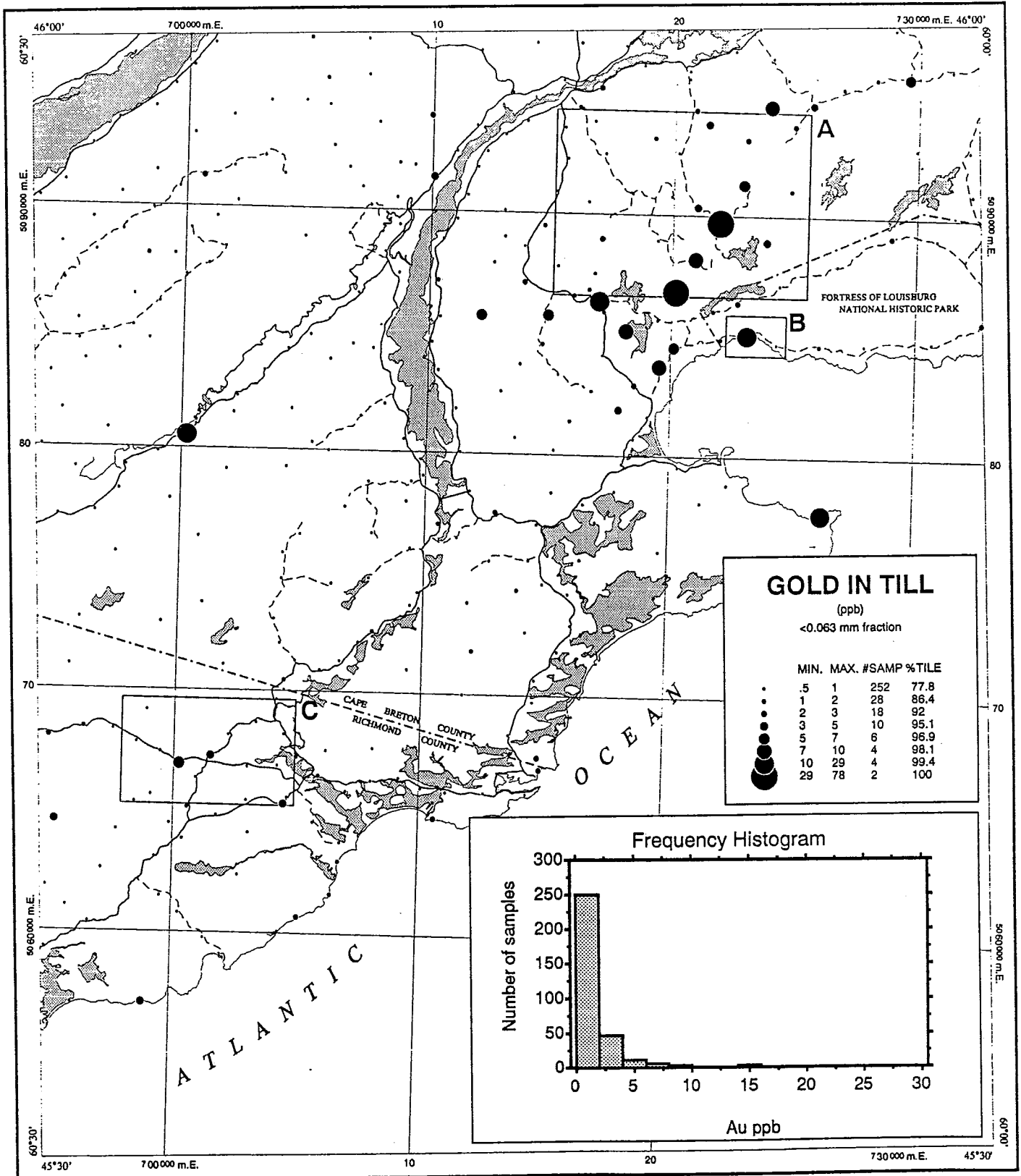
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 Southeastern Cape Breton Island, Nova Scotia



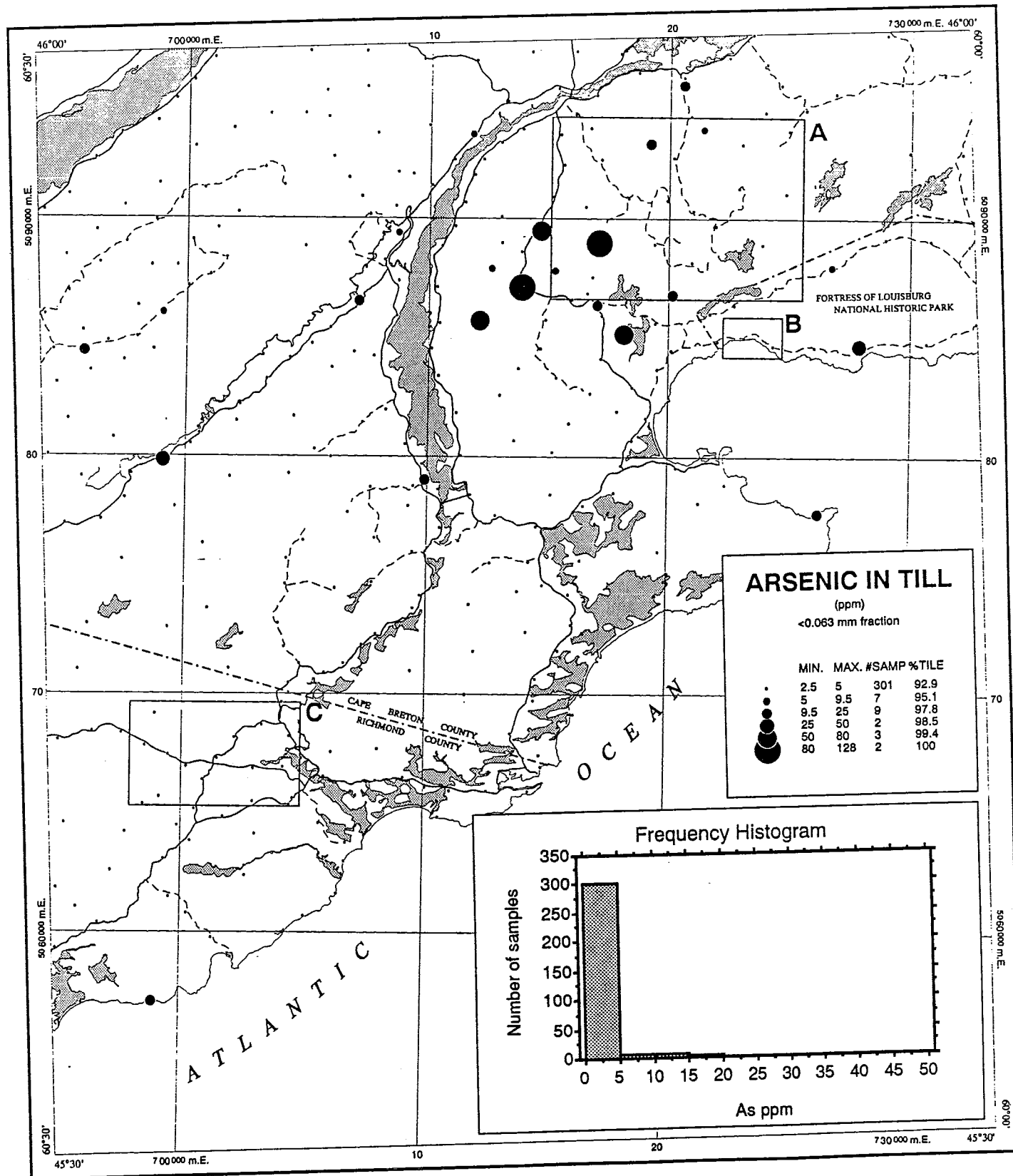
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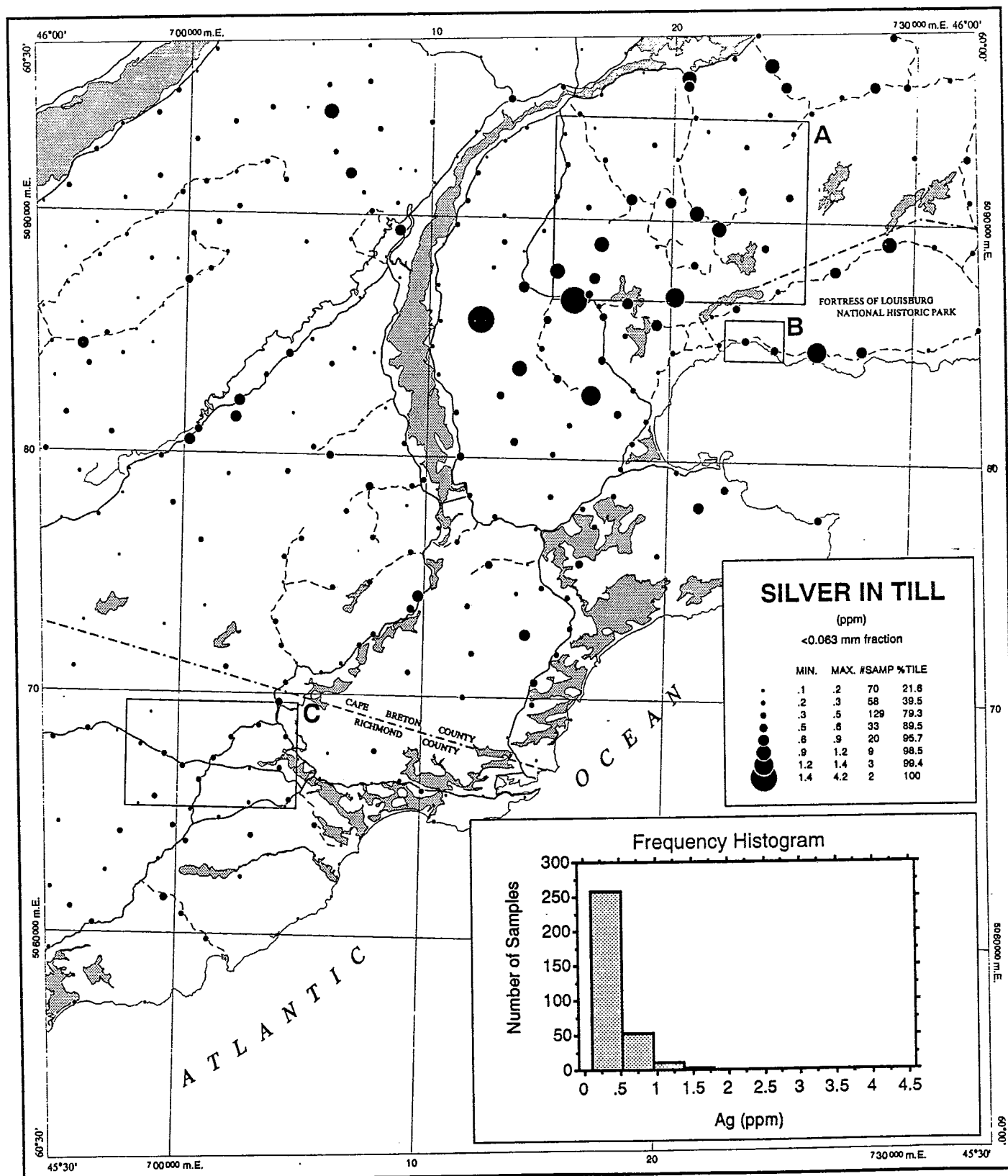
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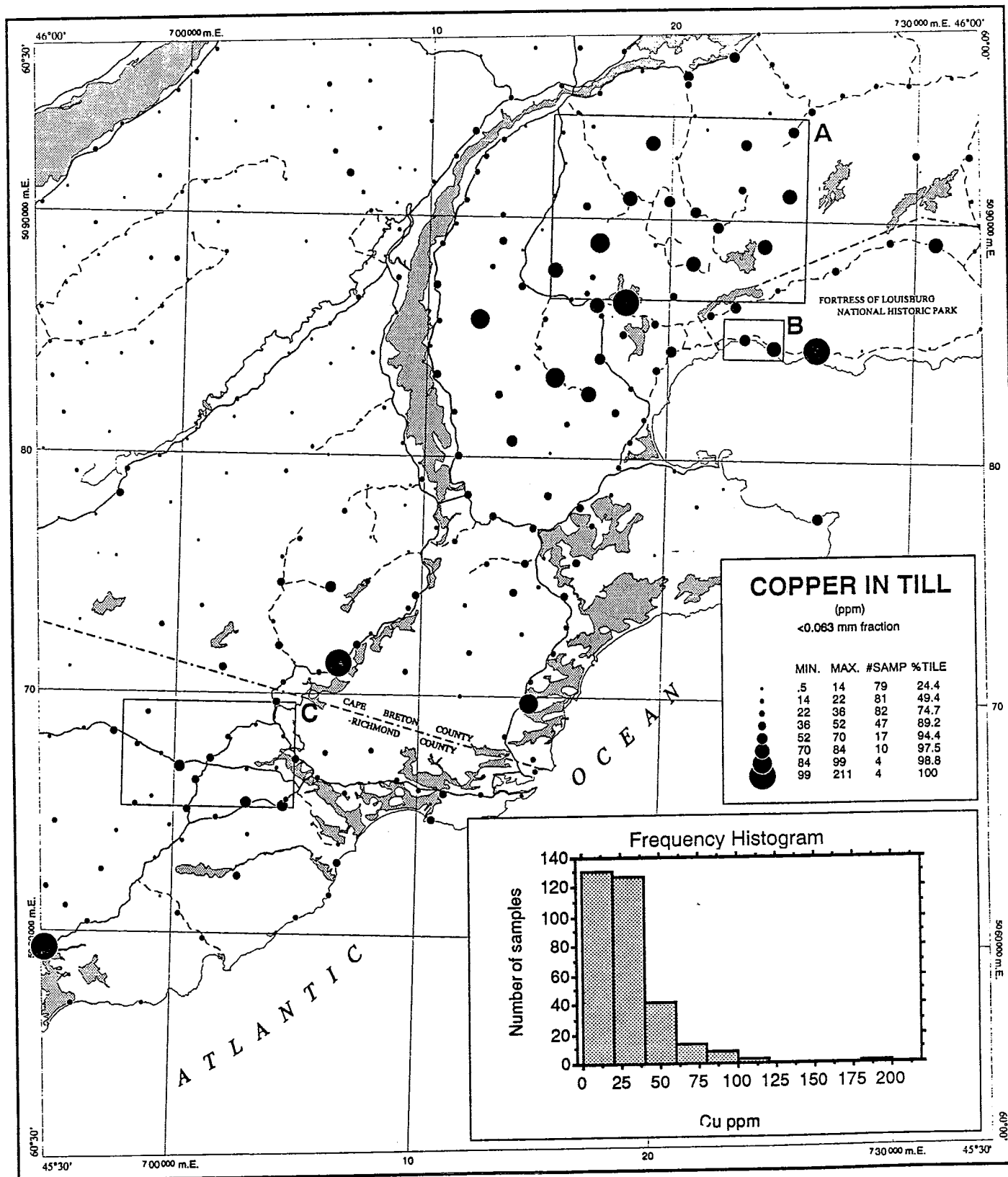
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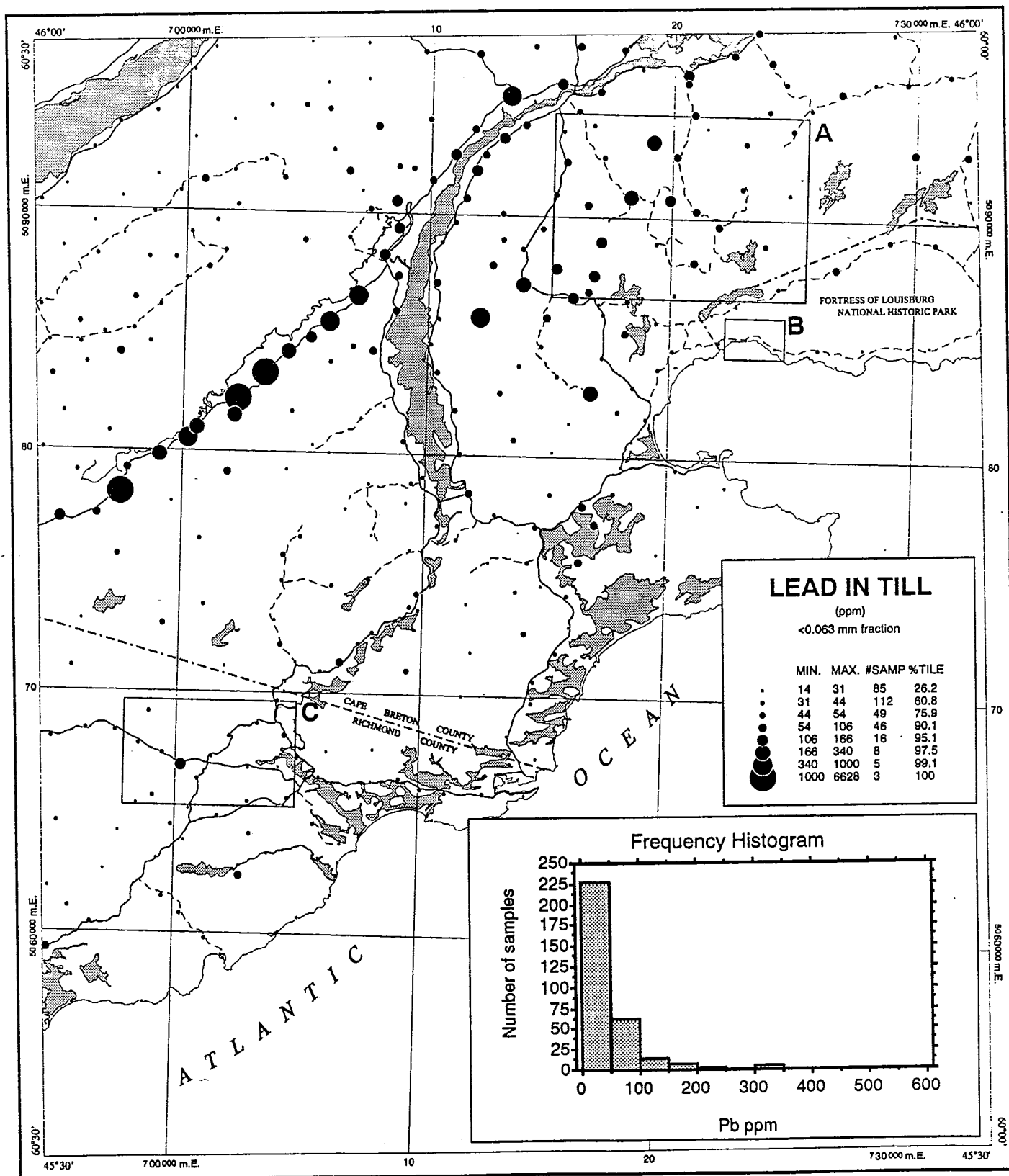
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Southeastern Cape Breton Island, Nova Scotia



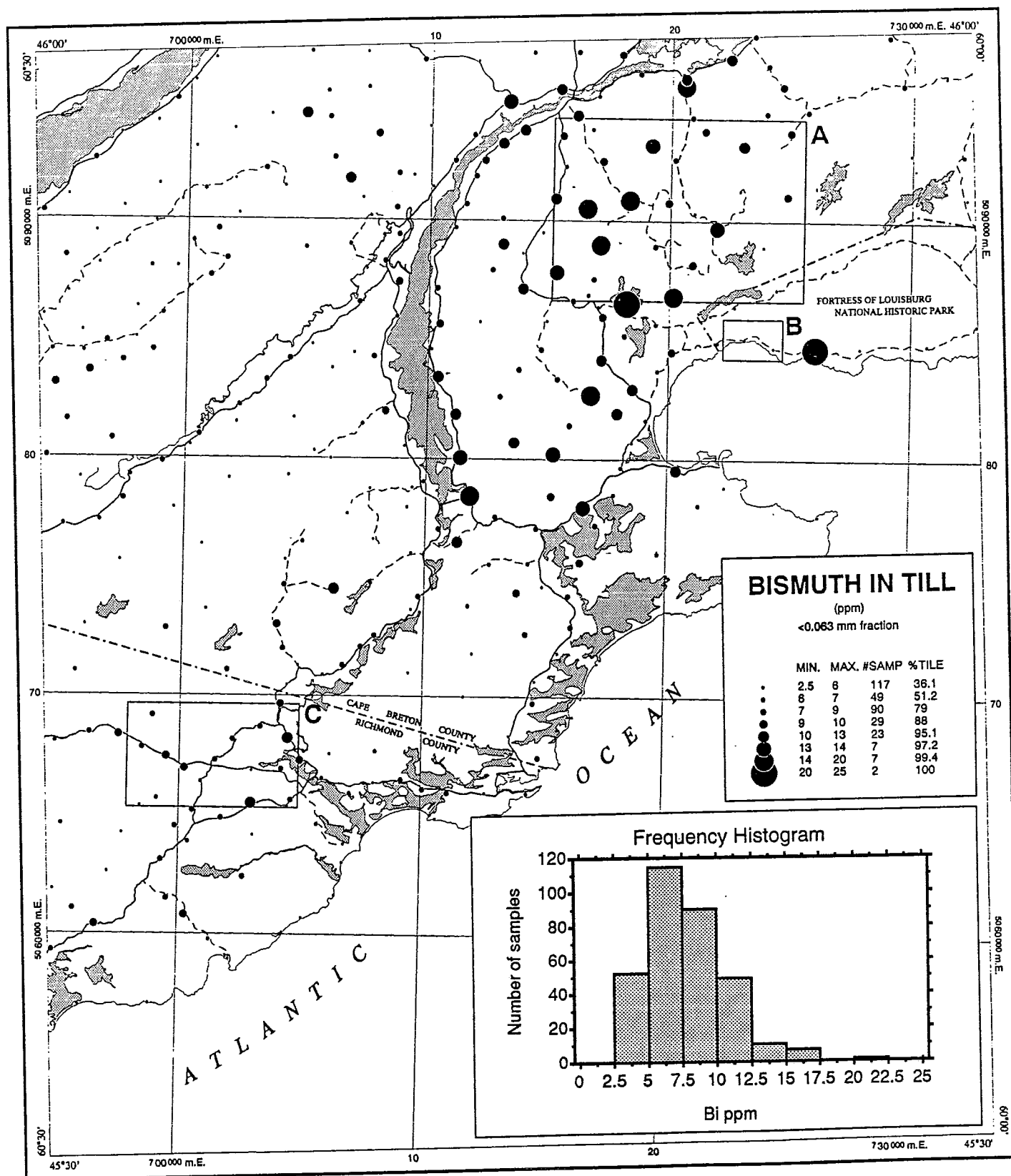
Regional Till Geochemical Sampling Program
Southeastern Cape Breton Island, Nova Scotia



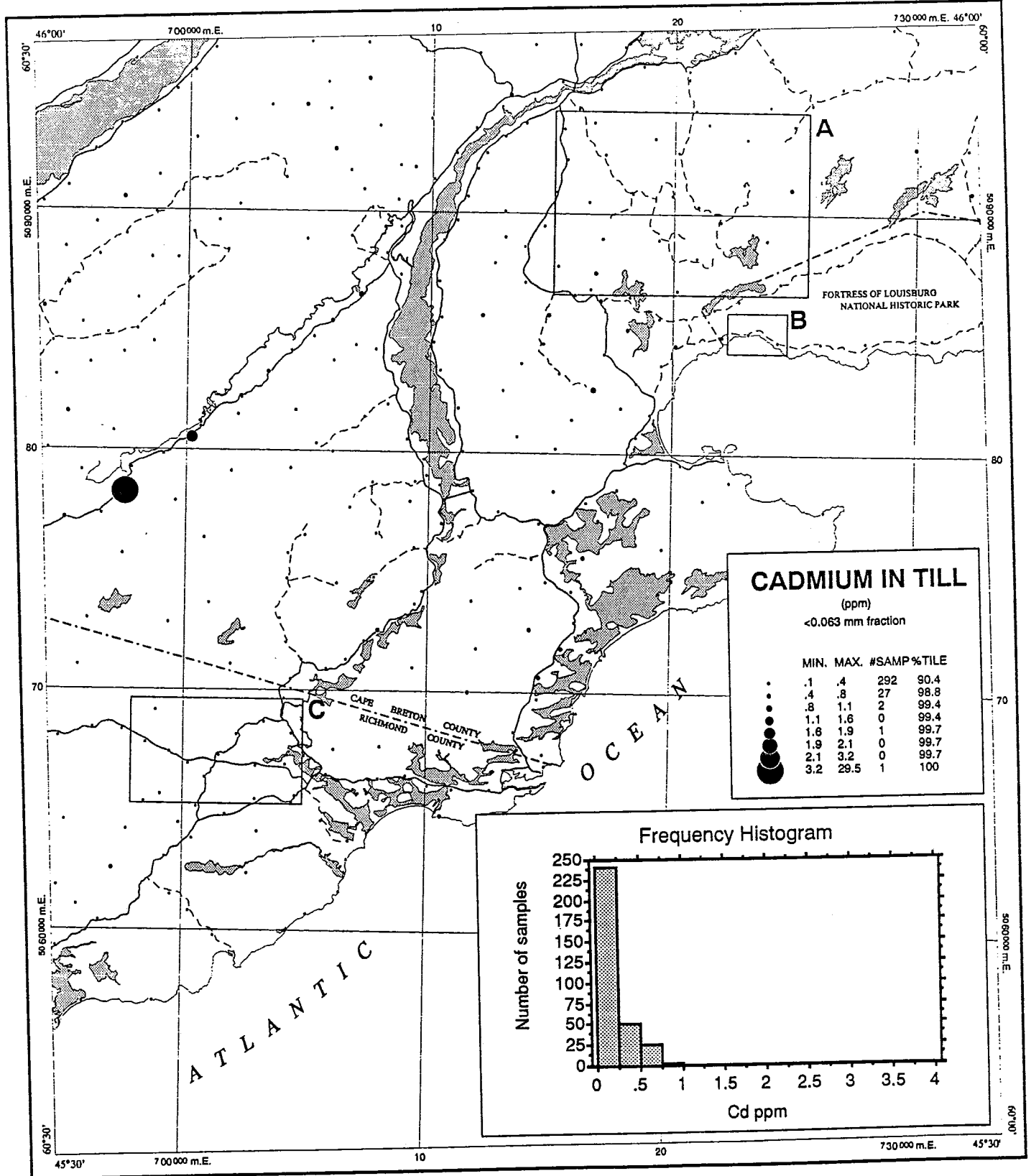
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Southeastern Cape Breton Island, Nova Scotia



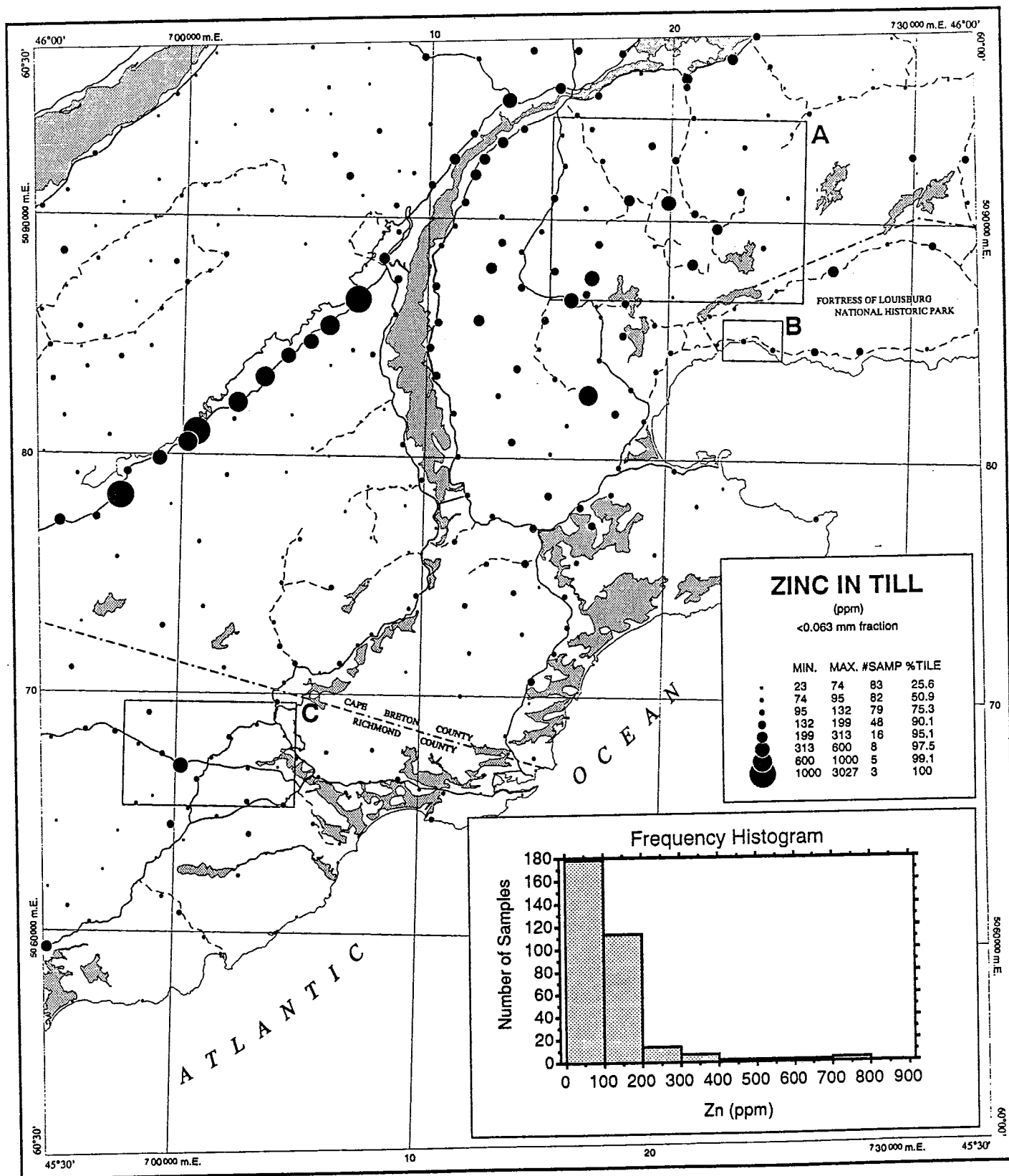
Regional Till Geochemical Sampling Program
Southeastern Cape Breton Island, Nova Scotia



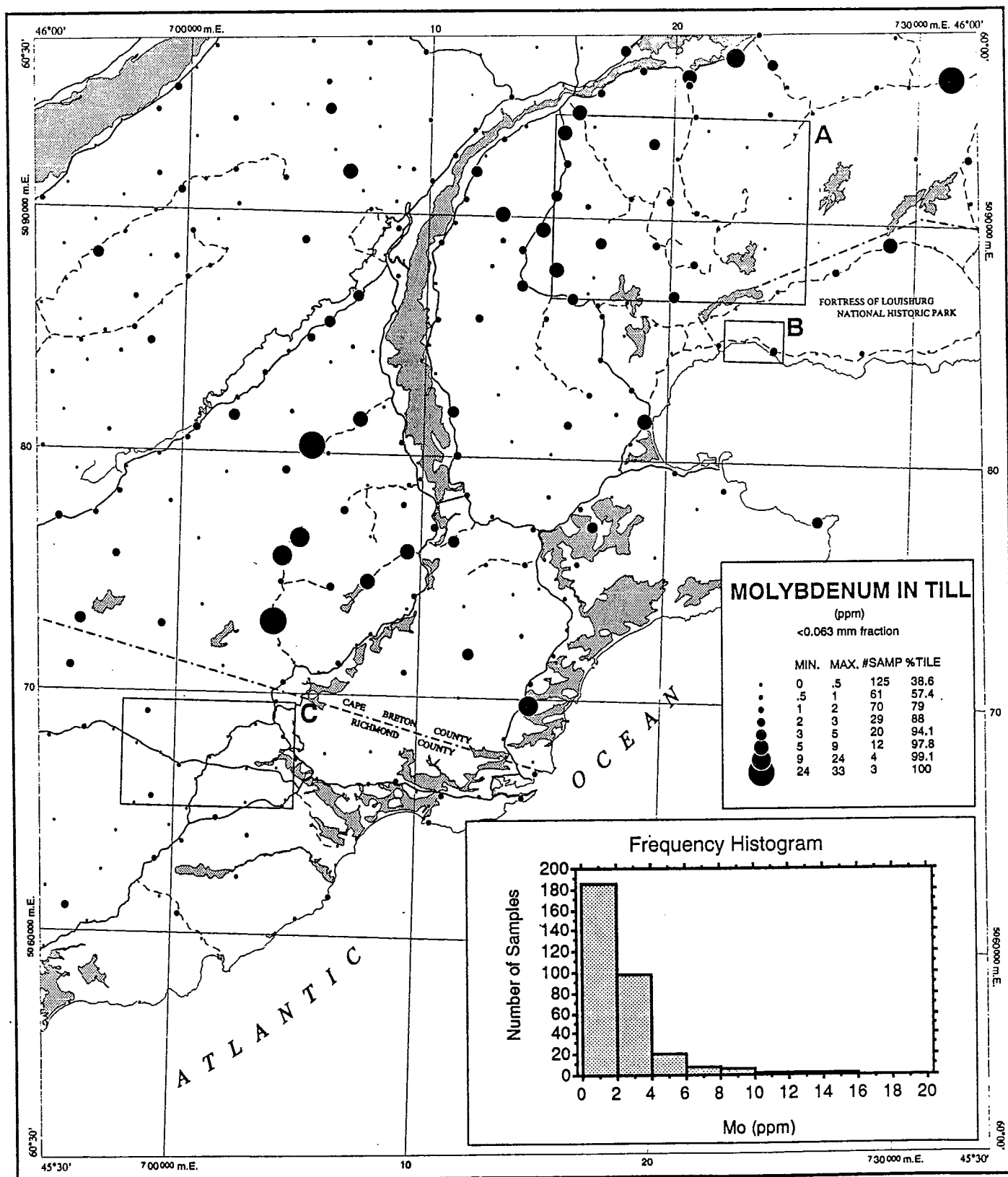
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Southeastern Cape Breton Island, Nova Scotia



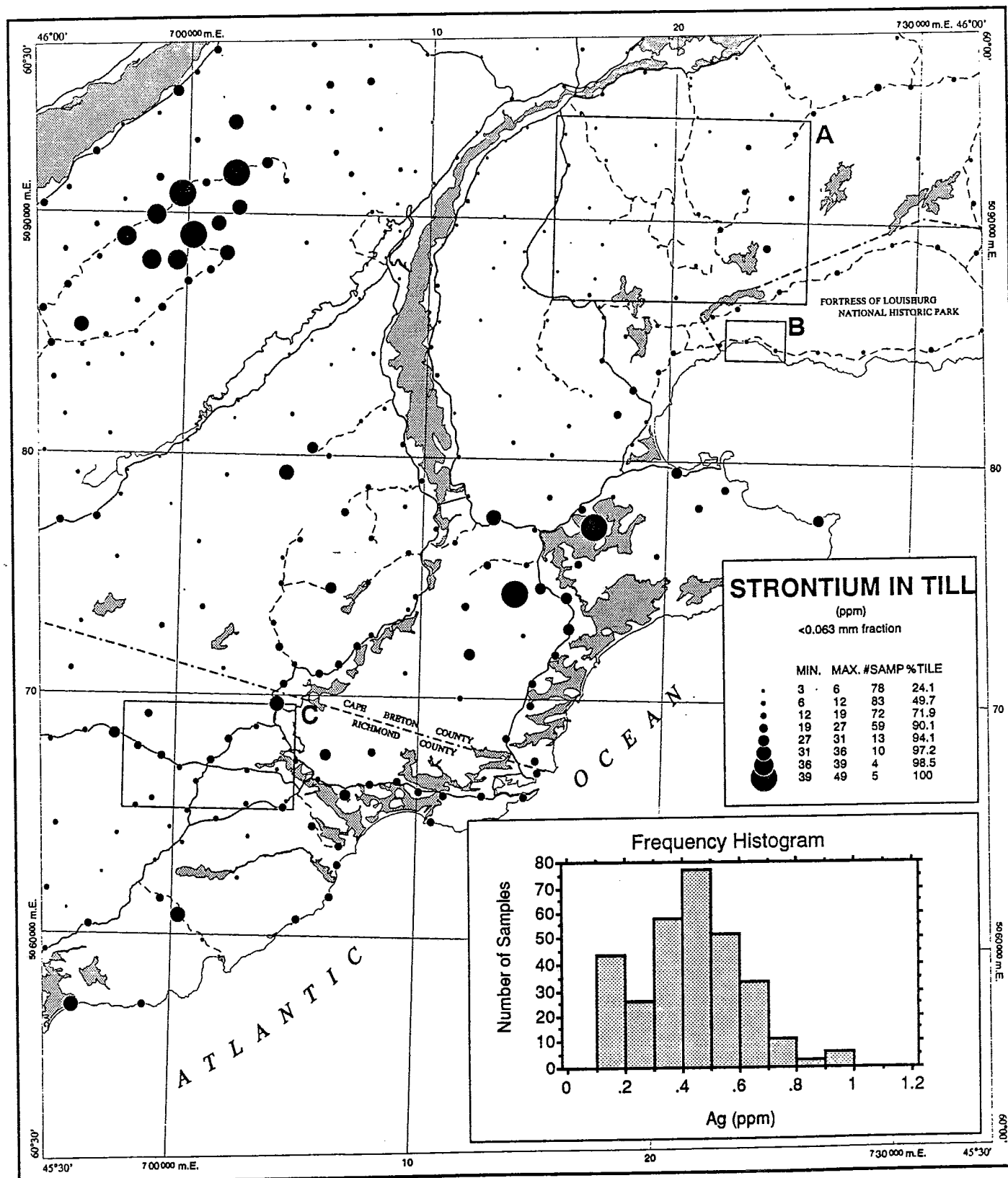
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Southeastern Cape Breton Island, Nova Scotia

**APPENDIX B.3 Deep Cove till geochemical data for the
 <0.063 mm fraction**

	page
Data listing.....	111
Proportional symbol maps	
Mo.....	115
Cu.....	116
Ag.....	117
As.....	118
Zn.....	119
Pb.....	120

Appendix B.3 Till geochemistry data for Deep Cove grid

Sample Number	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
91DDA0344	3.56	5.09	434	3.12	0.12	0.02	0.12	6	71	32	16	26	65	110	<5	12	8	<1
91DDA0346	4.95	5.72	592	4.00	0.09	0.03	0.20	8	87	30	20	30	83	129	<5	8	7	3
91DDA0364	2.96	5.16	841	3.90	0.39	0.05	0.32	7	60	31	18	34	78	120	<5	24	11	<1
91DDA0366	3.08	5.41	861	3.87	0.37	0.04	0.31	7	63	32	19	34	92	123	<5	23	11	<1
91DDA0371	3.91	4.78	523	2.79	0.14	0.02	0.14	5	67	32	14	29	51	220	<5	11	7	<1
91DDA0373	3.62	3.73	472	2.45	0.12	0.06	0.13	5	68	33	12	22	39	133	<5	9	6	<1
91DDA0375	3.85	3.93	458	3.05	0.19	0.07	0.18	5	75	39	16	31	48	141	<5	16	7	<1
91DDA0377	4.01	4.59	560	3.33	0.15	0.07	0.17	6	68	36	19	32	60	139	<5	12	7	<1
91DDA0379	4.20	5.00	1776	2.92	0.13	0.07	0.15	5	64	33	24	28	54	238	<5	11	9	<1
91DDA0381	3.11	4.99	712	3.53	0.20	0.08	0.25	6	57	33	18	34	94	123	<5	19	11	<1
91DDA0383	3.19	5.23	714	3.73	0.29	0.08	0.27	7	58	33	18	37	64	134	<5	22	13	1
91DDA0385	7.64	4.91	305	1.88	0.12	0.07	0.09	7	90	45	9	17	32	170	<5	9	8	2
91DDA0387	5.74	4.33	317	2.12	0.11	0.06	0.11	6	64	36	10	20	35	152	<5	8	8	<1
91DDA0389	7.78	6.18	305	2.73	0.12	0.07	0.06	12	163	107	15	26	45	83	<5	9	6	<1
91DDA0391	4.99	4.19	335	2.38	0.08	0.06	0.07	7	72	31	13	19	62	102	<5	9	6	<1
91DDA0395	3.43	5.04	755	3.46	0.15	0.07	0.19	6	61	29	18	31	72	349	<5	12	7	<1
91DDA0397	3.53	5.15	705	3.67	0.12	0.07	0.21	6	68	33	18	33	74	126	<5	12	7	1
91DDA0399	3.58	4.94	839	3.45	0.14	0.07	0.15	7	71	32	28	28	133	406	<5	9	7	5
91DDA0403	4.91	5.32	356	2.09	0.08	0.07	0.09	7	108	32	10	14	53	176	<5	7	8	7
91DDA0405	2.99	4.86	345	1.64	0.08	0.07	0.06	<5	93	19	6	9	33	120	34	7	5	10
91DDA0407	4.40	4.56	405	2.37	0.07	0.06	0.08	6	72	25	11	17	84	194	77	7	8	6
91DDA0409	4.99	5.26	325	2.36	0.07	0.06	0.12	5	61	30	11	20	201	259	160	7	6	55
91DDA0411	4.30	5.00	335	2.71	0.06	0.06	0.10	5	56	24	11	21	56	144	<5	7	7	5
91DDA0413	3.99	5.94	709	3.16	0.10	0.07	0.19	8	92	44	14	18	81	293	198	7	11	16
91DDA0415	2.92	4.13	454	2.55	0.14	0.07	0.12	<5	62	25	12	23	52	144	16	11	7	8
91DDA0417	3.52	4.49	514	2.74	0.15	0.06	0.14	5	67	33	14	25	54	142	<5	12	6	5
91DDA0420	2.71	4.29	660	2.94	0.15	0.07	0.17	<5	53	26	17	27	82	256	43	11	7	9
91DDA0422	3.99	5.23	459	3.31	0.19	0.07	0.13	7	77	23	16	24	221	431	<5	11	13	55
91DDA0424	3.65	6.83	860	4.13	0.29	0.09	0.27	9	103	18	31	24	311	733	<5	13	11	44
91DDA0425	5.79	6.14	513	2.61	0.08	0.07	0.13	7	113	40	16	23	137	677	395	6	7	8
91DDA0427	8.15	6.21	432	2.67	0.08	0.07	0.08	10	102	28	13	17	90	388	<5	7	9	6
91DDA0429	7.76	4.65	398	1.91	0.10	0.07	0.08	8	87	25	13	14	136	248	<5	8	6	9
91DDA0431	7.11	5.64	319	1.91	0.09	0.07	0.05	10	95	14	9	7	112	178	<5	6	14	36
91DDA0433	6.41	5.36	393	2.23	0.15	0.08	0.09	8	85	32	12	15	49	186	93	13	7	14
91DDA0436	5.09	5.44	949	3.52	0.13	0.09	0.21	11	96	18	30	17	171	132	<5	9	10	7
91DDA0440	3.69	5.92	891	3.91	0.19	0.08	0.25	8	72	24	21	27	232	343	<5	13	9	16

Appendix B.3 Till geochemistry data for Deep Cove grid

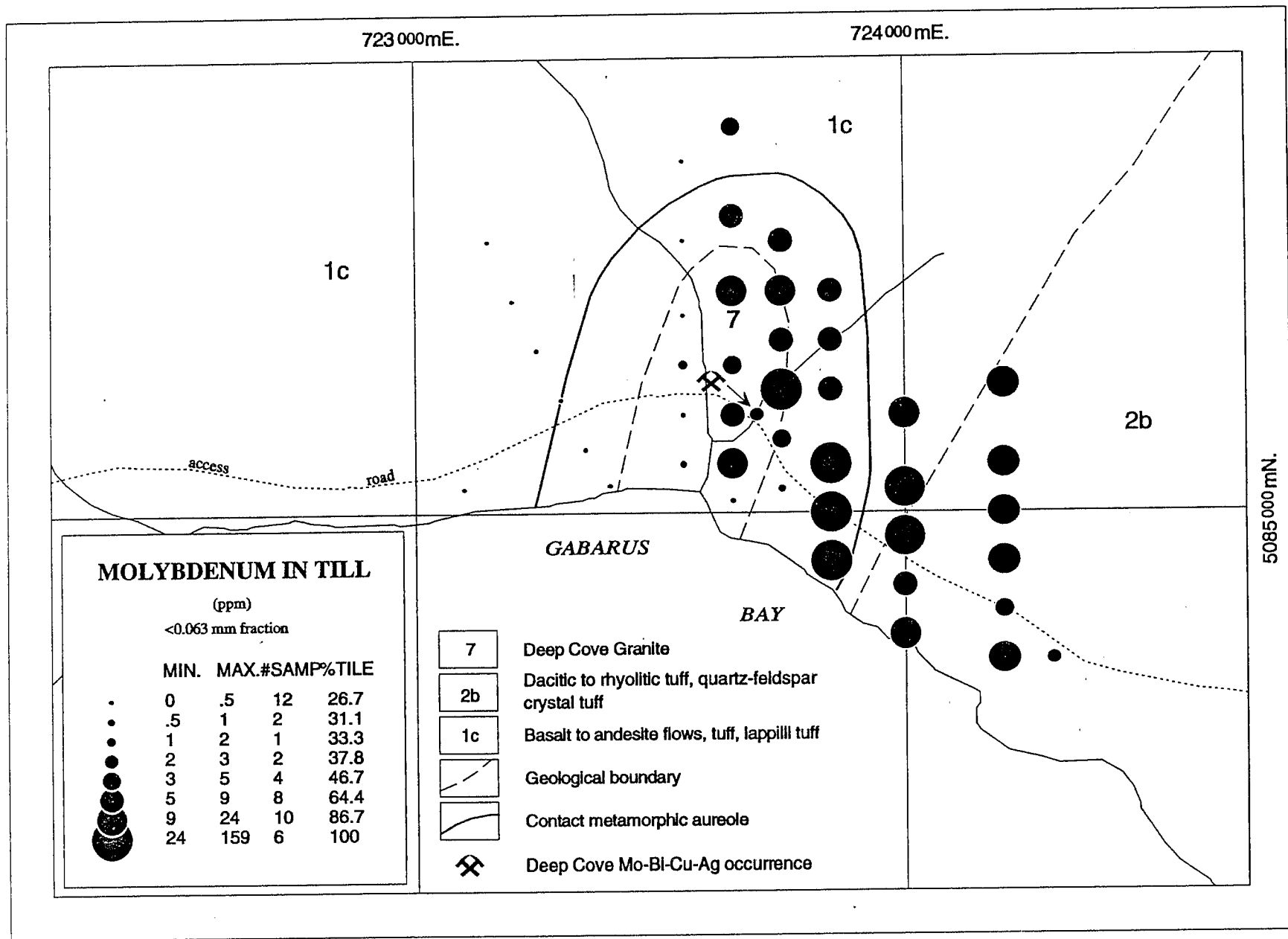
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91DDA0442	4.93	6.41	594	3.43	0.11	0.08	0.14	7	97	27	15	23	110	329	<5	9	9	10
91DDA0444	4.09	5.56	696	3.84	0.18	0.08	0.23	7	87	28	18	26	103	112	<5	10	8	4
91DDA0446	6.61	5.59	603	1.91	0.11	0.08	0.11	9	109	19	11	9	123	136	<5	6	13	11
91DDA0448	4.51	5.44	423	3.04	0.09	0.08	0.12	7	83	21	14	19	137	162	<5	7	7	21
91DDA0450	3.79	5.27	659	3.40	0.18	0.08	0.16	7	75	18	15	20	337	308	<5	13	12	159
91DDA0452	6.33	6.12	1266	1.61	0.21	0.10	0.08	7	150	5	26	2	100	160	<5	12	10	37
91DDA0454	7.06	4.97	703	1.55	0.09	0.08	0.10	8	100	11	12	4	67	102	<5	6	10	11
91DDA0456	8.71	5.19	655	1.53	0.09	0.08	0.09	9	97	18	12	11	82	103	<5	6	13	11
91DDA0458	7.85	5.41	897	1.98	0.15	0.09	0.13	9	94	12	12	6	304	138	<5	7	12	10
91DDA0462	3.04	6.35	891	2.82	0.21	0.07	0.19	5	50	24	21	27	748	591	2000	12	16	160
91DDA0464	3.06	5.29	879	3.23	0.23	0.07	0.23	5	55	27	21	30	564	418	1106	14	11	63
91DDA0466	2.98	4.57	866	3.23	0.23	0.08	0.24	5	55	28	17	28	149	200	102	15	8	10
91DDA0469	2.95	4.77	844	3.23	0.23	0.08	0.21	5	59	27	18	28	107	147	158	14	8	6
91DDA0470	2.81	4.51	878	3.23	0.22	0.08	0.22	<5	56	28	16	28	80	110	<5	15	7	<1
91DDA0472	2.43	4.03	711	2.87	0.20	0.07	0.17	<5	50	25	15	26	59	97	<5	13	7	<1
91DDA0474	2.66	3.94	504	2.74	0.15	0.07	0.16	<5	49	24	13	25	66	132	33	12	6	3
91DDA0476	3.93	5.09	281	1.84	0.08	0.07	0.09	<5	62	26	7	14	51	100	47	9	6	7

Appendix B.3 Till geochemistry data for Deep Cove grid

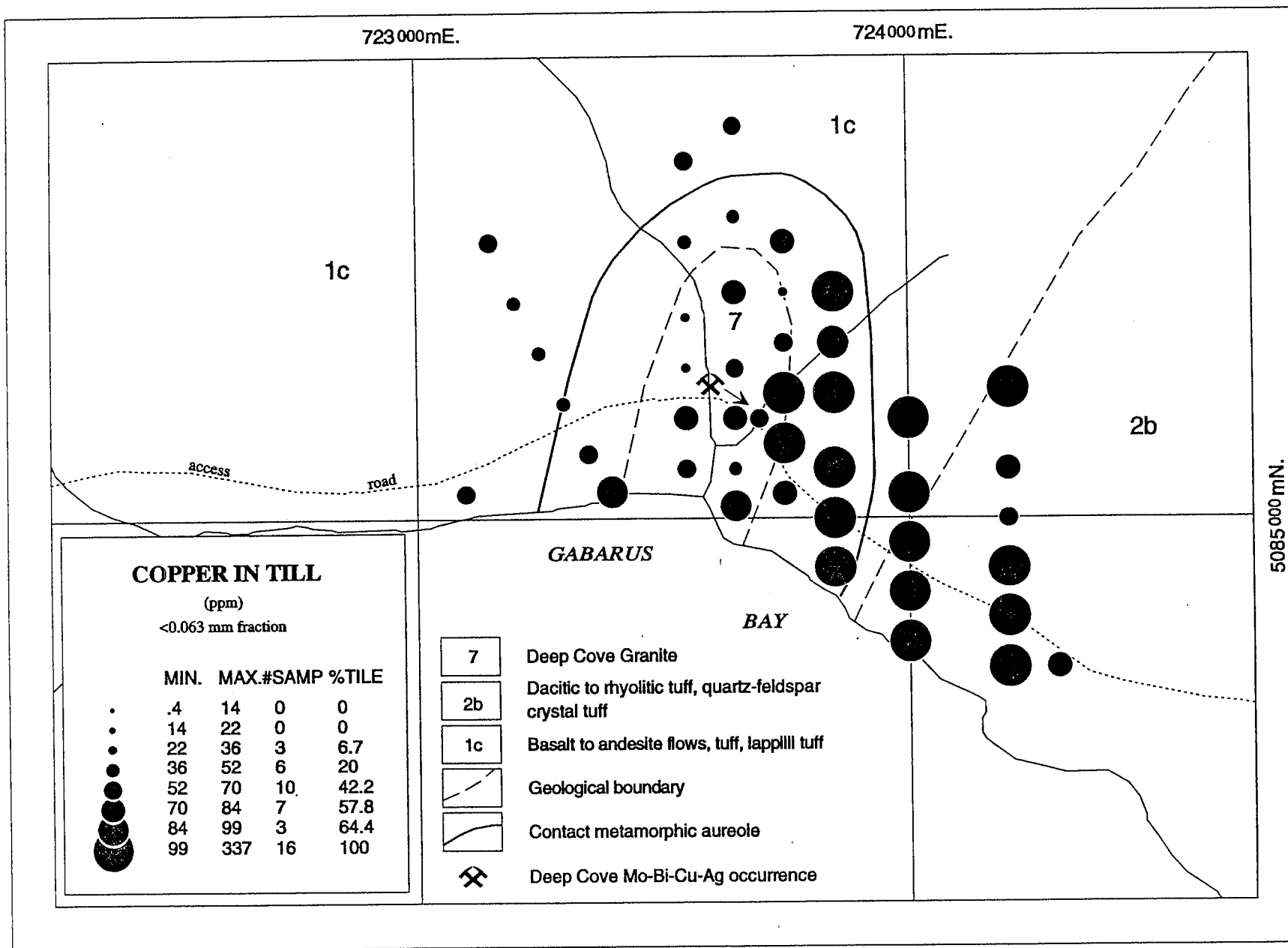
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91DDA0344	0.6	< 0.2	< 2	7	14	75	9	< 20	23	6	29
91DDA0346	0.6	0.3	< 2	< 5	18	207	11	< 20	24	6	< 1
91DDA0364	0.5	< 0.2	< 2	9	13	543	12	< 20	24	6	2
91DDA0366	0.6	< 0.2	< 2	9	15	657	14	< 20	20	9	< 1
91DDA0371	2.1	0.2	< 2	< 5	12	106	10	< 20	37	6	2
91DDA0373	0.9	< 0.2	< 2	< 5	13	66	11	< 20	31	< 5	< 1
91DDA0375	1.0	0.2	< 2	< 5	13	91	9	< 20	32	5	< 1
91DDA0377	0.7	0.7	< 2	< 5	19	101	11	< 20	43	< 5	1
91DDA0379	1.3	1.8	< 2	< 5	16	161	11	< 20	65	7	3
91DDA0381	0.6	< 0.2	< 2	9	14	272	15	< 20	23	8	3
91DDA0383	0.6	< 0.2	< 2	7	15	468	15	< 20	20	8	1
91DDA0385	1.7	0.8	< 2	< 5	25	71	11	< 20	57	< 5	< 1
91DDA0387	0.8	0.8	< 2	< 5	14	49	14	< 20	74	6	< 1
91DDA0389	0.6	2.4	< 2	< 5	26	31	8	< 20	36	7	2
91DDA0391	0.5	1.3	< 2	< 5	18	51	9	< 20	34	7	< 1
91DDA0395	2.8	0.9	< 2	8	15	123	13	< 20	42	12	< 1
91DDA0397	0.6	0.5	< 2	7	17	83	13	< 20	23	8	< 1
91DDA0399	1.1	0.6	< 2	8	15	104	13	< 20	68	5	< 1
91DDA0403	2.0	0.2	< 2	< 5	19	58	10	< 20	43	5	< 1
91DDA0405	1.0	1.1	< 2	7	13	30	8	< 20	35	8	< 1
91DDA0407	1.1	0.7	< 2	8	17	60	12	< 20	53	12	< 1
91DDA0409	8.9	< 0.2	< 2	7	20	59	12	< 20	100	42	< 1
91DDA0411	1.8	1.2	< 2	< 5	13	44	11	< 20	28	7	< 1
91DDA0413	1.4	< 0.2	< 2	7	< 10	162	10	< 20	87	8	< 1
91DDA0415	0.7	0.7	< 2	< 5	10	63	14	< 20	25	9	< 1
91DDA0417	0.3	< 0.2	< 2	< 5	11	64	12	< 20	30	< 5	< 1
91DDA0420	1.0	0.6	2	6	11	80	14	< 20	34	6	1
91DDA0422	4.6	0.9	< 2	< 5	13	100	15	< 20	72	7	2
91DDA0424	1.7	1.7	< 2	14	17	213	16	< 20	205	13	< 1
91DDA0425	2.5	< 0.2	< 2	30	23	54	10	< 20	197	9	2
91DDA0427	1.2	1.2	< 2	< 5	25	83	10	< 20	73	6	< 1
91DDA0429	2.5	0.8	< 2	< 5	25	69	8	< 20	51	< 5	5
91DDA0431	2.2	0.3	< 2	< 5	24	64	12	< 20	68	6	< 1
91DDA0433	0.7	< 0.2	< 2	< 5	20	57	9	< 20	59	6	< 1
91DDA0436	1.1	0.4	< 2	< 5	15	114	12	< 20	28	6	6
91DDA0440	0.5	0.7	< 2	8	14	130	13	< 20	41	5	2

Appendix B.3 Till geochemistry data for Deep Cove grid

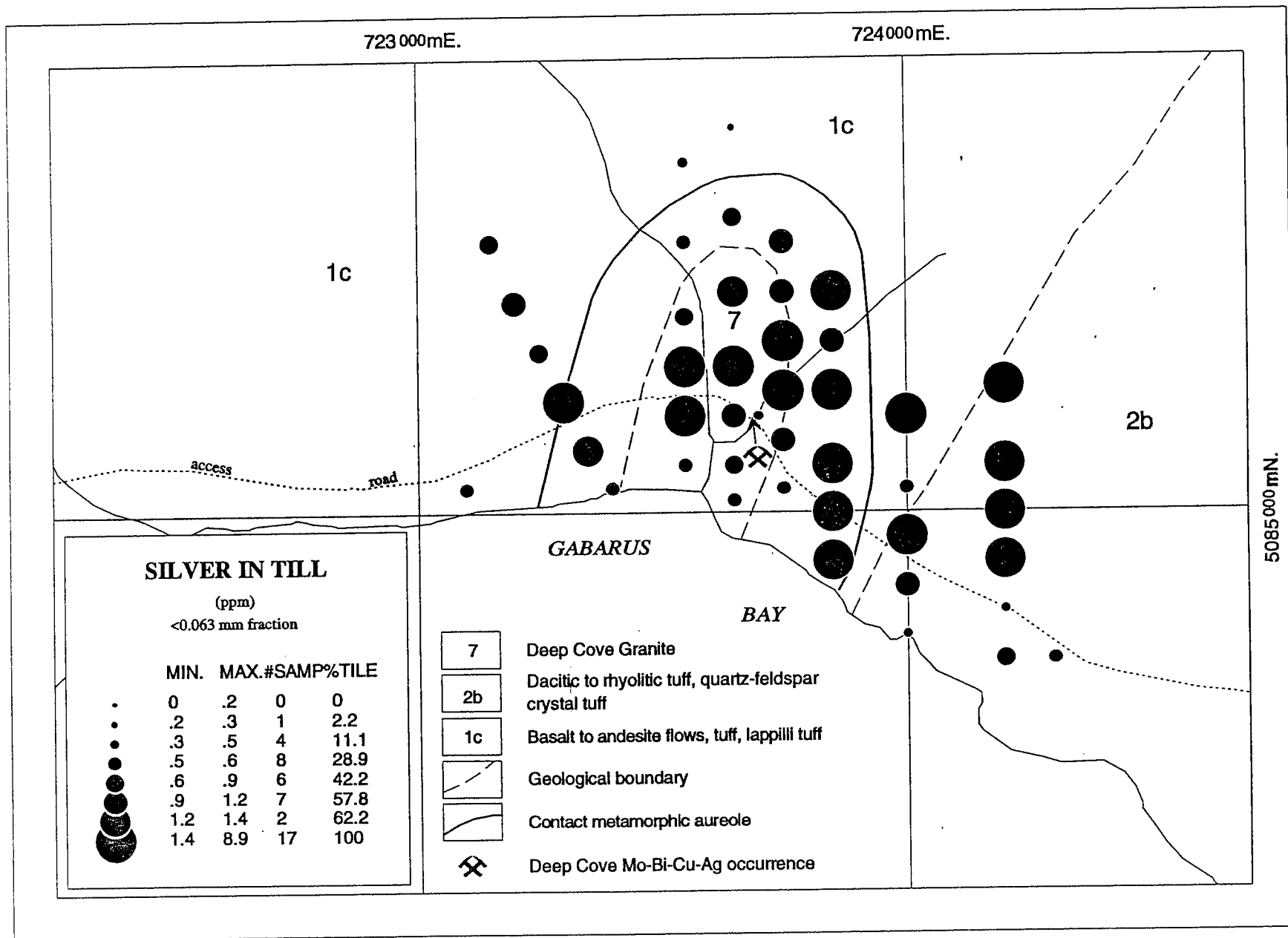
Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
91DDA0442	0.8	1.4	<2	<5	18	144	9	<20	30	6	<1
91DDA0444	0.5	0.9	<2	<5	11	294	11	<20	24	7	<1
91DDA0446	2.8	<0.2	<2	<5	22	53	11	<20	46	7	<1
91DDA0448	2.1	0.7	<2	<5	16	86	9	<20	41	<5	<1
91DDA0450	0.6	0.5	<2	6	15	100	14	<20	66	9	<1
91DDA0452	2.4	1.0	<2	<5	24	69	7	<20	175	<5	<1
91DDA0454	2.4	1.5	2	<5	26	43	8	<20	60	8	<1
91DDA0456	3.2	0.5	<2	<5	25	40	10	<20	66	6	<1
91DDA0458	1.6	1.2	<2	<5	22	54	10	<20	77	12	<1
91DDA0462	15.6	<0.2	<2	34	17	102	24	<20	304	236	20
91DDA0464	6.7	<0.2	2	18	17	106	16	<20	120	91	5
91DDA0466	1.8	<0.2	<2	9	11	109	14	<20	32	15	<1
91DDA0469	0.8	0.8	<2	8	12	123	13	<20	25	14	3
91DDA0470	0.5	0.3	<2	8	12	126	13	<20	19	10	<1
91DDA0472	0.4	<0.2	2	7	<10	77	13	<20	16	7	<1
91DDA0474	0.5	<0.2	<2	5	11	64	13	<20	20	8	<1
91DDA0476	1.4	<0.2	<2	<5	16	33	9	<20	30	9	<1



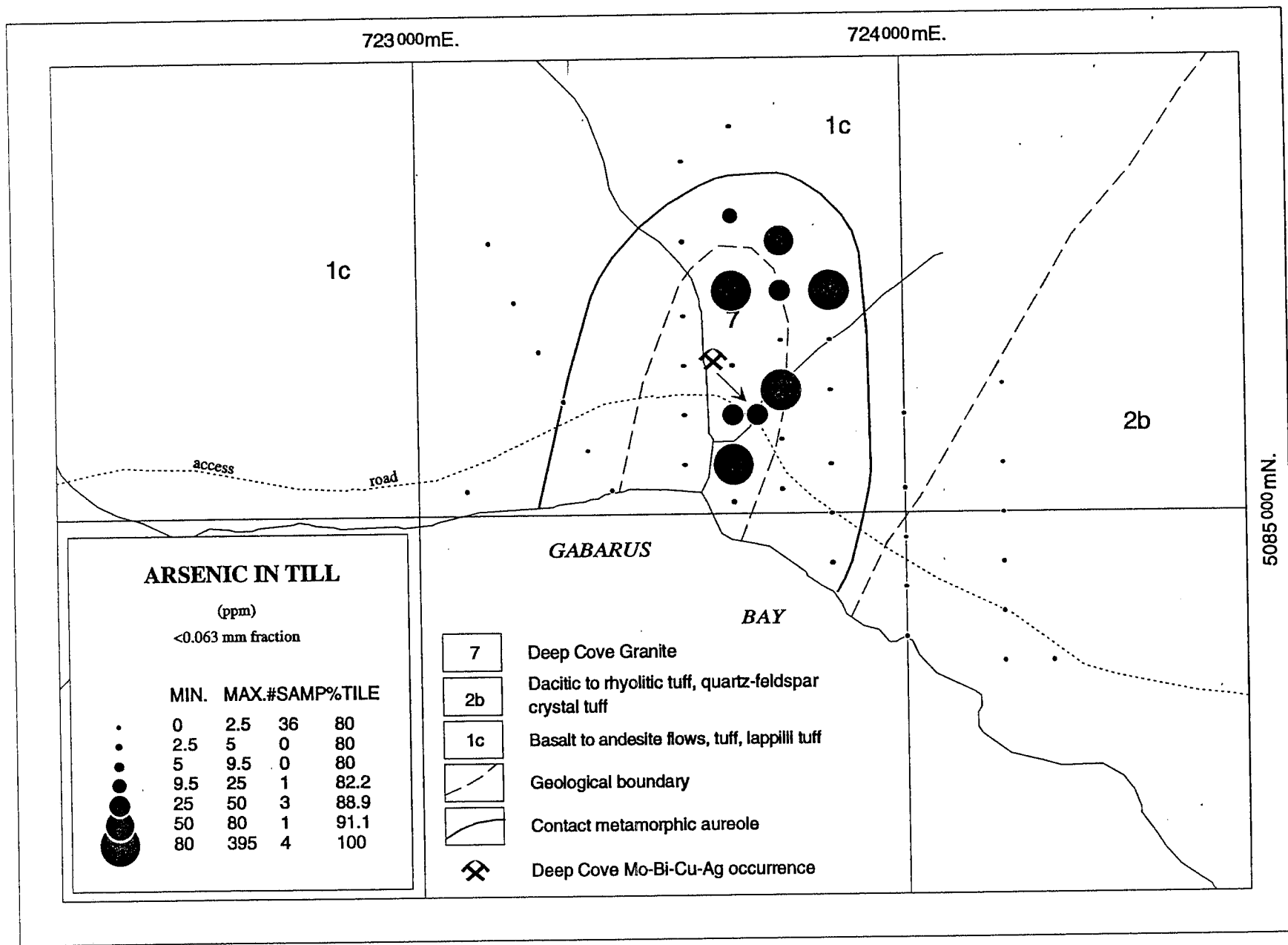
Detailed Till Sampling Survey - Deep Cove Area



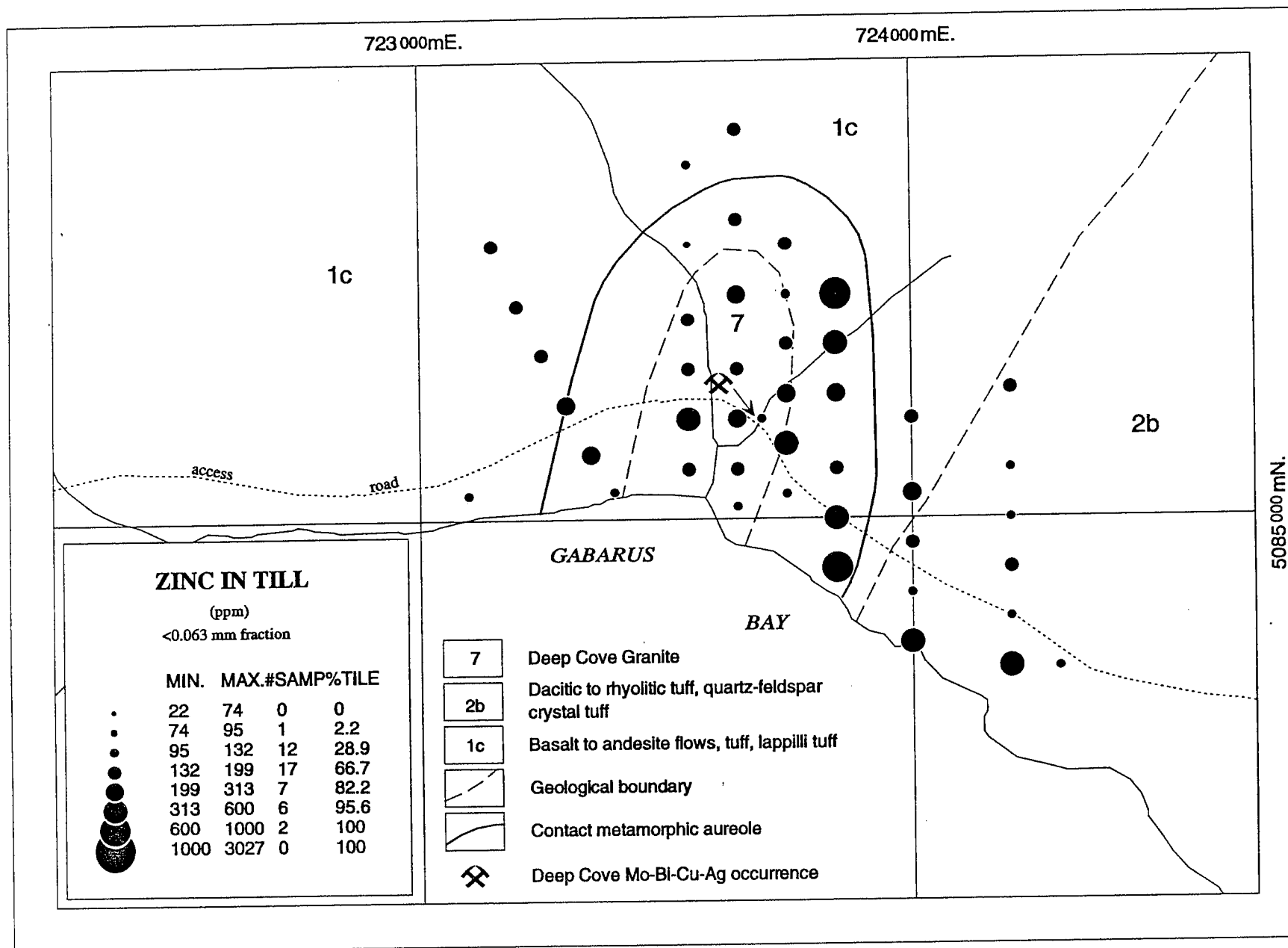
Detailed Till Sampling Survey - Deep Cove Area



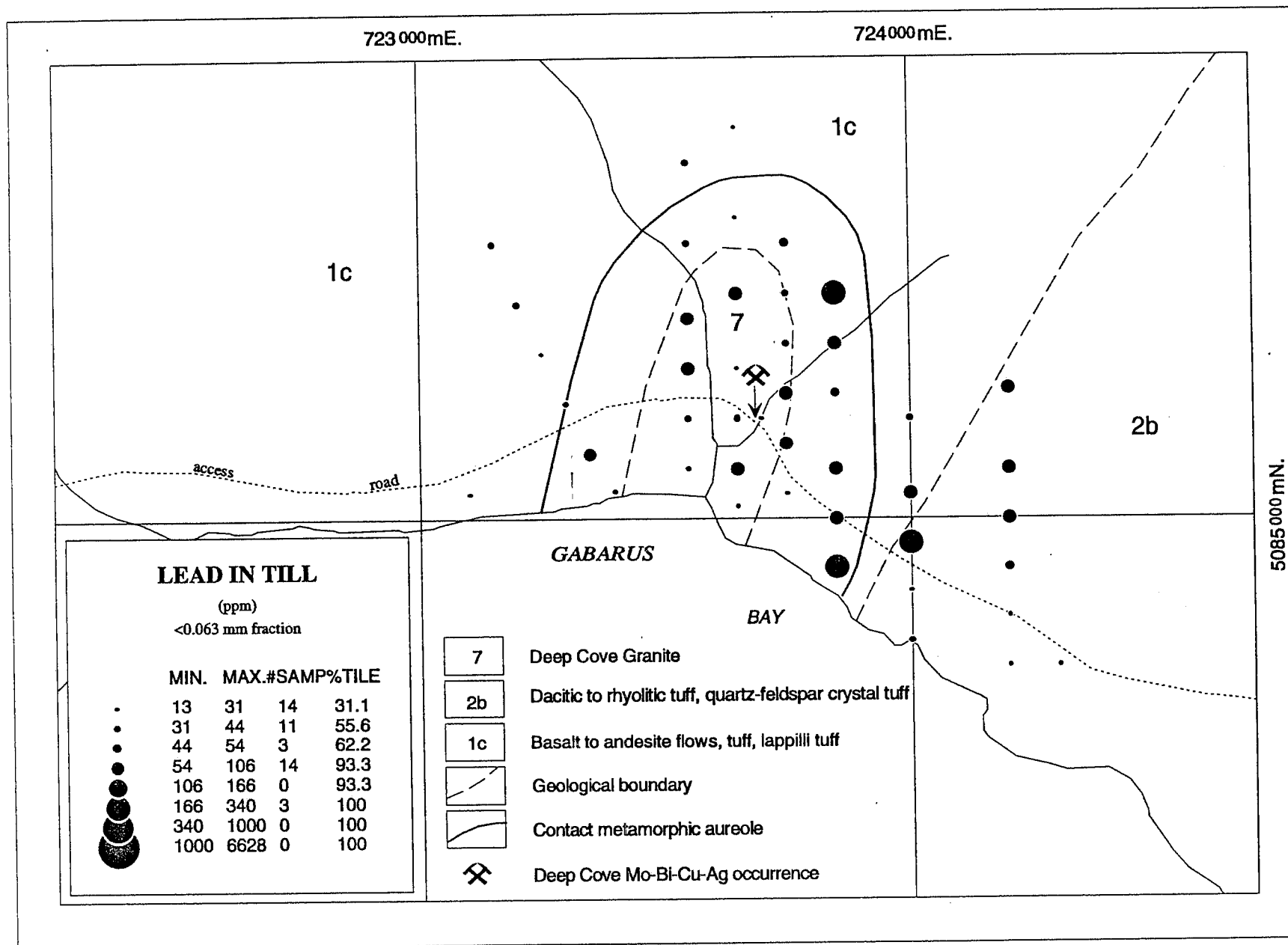
Detailed Till Sampling Survey - Deep Cove Area



Detailed Till Sampling Survey - Deep Cove Area



Detailed Till Sampling Survey - Deep Cove Area



Detailed Till Sampling Survey - Deep Cove Area

APPENDIX B.4 Blue Mountain till geochemical area for the <0.063 mm fraction

	page
Data listing.....	123
Proportional symbol maps	
Bedrock map legend.....	127
Au.....	128
Cu.....	129
Zn.....	130
Pb.....	131
As.....	132
Ag.....	133

Appendix B.4 Geochemical data for Blue Mountain grid

Sample Number	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
91DDA0029	4.49	>10.00	753	1.55	0.05	0.02	0.13	< 5	47	44	15	17	128	247	276	4	4	5
91DDA0030	3.65	>10.00	990	2.50	0.04	0.03	0.21	< 5	54	40	20	26	123	197	77	4	5	< 1
91DDA0032	3.12	9.20	573	2.57	0.03	0.03	0.14	< 5	47	38	9	20	104	127	42	8	5	2
91DDA0034	3.45	7.53	598	2.31	0.06	0.02	0.20	< 5	49	33	13	27	111	679	37	6	6	3
91DDA0036	4.12	5.94	1083	2.53	0.16	0.03	0.30	< 5	59	28	31	31	131	648	14	7	6	< 1
91DDA0038	3.56	5.63	1042	2.33	0.06	0.02	0.52	6	50	29	26	30	42	565	< 5	8	6	< 1
91DDA0040	3.28	5.57	1183	2.51	0.19	0.03	0.26	< 5	64	26	23	26	77	258	< 5	10	6	< 1
91DDA0042	3.06	5.45	1353	2.85	0.26	0.03	0.25	< 5	62	26	29	26	105	382	< 5	8	7	< 1
91DDA0044	5.74	5.67	1909	2.77	0.11	0.02	0.20	5	55	34	39	28	146	294	< 5	7	7	1
91DDA0046	8.03	9.88	943	1.91	0.05	0.02	0.23	6	50	46	27	25	163	295	47	3	6	3
91DDA0048	7.83	5.98	583	1.33	0.03	0.02	0.09	< 5	42	52	14	29	69	201	< 5	4	6	1
91DDA0050	3.51	4.61	812	2.06	0.26	0.03	0.22	< 5	55	28	20	29	107	390	8	6	6	< 1
91DDA0052	2.07	4.80	897	2.12	0.11	0.03	0.12	< 5	64	25	19	23	56	127	< 5	8	5	< 1
91DDA0054	2.63	5.04	891	2.25	0.16	0.03	0.14	< 5	63	26	20	28	52	193	< 5	9	6	< 1
91DDA0056	3.26	5.49	1393	2.66	0.10	0.03	0.14	< 5	46	31	27	46	70	637	59	6	7	< 1
91DDA0058	3.46	>10.00	1284	1.96	0.02	0.02	0.13	< 5	57	50	10	28	75	153	75	6	4	7
91DDA0060	2.58	4.96	1020	2.35	0.14	0.02	0.21	< 5	55	30	24	31	112	640	13	7	7	< 1
91DDA0062	2.66	4.68	1047	2.47	0.14	0.02	0.21	< 5	55	42	26	36	114	506	< 5	7	7	1
91DDA0064	2.80	4.51	1065	2.40	0.09	0.02	0.22	< 5	55	32	23	34	98	386	< 5	7	6	< 1
91DDA0066	3.34	4.21	541	1.53	0.28	0.02	0.10	< 5	56	31	16	26	54	124	< 5	6	5	< 1
91DDA0068	2.98	4.81	1254	2.49	0.14	0.02	0.15	< 5	55	33	34	39	433	905	24	7	7	2
91DDA0070	6.04	3.97	1525	1.71	0.08	0.02	0.11	< 5	52	30	26	22	123	142	< 5	5	6	1
91DDA0072	3.55	4.70	956	2.27	0.43	0.03	0.23	< 5	61	28	23	30	176	399	< 5	10	6	< 1
91DDA0074	3.40	4.48	822	2.61	0.15	0.03	0.39	6	63	41	22	40	89	1323	< 5	8	7	10
91DDA0076	3.44	5.17	1119	3.07	0.17	0.02	0.34	6	63	41	36	52	125	2072	< 5	8	7	23
91DDA0078	2.14	3.89	691	1.76	0.16	0.02	0.20	< 5	52	30	20	28	58	647	21	7	6	16
91DDA0080	3.00	4.81	994	2.59	0.14	0.03	0.26	< 5	60	34	21	30	91	381	< 5	10	7	4
91DDA0082	2.55	4.28	741	2.09	0.12	0.02	0.18	< 5	56	32	18	28	88	284	< 5	9	6	4
91DDA0084	3.01	4.57	847	2.41	0.12	0.03	0.30	< 5	61	33	18	29	76	401	< 5	9	7	6
91DDA0086	2.07	3.95	626	1.69	0.09	0.02	0.11	< 5	49	29	13	22	60	96	< 5	6	5	1
91DDA0088	2.15	4.19	808	1.85	0.13	0.03	0.16	< 5	57	29	16	23	71	131	< 5	7	6	< 1
91DDA0090	2.19	4.29	1048	2.12	0.18	0.03	0.19	< 5	60	30	17	22	88	178	15	9	7	< 1
91DDA0092	2.38	4.44	865	2.12	0.14	0.03	0.19	< 5	62	32	16	24	105	180	< 5	8	6	3
91DDA0094	2.55	4.92	1730	2.29	0.15	0.03	0.24	6	65	22	18	17	141	186	< 5	9	8	< 1
91DDA0097	3.64	5.27	1913	3.47	0.16	0.03	0.24	6	69	52	24	40	155	643	< 5	10	9	< 1
91DDA0098	2.86	4.81	1272	2.67	0.23	0.03	0.16	< 5	65	39	19	28	74	147	5	14	8	< 1

Appendix B.4 Geochemical data for Blue Mountain grid

Sample Number	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
91DDA0100	2.73	5.59	550	2.14	0.04	0.03	0.14	<5	35	37	12	31	53	126	25	6	5	<1
91DDA0102	3.23	8.55	1013	2.55	0.02	0.03	0.14	<5	34	53	32	51	94	111	12	4	5	1
91DDA0104	3.23	7.36	665	2.54	0.02	0.03	0.13	<5	35	48	10	29	58	123	28	6	5	2
91DDA0106	3.31	9.32	741	2.82	0.02	0.03	0.16	<5	34	55	14	34	98	127	12	5	6	<1
91DDA0108	4.28	>10.00	705	2.01	0.06	0.02	0.26	<5	48	36	14	27	88	509	63	6	5	4
91DDA0110	5.05	5.46	453	1.83	0.21	0.02	0.09	<5	54	29	12	29	71	561	<5	7	7	2
91DDA0112	3.04	7.51	486	2.24	0.02	0.02	0.11	<5	35	46	10	36	59	127	34	4	6	1
91DDA0114	4.09	8.88	1632	2.65	0.10	0.03	0.25	6	61	38	51	39	203	688	106	8	8	3
91DDA0116	5.29	4.58	623	2.28	0.11	0.03	0.21	<5	54	33	16	32	87	444	<5	8	8	5
91DDA0118	6.41	4.52	1633	2.43	0.13	0.03	0.12	8	102	47	21	21	48	241	<5	11	8	<1
91DDA0120	5.53	4.72	2880	3.59	0.16	0.03	0.17	8	72	32	20	19	505	296	<5	14	8	<1
91DDA0122	3.77	8.59	732	2.28	0.04	0.03	0.15	<5	45	47	8	20	99	137	25	5	5	3
91DDA0124	7.32	5.05	587	1.56	0.08	0.03	0.13	8	57	41	18	23	86	332	<5	5	7	1
91DDA0126	5.99	4.46	627	1.68	0.05	0.02	0.13	<5	44	33	19	28	73	391	<5	6	6	<1
91DDA0128	3.63	4.15	1319	2.32	0.15	0.03	0.16	<5	59	35	20	23	77	210	<5	11	7	<1
91DDA0130	2.14	3.63	569	1.66	0.14	0.02	0.10	<5	60	26	11	18	46	111	9	11	5	<1
91DDA0141	2.00	4.36	1255	1.85	0.14	0.03	0.16	<5	54	29	26	27	106	201	9	8	8	2
91DDA0143	3.03	4.96	1763	4.53	0.57	0.03	0.17	8	99	72	25	41	461	205	<5	25	8	2
91DDA0145	2.73	4.28	1060	2.50	0.35	0.03	0.16	6	75	27	18	22	120	149	<5	21	8	<1
91DDA0147	2.01	4.29	671	1.90	0.15	0.03	0.14	<5	63	29	14	22	60	139	<5	10	6	<1
91DDA0149	3.04	4.84	1228	3.05	0.47	0.04	0.20	7	83	37	18	23	77	165	9	33	10	<1
91DDA0151	3.35	5.00	1270	3.35	0.50	0.04	0.27	8	83	39	18	28	93	234	<5	41	13	<1
91DDA0153	3.36	4.80	1141	3.19	0.34	0.04	0.19	8	85	37	18	23	70	161	8	28	8	<1
91DDA0155	3.91	4.84	1188	3.04	0.29	0.03	0.14	7	88	32	18	20	72	174	<5	25	8	2
91DDA0157	2.45	4.55	1427	2.67	0.41	0.03	0.13	6	80	29	16	18	64	162	14	27	8	<1
91DDA0159	2.18	4.72	1000	1.92	0.09	0.02	0.16	<5	39	29	26	31	91	380	6	6	9	1
91DDA0161	3.28	5.01	2454	3.57	0.37	0.03	0.15	8	80	27	19	20	83	304	7	23	10	<1
91DDA0163	2.76	4.96	1172	2.63	0.40	0.03	0.14	6	91	29	16	17	99	205	<5	28	9	<1
91DDA0165	3.51	5.05	1000	3.70	0.58	0.04	0.25	8	83	40	20	30	105	175	7	45	15	1
91DDA0167	2.97	4.70	1006	3.09	0.40	0.03	0.16	6	80	37	18	24	76	145	19	29	8	<1
91DDA0169	3.75	6.33	2480	3.82	0.36	0.03	0.13	9	114	28	24	18	119	386	<5	40	9	<1
91DDA0171	3.08	5.42	1402	3.14	0.34	0.03	0.20	6	83	32	19	24	99	259	<5	21	9	<1
91DDA0174	4.01	5.10	1412	3.19	0.16	0.03	0.32	7	78	40	20	32	126	381	<5	14	9	<1

Appendix B.4 Geochemical data for Blue Mountain grid

Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
91DDA0029	1.4	0.4	31	22	24	33	15	< 20	476	15	5
91DDA0030	0.6	1.6	< 20	13	21	39	21	< 20	276	10	2
91DDA0032	0.7	< 0.2	< 20	12	20	52	27	< 20	269	11	2
91DDA0034	1.0	1.4	32	11	17	41	23	< 20	3454	14	2
91DDA0036	0.5	0.4	< 20	< 5	14	61	20	< 20	647	31	8
91DDA0038	0.6	0.8	< 20	< 5	14	97	25	< 20	209	10	< 1
91DDA0040	0.5	1.6	< 20	7	11	115	20	< 20	84	13	3
91DDA0042	0.4	1.8	< 20	7	13	91	19	< 20	111	22	29
91DDA0044	0.7	1.5	< 20	< 5	19	73	21	< 20	144	15	< 3
91DDA0046	0.8	1.4	21	< 5	27	41	15	< 20	440	14	10
91DDA0048	1.0	0.5	< 20	< 5	27	28	16	< 20	159	5	2
91DDA0050	0.3	1.2	< 20	< 5	16	61	20	< 20	152	7	2
91DDA0052	0.5	1.7	< 20	9	15	33	23	< 20	41	< 5	1
91DDA0054	0.6	0.9	< 20	7	16	36	22	< 20	75	7	< 1
91DDA0056	0.5	1.6	< 20	7	15	38	24	< 20	264	< 5	< 1
91DDA0058	0.8	2.2	23	14	25	37	27	< 20	154	7	6
91DDA0060	0.5	0.9	< 20	9	15	64	30	< 20	175	8	10
91DDA0062	0.5	0.6	< 20	5	< 10	64	28	< 20	143	12	4
91DDA0064	0.6	0.6	< 20	7	12	76	29	< 20	104	9	3
91DDA0066	0.5	0.7	< 20	< 5	16	42	25	< 20	39	9	< 1
91DDA0068	0.6	1.8	< 20	9	12	35	29	< 20	202	13	3
91DDA0070	0.3	1.6	< 20	< 5	13	60	16	< 20	67	< 5	< 3
91DDA0072	0.5	1.4	< 20	< 5	16	49	21	< 20	133	13	5
91DDA0074	0.6	2.9	< 20	< 5	14	64	30	< 20	376	6	< 1
91DDA0076	0.6	3.3	< 20	6	< 10	49	26	< 20	477	8	3
91DDA0078	0.5	1.2	< 20	5	< 10	36	22	< 20	208	6	12
91DDA0080	0.5	1.5	< 20	< 5	12	64	27	< 20	122	8	3
91DDA0082	0.5	1.8	< 20	7	14	50	26	< 20	100	5	12
91DDA0084	0.4	1.3	< 20	8	12	79	29	< 20	137	< 5	5
91DDA0086	0.4	0.9	< 20	< 5	10	44	24	< 20	35	< 5	5
91DDA0088	0.5	< 0.2	< 20	7	11	69	24	< 20	45	< 5	18
91DDA0090	0.6	1.3	< 20	6	14	142	21	< 20	51	6	9
91DDA0092	0.4	1.3	< 20	8	< 10	97	26	< 20	57	7	7
91DDA0094	0.4	1.0	< 20	7	15	380	24	< 20	75	8	18
91DDA0097	0.4	1.3	< 20	< 5	12	138	25	< 20	144	6	14
91DDA0098	0.5	< 0.2	< 20	7	12	122	25	< 20	43	6	5

Appendix B.4 Geochemical data for Blue Mountain grid

Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
91DDA0100	0.5	0.6	< 20	7	13	44	30	< 20	62	7	< 1
91DDA0102	0.6	1.0	< 20	9	15	33	44	< 20	49	9	< 1
91DDA0104	0.6	0.9	< 20	8	16	46	38	< 20	109	8	< 1
91DDA0106	0.4	0.3	21	12	21	52	48	< 20	115	6	2
91DDA0108	0.7	2.2	< 20	8	25	55	26	< 20	1505	12	1
91DDA0110	0.6	1.9	< 20	< 5	20	34	21	< 20	252	12	9
91DDA0112	0.7	2.0	< 20	8	14	29	46	< 20	63	9	< 1
91DDA0114	0.7	1.0	< 20	11	17	72	27	< 20	1046	20	3
91DDA0116	1.0	0.9	22	< 5	14	63	22	< 20	129	9	< 1
91DDA0118	0.6	0.3	< 20	8	15	52	11	< 20	65	< 5	< 1
91DDA0120	3.8	1.3	24	8	12	92	14	< 20	94	5	22
91DDA0122	0.8	0.9	< 20	13	18	33	26	< 20	126	7	2
91DDA0124	0.9	1.3	< 20	< 5	24	37	18	< 20	155	6	1
91DDA0126	0.6	0.8	< 20	< 5	14	41	18	< 20	131	7	< 1
91DDA0128	0.5	1.6	< 20	6	12	385	21	< 20	58	< 5	7
91DDA0130	0.5	< 0.2	< 20	6	13	72	14	< 20	30	< 5	3
91DDA0141	0.3	1.5	< 20	7	12	43	29	< 20	99	5	8
91DDA0143	0.3	0.2	< 20	10	13	89	17	< 20	40	8	6
91DDA0145	0.5	1.6	< 20	9	14	80	19	< 20	37	< 5	8
91DDA0147	0.3	< 0.2	< 20	7	10	48	25	< 20	48	6	< 1
91DDA0149	0.5	1.0	< 20	7	14	181	18	< 20	39	6	7
91DDA0151	0.3	1.3	< 20	5	11	237	18	< 20	45	6	8
91DDA0153	0.5	0.3	< 20	5	12	133	16	< 20	36	< 5	7
91DDA0155	0.3	0.7	< 20	< 5	15	80	13	< 20	45	5	19
91DDA0157	0.4	1.4	< 20	9	16	116	14	< 20	33	< 5	7
91DDA0159	0.3	0.9	< 20	8	< 10	41	35	< 20	78	5	1
91DDA0161	0.4	< 0.2	< 20	7	11	127	15	< 20	56	5	6
91DDA0163	0.3	1.6	< 20	< 5	< 10	189	16	< 20	107	< 5	11
91DDA0165	0.5	2.4	< 20	6	< 10	352	18	< 20	35	7	13
91DDA0167	0.4	0.7	< 20	6	11	113	15	< 20	51	7	11
91DDA0169	0.5	1.7	< 20	7	17	435	17	< 20	175	6	3
91DDA0171	0.5	1.2	< 20	7	13	169	22	< 20	47	6	5
91DDA0174	0.5	1.2	< 20	< 5	12	217	25	< 20	94	6	8

LEGEND

Blue Mountain Area

CAMBRIAN

LATE CAMBRIAN

- 14 *MACNEIL FORMATION*: grey shale, siltstone; black limestone

MIDDLE CAMBRIAN

- 13 *MACLEAN BROOK FORMATION*: grey quartz sandstone, siltstone, shale
- 12 *TROUT BROOK FORMATION*: grey to red-brown cleaved shale and siltstone

EARLY CAMBRIAN

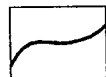
- 10 *CANOE BROOK FORMATION*: red-brown calcareous mudstone, siltstone; rare pink limestone
- 9 *MACCODRUM FORMATION*: light grey to green micaceous siltstone, sandstone
- 8 white quartz arenite

LATE PRECAMBRIAN TO EARLY CAMBRIAN

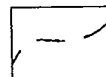
- 5 maroon to red quartzite, quartz pebble conglomerate; micaceous sandstone
- FOURCHU GROUP (INCLUDING UNITS OF THE MAIN A DIEU SEQUENCE AND COASTAL AND STIRLING BELTS)
- 3 Volcanogenic Sediments: volcanic conglomerate, wacke, siltstone intercalated with volcanic flow and pyroclastic units
- 2 Intermediate to Felsic Volcanics: 2a, dacitic to rhyolitic flows; 2b, dacitic to rhyolitic tuff, quartz-feldspar crystal tuff; 2c, undivided
- 1 Mafic to Intermediate Volcanics: 1a, basalt to andesite flows; 1b, tuff, lapilli tuff, basalt to andesite lithic crystal tuff; 1c, undivided



contact metamorphic aureole



fault

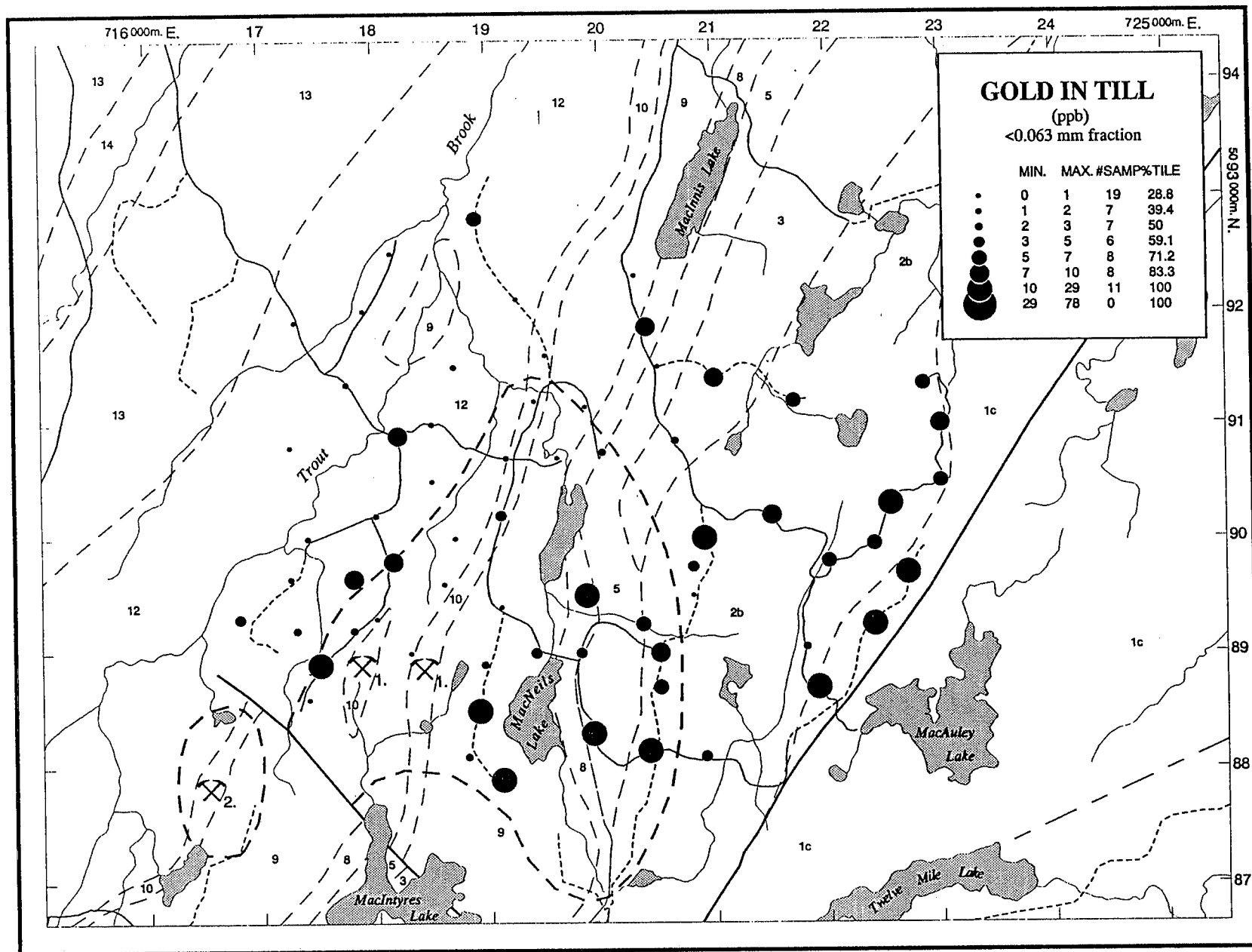


geological boundary



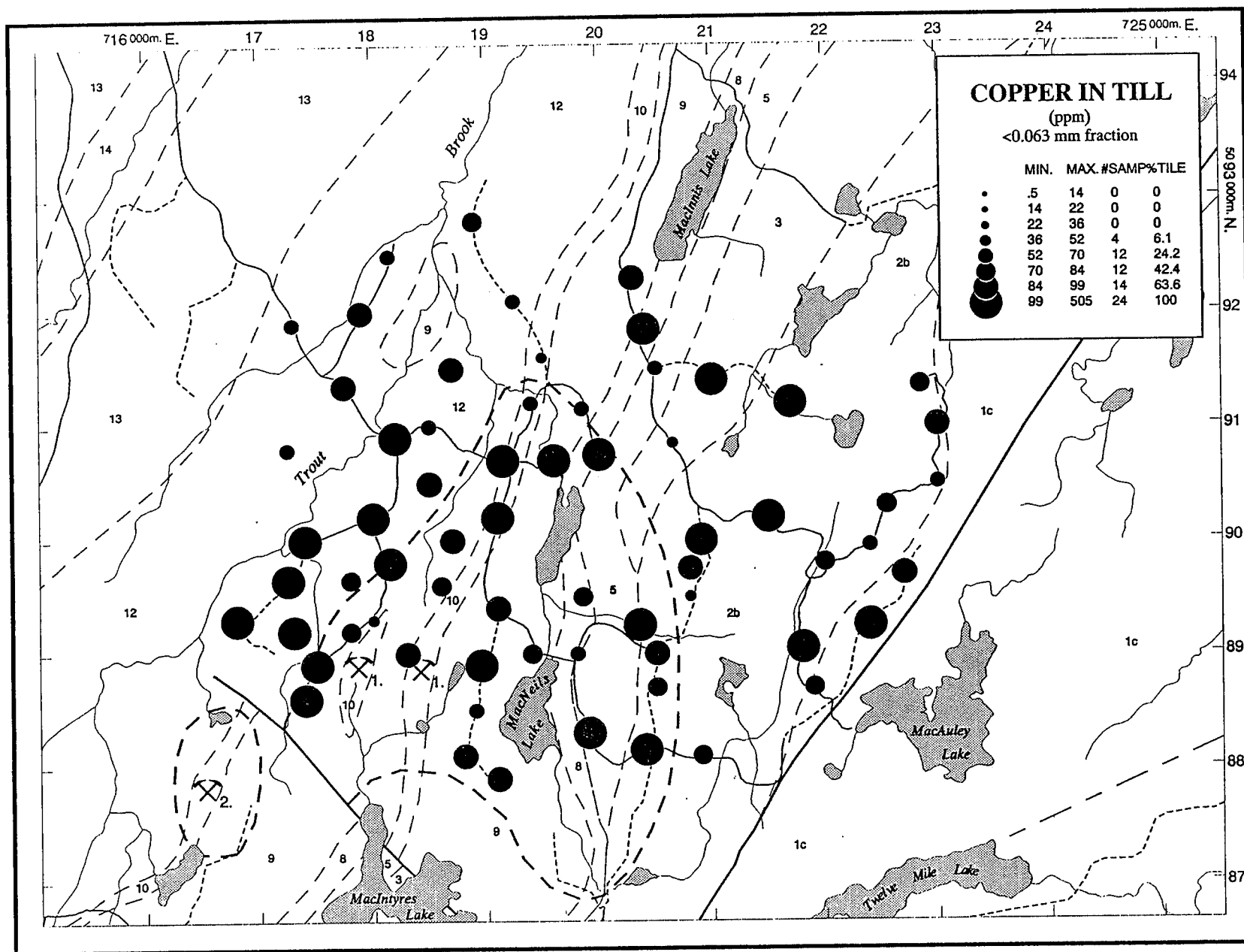
metallic mineral occurrence

1. Macdonald Lake Pb-Zn
2. Copper Shaft Cu-Zn-Pb-Mo-Ag-Bi



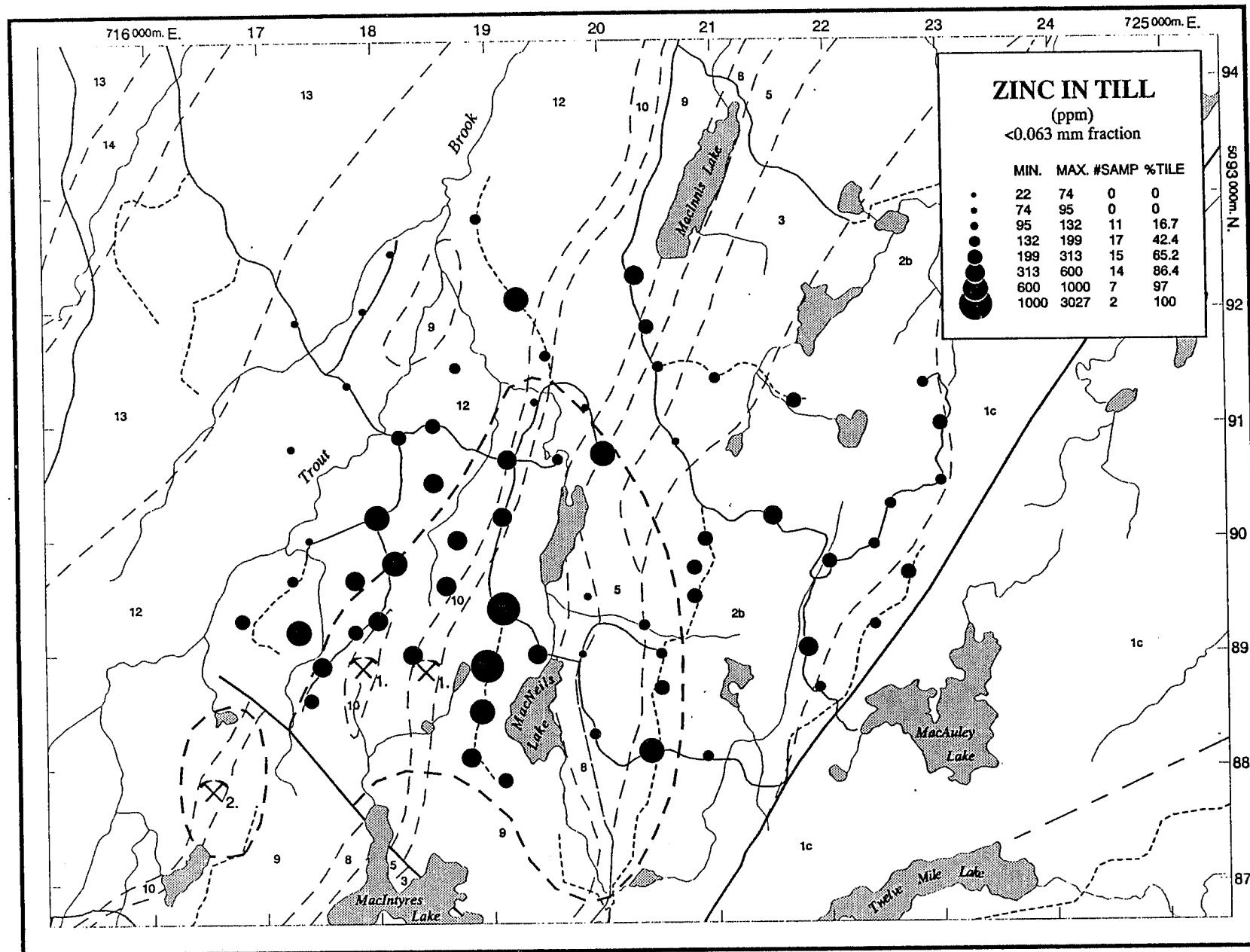
Detailed Till Sampling Survey — Blue Mountain Area

SCALE 1:50 000



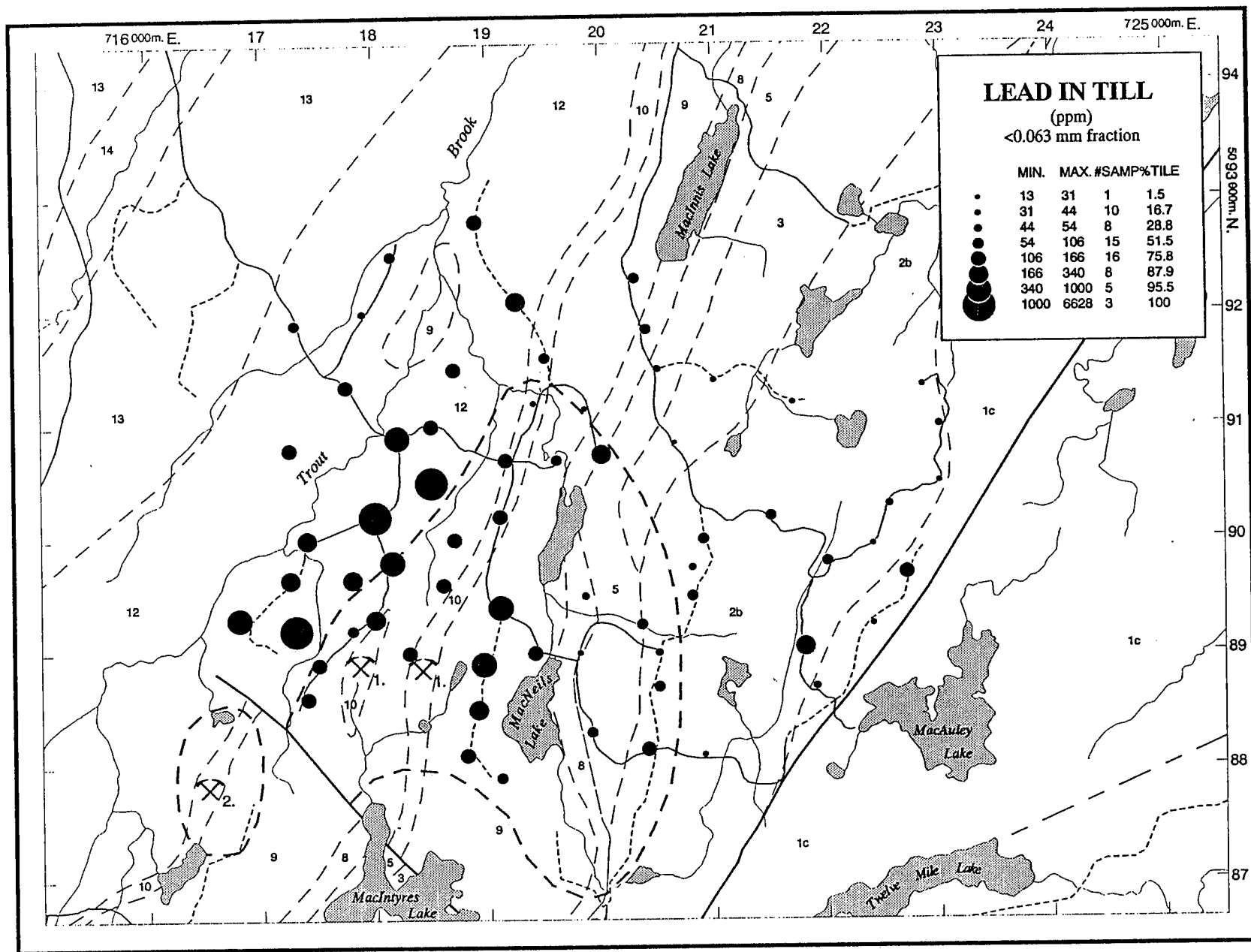
Detailed Till Sampling Survey — Blue Mountain Area

SCALE 1:50 000



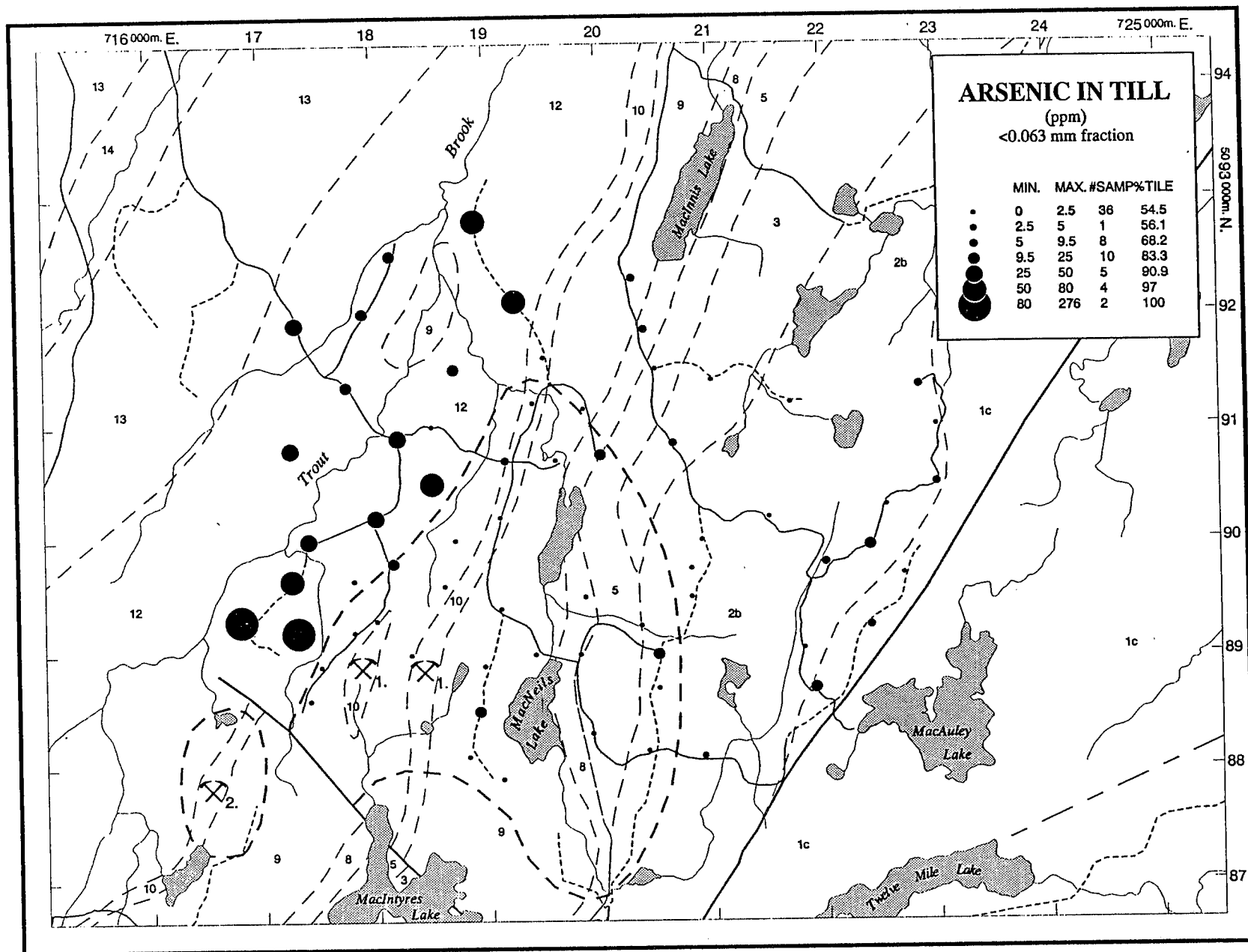
Detailed Till Sampling Survey — Blue Mountain Area

SCALE 1:50 000



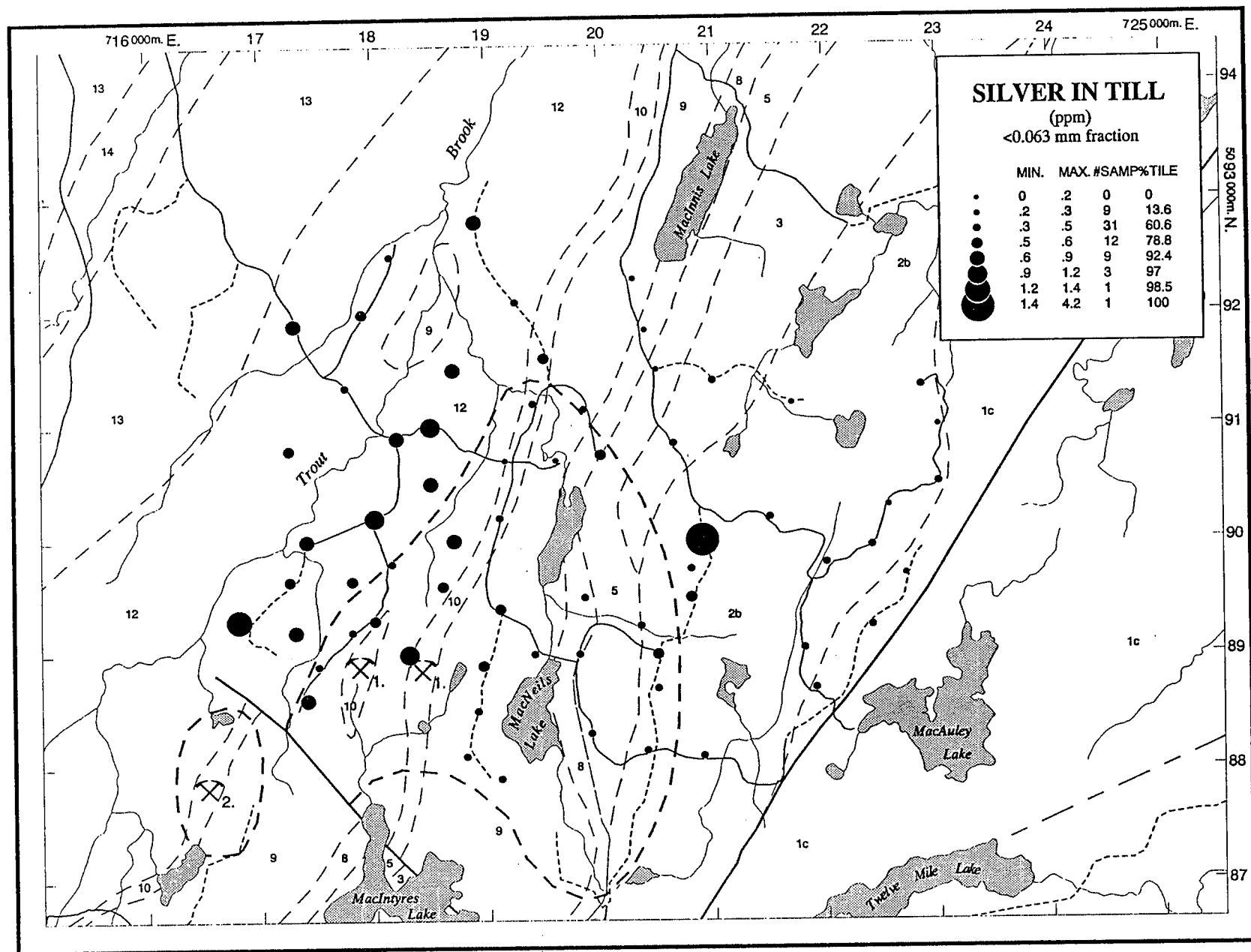
Detailed Till Sampling Survey — Blue Mountain Area

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Detailed Till Sampling Survey — Blue Mountain Area

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Detailed Till Sampling Survey — Blue Mountain Area

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APPENDIX B.5 Stirling area till geochemical data for the <0.063 mm fraction

	page
Data listing.....	137
Proportional symbol maps	
Bedrock map legend.....	141
Au.....	142
Pb.....	143
Zn.....	144
Cu.....	145
Ca.....	146

Appendix B.5 Till geochemical data for Stirling Grid

Sample Number	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
91DDA0175	2.38	3.97	1108	2.46	0.38	0.03	0.19	6	53	34	16	32	46	143	< 5	27	18	1
91DDA0177	2.07	3.71	1183	2.37	0.52	0.03	0.20	5	48	31	15	27	38	153	< 5	32	14	2
91DDA0179	2.64	4.18	1133	2.87	0.33	0.03	0.21	6	55	39	18	34	49	134	< 5	32	16	1
91DDA0181	2.33	3.59	1072	2.24	0.31	0.03	0.22	5	49	31	15	31	46	137	< 5	28	9	< 1
91DDA0185	2.50	3.61	1188	2.42	0.18	0.03	0.16	9	49	34	17	29	40	183	< 5	22	7	< 1
91DDA0187	3.23	4.30	904	3.12	0.18	0.03	0.19	10	62	52	19	38	44	182	< 5	25	7	< 1
91DDA0189	3.14	3.89	827	2.73	0.25	0.03	0.15	9	57	47	21	33	44	228	< 5	24	8	< 1
91DDA0191	3.44	3.92	378	2.10	0.32	0.02	0.08	6	62	41	12	24	26	93	< 5	26	5	< 1
91DDA0193	2.96	4.08	803	2.80	0.16	0.03	0.17	8	58	42	17	36	43	99	< 5	23	6	< 1
91DDA0195	2.48	4.10	1161	2.72	0.48	0.03	0.20	8	57	38	18	36	51	157	< 5	33	16	< 1
91DDA0197	1.80	3.01	970	2.00	0.43	0.03	0.15	6	42	29	13	25	30	86	< 5	57	11	3
91DDA0199	2.45	3.46	826	2.55	0.23	0.03	0.17	7	51	36	16	31	34	94	< 5	27	7	< 1
91DDA0201	3.02	3.84	1053	2.71	0.26	0.03	0.18	6	57	41	21	35	47	105	< 5	31	8	< 1
91DDA0203	2.52	3.31	877	2.27	0.23	0.03	0.08	5	57	29	20	23	51	107	5	22	6	< 1
91DDA0205	2.65	4.29	1176	2.65	0.37	0.03	0.26	7	54	39	20	35	48	162	< 5	30	16	2
91DDA0207	1.89	3.43	936	1.96	0.20	0.03	0.14	< 5	43	30	16	26	36	95	< 5	20	9	< 1
91DDA0209	2.66	3.70	1139	2.42	0.15	0.03	0.17	7	52	39	16	31	40	117	< 5	21	9	< 1
91DDA0211	2.30	3.75	1070	2.33	0.49	0.03	0.26	6	47	29	15	28	36	134	< 5	36	14	< 1
91DDA0213	2.65	4.14	869	2.69	0.58	0.03	0.26	7	57	31	15	27	41	131	< 5	44	15	2
91DDA0215	2.51	3.99	1182	2.67	0.51	0.04	0.30	7	53	36	18	36	40	123	< 5	34	15	2
91DDA0217	1.96	3.33	971	2.30	2.28	0.03	0.23	5	44	27	13	27	30	118	< 5	42	12	2
91DDA0219	2.89	4.27	1312	3.05	0.53	0.03	0.23	8	63	40	20	36	70	152	< 5	41	17	1
91DDA0221	2.52	4.07	927	3.16	2.75	0.03	0.27	7	54	49	15	36	89	492	7	44	13	2
91DDA0223	2.84	3.82	889	2.64	0.30	0.03	0.19	5	52	38	18	34	36	117	< 5	28	7	< 1
91DDA0225	2.39	3.22	741	2.15	0.13	0.02	0.16	< 5	41	29	17	32	25	114	< 5	18	5	< 1
91DDA0227	3.46	2.87	438	1.60	0.18	0.03	0.09	< 5	38	28	11	23	35	137	< 5	15	7	2
91DDA0229	3.03	4.30	795	2.61	0.17	0.03	0.25	7	56	44	17	34	45	175	< 5	24	8	2
91DDA0231	3.10	4.36	1180	2.97	0.21	0.03	0.20	8	60	43	19	32	55	763	< 5	27	8	< 1
91DDA0238	1.51	3.07	1111	1.27	0.16	0.03	0.17	< 5	41	19	12	12	39	47	< 5	17	10	< 1
91DDA0240	2.92	3.67	1346	2.22	0.21	0.03	0.13	< 5	55	42	17	30	35	131	< 5	28	9	3
91DDA0241	2.13	3.60	857	2.67	1.99	0.03	0.19	6	47	36	15	29	39	135	< 5	35	12	4
91DDA0243	2.51	4.25	1028	2.66	0.37	0.03	0.19	7	53	40	17	32	54	128	< 5	24	18	< 1
91DDA0245	2.81	4.54	1176	3.06	0.26	0.03	0.21	8	59	48	19	35	60	199	< 5	25	16	< 1
91DDA0247	2.49	3.71	1016	2.41	0.15	0.02	0.16	5	49	32	17	28	41	124	< 5	17	8	1
91DDA0249	2.64	4.16	874	2.15	0.09	0.03	0.12	5	46	31	16	25	32	122	< 5	14	5	< 1
91DDA0251	2.28	3.97	1031	2.51	0.14	0.02	0.13	7	54	41	17	28	37	114	< 5	17	10	< 1

Appendix B.5 Till geochemical data for Stirling Grid

Sample Number	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
91DDA0253	2.59	3.89	856	2.72	0.12	0.02	0.14	6	53	48	16	32	35	124	< 5	17	6	< 1
91DDA0255	3.05	3.62	524	2.31	0.11	0.02	0.15	< 5	45	35	13	25	21	107	< 5	15	6	< 1
91DDA0257	4.24	5.54	1233	3.40	0.11	0.02	0.12	8	98	116	21	42	51	185	< 5	14	10	1
91DDA0259	2.45	4.20	1357	3.03	0.24	0.02	0.14	8	65	57	21	37	65	95	< 5	18	10	< 1
91DDA0261	2.39	3.97	1115	2.94	0.22	0.02	0.10	6	62	53	21	34	49	89	< 5	17	7	< 1
91DDA0263	2.24	3.49	623	1.91	0.12	0.02	0.11	< 5	45	29	14	27	37	103	< 5	14	7	< 1
91DDA0265	2.22	3.32	1145	2.59	0.33	0.03	0.12	< 5	51	33	18	27	46	134	< 5	28	8	< 1
91DDA0267	2.78	3.65	599	2.28	0.13	0.02	0.14	< 5	51	35	15	29	33	120	< 5	18	7	< 1
91DDA0269	2.24	3.17	986	1.93	0.16	0.02	0.12	< 5	46	31	15	26	50	100	< 5	14	11	< 1
91DDA0271	2.61	3.66	970	2.95	0.23	0.02	0.10	6	68	59	19	31	54	92	< 5	19	9	< 1
91DDA0460	3.82	3.92	352	1.56	0.10	0.07	0.06	6	61	46	11	19	25	82	- 5	11	10	2
91DDA0478	3.76	5.41	276	1.07	0.16	0.07	0.05	6	106	33	6	11	13	61	- 5	12	5	2

Appendix B.5 Till geochemical data for Stirling Grid

Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
91DDA0175	0.4	0.4	< 20	6	12	206	27	< 20	48	5	< 1
91DDA0177	0.3	< 0.2	< 20	8	< 10	234	23	< 20	34	< 5	1
91DDA0179	0.5	0.3	< 20	7	15	125	35	< 20	32	9	1
91DDA0181	0.4	0.5	< 20	6	13	141	28	< 20	33	5	2
91DDA0185	0.4	1.4	20	8	< 10	50	21	< 20	47	< 5	7
91DDA0187	0.4	1.3	< 20	8	15	72	19	< 20	36	< 5	< 1
91DDA0189	0.3	0.9	25	< 5	< 10	51	18	< 20	65	< 5	18
91DDA0191	0.7	< 0.2	< 20	< 5	11	35	14	< 20	21	< 5	< 1
91DDA0193	0.5	1.3	< 20	< 5	< 10	60	17	< 20	19	< 5	< 1
91DDA0195	0.4	0.6	< 20	6	< 10	174	25	< 20	34	< 5	< 1
91DDA0197	0.3	0.5	< 20	6	< 10	192	22	< 20	22	< 5	< 1
91DDA0199	< 0.2	0.7	< 20	7	13	71	19	< 20	22	< 5	1
91DDA0201	0.3	0.9	< 20	< 5	12	60	22	< 20	27	< 5	< 1
91DDA0203	< 0.2	< 0.2	< 20	< 5	12	26	15	< 20	39	< 5	< 1
91DDA0205	0.5	1.6	< 20	6	12	193	26	< 20	36	< 5	3
91DDA0207	0.5	0.7	< 20	7	12	47	21	< 20	31	< 5	< 1
91DDA0209	0.3	0.4	< 20	< 5	< 10	85	23	< 20	28	< 5	< 1
91DDA0211	0.4	1.2	< 20	< 5	< 10	172	26	< 20	31	< 5	< 1
91DDA0213	0.3	1.3	< 20	6	< 10	197	27	< 20	26	< 5	< 1
91DDA0215	0.5	1.4	< 20	6	13	225	26	< 20	29	7	< 1
91DDA0217	0.5	0.5	< 20	6	< 10	197	23	< 20	24	< 5	< 1
91DDA0219	0.4	< 0.2	< 20	8	11	145	30	< 20	36	< 5	< 1
91DDA0221	0.9	0.5	< 20	10	< 10	180	21	< 20	114	< 5	8
91DDA0223	0.4	0.5	< 20	5	10	62	20	< 20	31	5	< 1
91DDA0225	0.4	0.4	< 20	< 5	< 10	49	17	< 20	30	< 5	2
91DDA0227	0.6	0.9	< 20	< 5	12	34	16	< 20	33	< 5	2
91DDA0229	0.6	0.7	< 20	6	11	82	19	< 20	34	< 5	3
91DDA0231	0.4	1.7	< 20	< 5	11	74	20	< 20	61	5	2
91DDA0238	0.4	1.0	< 20	7	13	44	33	< 20	21	6	< 1
91DDA0240	0.2	0.7	< 20	< 5	< 10	91	20	< 20	32	< 5	< 1
91DDA0241	0.4	0.9	23	6	< 10	108	21	< 20	24	6	2
91DDA0243	0.3	< 0.2	< 20	5	< 10	131	30	< 20	30	< 5	< 1
91DDA0245	0.3	0.9	< 20	6	< 10	138	25	< 20	39	< 5	4
91DDA0247	0.3	< 0.2	< 20	6	< 10	69	19	< 20	34	< 5	< 1
91DDA0249	0.3	1.4	< 20	< 5	13	43	13	< 20	31	< 5	< 1
91DDA0251	0.2	1.0	< 20	< 5	11	78	19	< 20	30	5	< 1

Appendix B.5 Till geochemical data for Stirling Grid

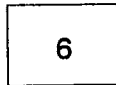
Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
91DDA0253	0.4	0.3	< 20	< 5	< 10	53	14	< 20	23	< 5	< 1
91DDA0255	0.5	< 0.2	< 20	< 5	< 10	44	16	< 20	25	< 5	8
91DDA0257	0.7	1.9	< 20	< 5	16	62	14	< 20	26	< 5	< 1
91DDA0259	0.3	1.5	< 20	7	10	50	21	< 20	20	< 5	< 1
91DDA0261	0.4	0.2	< 20	< 5	< 10	31	18	< 20	23	5	< 1
91DDA0263	0.4	0.5	25	6	< 10	35	16	< 20	31	< 5	2
91DDA0265	0.3	0.7	< 20	< 5	< 10	39	18	< 20	27	< 5	< 1
91DDA0267	0.3	0.5	< 20	< 5	10	40	17	< 20	25	< 5	< 1
91DDA0269	0.4	< 0.2	< 20	< 5	< 10	45	20	< 20	27	< 5	< 1
91DDA0271	0.3	< 0.2	< 20	< 5	< 10	35	16	< 20	24	< 5	2
91DDA0460	0.5	0.3	-20	-5	14	25	14	-20	28	-5	-1
91DDA0478	0.5	0.4	-20	-5	18	16	9	-20	22	-5	-1

LEGEND

Stirling Area

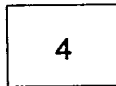
LATE PRECAMBRIAN

INTRUSIVE ROCKS



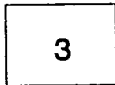
Mafic Intrusives: includes gabbro; mafic porphyry

LATE PRECAMBRIAN TO EARLY CAMBRIAN

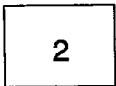


KELVIN GLEN FORMATION: orange arkosic sandstone; purple to grey wacke; micaceous red sandstone

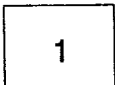
FOURCHU GROUP (INCLUDING UNITS OF THE MAIN À DIEU SEQUENCE AND COASTAL AND STIRLING BELTS)



Volcanogenic Sediments: volcanic conglomerate, wacke, siltstone intercalated with volcanic flow and pyroclastic units



Intermediate to Felsic Volcanics: **2a**, dacitic to rhyolitic flows; **2b**, dacitic to rhyolitic tuff, quartz-feldspar crystal tuff; **2c**, undivided



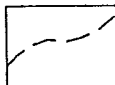
Mafic to Intermediate Volcanics: **1a**, basalt to andesite flows; **1b**, tuff, lapilli tuff, basalt to andesite lithic crystal tuff; **1c**, undivided



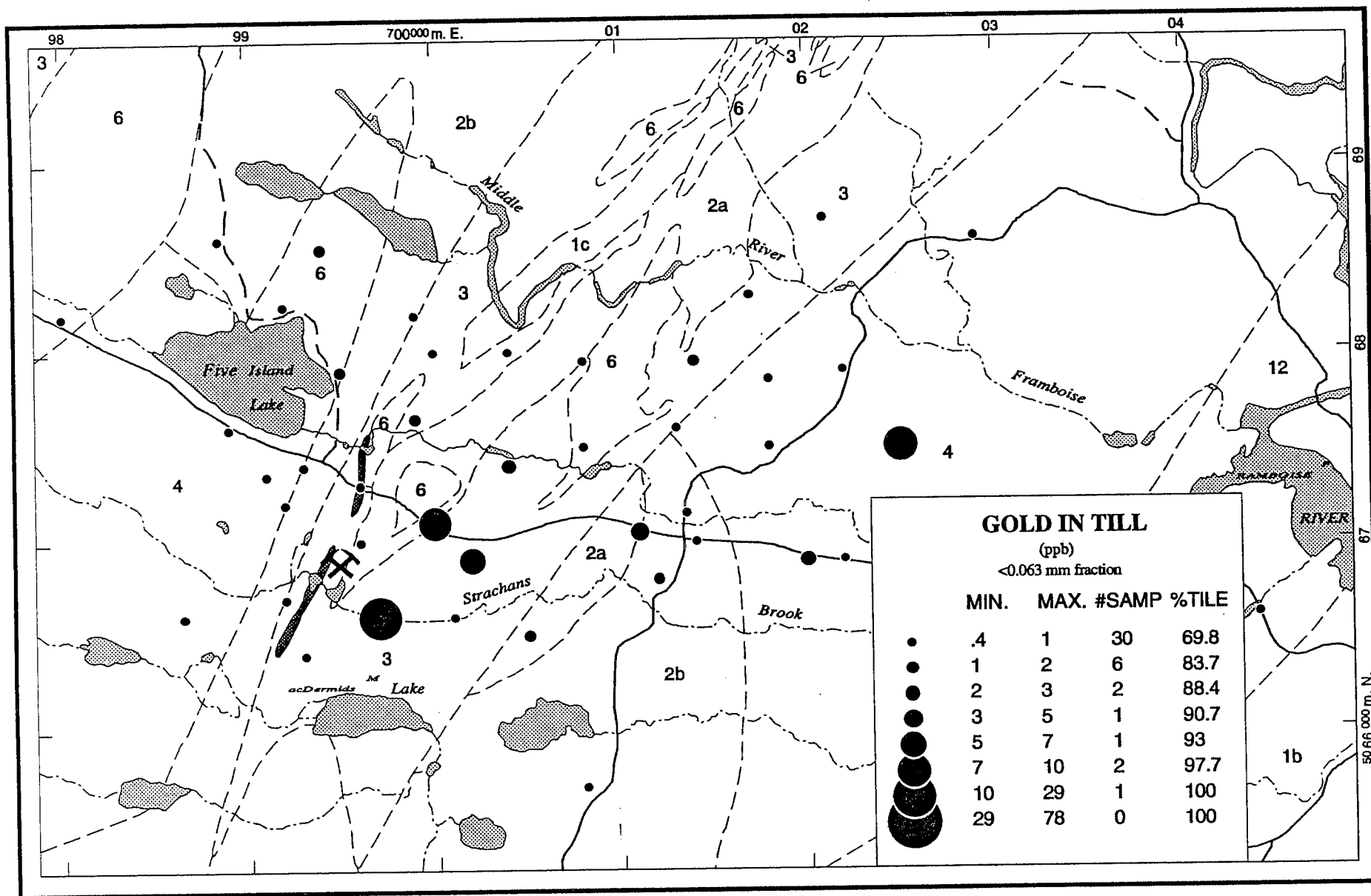
quartz-carbonate schist (alteration and/or chemical precipitates)



Mindamar Mine (Zn, Pb, Cu, Au, Ag)

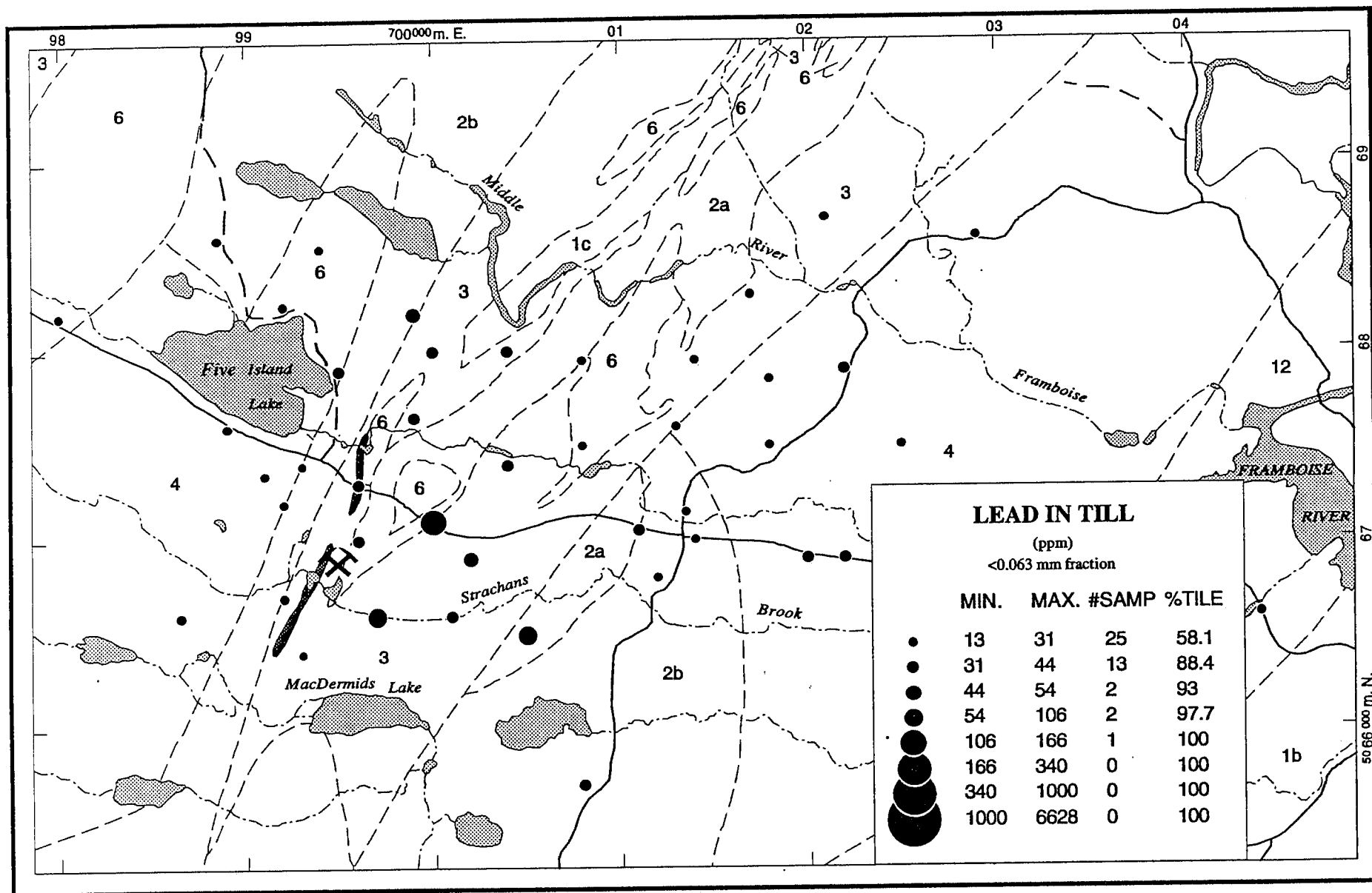


geological boundary



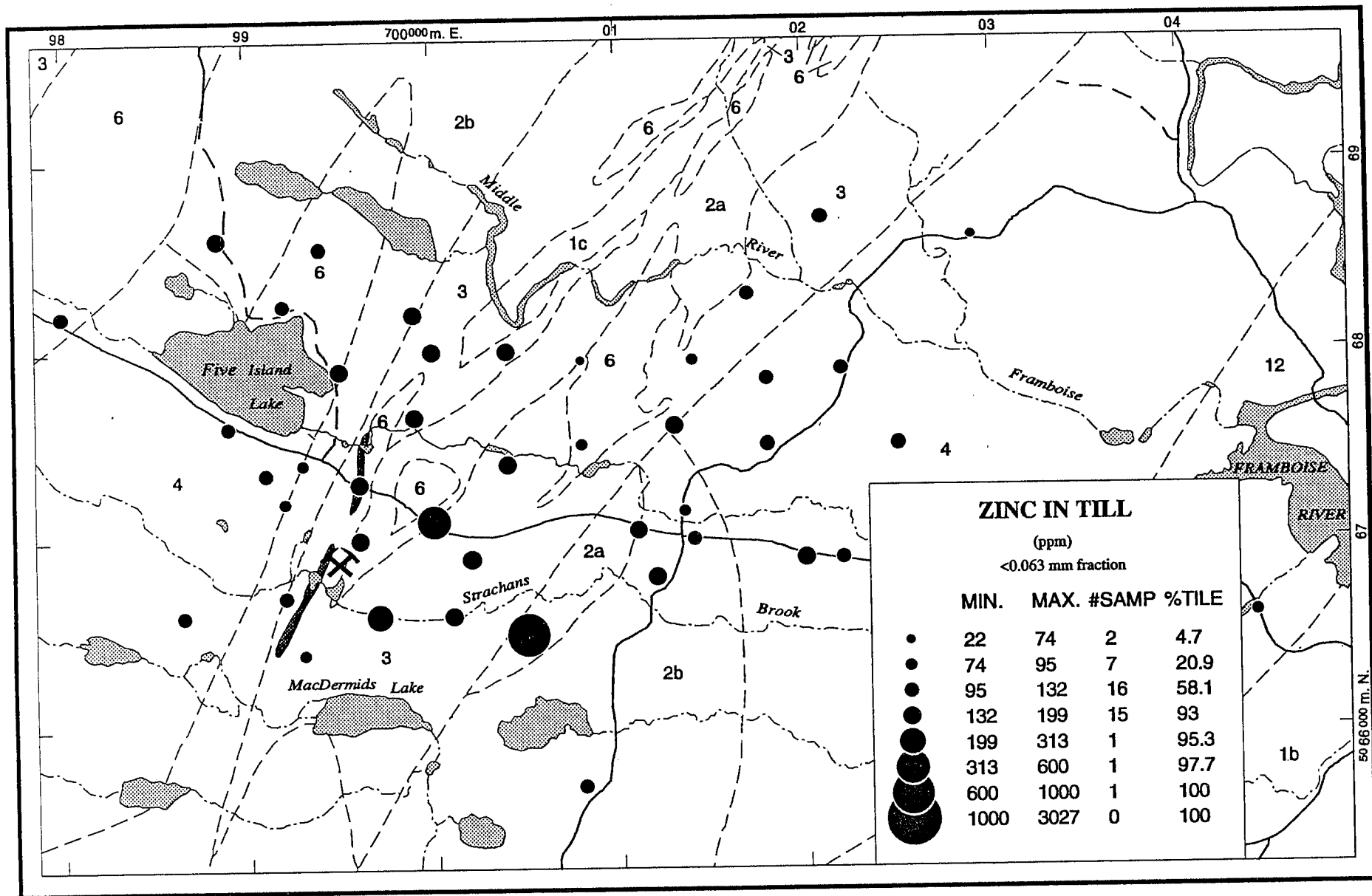
Detailed Till Sampling Survey - Stirling Area

SCALE 1:30 000



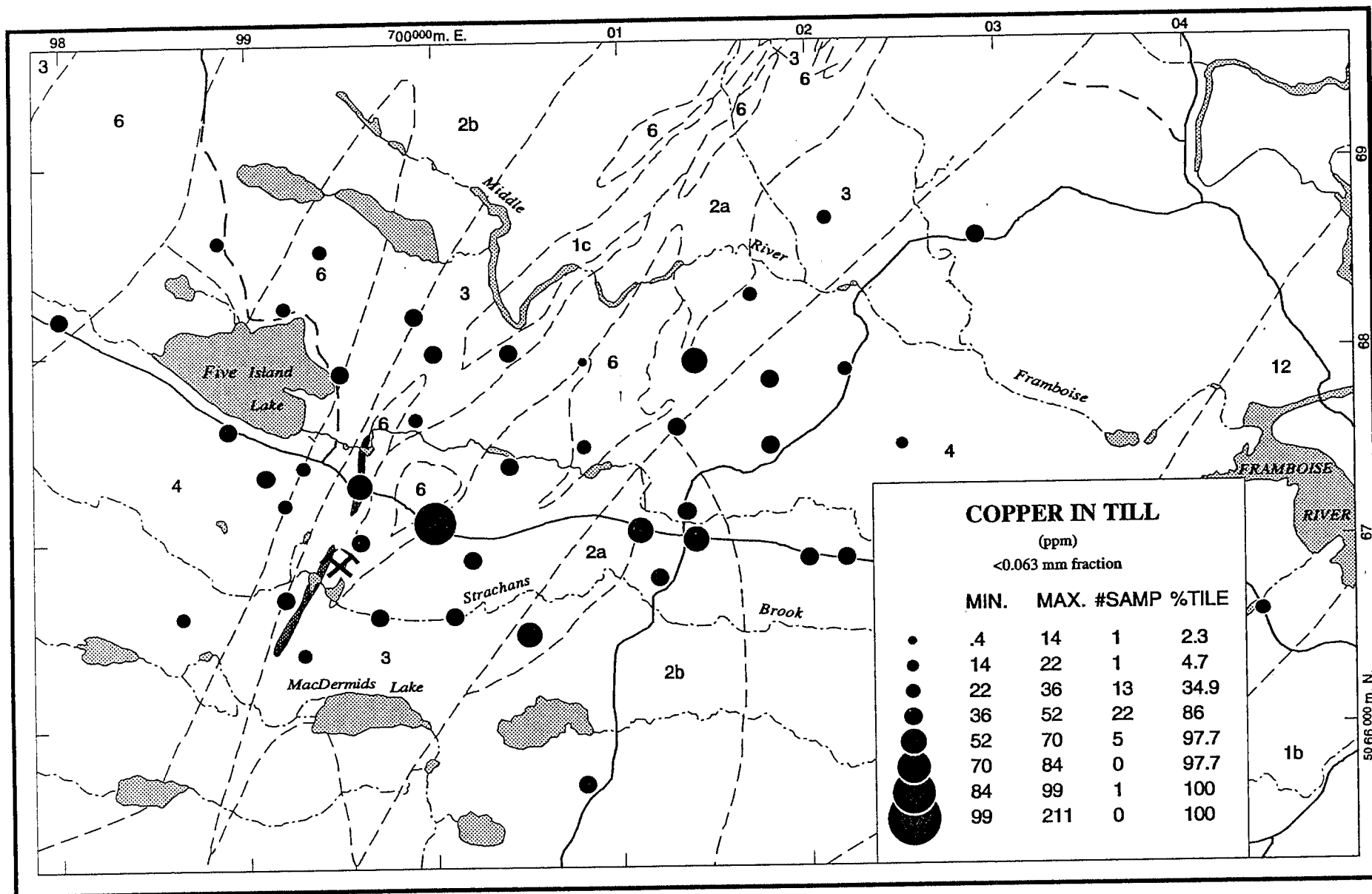
Detailed Till Sampling Survey - Stirling Area

SCALE 1:30 000



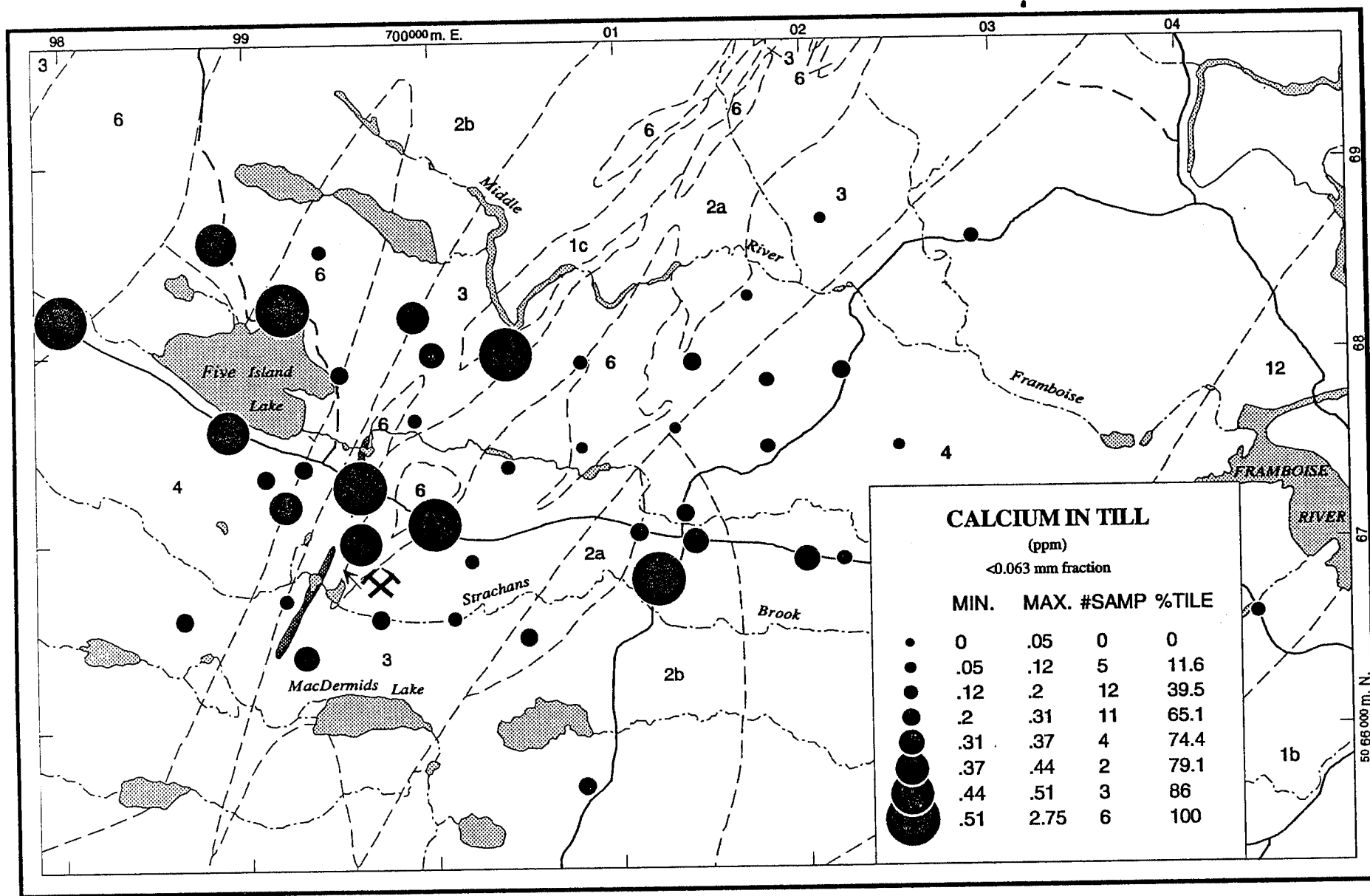
Detailed Till Sampling Survey - Stirling Area

SCALE 1:30 000



Detailed Till Sampling Survey - Stirling Area

SCALE 1:30 000



Detailed Till Sampling Survey - Stirling Area

SCALE 1:30 000

**APPENDIX B.6 Stratigraphic section till geochemical data
for the <0.063 mm fraction**

Appendix B.6 Till geochemistry data for till sections

Sample Number	Section Location	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm
91DDA0001	Hardys Bank	2.62	4.93	1190	3.80	0.81	0.04	0.19	6	65	41	22	35	97	186	<5	28
91DDA0002	Hardys Bank	2.60	5.09	1203	3.76	0.75	0.04	0.19	6	65	42	22	36	85	171	5	24
91DDA0003	Hardys Bank	2.68	5.14	1220	3.87	0.79	0.04	0.19	7	65	42	22	38	96	176	6	25
91DDA0004	Hardys Bank	2.71	4.99	1258	4.03	0.78	0.04	0.19	7	68	45	24	35	103	177	<5	26
91DDA0005	Hardys Bank	2.80	5.23	1555	4.19	0.79	0.04	0.19	7	70	50	25	40	109	185	<5	27
91DDA0006	Hardys Bank	2.76	5.29	1612	3.99	0.55	0.04	0.20	7	68	57	25	41	114	203	<5	24
91DDA0007	Hardys Bank	2.75	5.36	1925	3.92	0.53	0.05	0.20	7	69	48	24	38	126	263	19	24
91DDA0008	Hardys Bank	2.79	5.42	1695	3.92	0.53	0.05	0.21	7	71	48	26	38	146	242	23	24
91DDA0009	Hardys Bank	2.65	5.09	1085	3.80	0.93	0.03	0.20	6	63	38	22	37	88	174	<5	22
91DDA0010	Hardys Bank	2.60	4.92	1119	3.62	0.82	0.03	0.20	6	60	36	22	34	81	158	6	21
91DDA0011	Hardys Bank	2.65	5.06	1073	3.66	0.75	0.03	0.21	6	61	42	22	36	85	159	17	20
91DDA0012	Hardys Bank	2.70	5.17	1268	3.63	0.48	0.04	0.20	6	63	38	22	36	88	169	7	20
91DDA0013	Hardys Bank	2.90	5.51	1264	3.64	0.48	0.04	0.21	7	67	42	23	36	93	177	8	22
91DDA0014	Hardys Bank	2.58	4.98	922	3.26	0.37	0.03	0.19	6	58	36	18	35	72	149	<5	19
91DDA0021	Morrisons Cove	2.78	5.29	1317	3.57	0.44	0.04	0.28	6	67	35	23	32	101	273	34	21
91DDA0022	Morrisons Cove	2.57	4.77	991	3.30	0.42	0.04	0.26	5	61	32	21	32	96	243	31	22
91DDA0023	Morrisons Cove	2.69	5.06	1119	3.54	0.51	0.03	0.27	6	64	35	22	32	97	247	41	23
91DDA0024	Morrisons Cove	2.68	5.05	1068	3.56	0.51	0.03	0.27	6	64	34	22	33	98	249	29	23
91DDA0025	Morrisons Cove	2.85	5.35	1111	3.70	0.54	0.03	0.29	6	68	42	23	36	104	269	36	24
91DDA0026	Morrisons Cove	2.71	5.12	1037	3.55	0.51	0.03	0.28	6	65	35	22	32	103	260	46	22
91DDA0027	Morrisons Cove	2.78	5.22	1076	3.66	0.54	0.03	0.28	6	66	34	22	33	100	262	33	23
91DDA0132	Capelin Cove	2.17	3.73	1035	2.87	1.29	0.04	0.24	<5	42	35	16	34	32	101	<5	32
91DDA0133	Capelin Cove	2.14	3.69	784	3.04	1.57	0.04	0.24	<5	42	29	15	32	32	92	<5	35
91DDA0134	Capelin Cove	2.21	3.80	1102	3.00	1.52	0.05	0.26	<5	43	30	16	32	33	92	<5	37
91DDA0135	Capelin Cove	2.04	3.17	923	2.44	0.41	0.04	0.24	<5	36	23	12	23	29	81	<5	28
91DDA0136	Capelin Cove	1.63	2.40	800	2.04	0.40	0.03	0.14	<5	33	18	10	16	32	70	<5	25
91DDA0137	Capelin Cove	1.76	2.57	749	2.15	0.44	0.03	0.16	<5	34	17	11	15	43	88	<5	29
91DDA0138	Capelin Cove	1.63	2.41	756	1.95	0.39	0.03	0.16	<5	31	16	11	14	47	80	7	26
91DDA0184	MacKays Point	2.60	4.30	579	2.42	0.29	0.03	0.20	<5	48	17	8	13	103	74	<5	35
91DDA0233	North Capelin Cove	3.12	4.57	1220	4.37	0.75	0.03	0.17	6	65	51	27	40	71	133	<5	49
91DDA0235	North Capelin Cove	2.33	3.87	1042	2.58	0.34	0.04	0.25	5	42	29	15	32	33	102	<5	30
91DDA0272	Rattling Brook	3.40	4.89	1135	5.44	0.31	0.03	0.13	12	91	30	29	22	559	206	<5	24
91DDA0273	Rattling Brook	3.32	4.08	1036	4.91	0.40	0.03	0.13	8	73	36	20	35	143	290	<5	33
91DDA0274	Rattling Brook	3.39	4.22	1089	5.30	0.50	0.03	0.12	8	79	39	23	32	194	416	<5	44
91DDA0275	Rattling Brook	3.44	4.55	1071	5.39	0.35	0.03	0.13	10	85	31	25	26	426	229	<5	30
91DDA0276	Rattling Brook	3.61	4.71	1113	6.36	0.62	0.04	0.09	9	107	43	38	37	318	155	<5	44
91DDA0278	Rattling Brook	2.85	3.78	893	5.08	0.74	0.03	0.08	7	80	44	20	37	116	96	<5	78
91DDA0280	Rattling Brook	3.06	4.21	1009	5.18	0.55	0.03	0.10	8	82	39	28	31	442	115	<5	45
91DDA0283	Rattling Brook	3.33	4.35	968	5.58	0.88	0.03	0.11	8	86	56	20	50	145	111	<5	75
91DDA0284	Rattling Brook	3.19	4.19	945	5.31	0.70	0.03	0.10	7	80	49	21	40	208	106	<5	60
91DDA0286	North Capelin Cove	2.30	4.05	864	2.78	0.44	0.04	0.24	5	44	31	17	34	44	123	<5	28

Appendix B.6 Till geochemistry data for till sections

Sample Number	Section Location	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm
91DDA0287	North Capelin Cove	1.77	3.33	1510	2.16	0.45	0.04	0.19	< 5	36	24	14	28	36	95	< 5	25
91DDA0290	North Capelin Cove	2.24	4.00	1129	2.92	1.41	0.05	0.28	< 5	41	30	17	34	33	107	< 5	34
91DDA0291	St. Esprit	2.22	3.21	720	2.45	0.53	0.05	0.11	< 5	52	30	15	26	30	73	< 5	34
91DDA0293	St. Esprit	2.24	4.14	942	3.16	0.64	0.04	0.14	< 5	59	34	19	29	58	88	< 5	40
91DDA0295	St. Esprit	2.58	4.23	1019	3.57	0.65	0.04	0.19	6	66	44	21	39	79	101	< 5	42
91DDA0297	St. Esprit	2.63	4.93	1102	3.56	0.62	0.03	0.17	6	67	42	23	37	97	101	< 5	40
91DDA0299	St. Esprit	2.45	4.54	1047	3.75	0.61	0.03	0.15	7	60	38	19	33	101	109	< 5	40
91DDA0301	St. Esprit	1.96	3.53	1053	2.74	0.54	0.03	0.13	6	45	29	17	29	85	91	< 5	33
91DDA0303	St. Esprit	2.08	3.94	873	2.99	0.50	0.05	0.19	5	47	33	15	35	47	96	< 5	34
91DDA0305	St. Esprit	1.72	3.53	923	2.53	1.12	0.04	0.18	< 5	40	27	15	30	40	102	< 5	37
91DDA0307	St. Esprit	1.84	3.58	857	0.96	1.82	0.05	0.23	< 5	33	29	16	36	33	91	< 5	44
91DDA0309	Strachans Cove	1.55	2.36	768	0.67	0.34	0.04	0.10	< 5	37	20	11	16	21	66	16	25
91DDA0311	Fourchu	1.75	3.03	968	0.75	0.38	0.04	0.18	< 5	42	19	14	18	53	101	< 5	24
91DDA0313	Fourchu	1.75	3.08	899	0.77	0.39	0.04	0.17	< 5	42	20	13	19	51	100	< 5	25
91DDA0316	Fourchu	1.81	3.12	1013	0.73	0.36	0.04	0.18	< 5	42	20	15	20	58	104	< 5	25
91DDA0317	Fourchu	1.91	3.07	934	0.73	0.31	0.04	0.15	< 5	43	19	14	19	49	96	< 5	24
91DDA0319	Fourchu	1.48	2.45	754	0.51	0.34	0.04	0.10	< 5	38	16	11	13	27	62	< 5	24
91DDA0321	Seal Rock Cove	1.64	2.77	543	0.62	0.28	0.04	0.14	< 5	36	20	11	19	24	68	< 5	24
91DDA0480	Framboise	1.97	5.69	1228	2.48	0.36	0.07	0.12	7	58	24	21	19	79	116	9	26
91DDA0482	Framboise	2.43	4.71	1481	3.13	0.52	0.07	0.14	7	56	25	24	22	98	143	< 5	31
91DDA0484	Framboise	2.13	5.15	1411	0.93	0.36	0.04	0.13	7	53	23	29	15	65	107	< 5	28
91DDA0486	Framboise	2.09	5.11	1349	0.90	0.29	0.04	0.12	< 5	49	20	23	14	54	99	< 5	25
91DDA0489	Fiddlers Lake	2.06	4.49	1305	0.84	0.24	0.04	0.11	< 5	62	24	21	24	37	106	< 5	10
91DDA0491	Fiddlers Lake	1.87	4.41	1115	0.85	0.26	0.04	0.11	< 5	58	23	20	26	58	159	< 5	12
91DDA0493	Fiddlers Lake	1.76	4.29	954	0.76	0.25	0.04	0.08	< 5	57	21	17	22	45	151	< 5	11
91DDA0495	Fiddlers Lake	2.02	4.69	1179	0.82	0.26	0.04	0.09	< 5	62	24	24	24	50	112	< 5	14
91DDA0497	Fiddlers Lake	2.02	4.44	871	0.77	0.18	0.04	0.07	< 5	59	23	19	21	42	96	< 5	10
91DDA0499	Fiddlers Lake	2.39	4.61	1198	0.87	0.09	0.04	0.07	< 5	63	31	22	24	37	68	24	7
91DDA0501	Fiddlers Lake	3.44	6.25	1652	1.08	0.07	0.04	0.10	< 5	77	39	36	36	26	71	< 5	6
91DDA0503	Fiddlers Lake	3.55	6.78	1276	0.66	0.06	0.04	0.09	< 5	67	28	36	28	71	90	11	6
91DDA0505	English Cove	2.57	3.91	1047	1.35	0.66	0.05	0.19	6	64	28	18	22	65	131	5	60
91DDA0507	English Cove	2.52	3.69	1081	1.35	0.73	0.05	0.20	7	63	26	19	21	62	132	< 5	63
91DDA0509	English Cove	2.50	3.72	1180	1.42	0.90	0.05	0.20	7	61	30	18	25	57	135	< 5	66
91DDA0511	English Cove	2.55	3.83	1064	1.39	1.05	0.05	0.21	7	65	29	18	24	64	127	< 5	66
91DDA0513	English Cove	1.88	3.25	994	0.99	1.94	0.05	0.24	< 5	39	29	15	30	31	90	< 5	49
91DDA0515	English Cove	1.78	3.26	954	0.98	1.87	0.05	0.21	< 5	38	33	15	34	31	90	< 5	46
91DDA0517	English Cove	1.87	3.38	1037	1.02	1.88	0.05	0.22	< 5	40	32	16	37	33	94	< 5	48
91DDA0519	English Cove	1.94	3.43	978	1.03	1.67	0.05	0.22	< 5	40	27	16	30	36	100	< 5	32
91DDA0521	English Cove	1.98	3.40	1031	1.05	1.66	0.05	0.23	< 5	39	26	15	27	40	101	< 5	34
91DDA0523	English Cove	1.81	3.18	1245	0.95	1.58	0.05	0.20	< 5	38	26	15	31	45	107	< 5	31
91DDA0525	English Cove	1.93	3.31	818	0.82	0.41	0.05	0.18	5	44	24	14	22	40	102	< 5	29

Appendix B.6 Till geochemistry data for till sections

Sample Number	Section Location	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm
91DDA0527	English Cove	1.48	2.50	693	0.54	0.30	0.04	0.11	< 5	34	18	12	16	38	64	< 5	22
91DDA0529	Red Cape	1.89	3.27	908	1.01	1.89	0.05	0.23	< 5	39	27	15	30	32	91	< 5	48
91DDA0531	Red Cape	1.90	3.32	990	1.03	1.93	0.05	0.24	< 5	40	27	15	33	34	88	< 5	49
91DDA0533	Red Cape	1.88	3.30	1036	1.01	1.91	0.05	0.21	< 5	38	29	15	31	31	90	10	47
91DDA0535	Red Cape	1.78	3.28	1063	1.00	1.94	0.05	0.22	< 5	37	27	15	31	31	89	< 5	44
91DDA0537	Red Cape	1.75	3.17	992	0.97	1.89	0.05	0.21	< 5	36	26	14	29	31	88	< 5	40
91DDA0539	Red Cape	1.60	2.91	954	0.90	1.83	0.05	0.19	< 5	35	23	13	26	28	82	< 5	29
91DDA0541	Red Cape	1.87	3.30	1056	1.00	1.83	0.05	0.23	< 5	39	27	15	31	33	95	< 5	34
91DDA0543	Red Cape	2.06	3.47	976	1.06	1.74	0.05	0.25	< 5	43	32	17	35	37	101	< 5	36
91DDA0549	Fullers Gut	1.90	3.25	818	0.98	2.06	0.05	0.23	< 5	41	25	14	27	35	103	< 5	38
91DDA0551	Gull Cove	2.07	3.85	1005	0.85	0.61	0.05	0.17	6	52	17	13	16	54	137	< 5	37
91DDA0553	Gull Cove	1.99	3.87	887	0.80	0.51	0.04	0.15	6	51	15	13	15	58	125	< 5	33
91DDA0555	Gull Cove	2.22	4.43	859	0.79	0.39	0.04	0.15	6	55	16	14	14	58	115	11	30
91DDA0557	Fullers Gut	1.63	2.88	733	0.82	1.98	0.05	0.18	< 5	36	22	12	24	31	91	< 5	30
91DDA0559	Fullers Gut	1.60	2.95	1055	0.80	1.93	0.05	0.19	< 5	37	22	13	23	32	92	< 5	29
91DDA0561	Fullers Gut	1.70	3.10	848	0.87	1.97	0.05	0.20	< 5	38	24	14	28	32	96	13	30
91DDA0563	Fullers Gut	1.95	3.42	1066	0.90	1.70	0.06	0.23	< 5	43	28	17	30	38	104	< 5	31
91DDA0566	Fullers Gut	1.93	3.44	1115	0.86	0.60	0.06	0.23	< 5	43	27	18	29	44	104	< 5	26
91DDA0567	Fullers Gut	1.85	3.41	905	0.78	0.27	0.05	0.17	5	42	26	16	24	47	105	< 5	21
91DDA0570	Fox Cove	1.25	1.97	431	0.49	0.31	0.05	0.11	< 5	30	17	10	15	17	54	< 5	17
91DDA0572	Fox Cove	2.19	3.23	904	1.08	0.65	0.06	0.17	5	53	22	14	17	45	110	< 5	38
91DDA0574	Fox Cove	2.17	3.69	1069	1.20	1.34	0.06	0.21	5	46	32	18	29	47	111	< 5	34
91DDA0576	Fox Cove	2.04	3.54	993	1.11	1.42	0.06	0.21	< 5	43	28	16	30	39	97	< 5	32
91DDA0578	Fox Cove	1.96	3.51	900	0.90	0.37	0.06	0.20	< 5	43	27	16	29	44	95	< 5	26
91DDA0580	Fox Cove	1.82	2.58	1236	0.58	0.31	0.04	0.11	< 5	34	19	17	19	44	68	10	19
91DDA0582	Fox Cove	1.53	2.44	802	0.55	0.30	0.04	0.09	< 5	32	18	14	17	24	59	< 5	20
91DDA0584	MacIsaacs Cape	2.17	4.07	1212	1.10	1.28	0.05	0.21	6	56	22	15	19	50	135	< 5	39
91DDA0586	MacIsaacs Cape	2.10	4.07	1189	1.07	1.22	0.05	0.20	6	56	22	15	20	50	141	< 5	37
91DDA0588	MacIsaacs Cape	2.12	4.14	1646	1.07	0.86	0.07	0.20	6	56	22	17	20	51	138	< 5	32
91DDA0590	MacIsaacs Cape	2.08	4.01	1103	0.93	0.57	0.07	0.19	6	55	22	15	20	54	140	< 5	30
91DDA0592	MacIsaacs Cape	2.16	4.08	1118	0.92	0.54	0.08	0.19	7	57	22	16	20	54	144	< 5	32

Appendix B.6 Till geochemistry data for till sections

Sample Number	Section Location	Y ppm	Mo ppm	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
91DDA0001	Hardys Bank	10	2	4.5	0.3	< 20	12	< 10	115	16	< 20	292	5	6
91DDA0002	Hardys Bank	11	< 1	1.3	< 0.2	< 20	9	< 10	100	16	< 20	66	< 5	10
91DDA0003	Hardys Bank	11	< 1	0.8	0.3	< 20	10	< 10	94	16	< 20	43	5	5
91DDA0004	Hardys Bank	10	< 1	1.0	0.2	< 20	8	13	87	15	< 20	49	< 5	7
91DDA0005	Hardys Bank	11	< 1	0.5	0.3	< 20	11	< 10	87	16	< 20	38	< 5	3
91DDA0006	Hardys Bank	11	1	0.7	0.5	< 20	11	< 10	92	17	< 20	38	7	7
91DDA0007	Hardys Bank	11	< 1	0.6	0.8	< 20	11	12	100	17	< 20	37	7	9
91DDA0008	Hardys Bank	12	2	0.7	0.8	< 20	14	< 10	107	17	< 20	41	10	8
91DDA0009	Hardys Bank	11	< 1	0.7	0.2	< 20	8	11	117	16	< 20	33	8	3
91DDA0010	Hardys Bank	11	2	0.6	0.2	< 20	11	11	116	17	< 20	31	6	6
91DDA0011	Hardys Bank	11	1	0.5	< 0.2	< 20	9	< 10	132	16	< 20	32	7	3
91DDA0012	Hardys Bank	12	< 1	0.5	0.2	< 20	10	15	159	16	< 20	34	8	5
91DDA0013	Hardys Bank	13	< 1	0.6	0.3	< 20	12	14	198	18	< 20	37	7	3
91DDA0014	Hardys Bank	13	< 1	0.5	0.2	< 20	10	< 10	193	15	< 20	24	7	2
91DDA0021	Morrisons Cove	11	< 1	0.8	0.7	< 20	11	13	116	22	< 20	54	11	6
91DDA0022	Morrisons Cove	10	2	0.6	0.8	< 20	9	< 10	101	21	< 20	44	7	7
91DDA0023	Morrisons Cove	10	< 1	0.7	0.4	< 20	7	< 10	103	21	< 20	46	9	5
91DDA0024	Morrisons Cove	10	< 1	0.7	0.5	< 20	10	< 10	104	21	< 20	52	10	7
91DDA0025	Morrisons Cove	11	< 1	0.7	0.7	< 20	12	12	117	22	< 20	53	8	15
91DDA0026	Morrisons Cove	10	< 1	0.9	0.5	< 20	11	< 10	115	22	< 20	53	9	7
91DDA0027	Morrisons Cove	10	< 1	0.6	0.5	< 20	9	13	119	21	< 20	50	7	7
91DDA0132	Capelin Cove	12	2	0.3	< 0.2	< 20	7	10	127	23	< 20	19	< 5	< 1
91DDA0133	Capelin Cove	11	< 1	< 0.2	< 0.2	< 20	8	< 10	120	22	< 20	18	< 5	< 1
91DDA0134	Capelin Cove	12	2	0.3	< 0.2	< 20	9	< 10	128	24	< 20	21	< 5	< 1
91DDA0135	Capelin Cove	14	< 1	0.5	< 0.2	< 20	5	< 10	99	27	< 20	18	< 5	< 1
91DDA0136	Capelin Cove	9	1	0.3	< 0.2	< 20	< 5	< 10	33	19	< 20	15	< 5	< 1
91DDA0137	Capelin Cove	10	1	0.2	< 0.2	< 20	6	< 10	34	19	< 20	17	< 5	< 1
91DDA0138	Capelin Cove	10	< 1	0.4	< 0.2	< 20	< 5	< 10	30	19	< 20	16	< 5	< 1
91DDA0184	MacKays Point	7	16	0.6	< 0.2	22	7	14	201	16	< 20	23	6	3
91DDA0233	North Capelin Cove	9	2	0.3	< 0.2	< 20	7	< 10	40	10	< 20	16	< 5	< 1
91DDA0235	North Capelin Cove	14	< 1	0.3	< 0.2	< 20	6	12	132	23	< 20	22	< 5	< 1
91DDA0272	Rattling Brook	13	2	0.5	0.5	< 20	8	11	64	17	< 20	60	6	7
91DDA0273	Rattling Brook	9	2	0.6	1.0	< 20	7	12	74	20	< 20	32	5	< 1
91DDA0274	Rattling Brook	9	3	< 0.2	0.9	< 20	8	< 10	46	23	< 20	54	< 5	< 1
91DDA0275	Rattling Brook	10	2	0.3	1.0	< 20	5	< 10	54	19	< 20	58	7	28
91DDA0276	Rattling Brook	7	< 1	0.3	0.2	< 20	10	13	45	14	< 20	29	9	18
91DDA0278	Rattling Brook	8	< 1	0.5	0.2	23	6	< 10	34	26	< 20	25	< 5	17
91DDA0280	Rattling Brook	8	1	0.5	< 0.2	< 20	7	10	41	19	< 20	19	8	77
91DDA0283	Rattling Brook	10	< 1	0.5	< 0.2	< 20	8	13	54	37	< 20	17	< 5	1
91DDA0284	Rattling Brook	8	1	0.4	< 0.2	< 20	6	11	43	29	< 20	17	7	< 1
91DDA0286	North Capelin Cove	14	< 1	0.5	< 0.2	< 20	6	12	126	25	< 20	25	< 5	< 1

Appendix B.6 Till geochemistry data for till sections

Sample Number	Section Location	Y ppm	Mo ppm	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
91DDA0287	North Capelin Cove	13	< 1	0.4	< 0.2	< 20	6	11	139	21	< 20	23	< 5	< 1
91DDA0290	North Capelin Cove	12	2	0.3	< 0.2	< 20	7	11	169	22	< 20	25	< 5	1
91DDA0291	St. Esprit	7	< 1	0.3	< 0.2	< 20	< 5	11	34	17	< 20	14	< 5	< 1
91DDA0293	St. Esprit	9	1	0.3	< 0.2	< 20	< 5	< 10	37	19	< 20	17	< 5	1
91DDA0295	St. Esprit	9	2	0.5	< 0.2	< 20	7	14	69	23	< 20	16	< 5	< 1
91DDA0297	St. Esprit	10	2	0.5	< 0.2	< 20	7	10	71	23	< 20	18	< 5	< 1
91DDA0299	St. Esprit	12	1	0.6	< 0.2	< 20	8	< 10	47	22	< 20	14	< 5	2
91DDA0301	St. Esprit	13	2	0.5	< 0.2	< 20	< 5	11	83	24	< 20	15	< 5	< 1
91DDA0303	St. Esprit	13	1	0.3	< 0.2	< 20	6	10	109	23	< 20	20	5	1
91DDA0305	St. Esprit	11	1	0.4	< 0.2	< 20	6	< 10	144	21	< 20	19	< 5	< 1
91DDA0307	St. Esprit	10	8	< 0.2	0.5	< 20	6	< 10	170	15	< 20	31	< 5	11
91DDA0309	Strachans Cove	7	< 1	< 0.2	< 0.2	< 20	< 5	< 10	21	15	< 20	20	< 5	4
91DDA0311	Fourchu	12	< 1	< 0.2	0.2	< 20	< 5	< 10	87	15	< 20	26	< 5	4
91DDA0313	Fourchu	14	2	< 0.2	0.3	< 20	< 5	< 10	104	16	< 20	25	< 5	4
91DDA0316	Fourchu	13	2	< 0.2	< 0.2	< 20	5	< 10	84	16	< 20	25	< 5	3
91DDA0317	Fourchu	11	< 1	0.2	1.3	< 20	< 5	< 10	53	16	< 20	25	< 5	3
91DDA0319	Fourchu	8	2	< 0.2	0.3	< 20	< 5	< 10	27	13	< 20	24	< 5	3
91DDA0321	Seal Rock Cove	11	1	< 0.2	0.2	< 20	< 5	< 10	73	19	< 20	23	< 5	3
91DDA0480	Framboise	16	< 1	0.6	0.5	< 20	10	13	48	15	< 20	23	6	< 1
91DDA0482	Framboise	13	1	0.4	0.5	< 20	6	< 10	65	14	< 20	23	7	< 1
91DDA0484	Framboise	10	2	< 0.2	0.5	< 20	6	< 10	48	8	< 20	34	< 5	3
91DDA0486	Framboise	6	1	< 0.2	0.2	< 20	6	< 10	41	5	< 20	30	< 5	4
91DDA0489	Fiddlers Lake	7	2	< 0.2	< 0.2	< 20	6	< 10	39	21	< 20	27	< 5	9
91DDA0491	Fiddlers Lake	10	< 1	0.3	0.8	< 20	5	< 10	61	20	< 20	31	< 5	4
91DDA0493	Fiddlers Lake	7	< 1	< 0.2	< 0.2	< 20	5	< 10	34	17	< 20	30	< 5	6
91DDA0495	Fiddlers Lake	7	< 1	< 0.2	1.4	< 20	5	< 10	43	18	< 20	28	< 5	7
91DDA0497	Fiddlers Lake	6	< 1	< 0.2	1.5	< 20	5	< 10	39	17	< 20	28	< 5	4
91DDA0499	Fiddlers Lake	5	1	< 0.2	0.7	< 20	6	< 10	38	25	< 20	28	< 5	3
91DDA0501	Fiddlers Lake	6	< 1	0.4	< 0.2	< 20	6	< 10	51	31	< 20	29	< 5	3
91DDA0503	Fiddlers Lake	7	2	0.4	0.7	< 20	6	< 10	41	18	< 20	27	< 5	17
91DDA0505	English Cove	11	6	0.2	< 0.2	< 20	7	< 10	64	15	< 20	29	< 5	6
91DDA0507	English Cove	11	2	0.2	1.1	< 20	6	< 10	64	14	< 20	29	< 5	12
91DDA0509	English Cove	12	3	< 0.2	1.9	< 20	7	< 10	80	12	< 20	30	< 5	11
91DDA0511	English Cove	11	4	0.2	0.3	< 20	7	< 10	108	14	< 20	28	< 5	5
91DDA0513	English Cove	11	4	< 0.2	1.0	< 20	5	< 10	178	16	< 20	28	< 5	20
91DDA0515	English Cove	11	4	0.3	0.8	< 20	5	< 10	174	16	< 20	29	< 5	3
91DDA0517	English Cove	11	6	0.2	0.9	< 20	6	< 10	181	16	< 20	31	< 5	5
91DDA0519	English Cove	11	4	0.3	< 0.2	< 20	6	< 10	154	16	< 20	28	< 5	7
91DDA0521	English Cove	11	5	< 0.2	2.0	< 20	6	< 10	155	16	< 20	30	< 5	3
91DDA0523	English Cove	11	2	< 0.2	0.4	< 20	6	< 10	138	15	< 20	28	< 5	2
91DDA0525	English Cove	16	< 1	0.2	1.5	< 20	< 5	< 10	122	19	< 20	26	< 5	4

Appendix B.6 Till geochemistry data for till sections

Sample Number	Section Location	Y ppm	Mo ppm	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
91DDA0527	English Cove	8	< 1	< 0.2	< 0.2	< 20	< 5	< 10	34	14	< 20	19	< 5	2
91DDA0529	Red Cape	11	6	< 0.2	1.4	< 20	6	< 10	168	16	< 20	30	< 5	3
91DDA0531	Red Cape	11	7	< 0.2	0.3	< 20	6	< 10	182	16	< 20	32	< 5	2
91DDA0533	Red Cape	11	7	< 0.2	1.2	< 20	6	< 10	203	15	< 20	29	< 5	9
91DDA0535	Red Cape	11	7	< 0.2	1.1	< 20	6	< 10	172	16	< 20	29	< 5	3
91DDA0537	Red Cape	11	5	< 0.2	0.5	< 20	6	< 10	171	16	< 20	29	< 5	7
91DDA0539	Red Cape	10	6	0.3	< 0.2	< 20	5	< 10	133	15	< 20	27	< 5	2
91DDA0541	Red Cape	11	8	< 0.2	< 0.2	< 20	6	< 10	198	16	< 20	30	< 5	4
91DDA0543	Red Cape	11	7	< 0.2	< 0.2	< 20	6	< 10	177	16	< 20	29	< 5	4
91DDA0549	Fullers Gut	11	4	< 0.2	1.0	< 20	5	< 10	212	15	< 20	28	< 5	2
91DDA0551	Gull Cove	14	2	0.5	1.9	< 20	5	< 10	92	13	< 20	27	< 5	4
91DDA0553	Gull Cove	15	3	0.3	1.1	< 20	5	< 10	87	14	< 20	28	< 5	9
91DDA0555	Gull Cove	11	4	0.6	< 0.2	< 20	6	< 10	67	13	< 20	28	< 5	14
91DDA0557	Fullers Gut	10	6	0.2	< 0.2	< 20	< 5	< 10	200	14	< 20	27	< 5	3
91DDA0559	Fullers Gut	10	5	< 0.2	0.6	< 20	5	< 10	183	14	< 20	27	< 5	3
91DDA0561	Fullers Gut	11	3	< 0.2	0.8	< 20	5	< 10	181	15	< 20	28	< 5	3
91DDA0563	Fullers Gut	11	7	0.3	1.1	< 20	5	< 10	183	16	< 20	29	< 5	2
91DDA0566	Fullers Gut	12	< 1	< 0.2	1.3	< 20	6	< 10	156	17	< 20	32	< 5	4
91DDA0567	Fullers Gut	13	2	0.3	0.5	< 20	5	< 10	110	17	< 20	26	< 5	3
91DDA0570	Fox Cove	8	2	< 0.2	1.0	< 20	< 5	< 10	46	16	< 20	18	< 5	5
91DDA0572	Fox Cove	11	1	0.3	0.9	< 20	6	< 10	87	14	< 20	24	< 5	2
91DDA0574	Fox Cove	11	3	0.2	0.6	< 20	6	< 10	125	15	< 20	31	< 5	4
91DDA0576	Fox Cove	11	8	0.2	1.3	< 20	6	< 10	131	16	< 20	28	< 5	2
91DDA0578	Fox Cove	13	2	< 0.2	0.4	< 20	5	< 10	122	19	< 20	27	< 5	2
91DDA0580	Fox Cove	10	< 1	< 0.2	0.4	< 20	< 5	< 10	30	18	< 20	22	< 5	2
91DDA0582	Fox Cove	7	2	< 0.2	0.4	< 20	< 5	< 10	20	14	< 20	20	< 5	2
91DDA0584	MacIsaacs Cape	14	8	0.4	< 0.2	< 20	6	< 10	136	16	< 20	33	< 5	6
91DDA0586	MacIsaacs Cape	14	5	0.2	< 0.2	< 20	6	< 10	138	16	< 20	29	< 5	3
91DDA0588	MacIsaacs Cape	14	3	0.5	< 0.2	< 20	6	< 10	154	16	< 20	32	< 5	6
91DDA0590	MacIsaacs Cape	14	1	< 0.2	1.3	< 20	6	< 10	170	16	< 20	28	< 5	7
91DDA0592	MacIsaacs Cape	15	< 1	0.3	0.8	< 20	5	< 10	177	16	< 20	29	< 5	1

APPENDIX C. Bedrock and float boulder geochemical data

Appendix C Bedrock and float boulder geochemical data

Sample Number	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
91DDA0336	0.50	0.93	299	0.51	1.63	0.06	0.26	<5	6	2	5	6	141	1532	<5	15	11	514
91DDA0337	2.21	>10.00	3509	4.56	6.40	0.04	0.11	10	163	7	57	14	1604	669	18	32	9	19
91DDA0352	0.54	0.67	142	0.33	0.72	0.02	0.36	<5	3	2	6	5	366	18048	<5	6	10	207
91DDA0353	0.65	0.74	254	1.01	0.24	0.05	0.17	<5	12	7	2	5	66	2231	5	4	11	1108
91DDA0355	0.74	1.14	153	1.10	0.16	0.10	0.33	<5	21	8	5	5	158	1930	8	6	12	140
91DDA0356	0.76	1.07	309	1.20	0.61	0.09	0.13	<5	16	7	3	3	108	2136	<5	9	12	799
91DDA0358	4.27	3.09	877	4.21	2.67	0.31	0.28	7	131	32	9	13	158	271	<5	63	10	882
91DDA0360	2.80	4.50	713	4.29	1.70	0.30	0.92	21	152	5	12	8	864	2090	<5	37	24	10363
91DDA0361	1.09	2.15	421	1.60	0.37	0.10	0.20	<5	35	9	7	4	345	261	<5	11	14	1680
91DDA0368	3.60	4.15	754	2.19	2.38	0.56	0.33	9	148	20	16	9	209	96	5	148	12	1578
91DDA0369	2.31	4.15	712	3.16	1.12	0.25	0.93	7	178	15	16	8	147	106	<5	45	8	654
91DDA0370	1.87	2.81	778	2.42	0.39	0.15	1.02	12	39	4	4	<1	40	104	<5	21	11	1909
91DDA0393	5.24	7.07	487	4.11	2.65	0.62	1.31	17	132	2	16	2	27	59	<5	123	14	51
91DDA0438	0.46	0.69	219	0.48	0.10	0.08	0.09	<5	5	4	<1	<1	25	19	6	4	8	255
91DDA0439	0.38	2.00	15	0.15	0.09	0.03	0.29	<5	3	4	1	1	83	49	27	2	4	9
91DDA0477	0.37	1.10	9	0.08	0.04	0.02	0.29	<5	2	3	3	2	188	66	78	<1	4	38
91DDA0488	0.68	2.14	299	0.43	0.31	0.07	0.22	<5	4	1	1	<1	13	26	7	27	13	5
91DDA0545	0.16	4.36	9	0.02	0.30	0.02	0.02	<5	2	10	2	1	21	26	20	13	<1	330
91DDA0546	0.95	6.90	21	0.03	0.38	0.04	0.03	5	15	3	30	24	14	10	<5	12	4	4
91DDA0547	0.27	>10.00	55	0.08	0.12	0.02	0.05	<5	26	9	5	<1	8	16	213	8	2	16
91DDA0548A	0.09	4.44	6	0.01	0.12	0.03	0.03	<5	2	8	14	4	16	61	18	7	<1	23
91DDA0548B	0.32	5.93	4	<0.01	0.01	0.06	0.04	<5	3	11	<1	<1	11	9	10	80	<1	24
91DDA0593	2.57	5.57	213	2.16	0.02	0.04	0.21	6	30	38	13	41	28	104	<5	9	6	3
91DDA0594	2.23	5.03	496	1.36	0.12	0.02	0.25	<5	22	20	18	38	14	90	<5	10	8	<1
91DDA0595	2.80	5.35	262	3.12	<0.01	0.03	0.15	<5	23	37	8	17	56	100	31	3	6	2
91DDA0596	4.12	4.79	575	2.51	0.09	0.08	0.51	<5	21	23	15	32	36	85	32	25	8	1
91DDA0597	4.33	4.71	779	2.93	0.28	0.09	1.17	<5	38	24	19	37	11	75	12	68	10	2
91DDA0598	2.80	4.57	582	2.18	0.24	0.09	0.50	<5	47	23	20	27	2	77	<5	65	8	<1
91DDA0599	1.00	1.77	217	1.04	0.34	0.09	0.20	<5	17	6	6	3	63	54	<5	12	13	4
91DDA0600	3.54	5.00	549	2.43	0.18	0.09	1.12	<5	48	38	25	43	3	88	<5	41	8	<1
91DDA0601	2.59	5.21	433	2.92	0.01	0.05	0.19	<5	25	38	3	7	33	71	<5	5	6	5
91DDA0602	1.83	4.80	972	2.90	0.08	0.04	0.22	<5	31	18	24	39	3	103	<5	6	5	<1
91DDA0603	3.03	5.69	644	2.27	0.16	0.08	0.51	<5	57	32	32	44	2	47	<5	49	6	<1
91DDA0604	0.92	1.08	348	1.06	0.34	0.07	0.16	<5	17	5	1	2	16	550	34	6	14	3
91DDA0605	3.67	3.87	2084	3.32	2.07	0.20	0.63	9	43	32	18	23	17	163	<5	66	11	2
91DDA0606	2.29	5.33	1136	2.48	0.39	0.12	0.88	<5	76	27	23	26	2	92	<5	28	6	<1
91DDA0607	2.68	5.10	507	1.96	0.17	0.12	0.22	<5	100	30	19	25	6	104	<5	29	4	1
91DDA0608	5.25	5.64	1262	3.56	0.89	0.28	1.99	16	91	63	24	34	48	359	8	31	6	<1
91DDA0609	3.06	4.10	570	3.12	0.12	0.05	0.97	10	83	58	20	37	31	209	18	6	7	1

Appendix C Bedrock and float boulder geochemical data

Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
91DDA0336	5.20	6.70	< 20	< 5	< 10	37	10	< 20	139	< 5	< 1
91DDA0337	17.90	3.70	< 20	25	25	32	18	< 20	70	58	2
91DDA0352	45.70	66.90	< 20	40	< 10	34	14	< 20	40	28	< 1
91DDA0353	2.90	11.00	< 20	< 5	< 10	58	12	< 20	21	< 5	6
91DDA0355	3.10	12.80	< 20	< 5	< 10	81	21	< 20	710	< 5	< 1
91DDA0356	4.40	13.00	< 20	< 5	< 10	56	14	< 20	792	< 5	< 1
91DDA0358	2.00	1.70	< 20	< 5	< 10	202	< 1	128	12	< 5	< 1
91DDA0360	9.50	3.90	< 20	12	16	188	2	37	24	11	16
91DDA0361	3.20	0.50	< 20	< 5	< 10	44	22	< 20	17	< 5	< 1
91DDA0368	1.00	< 0.2	< 20	6	< 10	86	6	< 20	4	< 5	156
91DDA0369	0.70	1.40	< 20	6	< 10	155	2	< 20	7	< 5	14
91DDA0370	0.50	0.30	< 20	< 5	< 10	270	10	< 20	5	< 5	< 1
91DDA0393	0.70	< 0.2	< 20	10	11	412	8	< 20	8	< 5	< 1
91DDA0438	0.70	< 0.2	< 20	< 5	< 10	20	5	< 20	< 2	< 5	< 1
91DDA0439	8.70	0.50	< 20	31	< 10	53	8	< 20	20	15	5
91DDA0477	2.80	< 0.2	25	21	< 10	42	9	< 20	10	12	< 1
91DDA0488	0.30	0.30	< 20	< 5	< 10	84	3	< 20	4	< 5	< 1
91DDA0545	1.30	0.50	< 20	< 5	19	13	< 1	< 20	7	< 5	60
91DDA0546	0.60	0.90	36	< 5	13	22	< 1	< 20	5	< 5	5
91DDA0547	1.00	< 0.2	21	9	14	16	< 1	< 20	12	10	35
91DDA0548A	1.00	0.50	27	< 5	< 10	10	< 1	< 20	7	< 5	26
91DDA0548B	0.40	0.40	< 20	6	< 10	26	< 1	< 20	5	< 5	12
91DDA0593	0.60	0.40	< 20	< 5	< 10	142	< 1	< 20	25	< 5	16
91DDA0594	0.40	0.90	29	< 5	< 10	62	22	< 20	8	< 5	6
91DDA0595	0.50	0.30	< 20	8	< 10	24	26	< 20	10	< 5	6
91DDA0596	0.30	< 0.2	27	< 5	< 10	86	15	< 20	7	< 5	< 1
91DDA0597	0.50	< 0.2	< 20	7	< 10	384	23	< 20	4	< 5	8
91DDA0598	0.40	< 0.2	< 20	< 5	< 10	178	23	< 20	3	< 5	15
91DDA0599	0.40	< 0.2	< 20	< 5	< 10	47	21	< 20	12	6	< 1
91DDA0600	0.50	< 0.2	< 20	< 5	< 10	165	23	< 20	< 2	< 5	2
91DDA0601	0.50	0.90	< 20	5	< 10	34	32	< 20	10	< 5	12
91DDA0602	0.50	0.60	< 20	< 5	< 10	59	13	< 20	9	< 5	2
91DDA0603	0.60	1.00	< 20	8	10	188	16	< 20	4	< 5	< 1
91DDA0604	0.30	0.80	< 20	< 5	< 10	42	20	< 20	317	< 5	1
91DDA0605	< 0.2	1.10	< 20	< 5	< 10	69	29	< 20	15	< 5	14
91DDA0606	0.60	< 0.2	< 20	< 5	< 10	66	28	< 20	4	< 5	7
91DDA0607	0.80	0.80	23	< 5	< 10	75	17	< 20	4	< 5	< 1
91DDA0608	0.80	1.20	< 20	6	< 10	236	19	< 20	93	< 5	12
91DDA0609	0.60	1.00	< 20	< 5	< 10	94	26	< 20	80	< 5	< 1

APPENDIX D. Analytical methods and quality control results

	page
D.1 Till and bedrock analytical methods.....	161
D.2 1991 till standard analytical data.....	165
D.3 1991 till duplicate analytical data.....	169
D.4 1991 bedrock standard and duplicate analytical data...	177
D.5 1990 till standard and duplicate analytical data.....	181

APPENDIX D.1 Till and bedrock analytical methods

Appendix D.1 Analytical Methods

Determination of gold by fire assay lead collection-Direct Current Plasma Emission Spectroscopy

A 20 g portion of sample is used for the lead-silver fire assay collection. Briefly, the sample is fused with a lead oxide flux containing 4 mg of silver at 1050°C for 45 minutes. The melts are poured into cast iron molds and when cooled, the silicate slag is separated from the lead button. The button contains the precious metals, including silver and gold. Lead buttons are placed in magnesia cupels and heated to 800°C for approximately 1 hour. The lead is absorbed into the cupel leaving the precious metals on the surface of the cupel as a doré bead. The beads are transferred to test tubes and digested with 0.2 ml HNO₃ for 20 minutes followed by 0.4 ml aqua regia (3:1 HCl:HNO₃) for 1 hour. The gold concentration of the solutions are then determined by Direct Current Plasma Emission Spectroscopy.

Determination of trace elements by Inductively Coupled Plasma Emission Spectroscopy

A 0.100 g portion of sample is weighed, placed into a glass test tube and digested with 0.5 ml of HNO₃ and 1.5 ml of HCl for 2 hours in a 90°C water bath. Then, 8.0 ml of distilled water is added to make up the final volume of 10 ml and the solution is shaken on a vortex mixer to mix the solution thoroughly. Solutions are then measured on a Jarrell-Ash Inductively Coupled Plasma Emission Spectrometer and the final result is calculated based on the initial sample weight.

APPENDIX D.2 1991 till standard analytical data

Appendix D.2 1991 Analytical standard results

Sample Number	Type	Al pct	Fe Tot pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm	Ag ppm	Cd ppm
91DDA0163B	TCA-8010	1.15	2.24	385	1.37	0.50	0.04	0.09	<5	35	29	10	21	39	42	<5	22	10	<1	0.4	0.6
91DDA0227A	TCA-8010	1.26	2.29	368	1.39	0.54	0.04	0.10	5	35	30	11	24	38	44	8	24	11	<1	0.3	<0.2
91DDA0301B	TCA-8010	1.22	2.37	408	1.50	0.55	0.04	0.10	5	36	27	11	24	42	42	6	24	11	<1	0.3	<0.2
91DDA0309A	TCA-8010	0.92	1.79	319	0.35	0.45	0.04	0.08	<5	28	25	9	20	37	34	<5	18	9	3	<0.2	<0.2
91DDA1009B	TCA-8010	1.14	2.19	359	1.20	0.48	0.05	0.12	5	33	83	11	65	36	41	<5	21	10	8	<0.2	0.5
91DDA1093A	TCA-8010	1.16	2.22	356	1.28	0.56	0.02	0.09	5	34	31	10	22	36	37	<5	24	12	<1	<0.2	0.8
91DDA1346A	TCA-8010	0.99	1.92	341	1.13	0.43	0.03	0.09	5	30	25	9	19	31	34	<5	18	9	2	0.2	<0.2
91DDA1403A	TCA-8010	1.02	1.96	314	1.12	0.41	0.02	0.06	<5	29	26	9	19	32	37	<5	17	9	1	0.4	0.4
91DDA1422A	TCA-8010	0.98	1.92	303	1.18	0.44	0.04	0.08	5	27	27	9	22	37	36	<5	19	9	1	0.4	<0.2
91DDA0545A	TCA-8010	0.98	1.9	320	1.2	0.46	0.03	0.07	<5	29	25	9	20	35	33	<5	19	10	3	<0.2	0.5
91DDA0603A	TCA-8010	0.96	1.85	313	1.17	0.44	0.02	0.06	<5	28	25	9	21	35	32	6	19	9	2	0.3	<0.2
91DDA0009A	TCA-8043	1.31	2.59	411	1.66	0.31	0.03	0.07	<5	39	34	16	31	49	54	<5	10	8	<1	0.3	0.3
91DDA0042A	TCA-8043	1.37	2.68	433	1.68	0.31	0.03	0.08	<5	40	36	17	31	49	63	<5	10	7	<1	0.3	<0.2
91DDA1142A	TCA-8043	1.26	2.52	378	1.44	0.32	0.02	0.07	<5	40	39	15	28	40	45	<5	11	8	1	0.3	0.9
91DDA1422B	TCA-8043	1.08	2.06	391	1.17	0.46	0.03	0.08	<5	31	26	10	21	31	39	<5	18	10	<1	<0.2	<0.2
91DDA0088B	SB-A	3.22	4.29	1071	2.28	0.07	0.03	0.35	6	48	42	18	46	73	124	12	8	12	<1	0.3	<0.2
91DDA0199A	SB-A	3.21	4.08	1006	2.24	0.08	0.03	0.35	7	47	40	18	42	69	117	7	10	11	1	0.3	0.5
91DDA0424A	SB-A	3.18	4.28	1006	2.34	0.09	0.07	0.35	7	48	39	19	42	79	145	<5	8	12	2	0.3	0.2
91DDA0592A	SB-A	2.89	3.77	1023	0.71	0.08	0.04	0.33	6	45	37	18	38	70	120	16	8	12	2	<0.2	<0.2
91DDA1052A	SB-A	3.38	4.29	1146	2.15	0.08	0.02	0.39	6	50	47	19	47	72	159	<5	9	13	2	0.3	1.5
91DDA1327A	SB-A	2.91	3.97	1000	2.00	0.07	0.01	0.32	6	45	39	18	39	64	115	<5	7	11	<1	0.4	1.1
91DDA1422C	SB-A	1.09	2.20	335	1.27	0.27	0.02	0.07	<5	35	30	13	26	35	41	<5	9	7	<1	0.3	0.8

NR - NOT REPORTED

Appendix D.2 1991 Analytical standard results

Sample number	Type	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb	Weight (g)
91DDA0163B	TCA-8010	<20	8	<10	42	21	<20	16	<5	155	20.0
91DDA0227A	TCA-8010	<20	8	<10	37	23	<20	13	<5	154	20.0
91DDA0301B	TCA-8010	<20	8	<10	42	25	<20	11	<5	172	20.0
91DDA0309A	TCA-8010	<20	<5	<10	31	19	<20	13	<5	177	NR
91DDA1009B	TCA-8010	<20	6	<10	39	25	<20	20	5	168	20.4
91DDA1093A	TCA-8010	<20	6	<10	38	26	<20	18	6	171	20.1
91DDA1346A	TCA-8010	<20	5	<10	33	21	<20	16	<5	169	18.2
91DDA1403A	TCA-8010	<20	7	<10	32	21	<20	15	<5	154	20.0
91DDA1422A	TCA-8010	<20	7	<10	34	20	<20	8	<5	154	20.5
91DDA0545A	TCA-8010	<20	<5	<10	33	20	<20	<2	<5	169	NR
91DDA0603A	TCA-8010	<20	<5	<10	33	20	<20	<2	<5	166	NR
91DDA0009A	TCA-8043	<20	<5	<10	33	22	<20	12	<5	40	20.0
91DDA0042A	TCA-8043	<20	6	<10	32	20	<20	18	<5	36	20.0
91DDA1142A	TCA-8043	<20	<5	<10	27	23	<20	16	8	2	20.2
91DDA1422B	TCA-8043	<20	6	<10	34	21	<20	20	<5	6	20.8
91DDA0088B	SB-A	<20	6	11	90	35	<20	39	<5	<1	20.0
91DDA0199A	SB-A	<20	<5	15	89	33	<20	35	<5	<1	17.3
91DDA0424A	SB-A	<20	6	14	95	32	<20	42	<5	<1	NR
91DDA0592A	SB-A	<20	<5	<10	86	32	<20	32	<5	<1	NR
91DDA1052A	SB-A	<20	<5	11	98	41	<20	71	10	<1	20.5
91DDA1327A	SB-A	<20	<5	11	86	35	<20	49	10	<1	16.9
91DDA1422C	SB-A	<20	<5	<10	27	20	<20	15	6	<1	14.7

APPENDIX D.3 1991 till duplicate analytical data

Appendix D.3 1991 Duplicate sample analyses

Sample Number	Type	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm
91DDA0023	original	2.69	5.06	1119	3.54	0.51	0.03	0.27	6	64	35	22	32	97	247	41	23	10
91DDA0023A	duplicate	2.68	5.06	1120	3.55	0.51	0.03	0.27	6	65	33	23	32	95	249	38	23	10
91DDA0068	original	2.98	4.81	1254	2.49	0.14	0.02	0.15	<5	55	33	34	39	433	905	24	7	7
91DDA0068A	duplicate	2.98	4.84	1269	2.52	0.13	0.02	0.15	<5	54	35	34	39	446	931	8	6	7
91DDA0088	original	2.15	4.19	808	1.85	0.13	0.03	0.16	<5	57	29	16	23	71	131	<5	7	6
91DDA0088A	duplicate	2.07	4.07	786	1.80	0.13	0.03	0.16	<5	55	27	16	22	69	127	<5	7	6
91DDA0128	original	3.63	4.15	1319	2.32	0.15	0.03	0.16	<5	59	35	20	23	77	210	<5	11	7
91DDA0128A	duplicate	3.79	4.41	1439	2.50	0.16	0.03	0.17	5	64	39	21	24	82	220	<5	12	7
91DDA0163	original	2.76	4.96	1172	2.63	0.40	0.03	0.14	6	91	29	16	17	99	205	<5	28	9
91DDA0163A	duplicate	2.73	4.94	1133	2.60	0.40	0.03	0.14	6	92	30	16	17	99	202	<5	27	9
91DDA0245	original	2.81	4.54	1176	3.06	0.26	0.03	0.21	8	59	48	19	35	60	199	<5	25	16
91DDA0245A	duplicate	2.68	4.42	1155	3.00	0.23	0.02	0.20	7	56	47	20	34	58	198	<5	23	15
91DDA0259	original	2.45	4.20	1357	3.03	0.24	0.02	0.14	8	65	57	21	37	65	95	<5	18	10
91DDA0259A	duplicate	2.39	4.14	1355	2.97	0.24	0.02	0.13	8	64	52	20	32	64	92	<5	18	10
91DDA0284	original	3.19	4.19	945	5.31	0.70	0.03	0.10	7	80	49	21	40	208	106	<5	60	8
91DDA0284A	duplicate	3.25	4.27	963	5.38	0.71	0.03	0.11	8	82	50	22	42	211	108	<5	61	9
91DDA0301	original	1.96	3.53	1053	2.74	0.54	0.03	0.13	6	45	29	17	29	85	91	<5	33	13
91DDA0301A	duplicate	2.00	3.55	1078	2.75	0.55	0.03	0.14	6	45	29	18	30	86	91	<5	34	13
91DDA0377	original	4.01	4.59	560	3.33	0.15	0.07	0.17	6	68	36	19	32	60	139	<5	12	7
91DDA0377A	duplicate	4.17	4.81	589	3.46	0.15	0.08	0.18	7	71	40	19	33	63	144	<5	13	7
91DDA0395	original	3.43	5.04	755	3.46	0.15	0.07	0.19	6	61	29	18	31	72	349	<5	12	7
91DDA0395A	duplicate	3.28	4.93	743	3.41	0.14	0.07	0.18	6	59	29	19	31	70	343	<5	11	7
91DDA0446	original	6.61	5.59	603	1.91	0.11	0.08	0.11	9	109	19	11	9	123	136	<5	6	13
91DDA0446A	duplicate	3.95	5.33	663	3.35	0.18	0.07	0.16	7	78	18	14	19	330	304	<5	12	12
91DDA0464	original	3.06	5.29	879	3.23	0.23	0.07	0.23	5	55	27	21	30	564	418	1106	14	11
91DDA0464A	duplicate	3.17	5.48	916	3.35	0.25	0.07	0.24	5	57	28	21	30	583	431	1104	15	11

Appendix D.3 1991 Duplicate sample analyses

Sample Number	Type	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm
91DDA0482	original	2.43	4.71	1481	3.13	0.52	0.07	0.14	7	56	25	24	22	98	143	<5	31	13
91DDA0482A	duplicate	2.52	4.79	1502	3.17	0.55	0.07	0.14	7	57	27	25	24	100	146	<5	33	13
91DDA0493	original	1.76	4.29	954	0.76	0.25	0.04	0.08	<5	57	21	17	22	45	151	<5	11	7
91DDA0493A	duplicate	1.78	4.35	967	0.77	0.25	0.04	0.08	<5	58	22	17	22	46	152	<5	12	7
91DDA0497	original	2.02	4.44	871	0.77	0.18	0.04	0.07	<5	59	23	19	21	42	96	<5	10	6
91DDA0497A	duplicate	2.09	4.57	895	0.79	0.19	0.04	0.07	<5	61	24	20	23	45	98	24	11	6
91DDA0529	original	1.89	3.27	908	1.01	1.89	0.05	0.23	<5	39	27	15	30	32	91	<5	48	11
91DDA0529A	duplicate	1.85	3.24	899	1.00	1.87	0.05	0.22	<5	39	27	14	31	31	88	<5	48	11
91DDA0561	original	1.70	3.10	848	0.87	1.97	0.05	0.20	<5	38	24	14	28	32	96	13	30	11
91DDA0561A	duplicate	1.71	3.07	836	0.87	1.94	0.05	0.20	<5	38	23	13	25	32	94	<5	30	11
91DDA1009	original	2.87	4.79	764	1.66	0.02	0.02	0.21	<5	40	44	18	42	32	200	<5	8	6
91DDA1009A	duplicate	2.55	4.41	695	1.52	0.02	0.02	0.16	<5	34	72	17	54	30	187	<5	6	5
91DDA1021	original	4.05	5.34	1319	3.17	0.38	0.03	0.10	8	66	24	16	17	18	132	<5	28	11
91DDA1021A	duplicate	4.02	5.25	1309	3.15	0.38	0.02	0.10	8	65	19	17	14	18	131	<5	28	11
91DDA1032	original	2.28	3.71	482	1.39	0.03	0.02	0.15	<5	30	33	14	33	20	117	<5	6	6
91DDA1032A	duplicate	2.12	3.61	483	1.39	0.02	0.01	0.12	<5	26	49	14	42	20	110	<5	4	5
91DDA1044	original	3.17	6.13	515	1.01	0.02	0.01	0.11	<5	42	45	11	27	16	150	<5	5	4
91DDA1044A	duplicate	3.22	6.24	525	1.03	0.02	0.01	0.11	<5	43	67	11	40	15	154	<5	5	4
91DDA1052	original	1.86	4.57	2863	1.30	0.03	0.01	0.14	<5	31	40	15	39	35	1125	12	6	21
91DDA1052B	duplicate	2.01	4.74	2944	1.39	0.03	0.01	0.16	<5	33	28	15	29	38	1173	6	6	22
91DDA1070	original	2.75	3.93	355	1.56	0.03	0.01	0.12	<5	35	32	12	31	16	111	<5	7	5
91DDA1070A	duplicate	2.86	4.03	355	1.60	0.03	0.01	0.12	<5	36	37	12	33	16	116	<5	8	5
91DDA1077	original	1.33	2.77	808	0.85	0.02	-0.01	0.09	<5	20	20	13	21	5	264	<5	3	11
91DDA1077A	duplicate	1.38	2.81	853	0.87	0.02	-0.01	0.10	<5	21	21	13	22	5	282	<5	4	11

Appendix D.3 1991 Duplicate sample analyses

Sample Number	Type	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm
91DDA1108	original	1.27	2.96	396	0.98	0.08	-0.01	0.09	<5	28	32	11	24	12	69	<5	9	5
91DDA1108A	duplicate	1.36	3.07	411	1.05	0.07	-0.01	0.09	<5	30	23	12	22	12	74	<5	10	6
91DDA1123	original	1.94	3.40	880	2.01	0.20	0.01	0.12	<5	45	24	16	20	27	90	<5	18	7
91DDA1123A	duplicate	1.96	3.47	912	2.06	0.20	0.01	0.12	<5	46	27	16	23	27	93	<5	19	7
91DDA1142	original	1.97	3.92	619	1.45	0.10	0.01	0.10	<5	38	25	19	17	20	52	<5	8	6
91DDA1142B	duplicate	1.93	3.94	594	1.47	0.10	0.01	0.10	<5	39	24	19	18	20	52	<5	9	6
91DDA1161	original	2.29	3.53	847	2.05	0.24	0.02	0.15	5	49	24	15	20	36	84	<5	25	7
91DDA1161A	duplicate	2.19	3.45	842	2.02	0.25	0.02	0.15	<5	48	25	15	20	35	83	<5	25	7
91DDA1174	original	4.34	2.52	390	2.19	0.17	0.02	0.09	5	80	31	13	18	71	96	<5	22	6
91DDA1174A	duplicate	4.46	2.47	350	2.19	0.15	0.02	0.09	5	82	30	13	19	71	96	<5	20	6
91DDA1315	original	4.45	7.27	438	1.36	0.02	0.01	0.10	<5	37	33	14	28	78	313	<5	3	4
91DDA1315A	duplicate	4.51	7.40	443	1.34	0.03	0.01	0.09	<5	37	33	14	29	81	309	<5	3	4
91DDA1346	original	1.00	2.13	1045	1.31	0.18	0.02	0.16	<5	34	16	11	13	9	62	<5	14	5
91DDA1346B	duplicate	1.76	2.80	1554	1.74	0.27	0.03	0.13	<5	42	27	14	22	15	78	<5	24	8
91DDA1369	original	3.54	4.34	575	1.66	0.09	0.02	0.08	<5	68	30	12	17	42	116	<5	8	7
91DDA1369A	duplicate	3.56	4.36	579	1.66	0.09	0.02	0.08	<5	68	30	12	17	43	116	<5	8	7
91DDA1387	original	2.48	4.32	1504	2.33	0.15	0.02	0.13	5	53	27	17	38	52	134	<5	16	9
91DDA1387A	duplicate	2.46	4.17	1456	2.27	0.15	0.03	0.15	5	53	24	16	25	50	130	<5	17	9
91DDA1422	original	4.05	4.00	942	1.88	0.17	0.02	0.08	6	59	15	12	9	37	135	<5	12	8
91DDA1422D	duplicate	2.69	3.78	923	1.94	0.07	0.02	0.31	6	44	37	17	39	60	107	<5	7	11

Appendix D.3 1991 Duplicate sample analyses

Sample Number	Type	Mo ppm	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb	Cd ppm (reanalysis)
91DDA0023	original	<1	0.7	0.4	<20	7	<10	103	21	<20	46	9	5	0.4
91DDA0023A	duplicate	<1	0.8	0.4	<20	10	<10	102	21	<20	47	10	5	0.7
91DDA0068	original	2	0.6	0.5	<20	9	12	35	29	<20	202	13	3	0.5
91DDA0068A	duplicate	<1	0.6	1.9	<20	7	18	35	28	<20	210	13	2	0.3
91DDA0088	original	<1	0.5	<0.2	<20	7	11	69	24	<20	45	<5	18	<0.2
91DDA0088A	duplicate	<1	0.4	0.2	<20	<5	11	67	23	<20	43	<5	3	0.4
91DDA0128	original	<1	0.5	0.2	<20	6	12	385	21	<20	58	<5	7	0.2
91DDA0128A	duplicate	<1	0.4	1.4	<20	7	13	423	22	<20	59	<5	11	0.3
91DDA0163	original	<1	0.3	0.4	<20	<5	<10	189	16	<20	107	<5	11	0.4
91DDA0163A	duplicate	<1	0.5	0.9	<20	5	11	189	15	<20	107	6	4	<0.2
91DDA0245	original	<1	0.3	0.3	<20	6	<10	138	25	<20	39	<5	4	0.3
91DDA0245A	duplicate	<1	0.5	1.4	<20	6	12	130	24	<20	43	8	5	<0.2
91DDA0259	original	<1	0.3	<0.2	<20	7	10	50	21	<20	20	<5	<1	<0.2
91DDA0259A	duplicate	1	0.4	<0.2	<20	7	10	49	21	<20	20	<5	<1	<0.2
91DDA0284	original	1	0.4	<0.2	<20	6	11	43	29	<20	17	7	<1	<0.2
91DDA0284A	duplicate	<1	0.4	<0.2	<20	7	<10	43	29	<20	17	6	<1	<0.2
91DDA0301	original	2	0.5	<0.2	<20	<5	11	83	24	<20	15	<5	<1	<0.2
91DDA0301A	duplicate	2	0.6	1.1	<20	5	12	98	23	<20	15	<5	<1	<0.2
91DDA0377	original	<1	0.7	0.4	<20	<5	19	101	11	<20	43	<5	1	0.4
91DDA0377A	duplicate	<1	0.5	0.9	<20	6	20	105	12	<20	45	<5	<1	0.2
91DDA0395	original	<1	2.8	0.9	<20	8	15	123	13	<20	42	12	<1	0.9
91DDA0395A	duplicate	<1	3.1	0.5	<20	9	13	120	13	<20	40	13	<1	0.9
91DDA0446	original	11	2.8	0.2	<20	<5	22	53	11	<20	46	7	<1	0.2
91DDA0446A	duplicate	150	0.6	0.8	<20	7	<10	98	14	<20	66	7	<1	<0.2
91DDA0464	original	63	6.7	1.7	21	18	17	106	16	<20	120	91	5	1.7
91DDA0464A	duplicate	62	6.9	<0.2	<20	17	18	109	17	<20	120	96	7	1.9

Appendix D.3 1991 Duplicate sample analyses

Sample Number	Type	Mo ppm	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb	Cd ppm (reanalysis)
91DDA0482	original	<1	0.4	0.5	<20	6	<10	65	14	<20	23	7	<1	0.5
91DDA0482A	duplicate	<1	0.2	0.5	<20	6	11	66	14	<20	26	<5	<1	0.5
91DDA0493	original	<1	<0.2	<0.2	<20	5	<10	34	17	<20	30	<5	6	--
91DDA0493A	duplicate	1	0.2	1.5	<20	5	<10	37	17	<20	30	<5	14	--
91DDA0497	original	<1	<0.2	1.5	<20	5	<10	39	17	<20	28	<5	4	--
91DDA0497A	duplicate	<1	<0.2	<0.2	<20	6	<10	40	18	<20	28	<5	5	--
91DDA0529	original	6	<0.2	1.4	<20	6	<10	168	16	<20	30	<5	3	--
91DDA0529A	duplicate	5	<0.2	1.8	<20	6	<10	170	16	<20	28	<5	4	--
91DDA0561	original	3	<0.2	0.8	<20	5	<10	181	15	<20	28	<5	3	--
91DDA0561A	duplicate	6	<0.2	0.2	<20	5	<10	178	15	<20	26	<5	3	--
91DDA1009	original	<1	0.4	<0.2	<20	<5	12	50	25	<20	107	11	<1	<0.2
91DDA1009A	duplicate	4	0.5	1.2	<20	<5	12	42	21	<20	97	10	<1	<0.2
91DDA1021	original	2	0.4	<0.2	<20	<5	12	30	17	<20	34	11	<1	<0.2
91DDA1021A	duplicate	<1	0.5	0.9	<20	<5	15	29	16	<20	32	11	<1	<0.2
91DDA1032	original	1	0.4	<0.2	<20	<5	12	46	25	<20	48	7	<1	<0.2
91DDA1032A	duplicate	4	0.2	1	<20	<5	12	38	21	<20	51	9	11	<0.2
91DDA1044	original	2	0.5	<0.2	<20	<5	13	48	18	<20	57	8	<1	<0.2
91DDA1044A	duplicate	6	0.3	2	<20	<5	16	48	18	<20	53	13	<1	<0.2
91DDA1052	original	4	0.2	1.0	<20	<5	11	82	34	<20	628	9	<1	1
91DDA1052B	duplicate	2	0.3	2.1	<20	<5	14	84	35	<20	645	9	<1	1.2
91DDA1070	original	<1	0.2	<0.2	<20	<5	16	41	15	<20	61	9	<1	<0.2
91DDA1070A	duplicate	2	-0.2	<0.2	<20	<5	10	42	15	<20	63	8	<1	<0.2
91DDA1077	original	<1	-0.2	0.2	<20	<5	10	18	23	<20	150	8	<1	0.2
91DDA1077A	duplicate	2	-0.2	1.3	<20	5	11	18	24	<20	157	6	<1	0.3

Appendix D.3 1991 Duplicate sample analyses

Sample Number	Type	Mo ppm	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb	Cd ppm (reanalysis)
91DDA1108	original	2	-0.2	<0.2	<20	<5	<10	24	28	<20	43	5	<1	<0.2
91DDA1108A	duplicate	<1	0.3	<0.2	<20	<5	<10	26	27	<20	47	8	<1	<0.2
91DDA1123	original	<1	-0.2	<0.2	<20	<5	<10	44	17	<20	30	7	2	<0.2
91DDA1123A	duplicate	<1	0.4	<0.2	<20	<5	<10	44	17	<20	30	6	<1	<0.2
91DDA1142	original	1	0.4	<0.2	<20	<5	<10	21	22	<20	23	7	1	<0.2
91DDA1142B	duplicate	2	0.5	1.1	<20	<5	<10	20	23	<20	22	7	<1	<0.2
91DDA1161	original	<1	0.2	<0.2	<20	<5	12	51	16	<20	28	9	3	<0.2
91DDA1161A	duplicate	1	0.4	1.2	<20	<5	<10	52	16	<20	28	9	<1	<0.2
91DDA1174	original	<1	0.6	<0.2	<20	<5	13	77	12	<20	54	<5	4	<0.2
91DDA1174A	duplicate	<1	0.5	1.2	<20	<5	14	79	11	<20	54	8	3	<0.2
91DDA1315	original	2	0.8	<0.2	<20	<5	23	23	22	<20	176	15	<1	<0.2
91DDA1315A	duplicate	4	0.8	0.9	<20	<5	19	24	21	<20	187	12	<1	0.3
91DDA1346	original	<1	-0.2	0.5	<20	11	19	40	13	<20	48	11	1	0.5
91DDA1346B	duplicate	3	-0.2	1.3	<20	<5	<10	68	20	<20	28	7	2	0.4
91DDA1369	original	<1	0.9	0.3	<20	<5	15	27	15	<20	43	7	1	0.3
91DDA1369A	duplicate	<1	0.9	1.4	<20	<5	12	27	15	<20	41	8	3	0.4
91DDA1387	original	2	-0.2	0.4	<20	<5	<10	87	19	<20	38	7	<1	0.4
91DDA1387A	duplicate	<1	0.3	<0.2	<20	<5	12	88	19	<20	40	6	<1	0.4
91DDA1422	original	1	0.4	0.7	<20	<5	17	37	9	<20	70	5	<1	0.7
91DDA1422D	duplicate	<1	0.4	0.3	<20	<5	12	79	30	<20	44	10	1	0.6

**APPENDIX D.4 1991 bedrock standard and duplicate
analytical data**

Appendix D.4 Bedrock standards and duplicate results

Sample Number	Type	Al pct	Fe Tot pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	Sc ppm	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm	Ag ppm
91DDA0545A	TCA 8010	0.98	1.90	320	1.20	0.46	0.03	0.07	<5	29	25	9	20	35	33	<5	19	10	3	<0.2
91DDA0603A	TCA 8010	0.96	1.85	313	1.17	0.44	0.02	0.06	<5	28	25	9	21	35	32	6	19	9	2	0.3
91DDA0352	original	0.54	0.67	142	0.33	0.72	0.02	0.36	<5	3	2	6	5	366	18048	<5	6	10	207	45.7
91DDA0352A	duplicate	0.54	0.65	137	0.33	0.71	0.02	0.36	<5	4	2	7	5	361	18069	6	6	10	157	42.5
91DDA0545	original	0.16	4.36	9	0.02	0.30	0.02	0.02	<5	2	10	2	1	21	26	20	13	<1	330	1.3
91DDA0545B	duplicate	0.17	4.56	10	0.03	0.32	0.03	0.02	<5	3	11	2	2	22	26	22	13	<1	344	1.4

Sample number	Type	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	W ppm	Pb ppm	Bi ppm	Au ppb
91DDA0545A	TAC 8010	0.5	<20	<5	<10	33	20	<20	<20	<5	169
91DDA0603A	TAC 8010	<0.2	<20	<5	<10	33	20	<20	<20	<5	166
91DDA0352	original	66.9	<20	40	<10	34	14	<20	40	28	<1
91DDA0352A	duplicate	66.6	<20	41	<10	35	15	<20	38	26	<1
91DDA0545	original	0.5	<20	<5	19	13	<1	<20	7	<5	60
91DDA0545B	duplicate	0.8	<20	7	20	13	<1	<20	8	<5	60

**APPENDIX D.5 1990 till standard and duplicate analytical
data**

Appendix D.5 Standards and duplicate results for 1990 till samples

STANDARDS*

Sample Number	Type	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
90PH0062	SB-A	3.11	3.79	846	0.94	0.07	<0.05	0.28	49	40	17	40	76	109	21	9	14	2
90PH0070	SB-A	3.02	3.64	823	0.90	0.07	<0.05	0.27	48	38	17	40	73	99	18	9	15	<1

DUPLICATES*

Sample Number	Type	Al pct	Fe pct	Mn ppm	Mg pct	Ca pct	Na pct	K pct	V ppm	Cr ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm	As ppm	Sr ppm	Y ppm	Mo ppm
90DDA0212	original	2.55	3.78	353	0.95	0.10	<0.05	0.09	52	21	11	17	140	93	154	10	10	28
90DDA0212D	duplicate	2.72	4.02	382	1.02	0.13	<0.05	0.11	56	23	12	19	147	105	147	12	11	30
90DDA0230	original	2.54	4.30	602	1.07	0.13	<0.05	0.16	60	29	16	23	106	155	23	13	8	<1
90DDA0230D	duplicate	2.70	4.53	643	1.13	0.16	<0.05	0.16	65	31	17	25	111	164	7	16	8	<1
90DDA0244	original	3.45	7.61	469	0.96	0.07	<0.05	0.16	47	30	13	24	111	768	136	8	7	5
90DDA0244D	duplicate	3.51	7.85	480	1.01	0.06	<0.05	0.15	49	31	14	26	115	786	129	7	7	5
90DDA0256	original	0.40	3.41	311	<0.05	<0.05	<0.05	<0.05	77	21	4	7	3	9	<5	2	5	1
90DDA0256D	duplicate	0.40	3.60	320	<0.05	<0.05	<0.05	<0.05	82	22	5	8	4	10	<5	2	6	2
90DDA0277	original	3.62	6.88	510	0.91	0.06	<0.05	0.11	46	33	15	24	97	255	42	7	6	4
90DDA0277D	duplicate	3.76	7.23	531	0.96	0.06	<0.05	0.11	48	35	15	25	101	263	50	6	7	4
90DDA0291	original	6.76	4.01	424	0.46	0.06	<0.05	<0.05	46	30	15	19	67	443	<5	5	7	1
90DDA0291D	duplicate	6.72	4.02	434	0.47	0.08	<0.05	0.05	48	30	15	20	68	458	<5	7	7	3
90DDA0304	original	2.38	4.12	777	1.51	0.50	<0.05	0.19	58	33	17	28	53	104	7	25	13	<1
90DDA0304D	duplicate	2.50	4.20	795	1.54	0.53	<0.05	0.20	61	33	18	28	54	105	<5	28	13	2
90DDA0327	original	1.94	4.01	1902	0.68	0.28	<0.05	0.16	32	26	17	34	19	2513	19	16	17	2
90DDA0327D	duplicate	1.96	4.09	1940	0.70	0.29	<0.05	0.17	32	26	17	34	19	2578	19	17	17	2
90DDA0332	original	2.90	4.22	5065	0.34	0.07	<0.05	0.07	29	26	20	24	16	1218	12	6	9	2
90DDA0332D	duplicate	2.85	4.16	5015	0.34	0.07	<0.05	0.07	28	26	19	23	16	1194	<5	6	9	3

* duplicate samples analyzed at end of batch

Appendix D.5 Standards and duplicate results for 1990 till samples

Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	Ce ppm	W ppm	Pb ppm	Bi ppm	Au ppb
90PH0062	<0.5	<1	<20	<5	<10	94	37	92	<10	18	<5	<1
90PH0070	<0.5	<1	<20	<5	<10	93	39	95	<10	21	<5	1

Sample Number	Ag ppm	Cd ppm	Sn ppm	Sb ppm	Te ppm	Ba ppm	La ppm	Ce ppm	W ppm	Pb ppm	Bi ppm	Au ppb
90DDA212	2.1	2	<20	<5	<10	62	14	39	<10	16	10	2
90DDA0212D	2	<1	<20	<5	<10	64	16	44	<10	15	13	3
90DDA230	<0.5	1	<20	<5	<10	50	25	59	<10	43	<5	6
90DDA0230D	<0.5	<1	<20	<5	<10	53	27	66	<10	47	8	3
90DDA244	<0.5	2	<20	7	<10	37	26	69	<10	1061	12	3
90DDA0244D	<0.5	<1	<20	7	<10	36	27	67	<10	1101	11	5
90DDA256	<0.5	<1	<20	<5	<10	11	44	102	<10	10	<5	3
90DDA0256D	<0.5	<1	<20	<5	<10	11	46	112	<10	8	<5	<1
90DDA277	<0.5	2	<20	<5	<10	34	27	64	<10	414	<5	2
90DDA0277D	<0.5	<1	<20	<5	<10	36	28	67	<10	434	11	2
90DDA291	<0.5	<1	<20	<5	<10	31	14	36	<10	144	6	2
90DDA0291D	<0.5	1	<20	<5	<10	35	17	41	<10	144	10	2
90DDA304	<0.5	<1	<20	<5	<10	107	18	49	<10	12	<5	2
90DDA0304D	<0.5	<1	<20	<5	<10	112	19	49	<10	16	<5	2
90DDA327	<0.5	33	<20	<5	<10	360	25	68	<10	412	<5	<1
90DDA0327D	<0.5	32	<20	<5	<10	371	26	73	14	411	<5	2
90DDA332	<0.5	1	<20	<5	<10	42	22	78	<10	4589	<5	1
90DDA0332D	<0.5	<1	<20	<5	<10	42	21	79	10	4527	<5	<1

**APPENDIX E. Pebble lithology data for the 1-5 cm fraction,
proportional symbol maps and summary statistics**

	page
E.1 Regional data.....	187
E.2 Deep Cove detailed grid data.....	207
E.3 Blue Mountain detailed grid data.....	215
E.4 Stirling area detailed grid data.....	227
E.5 Stratigraphic section data.....	239

Legend for pebble lithology data listing

Mafic Volc = mafic volcanic rock
Felsic Volc = felsic volcanic rock
Rhy = rhyolite
Hnfls = hornfels
Grnte = granite
Dte = diorite
Qtzite = quartzite
Vein Quartz = vein quartz
R,Gr,Br seds = red, green and brown sedimentary rocks
Ppl Seds = purple sedimentary rocks
Gy,Bk Seds = grey and black sedimentary rocks
Grywke = greywacke
Felsic Intr = felsic intrusive rock
Mafic Intr = mafic intrusive rock
Lmst = limestone, dolomite

APPENDIX E.1 Regional till sample pebble lithology data for the 1-5 cm fraction

	page
Data listing.....	189
Summary statistics.....	198
Proportional symbol maps*	
Bedrock map legend.....	199
Mafic Volcanic clasts.....	201
Felsic volcanic clasts.....	202
Red, green, brown and purple sedimentary rocks.....	203
Quartzite and greywacke clasts.....	204
Grey and black sedimentary rocks.....	205
Felsic intrusive clasts.....	206

*clear film overlay of bedrock geology in back pocket

Appendix E.1 Pebble lithology data for regional samples

Sample Number	Mafic Volc	Felsic Volc	Rhy	Hnfls	Grnte	Dte	Qtzite	Vein Quartz	R,Gr,Br Seds	Ppl Seds	Gy,Bk Seds	Grywke	Felsic Intr	Mafic Intr	Lmst,	Other	Total
91DDA0292	59.3	21.4	0.0	0.0	8.7	2.4	5.1	1.1	1.6	0.0	0.0	0.0	0.3	0.0	0.0	0.0	100.0
91DDA0310	26.7	6.7	0.0	0.0	50.5	0.0	6.7	1.0	1.0	0.0	0.0	0.0	0.0	7.6	0.0	0.0	100.0
91DDA0320	48.2	20.2	0.0	0.0	0.0	0.0	15.8	0.0	4.4	0.9	0.0	0.0	10.5	0.0	0.0	0.0	100.0
91DDA0322	44.4	8.5	0.0	0.0	12.8	0.0	16.2	0.9	6.8	0.0	0.9	0.0	4.3	4.3	0.0	0.9	100.0
91DDA0325	50.4	26.7	0.0	0.0	0.0	0.0	5.2	1.5	13.3	1.5	0.0	0.0	1.5	0.0	0.0	0.0	100.0
91DDA0327	40.5	21.4	0.0	2.4	2.4	0.0	6.0	0.0	1.2	1.2	25.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0329	9.0	41.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	37.8	0.0	0.0	8.3	0.0	0.0	100.0
91DDA0331	18.3	76.6	0.6	0.0	0.0	0.0	0.0	3.4	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0333	26.1	71.4	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0335	24.4	72.0	0.0	0.0	0.0	0.0	0.6	1.8	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0339	22.4	72.0	0.0	0.0	0.0	0.0	5.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0341	13.2	83.7	0.0	0.0	1.1	0.0	0.5	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0343	33.8	65.4	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0345	89.2	2.0	0.0	0.0	0.8	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0347	88.0	1.2	0.0	0.0	0.4	0.0	0.0	0.4	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0349	46.7	37.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	11.1	0.0	0.0	100.0
91DDA0351	24.2	13.8	0.0	0.0	0.0	0.0	0.4	0.8	10.4	49.6	0.0	0.0	0.0	0.0	0.0	0.8	100.0
91DDA0487	43.6	31.4	0.0	0.0	0.0	0.0	2.7	3.6	13.6	2.3	0.9	0.0	0.0	1.8	0.0	0.0	100.0
91DDA0504	0.0	0.0	0.0	33.7	0.0	0.0	66.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0528	39.7	32.7	0.0	0.0	5.8	0.0	16.0	0.6	2.6	0.0	0.0	0.0	0.6	1.9	0.0	0.0	100.0
91DDA0556	58.6	26.9	0.8	0.0	0.0	0.0	0.0	2.0	0.4	0.0	0.4	0.0	2.0	1.2	0.0	7.6	100.0
91DDA0568	38.4	13.8	0.0	0.7	4.5	0.0	23.1	1.1	5.6	0.0	1.5	0.0	0.0	4.1	0.0	7.1	100.0
91DDA0583	43.9	7.0	0.0	0.0	11.5	0.0	26.8	0.0	1.3	0.0	0.0	0.0	2.5	7.0	0.0	0.0	100.0
91DDA1000	38.3	8.2	0.0	2.0	0.0	0.0	8.7	1.0	30.6	0.5	1.0	0.5	3.1	6.1	0.0	0.0	100.0
91DDA1001	71.4	0.9	0.0	0.0	0.0	7.4	1.3	0.0	15.6	0.4	0.0	0.9	0.0	2.2	0.0	0.0	100.0
91DDA1002	54.2	2.3	0.0	0.0	0.0	5.6	6.0	0.9	30.6	0.0	0.0	0.0	0.0	0.5	0.0	0.0	100.0
91DDA1003	75.1	1.0	0.0	0.0	0.0	0.5	0.0	4.0	15.4	3.5	0.0	0.0	0.0	0.0	0.0	0.5	100.0
91DDA1004	57.7	13.4	0.0	0.0	0.0	5.5	0.0	2.0	17.9	1.5	0.0	0.0	1.0	0.0	0.0	1.0	100.0
91DDA1005	83.6	3.1	0.0	0.0	0.0	1.0	3.1	5.1	3.1	0.0	0.0	0.0	1.0	0.0	0.0	0.0	100.0
91DDA1006	10.1	3.5	0.0	0.0	0.0	0.0	2.5	8.5	1.5	0.0	71.9	0.0	1.0	0.5	0.0	0.5	100.0
91DDA1007	9.2	0.0	0.0	0.0	0.0	1.5	0.0	1.5	3.6	0.0	83.6	0.0	0.5	0.0	0.0	0.0	100.0
91DDA1008	8.2	0.0	0.0	0.0	0.0	1.0	10.7	0.0	4.6	0.0	2.0	73.5	0.0	0.0	0.0	0.0	100.0
91DDA1009	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0	20.0	0.0	0.0	73.3	0.0	0.0	0.0	0.0	100.0
91DDA1010	0.5	0.0	3.4	0.0	0.0	1.0	5.9	0.0	1.0	0.0	5.4	81.8	0.0	1.0	0.0	0.0	100.0
91DDA1011	0.0	0.0	1.5	0.0	0.0	0.0	9.5	0.0	11.5	0.0	1.0	76.0	0.0	0.5	0.0	0.0	100.0
91DDA1012	1.5	0.0	0.5	0.0	0.0	2.5	7.0	0.5	19.5	0.0	3.5	64.0	1.0	0.0	0.0	0.0	100.0
91DDA1013	4.0	0.0	1.0	0.0	0.0	0.5	16.0	1.0	4.5	1.0	2.0	70.0	0.0	0.0	0.0	0.0	100.0

Appendix E.1 Pebble lithology data for regional samples

Sample Number	Mafic Volc	Felsic Volc	Rhy	Hnfls	Grnte	Dte	Qtzite	Vein Quartz	R,Gr,Br Seds	Ppl Seds	Gy,Bk Seds	Grywke	Felsic Intr	Mafic Intr	Lmst,	Other	Total
91DDA1014	0.0	0.0	0.0	0.0	0.0	0.0	26.1	0.5	1.5	0.0	4.5	66.8	0.5	0.0	0.0	0.0	100.0
91DDA1015	0.0	0.0	0.0	0.0	0.0	0.0	12.2	0.0	1.9	26.8	18.3	40.4	0.0	0.5	0.0	0.0	100.0
91DDA1016	16.4	0.0	0.0	0.0	0.0	3.5	9.0	0.0	2.0	2.0	0.0	66.7	0.5	0.0	0.0	0.0	100.0
91DDA1017	84.1	0.0	0.0	0.0	0.0	0.0	1.6	0.0	12.2	0.0	0.5	1.6	0.0	0.0	0.0	0.0	100.0
91DDA1018	37.0	0.0	3.0	0.0	0.0	2.0	7.0	5.5	4.0	26.0	1.0	14.0	0.5	0.0	0.0	0.0	100.0
91DDA1019	77.0	0.0	1.0	0.0	0.0	0.0	5.5	1.0	0.0	5.0	1.5	9.0	0.0	0.0	0.0	0.0	100.0
91DDA1020	59.5	0.0	1.5	0.0	0.0	6.0	9.5	3.0	5.5	2.5	0.0	12.5	0.0	0.0	0.0	0.0	100.0
91DDA1021	16.7	0.0	5.2	0.0	0.0	0.5	13.3	1.9	2.4	0.0	1.0	59.0	0.0	0.0	0.0	0.0	100.0
91DDA1022	66.5	15.8	1.5	0.0	0.0	4.4	1.5	1.5	5.4	0.0	0.0	3.4	0.0	0.0	0.0	0.0	100.0
91DDA1023	48.8	0.0	1.5	0.0	0.5	1.5	3.9	1.5	11.8	5.9	2.0	22.7	0.0	0.0	0.0	0.0	100.0
91DDA1024	24.9	1.0	1.5	0.0	0.0	0.0	0.5	0.0	41.8	0.0	0.0	30.3	0.0	0.0	0.0	0.0	100.0
91DDA1025	14.0	0.0	4.5	0.0	0.5	2.5	6.0	0.0	23.5	0.5	3.0	45.5	0.0	0.0	0.0	0.0	100.0
91DDA1026	9.0	1.9	5.2	0.0	0.0	2.8	6.1	0.9	7.5	0.0	44.3	20.8	0.9	0.5	0.0	0.0	100.0
91DDA1027	11.8	1.9	5.2	0.0	0.9	0.0	3.3	0.5	19.0	3.8	37.9	15.6	0.0	0.0	0.0	0.0	100.0
91DDA1028	0.0	0.0	1.0	0.0	0.0	1.0	34.2	0.5	13.1	4.0	6.5	39.7	0.0	0.0	0.0	0.0	100.0
91DDA1029	0.0	1.0	3.0	0.0	0.0	0.0	6.5	1.5	10.5	0.5	0.5	76.5	0.0	0.0	0.0	0.0	100.0
91DDA1030	3.3	0.7	7.8	0.0	2.0	2.0	17.6	0.7	5.2	1.3	0.0	59.5	0.0	0.0	0.0	0.0	100.0
91DDA1031	0.5	0.0	1.0	0.0	0.0	0.0	24.2	0.0	57.1	0.5	0.0	16.7	0.0	0.0	0.0	0.0	100.0
91DDA1032	2.4	1.0	3.9	0.0	0.0	1.5	23.9	0.0	20.5	1.0	0.0	43.9	2.0	0.0	0.0	0.0	100.0
91DDA1033	3.5	0.0	5.3	0.0	1.8	1.8	26.3	0.0	7.0	1.8	8.8	43.9	0.0	0.0	0.0	0.0	100.0
91DDA1034	1.5	0.0	4.5	0.0	0.0	1.5	12.0	0.0	47.0	1.5	0.0	30.0	2.0	0.0	0.0	0.0	100.0
91DDA1035	1.5	1.0	3.0	0.0	0.0	2.0	20.5	1.0	39.0	0.0	17.5	13.0	0.5	1.0	0.0	0.0	100.0
91DDA1036	1.4	0.0	4.8	0.0	0.0	0.0	8.2	0.5	68.1	0.5	0.5	15.9	0.0	0.0	0.0	0.0	100.0
91DDA1037	2.0	0.0	2.5	0.0	0.0	0.0	11.8	0.0	69.5	0.5	5.9	7.9	0.0	0.0	0.0	0.0	100.0
91DDA1038	2.9	0.0	0.5	0.0	0.0	2.4	1.0	0.0	58.0	4.3	0.0	29.5	1.4	0.0	0.0	0.0	100.0
91DDA1039	2.5	0.0	1.5	0.0	0.0	0.5	3.0	0.0	58.2	0.5	1.0	32.8	0.0	0.0	0.0	0.0	100.0
91DDA1040	2.0	0.0	2.0	0.0	0.0	0.5	22.8	0.5	42.1	0.5	5.9	23.8	0.0	0.0	0.0	0.0	100.0
91DDA1041	0.9	0.0	1.8	0.0	0.0	0.0	22.8	0.0	38.6	0.9	0.0	35.1	0.0	0.0	0.0	0.0	100.0
91DDA1042	4.5	0.0	1.0	0.0	0.0	0.0	10.5	1.5	45.5	3.0	1.0	33.0	0.0	0.0	0.0	0.0	100.0
91DDA1043	0.0	0.0	1.0	0.0	0.0	0.5	14.1	0.0	46.1	1.9	0.5	35.9	0.0	0.0	0.0	0.0	100.0
91DDA1044	2.0	0.0	1.5	0.0	0.0	0.5	13.4	1.5	49.8	0.0	26.9	4.0	0.5	0.0	0.0	0.0	100.0
91DDA1045	0.0	0.0	0.0	0.0	0.0	1.0	0.0	5.7	4.8	68.1	0.0	20.5	0.0	0.0	0.0	0.0	100.0
91DDA1046	8.0	0.0	2.0	0.0	0.0	1.5	14.6	4.0	23.6	7.5	0.5	38.2	0.0	0.0	0.0	0.0	100.0
91DDA1047	20.6	1.5	0.5	0.0	0.0	1.5	11.6	0.5	20.6	6.0	0.0	37.2	0.0	0.0	0.0	0.0	100.0
91DDA1048	21.5	1.0	1.5	0.0	0.5	0.5	6.0	0.5	15.0	14.5	0.0	38.0	0.0	1.0	0.0	0.0	100.0
91DDA1049	1.5	0.0	0.0	0.0	0.0	0.5	2.0	0.0	80.0	7.0	0.0	8.0	0.0	1.0	0.0	0.0	100.0
91DDA1050	2.0	0.0	2.0	0.0	1.0	1.0	9.1	0.0	51.5	2.0	0.0	22.2	0.0	9.1	0.0	0.0	100.0

Appendix E.1 Pebble lithology data for regional samples

Sample Number	Mafic Volc	Felsic Volc	Rhy	Hnfls	Grnte	Dte	Qtzite	Vein Quartz	R,Gr,Br Seds	Ppl Seds	Gy,Bk Seds	Grywke	Felsic Intr	Mafic Intr	Lmst,	Other	Total
91DDA1051	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	97.5	0.5	0.0	0.5	0.5	0.5	0.0	0.0	100.0
91DDA1052	0.0	3.5	0.0	0.0	0.5	0.0	0.0	0.5	89.0	3.0	0.0	0.5	3.0	0.0	0.0	0.0	100.0
91DDA1053	0.5	0.0	11.5	0.0	0.0	0.5	0.0	0.0	81.0	1.5	0.5	0.5	3.5	0.5	0.0	0.0	100.0
91DDA1054	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.5	96.5	0.0	0.0	0.5	1.5	0.0	0.0	0.0	100.0
91DDA1055	2.0	2.5	1.0	0.0	0.0	0.5	0.0	0.0	90.0	2.5	1.5	0.0	0.0	0.0	0.0	0.0	100.0
91DDA1056	2.5	0.5	4.5	0.0	0.0	0.0	2.0	0.5	87.5	0.0	0.0	0.0	2.5	0.0	0.0	0.0	100.0
91DDA1057	0.5	0.5	10.0	0.0	0.0	0.0	0.0	0.0	87.0	0.0	1.0	0.5	0.5	0.0	0.0	0.0	100.0
91DDA1058	2.5	0.0	87.0	0.0	2.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	100.0
91DDA1059	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	100.0
91DDA1060	2.9	0.0	37.3	0.0	0.0	0.0	1.5	0.5	23.5	2.9	2.5	2.9	26.0	0.0	0.0	0.0	100.0
91DDA1061	20.0	26.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	46.7	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA1062	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	96.5	2.0	0.0	0.0	1.0	0.0	0.0	0.0	100.0
91DDA1063	6.0	7.5	58.5	0.0	0.0	0.0	0.0	0.0	6.5	0.0	0.0	2.0	15.0	4.5	0.0	0.0	100.0
91DDA1064	15.5	3.0	43.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.0	0.0	0.0	0.0	100.0
91DDA1065	19.3	6.9	15.3	0.0	0.5	0.0	0.0	0.0	31.7	0.0	1.0	2.0	23.3	0.0	0.0	0.0	100.0
91DDA1066	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	95.5	0.0	0.0	3.5	0.0	0.0	0.0	0.0	100.0
91DDA1067	10.6	5.6	5.6	0.0	0.0	0.0	1.9	0.0	30.4	23.0	0.0	18.0	0.6	4.3	0.0	0.0	100.0
91DDA1068	3.6	2.1	7.8	0.0	0.0	0.0	0.0	0.0	70.3	10.9	0.5	4.7	0.0	0.0	0.0	0.0	100.0
91DDA1069	12.0	0.0	10.6	0.0	0.0	0.0	0.0	1.0	51.4	11.5	0.0	5.3	0.0	8.2	0.0	0.0	100.0
91DDA1070	3.4	3.8	43.3	0.0	0.0	0.0	6.3	0.5	12.5	4.8	1.0	14.4	10.1	0.0	0.0	0.0	100.0
91DDA1071	2.9	1.0	21.8	0.0	0.0	0.0	31.1	0.0	17.5	8.7	0.0	8.7	3.4	4.9	0.0	0.0	100.0
91DDA1072	0.5	0.0	0.0	0.0	0.0	0.0	1.0	0.5	95.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	100.0
91DDA1073	2.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	92.0	1.5	1.0	2.0	1.0	0.0	0.0	0.0	100.0
91DDA1074	2.9	0.0	0.0	0.0	0.0	0.0	1.0	0.5	90.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA1075	16.9	0.7	0.0	0.0	0.0	0.0	2.7	2.7	28.4	29.1	0.0	10.8	8.8	0.0	0.0	0.0	100.0
91DDA1076	2.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	49.5	41.0	0.0	1.5	2.5	1.5	0.0	0.0	100.0
91DDA1077	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	98.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	100.0
91DDA1078	3.5	0.0	0.0	0.0	0.0	0.0	1.0	1.0	70.5	8.5	0.0	4.0	5.5	6.0	0.0	0.0	100.0
91DDA1079	3.5	0.0	1.0	0.0	0.0	0.0	0.5	0.0	83.5	7.5	0.0	1.0	2.0	1.0	0.0	0.0	100.0
91DDA1080	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	2.5	88.0	0.0	0.0	0.0	100.0
91DDA1081	10.6	0.0	0.0	0.0	0.0	0.0	0.5	0.0	11.1	0.0	0.0	1.5	71.2	5.1	0.0	0.0	100.0
91DDA1082	78.8	17.0	0.0	0.0	0.0	3.3	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	100.0
91DDA1083	35.8	26.0	0.0	0.0	0.8	29.9	3.1	0.0	1.2	0.0	0.0	0.0	2.8	0.4	0.0	0.0	100.0
91DDA1084	0.0	18.6	0.0	0.0	0.0	79.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.4	0.0	0.0	100.0
91DDA1085	23.4	8.0	0.0	0.0	1.5	53.7	0.5	0.0	8.0	0.0	0.0	0.5	3.0	1.5	0.0	0.0	100.0
91DDA1086	11.3	14.3	0.0	0.0	0.0	61.1	2.0	0.0	3.4	1.0	0.0	0.0	6.9	0.0	0.0	0.0	100.0
91DDA1087	25.7	17.3	0.5	0.0	0.0	9.8	1.9	0.0	40.7	3.7	0.0	0.5	0.0	0.0	0.0	0.0	100.0

Appendix E.1 Pebble lithology data for regional samples

Sample Number	Mafic Volc	Felsic Volc	Rhy	Hnfls	Grnte	Dte	Qtzite	Vein Quartz	R,Gr,Br Seds	Ppl Seds	Gy,Bk Seds	Grywke	Felsic Intr	Mafic Intr	Lmst,	Other	Total
91DDA1088	39.6	13.4	0.5	0.0	7.9	12.4	1.0	0.5	8.4	1.0	0.0	1.0	14.4	0.0	0.0	0.0	100.0
91DDA1089	35.6	11.4	0.0	0.0	0.0	0.0	14.9	0.0	11.9	0.0	0.0	8.4	14.4	3.5	0.0	0.0	100.0
91DDA1090	36.5	60.0	0.0	0.0	0.0	0.0	2.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA1091	46.2	4.4	0.0	0.0	0.0	17.3	3.6	0.0	10.7	1.3	0.0	4.9	3.1	8.4	0.0	0.0	100.0
91DDA1092	50.0	2.5	4.0	0.0	10.9	3.0	1.5	0.0	7.9	0.0	0.0	6.9	10.4	3.0	0.0	0.0	100.0
91DDA1093	49.0	1.0	0.0	0.0	7.5	5.5	7.5	1.0	5.0	0.0	0.0	14.0	6.0	3.5	0.0	0.0	100.0
91DDA1094	26.3	3.8	0.0	0.0	33.8	1.4	5.2	0.9	11.3	0.5	0.0	1.4	14.6	0.9	0.0	0.0	100.0
91DDA1095	16.6	12.2	0.0	0.0	16.6	7.3	7.8	0.0	16.6	0.0	0.0	0.0	0.0	22.9	0.0	0.0	100.0
91DDA1096	1.5	7.0	0.0	0.0	72.6	0.0	2.0	0.0	7.5	0.0	0.0	0.0	4.5	5.0	0.0	0.0	100.0
91DDA1097	4.5	0.5	0.0	0.0	23.5	0.0	3.0	0.0	0.0	0.0	0.0	1.0	10.0	57.0	0.5	0.0	100.0
91DDA1098	28.2	4.8	0.5	0.0	6.7	0.0	0.0	1.0	27.3	6.7	0.0	3.8	10.0	11.0	0.0	0.0	100.0
91DDA1099	37.5	5.1	0.0	0.0	10.2	1.9	0.9	1.4	1.9	0.0	0.0	0.0	11.1	30.1	0.0	0.0	100.0
91DDA1100	74.7	3.1	0.0	0.0	2.1	0.0	3.1	1.5	2.1	1.0	0.0	0.0	5.2	7.2	0.0	0.0	100.0
91DDA1101	85.5	5.0	0.0	0.0	1.0	0.0	0.5	1.0	0.5	2.0	0.0	0.5	2.5	1.5	0.0	0.0	100.0
91DDA1102	64.0	15.5	0.5	0.0	0.0	0.0	1.5	2.0	6.0	2.0	0.0	2.0	3.0	3.5	0.0	0.0	100.0
91DDA1103	62.2	15.4	0.5	0.0	0.0	0.0	4.5	0.5	4.5	2.0	0.0	5.0	3.5	1.5	0.5	0.0	100.0
91DDA1104	57.5	16.5	0.0	0.0	0.0	0.0	7.0	4.0	3.5	1.5	0.0	6.0	3.0	1.0	0.0	0.0	100.0
91DDA1105	87.7	4.3	0.0	0.0	0.0	0.0	4.3	0.0	1.4	0.7	0.0	1.4	0.0	0.0	0.0	0.0	100.0
91DDA1106	57.3	20.5	0.0	0.0	0.6	2.9	6.4	2.9	4.1	0.0	0.0	4.7	0.6	0.0	0.0	0.0	100.0
91DDA1107	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	96.6	0.0	0.0	0.0	0.5	0.0	0.0	0.0	100.0
91DDA1108	20.8	3.0	0.0	0.0	1.5	4.5	1.5	1.0	67.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA1109	17.6	4.4	0.0	0.0	0.5	58.8	0.0	0.0	11.8	3.9	0.0	2.9	0.0	0.0	0.0	0.0	100.0
91DDA1110	6.9	9.4	0.5	0.0	0.0	0.0	5.0	3.0	35.6	32.7	0.0	2.0	0.0	5.0	0.0	0.0	100.0
91DDA1111	0.9	0.0	0.0	0.0	0.0	0.0	0.9	0.9	3.7	81.9	0.0	6.9	4.6	0.0	0.0	0.0	100.0
91DDA1112	13.5	2.7	0.0	0.0	0.0	0.0	2.7	1.3	54.7	17.0	0.0	4.5	3.6	0.0	0.0	0.0	100.0
91DDA1113	11.4	3.2	0.0	0.0	0.0	0.0	1.9	2.5	16.5	58.2	0.0	6.3	0.0	0.0	0.0	0.0	100.0
91DDA1114	25.7	0.0	0.0	0.0	0.0	0.0	55.4	1.5	4.0	0.5	0.0	12.9	0.0	0.0	0.0	0.0	100.0
91DDA1115	48.6	1.9	0.5	0.0	0.5	0.0	15.0	0.9	14.0	0.0	0.0	15.4	1.9	1.4	0.0	0.0	100.0
91DDA1116	44.4	3.9	0.0	0.0	0.0	0.0	16.4	0.5	14.0	4.3	0.0	12.6	0.5	3.4	0.0	0.0	100.0
91DDA1117	53.8	17.6	0.0	0.0	1.4	0.0	2.9	1.9	5.7	1.4	0.5	14.8	0.0	0.0	0.0	0.0	100.0
91DDA1118	64.6	5.8	0.0	0.0	5.8	1.5	7.8	1.5	4.9	4.4	0.0	3.4	0.5	0.0	0.0	0.0	100.0
91DDA1119	61.0	5.8	0.0	0.0	1.7	0.0	8.7	0.4	3.3	7.1	0.0	7.1	3.7	1.2	0.0	0.0	100.0
91DDA1120	71.4	1.0	0.0	0.0	0.5	0.5	6.5	1.0	1.5	8.0	0.0	4.5	5.0	0.0	0.0	0.0	100.0
91DDA1121	57.7	5.8	1.0	0.0	0.0	1.0	9.6	1.0	4.8	1.9	0.0	14.4	1.9	1.0	0.0	0.0	100.0
91DDA1122	75.9	8.4	0.0	0.0	2.0	0.5	3.0	1.5	3.9	1.5	0.0	3.0	0.0	0.5	0.0	0.0	100.0
91DDA1123	46.3	3.4	0.0	0.0	5.9	3.0	4.9	2.5	21.2	4.9	0.0	7.4	0.5	0.0	0.0	0.0	100.0
91DDA1124	18.4	4.5	0.0	0.0	0.6	3.4	18.4	2.2	33.5	2.8	0.0	16.2	0.0	0.0	0.0	0.0	100.0

Appendix E.1 Pebble lithology data for regional samples

Sample Number	Mafic Volc	Felsic Volc	Rhy	Hnfls	Grnte	Dte	Qtzite	Vein Quartz	R,Gr,Br Seds	Ppl Seds	Gy,Bk Seds	Grywke	Felsic Intr	Mafic Intr	Lmst,	Other	Total
91DDA1125	7.2	6.3	0.0	0.0	0.9	0.0	36.8	0.9	30.9	0.9	0.0	13.0	0.4	2.7	0.0	0.0	100.0
91DDA1126	86.5	3.0	0.0	0.0	0.0	0.0	0.5	0.0	6.0	0.5	0.0	2.0	0.0	1.5	0.0	0.0	100.0
91DDA1127	25.2	3.9	0.0	0.0	6.3	15.5	20.9	0.0	5.3	0.0	0.0	22.8	0.0	0.0	0.0	0.0	100.0
91DDA1128	57.4	8.1	0.0	0.0	1.5	4.1	13.2	0.5	0.0	0.0	0.0	10.7	4.1	0.5	0.0	0.0	100.0
91DDA1129	49.0	10.2	1.0	0.0	1.9	1.5	5.3	1.0	10.2	6.8	0.5	5.8	1.9	4.9	0.0	0.0	100.0
91DDA1130	25.0	21.1	0.0	0.0	13.3	2.2	0.6	1.1	0.0	30.0	5.0	1.7	0.0	0.0	0.0	0.0	100.0
91DDA1131	10.9	15.6	0.0	0.0	0.5	4.7	7.3	0.0	25.5	3.1	0.0	32.3	0.0	0.0	0.0	0.0	100.0
91DDA1132	13.4	9.9	0.0	0.0	0.0	9.4	21.3	2.5	12.4	9.4	0.0	21.8	0.0	0.0	0.0	0.0	100.0
91DDA1133	35.1	10.7	0.0	0.0	0.0	0.0	23.4	2.4	4.9	1.0	0.0	9.3	2.9	10.2	0.0	0.0	100.0
91DDA1134	55.0	3.0	0.0	0.0	0.0	0.0	1.5	5.5	0.0	0.5	0.0	3.5	1.5	1.5	0.0	0.5	100.0
91DDA1135	3.5	46.5	0.0	0.0	0.0	0.6	10.0	1.8	3.5	12.9	2.4	13.5	3.5	1.8	0.0	0.0	100.0
91DDA1136	5.2	51.4	0.0	0.0	0.0	0.0	15.2	1.4	7.1	2.4	0.0	13.3	1.0	2.9	0.0	0.0	100.0
91DDA1137	53.0	3.2	0.0	0.0	1.4	5.0	11.9	1.4	20.1	0.0	0.0	0.0	4.1	0.0	0.0	0.0	100.0
91DDA1138	47.6	11.3	0.5	0.0	2.4	8.0	3.3	0.9	5.2	2.4	0.0	17.9	0.5	0.0	0.0	0.0	100.0
91DDA1139	59.8	2.4	1.9	0.0	0.5	6.7	3.3	0.5	16.7	4.3	0.0	1.9	1.9	0.0	0.0	0.0	100.0
91DDA1140	92.5	4.5	0.0	0.0	0.0	0.0	1.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA1141	23.5	2.3	0.0	0.0	0.0	0.0	0.9	0.0	62.2	0.5	0.0	4.1	4.1	2.3	0.0	0.0	100.0
91DDA1142	0.0	0.0	0.0	0.0	0.0	0.0	93.4	0.0	0.5	0.0	0.0	1.5	4.5	0.0	0.0	0.0	100.0
91DDA1143	47.4	7.1	0.0	0.0	0.5	16.8	5.1	1.0	0.0	2.0	0.0	18.9	1.0	0.0	0.0	0.0	100.0
91DDA1144	39.7	9.5	0.0	0.0	1.5	6.5	13.1	0.0	2.5	1.5	0.0	24.1	0.0	1.5	0.0	0.0	100.0
91DDA1145	57.2	4.0	0.5	0.0	0.0	10.4	15.9	2.0	0.5	0.0	0.0	7.0	2.5	0.0	0.0	0.0	100.0
91DDA1146	53.1	4.1	0.5	0.0	10.7	7.1	7.1	1.5	7.1	0.0	0.0	5.6	2.0	1.0	0.0	0.0	100.0
91DDA1147	63.4	1.0	1.0	0.0	1.0	21.8	7.9	0.0	2.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0	100.0
91DDA1148	51.5	4.1	0.0	0.0	0.5	22.2	6.7	0.0	0.5	1.0	0.0	10.3	2.1	1.0	0.0	0.0	100.0
91DDA1149	39.8	2.4	1.5	0.0	3.4	24.8	20.4	1.5	1.9	0.0	0.5	2.9	1.0	0.0	0.0	0.0	100.0
91DDA1150	40.2	2.0	2.5	0.0	2.9	27.5	8.8	1.5	6.4	0.0	0.0	4.4	3.9	0.0	0.0	0.0	100.0
91DDA1151	48.8	3.3	0.5	0.0	1.9	14.2	28.4	0.5	0.5	0.0	0.0	1.9	0.0	0.0	0.0	0.0	100.0
91DDA1152	46.5	34.4	0.0	0.0	0.4	0.0	6.2	0.8	3.3	1.2	4.1	2.1	0.8	0.0	0.0	0.0	100.0
91DDA1153	59.1	16.3	0.0	0.0	0.5	5.9	12.3	1.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA1154	45.5	13.8	0.0	0.0	0.5	13.8	18.0	0.0	2.1	2.1	0.0	4.2	0.0	0.0	0.0	0.0	100.0
91DDA1155	13.6	7.8	0.0	0.0	0.5	1.9	12.1	0.0	0.5	0.0	0.0	63.6	0.0	0.0	0.0	0.0	100.0
91DDA1156	42.1	12.0	0.5	0.0	0.0	13.4	13.9	0.5	3.3	2.9	2.4	9.1	0.0	0.0	0.0	0.0	100.0
91DDA1157	50.0	16.8	0.0	0.0	0.0	11.8	15.0	0.5	0.9	0.0	0.0	5.0	0.0	0.0	0.0	0.0	100.0
91DDA1158	35.1	3.0	0.0	0.0	3.0	21.3	10.9	0.5	3.0	0.5	0.0	12.4	6.9	3.5	0.0	0.0	100.0
91DDA1159	40.1	3.0	0.0	0.0	5.4	8.9	28.2	0.5	1.5	2.0	0.0	3.5	1.5	5.4	0.0	0.0	100.0
91DDA1160	22.7	14.7	0.0	0.0	3.8	1.9	6.6	1.4	8.5	1.4	0.0	28.9	2.8	7.1	0.0	0.0	100.0
91DDA1161	57.9	6.1	0.0	0.0	2.0	0.0	6.1	0.5	11.7	1.0	0.0	11.7	2.0	1.0	0.0	0.0	100.0

Appendix E.1 Pebble lithology data for regional samples

Sample Number	Mafic Volc	Felsic Volc	Rhy	Hnfls	Grnte	Dte	Qtzite	Vein Quartz	R,Gr,Br Seds	Ppl Seds	Gy,Bk Seds	Grywke	Felsic Intr	Mafic Intr	Lmst,	Other	Total
91DDA1162	60.1	2.5	0.5	0.0	3.4	0.5	10.8	2.0	6.4	2.0	0.0	10.8	1.0	0.0	0.0	0.0	100.0
91DDA1163	56.0	2.9	0.5	0.0	2.4	1.9	8.7	5.3	4.8	11.6	0.0	4.8	0.5	0.5	0.0	0.0	100.0
91DDA1164	4.5	0.0	87.0	0.0	0.0	0.0	0.5	0.0	0.0	1.0	0.0	3.0	1.0	3.0	0.0	0.0	100.0
91DDA1165	4.2	23.5	43.3	0.0	5.0	15.1	3.4	0.4	0.0	0.0	0.0	0.4	4.6	0.0	0.0	0.0	100.0
91DDA1166	7.0	11.1	6.5	0.0	10.6	2.5	0.0	0.0	7.5	0.0	0.0	9.0	8.5	37.2	0.0	0.0	100.0
91DDA1167	37.5	5.0	1.5	0.0	20.5	6.0	3.0	1.5	2.0	2.5	0.0	9.0	5.5	6.0	0.0	0.0	100.0
91DDA1168	18.7	7.9	0.0	0.0	0.0	62.6	3.0	0.0	1.5	0.5	0.0	5.9	0.0	0.0	0.0	0.0	100.0
91DDA1169	57.3	9.5	0.0	0.0	0.5	1.5	20.6	1.0	2.0	1.0	0.0	6.0	0.0	0.5	0.0	0.0	100.0
91DDA1170	13.1	22.7	0.0	0.0	0.0	0.0	11.6	2.0	6.6	0.0	0.0	41.9	0.0	1.5	0.0	0.5	100.0
91DDA1171	59.1	9.3	0.3	0.0	0.0	0.3	11.6	0.7	1.0	0.7	0.0	12.3	3.7	1.0	0.0	0.0	100.0
91DDA1172	85.4	8.4	0.0	0.0	0.0	0.0	0.9	0.4	0.9	0.0	0.0	3.5	0.4	0.0	0.0	0.0	100.0
91DDA1173	25.5	4.5	0.8	0.0	0.0	0.0	1.6	15.8	4.9	21.5	18.2	7.3	0.0	0.0	0.0	0.0	100.0
91DDA1174	75.0	3.0	0.0	0.0	0.0	0.0	3.0	1.0	1.5	2.5	1.5	11.5	0.0	0.0	0.0	1.0	100.0
91DDA1175	61.0	7.0	0.0	0.0	0.0	0.0	7.5	0.5	0.0	0.0	0.0	24.0	0.0	0.0	0.0	0.0	100.0
91DDA1300	0.0	0.0	1.0	0.0	0.0	0.0	2.0	0.5	50.0	21.6	0.0	25.0	0.0	0.0	0.0	0.0	100.0
91DDA1301	28.9	0.0	2.5	0.0	0.0	10.9	0.0	0.0	18.9	12.4	0.5	25.9	0.0	0.0	0.0	0.0	100.0
91DDA1302	44.4	1.9	2.4	0.0	0.0	0.0	7.7	0.5	12.1	15.5	0.0	15.5	0.0	0.0	0.0	0.0	100.0
91DDA1303	1.5	4.0	0.5	0.0	0.0	0.0	6.5	1.5	20.9	56.2	0.0	5.0	2.0	2.0	0.0	0.0	100.0
91DDA1304	10.0	8.5	2.0	0.0	0.0	0.0	38.8	0.5	6.5	21.4	0.0	12.4	0.0	0.0	0.0	0.0	100.0
91DDA1305	28.0	5.0	0.0	0.0	0.0	0.0	24.5	2.0	13.5	13.0	0.0	14.0	0.0	0.0	0.0	0.0	100.0
91DDA1306	9.2	1.9	3.4	0.0	0.0	0.0	1.5	0.0	22.3	44.2	0.0	17.5	0.0	0.0	0.0	0.0	100.0
91DDA1307	18.3	3.5	0.0	0.0	0.0	0.0	2.0	0.0	13.9	55.4	0.0	6.9	0.0	0.0	0.0	0.0	100.0
91DDA1308	1.0	0.5	0.0	0.0	0.0	0.0	5.0	0.5	41.0	11.5	2.0	37.5	1.0	0.0	0.0	0.0	100.0
91DDA1309	0.0	0.0	0.0	0.0	0.0	0.0	3.0	1.0	56.0	7.0	1.0	31.5	0.5	0.0	0.0	0.0	100.0
91DDA1310	6.5	1.0	0.5	0.0	0.5	0.0	20.4	5.5	36.3	4.0	0.0	21.4	1.0	1.5	0.0	1.5	100.0
91DDA1311	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	97.0	0.0	0.5	0.0	0.0	0.0	0.0	100.0
91DDA1312	1.0	0.0	1.5	0.0	0.0	0.0	36.4	0.0	5.6	1.0	10.1	44.4	0.0	0.0	0.0	0.0	100.0
91DDA1313	0.0	0.0	1.7	0.0	0.0	0.0	28.1	0.8	19.0	3.3	2.5	41.3	3.3	0.0	0.0	0.0	100.0
91DDA1314	1.0	0.0	1.0	0.0	0.0	0.0	3.4	1.0	82.7	5.3	0.0	5.3	0.5	0.0	0.0	0.0	100.0
91DDA1315	1.5	0.0	0.5	0.0	0.0	0.0	17.5	0.5	45.5	8.5	1.5	23.5	1.0	0.0	0.0	0.0	100.0
91DDA1316	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.5	84.8	0.0	0.0	3.8	0.0	0.0	0.0	0.0	100.0
91DDA1317	0.0	0.0	0.5	0.0	0.0	0.0	26.1	1.4	64.0	0.5	0.0	6.6	0.9	0.0	0.0	0.0	100.0
91DDA1318	0.5	1.0	1.0	0.0	0.0	0.0	0.0	0.5	90.1	4.0	0.0	2.0	1.0	0.0	0.0	0.0	100.0
91DDA1319	18.5	0.0	0.0	0.0	0.0	0.0	51.5	8.5	4.0	2.5	0.0	14.0	0.0	0.0	0.0	1.0	100.0
91DDA1320	14.7	6.0	0.5	0.0	0.0	0.0	44.0	4.1	22.0	2.3	0.0	6.4	0.0	0.0	0.0	0.0	100.0
91DDA1321	57.6	0.0	0.0	0.0	0.0	0.0	5.4	3.4	5.4	3.0	0.0	22.7	2.5	0.0	0.0	0.0	100.0
91DDA1322	34.8	21.4	0.0	0.0	0.0	0.0	7.5	3.0	18.9	5.0	0.0	8.0	0.5	1.0	0.0	0.0	100.0

Appendix E.1 Pebble lithology data for regional samples

Sample Number	Mafic Volc	Felsic Volc	Rhy	Hnfls	Grnte	Dte	Qtzite	Vein Quartz	R,Gr,Br Seds	Ppl Seds	Gy,Bk Seds	Grywke	Felsic Intr	Mafic Intr	Lmst,	Other	Total
91DDA1323	12.9	10.9	0.0	0.0	0.0	0.0	15.3	2.5	10.4	1.0	0.0	45.5	0.0	1.5	0.0	0.0	100.0
91DDA1324	1.9	0.5	3.2	0.0	0.0	0.0	60.2	0.5	10.2	1.9	0.0	19.9	0.9	0.9	0.0	0.0	100.0
91DDA1325	0.0	57.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.6	0.0	0.0	0.0	14.3	0.0	0.0	100.0
91DDA1326	84.2	6.4	0.0	0.0	0.0	0.0	2.5	0.0	2.5	0.0	0.0	0.5	1.5	2.5	0.0	0.0	100.0
91DDA1327	23.5	1.4	41.8	0.0	0.5	0.0	4.7	0.0	14.1	1.9	0.0	1.4	8.9	1.9	0.0	0.0	100.0
91DDA1328	15.4	0.9	55.6	0.0	0.0	0.0	1.4	0.0	10.3	5.6	0.0	2.8	0.0	7.9	0.0	0.0	100.0
91DDA1329	41.7	7.8	1.8	0.0	0.0	0.0	1.8	1.4	2.8	0.0	0.0	1.4	35.8	5.5	0.0	0.0	100.0
91DDA1330	65.7	8.0	1.0	0.0	9.5	0.0	3.5	0.0	2.5	0.0	0.0	0.0	9.5	0.5	0.0	0.0	100.0
91DDA1331	64.3	23.9	0.5	0.0	0.0	0.0	1.4	1.9	0.9	2.3	0.0	1.4	2.8	0.5	0.0	0.0	100.0
91DDA1332	83.5	2.1	0.0	0.0	0.0	0.0	1.0	1.5	2.6	2.6	0.0	6.2	0.5	0.0	0.0	0.0	100.0
91DDA1333	6.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	7.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA1334	63.3	5.8	0.0	0.0	0.0	0.5	4.3	1.0	10.1	1.9	0.0	6.8	3.9	2.4	0.0	0.0	100.0
91DDA1335	17.5	18.4	0.0	0.0	0.0	0.0	0.5	0.5	0.9	0.5	0.0	2.4	0.0	0.0	0.0	0.5	100.0
91DDA1336	52.6	36.5	0.5	0.0	0.0	0.5	0.5	0.0	3.1	0.5	0.0	1.0	0.0	0.0	0.0	0.5	100.0
91DDA1337	31.0	53.0	0.0	0.0	0.0	1.0	1.0	3.0	6.0	0.5	0.0	1.0	0.0	0.0	0.0	0.0	100.0
91DDA1338	58.7	28.4	0.0	0.0	0.0	0.0	1.0	1.0	3.5	0.5	0.0	4.0	0.0	1.5	0.0	1.5	100.0
91DDA1339	25.5	6.7	18.8	0.0	0.0	0.0	13.5	0.0	1.4	10.1	0.0	15.4	3.4	5.3	0.0	0.0	100.0
91DDA1340	10.0	13.5	5.5	0.0	0.0	3.5	1.5	1.5	4.0	30.5	0.0	30.0	0.0	0.0	0.0	0.0	100.0
91DDA1341	61.7	2.3	13.6	0.0	0.9	1.9	3.3	0.9	1.9	8.9	0.0	0.9	2.3	1.4	0.0	0.0	100.0
91DDA1342	37.0	9.5	42.0	0.0	0.0	0.0	1.0	0.0	3.5	0.5	0.0	5.0	0.5	1.0	0.0	0.0	100.0
91DDA1343	2.5	0.5	0.0	0.0	0.0	0.0	0.0	1.0	94.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	100.0
91DDA1344	93.5	3.0	0.0	0.0	0.0	0.0	1.0	0.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA1345	22.4	15.1	0.5	0.0	7.3	10.4	3.1	1.0	1.6	1.0	0.0	1.6	10.9	25.0	0.0	0.0	100.0
91DDA1346	40.7	9.0	0.0	0.0	0.0	0.0	6.8	0.6	15.3	0.6	0.0	0.0	23.7	3.4	0.0	0.0	100.0
91DDA1347	8.7	3.5	1.7	0.0	7.8	77.9	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA1348	18.2	15.4	0.5	0.0	0.0	7.0	15.0	0.0	5.1	2.8	0.0	35.5	0.5	0.0	0.0	0.0	100.0
91DDA1349	66.3	7.7	0.0	0.0	0.0	0.0	4.7	1.2	4.1	0.6	0.0	8.9	4.7	1.8	0.0	0.0	100.0
91DDA1350	61.2	12.0	0.0	0.0	1.4	1.0	1.9	0.0	13.4	0.0	1.4	7.7	0.0	0.0	0.0	0.0	100.0
91DDA1351	93.3	4.1	0.0	0.0	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0	100.0
91DDA1352	54.1	16.1	0.5	0.0	0.0	0.0	2.8	1.8	22.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	100.0
91DDA1353	51.7	15.7	0.0	0.0	1.7	0.0	13.5	2.8	5.6	0.0	0.0	9.0	0.0	0.0	0.0	0.0	100.0
91DDA1354	58.0	14.5	0.0	0.0	0.0	0.0	3.5	1.5	5.5	7.5	0.0	8.5	1.0	0.0	0.0	0.0	100.0
91DDA1355	49.5	24.0	1.0	0.0	1.5	5.1	5.1	2.6	1.0	0.0	0.0	9.2	0.0	0.0	0.0	1.0	100.0
91DDA1356	47.3	2.4	0.0	0.0	0.0	0.5	2.0	1.0	39.5	0.0	0.0	0.5	6.8	0.0	0.0	0.0	100.0
91DDA1357	59.0	2.5	5.0	0.0	0.0	1.9	3.1	0.0	17.4	3.7	0.0	6.2	1.2	0.0	0.0	0.0	100.0
91DDA1358	88.9	2.9	1.0	0.0	0.0	0.5	1.9	1.4	1.4	0.0	0.0	1.9	0.0	0.0	0.0	0.0	100.0
91DDA1359	28.7	5.4	0.0	0.0	0.0	0.8	0.0	0.0	57.4	0.0	0.0	7.8	0.0	0.0	0.0	0.0	100.0

Appendix E.1 Pebble lithology data for regional samples

Sample Number	Mafic Volc	Felsic Volc	Rhy	Hnfls	Grnte	Dte	Qtzite	Vein Quartz	R,Gr,Br Seds	Ppl Seds	Gy,Bk Seds	Grywke	Felsic Intr	Mafic Intr	Lmst,	Other	Total
91DDA1360	2.5	0.0	0.5	0.0	0.0	0.0	77.5	0.0	8.0	0.0	0.0	11.5	0.0	0.0	0.0	0.0	100.0
91DDA1361	41.0	4.5	0.0	0.0	0.0	6.0	5.0	0.0	1.5	0.5	0.0	15.5	0.0	26.0	0.0	0.0	100.0
91DDA1362	49.0	4.9	2.5	0.0	0.5	2.5	7.4	1.5	10.3	3.4	0.0	17.6	0.0	0.5	0.0	0.0	100.0
91DDA1363	18.7	10.5	0.0	0.0	0.0	5.7	8.6	4.3	1.4	0.0	0.0	50.7	0.0	0.0	0.0	0.0	100.0
91DDA1364	34.3	7.4	1.0	0.0	0.0	0.0	5.9	0.5	13.2	8.3	0.5	23.0	3.4	2.5	0.0	0.0	100.0
91DDA1365	51.9	20.4	0.0	0.0	0.0	3.1	4.3	1.9	1.9	1.2	0.0	15.4	0.0	0.0	0.0	0.0	100.0
91DDA1366	48.0	15.3	1.5	0.0	0.0	0.5	4.0	2.0	9.4	8.9	0.0	10.4	0.0	0.0	0.0	0.0	100.0
91DDA1367	69.3	15.8	0.0	0.0	0.0	0.0	1.5	2.0	5.0	4.0	0.0	2.5	0.0	0.0	0.0	0.0	100.0
91DDA1368	54.5	17.8	1.5	0.0	0.0	0.0	6.9	4.0	3.5	1.5	0.0	10.4	0.0	0.0	0.0	0.0	100.0
91DDA1369	44.2	11.2	0.5	0.0	0.0	1.0	6.8	6.8	8.7	5.8	0.5	14.1	0.0	0.0	0.0	0.5	100.0
91DDA1370	4.5	0.0	0.0	0.0	0.0	0.0	80.5	3.0	3.5	3.0	0.0	5.5	0.0	0.0	0.0	0.0	100.0
91DDA1371	1.5	0.0	0.0	0.0	0.0	0.0	29.5	1.0	1.5	1.0	0.0	65.5	0.0	0.0	0.0	0.0	100.0
91DDA1372	27.8	18.4	0.0	0.0	0.5	0.0	19.8	4.2	7.5	4.2	0.0	17.5	0.0	0.0	0.0	0.0	100.0
91DDA1373	8.4	2.3	0.0	0.0	0.0	0.0	11.2	3.3	10.3	36.4	0.0	25.7	2.3	0.0	0.0	0.0	100.0
91DDA1374	8.6	0.5	0.0	0.0	0.0	0.0	20.5	0.5	3.8	1.9	0.0	64.3	0.0	0.0	0.0	0.0	100.0
91DDA1375	3.2	2.7	0.0	0.0	0.0	0.0	1.8	0.0	78.8	1.8	0.0	11.7	0.0	0.0	0.0	0.0	100.0
91DDA1376	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	89.5	0.0	0.0	6.5	0.0	0.0	0.0	0.0	100.0
91DDA1377	4.1	3.6	5.6	0.0	4.1	0.0	6.2	0.0	8.2	3.1	27.7	36.9	0.5	0.0	0.0	0.0	100.0
91DDA1378	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.0	1.0	0.0	92.5	0.5	0.0	0.0	0.0	100.0
91DDA1379	4.1	0.0	2.4	0.0	0.0	0.0	22.9	0.4	2.0	2.0	40.4	25.7	0.0	0.0	0.0	0.0	100.0
91DDA1380	6.2	0.4	0.0	0.0	0.0	0.0	15.0	0.9	30.4	9.3	0.0	37.9	0.0	0.0	0.0	0.0	100.0
91DDA1381	4.9	1.0	5.9	0.0	0.0	0.0	2.0	0.5	58.1	0.0	0.0	25.6	2.0	0.0	0.0	0.0	100.0
91DDA1382	66.2	8.0	0.5	0.0	0.0	0.0	0.5	0.9	1.4	7.0	0.0	15.5	0.0	0.0	0.0	0.0	100.0
91DDA1383	33.0	1.4	0.0	0.0	0.0	0.0	1.4	0.5	48.3	0.0	0.0	15.3	0.0	0.0	0.0	0.0	100.0
91DDA1384	8.0	14.1	0.0	0.0	0.0	2.3	2.8	9.9	2.3	12.7	29.6	16.0	0.0	0.0	0.0	2.3	100.0
91DDA1385	18.0	20.9	1.2	0.0	0.0	4.1	3.5	1.7	24.4	9.9	0.0	16.3	0.0	0.0	0.0	0.0	100.0
91DDA1386	24.3	23.3	1.0	0.0	0.0	1.0	4.0	2.0	2.5	5.4	0.0	36.6	0.0	0.0	0.0	0.0	100.0
91DDA1387	32.4	30.6	0.0	0.0	0.0	1.4	7.9	2.3	2.3	0.9	0.0	20.8	1.4	0.0	0.0	0.0	100.0
91DDA1388	66.0	8.8	0.5	0.0	0.0	0.0	3.6	5.2	3.1	2.1	0.0	8.8	2.1	0.0	0.0	0.0	100.0
91DDA1389	47.0	7.5	1.0	0.0	0.0	1.0	7.0	4.0	6.0	3.5	0.0	22.5	0.0	0.5	0.0	0.0	100.0
91DDA1390	60.2	4.0	0.0	0.0	0.0	0.5	8.0	2.0	4.0	4.0	0.0	15.4	1.5	0.5	0.0	0.0	100.0
91DDA1391	13.0	15.1	2.6	0.0	0.0	10.4	5.7	0.0	0.5	0.5	0.0	52.1	0.0	0.0	0.0	0.0	100.0
91DDA1392	59.7	10.0	4.0	0.0	0.0	0.0	4.0	0.0	2.0	2.0	0.0	7.5	2.0	9.0	0.0	0.0	100.0
91DDA1393	62.6	5.9	1.0	0.0	0.5	0.0	7.4	1.0	2.5	0.5	0.0	16.3	2.0	0.0	0.0	0.5	100.0
91DDA1394	27.2	1.0	3.0	0.0	2.0	0.0	2.5	0.0	46.0	0.0	0.0	15.8	2.5	0.0	0.0	0.0	100.0
91DDA1395	8.3	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	84.8	0.0	0.0	0.0	0.0	100.0
91DDA1396	55.5	7.0	1.0	0.0	0.0	0.0	5.0	0.5	2.5	6.5	0.0	19.0	2.5	0.5	0.0	0.0	100.0

Appendix E.1 Pebble lithology data for regional samples

Sample Number	Mafic Volc	Felsic Volc	Rhy	Hnfls	Grnte	Dte	Qtzite	Vein Quartz	R,Gr,Br Seds	Ppl Seds	Gy,Bk Seds	Grywke	Felsic Intr	Mafic Intr	Lmst,	Other	Total
91DDA1397	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	99.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA1398	4.5	3.3	0.0	0.0	0.0	0.4	0.0	0.0	2.1	0.4	0.0	89.3	0.0	0.0	0.0	0.0	100.0
91DDA1399	14.2	0.9	0.9	0.0	0.0	0.0	3.7	0.5	69.3	10.6	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA1400	64.8	5.1	0.0	0.0	1.9	4.2	2.8	0.0	1.4	0.5	3.2	16.2	0.0	0.0	0.0	0.0	100.0
91DDA1401	66.3	6.2	0.0	0.0	12.4	0.0	3.6	0.0	1.6	1.6	0.0	0.0	2.1	6.2	0.0	0.0	100.0
91DDA1402	77.7	16.8	0.0	0.0	0.0	1.4	0.9	0.0	1.4	0.5	0.9	0.5	0.0	0.0	0.0	0.0	100.0
91DDA1403	85.1	6.5	0.0	0.0	0.0	0.0	4.0	2.0	0.0	0.5	0.0	2.0	0.0	0.0	0.0	0.0	100.0
91DDA1404	2.8	0.9	0.0	0.0	0.0	0.0	0.0	5.2	86.3	0.0	0.0	2.4	2.4	0.0	0.0	0.0	100.0
91DDA1405	15.6	1.0	0.0	0.0	0.5	2.1	10.4	2.6	57.8	0.0	0.0	0.0	3.1	6.8	0.0	0.0	100.0
91DDA1406	25.9	5.9	0.0	0.0	0.0	0.0	2.0	2.0	44.4	0.0	1.0	0.0	10.2	8.8	0.0	0.0	100.0
91DDA1407	6.9	0.5	0.0	0.0	0.0	1.0	0.5	0.5	72.9	3.4	0.0	4.4	7.9	2.0	0.0	0.0	100.0
91DDA1408	47.3	8.0	0.5	0.0	0.0	8.5	18.4	1.0	3.5	3.0	0.0	10.0	0.0	0.0	0.0	0.0	100.0
91DDA1409	36.0	9.3	0.5	0.0	0.9	7.0	23.8	1.9	9.3	0.0	1.4	9.8	0.0	0.0	0.0	0.0	100.0
91DDA1410	1.4	1.9	0.0	0.0	85.6	0.9	3.7	0.0	0.0	0.0	0.0	4.2	0.0	2.3	0.0	0.0	100.0
91DDA1411	93.7	6.3	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	100.0
91DDA1412	30.4	15.4	0.0	4.2	19.2	5.1	12.6	2.3	0.9	1.4	0.5	6.1	1.9	0.0	0.0	0.0	100.0
91DDA1413	6.5	12.0	49.5	0.0	2.0	11.5	6.5	0.0	2.0	0.0	0.0	9.0	1.0	0.0	0.0	0.0	100.0
91DDA1414	40.1	2.8	15.2	0.0	1.4	0.0	5.5	0.5	18.0	0.0	0.0	5.1	2.3	9.2	0.0	0.0	100.0
91DDA1415	24.3	4.8	0.5	0.0	4.8	15.9	9.0	1.1	2.1	0.5	0.0	37.0	0.0	0.0	0.0	0.0	100.0
91DDA1416	45.8	10.9	0.5	0.0	0.0	21.4	4.0	1.5	4.0	3.0	0.0	9.0	0.0	0.0	0.0	0.0	100.0
91DDA1417	54.1	1.5	0.5	0.0	0.0	0.0	14.8	0.5	4.1	0.0	0.0	12.8	5.6	6.1	0.0	0.0	100.0
91DDA1418	64.5	8.0	0.0	0.0	0.0	0.0	3.5	1.5	5.0	1.5	0.0	12.5	0.5	3.0	0.0	0.0	100.0
91DDA1419	42.2	13.8	0.0	0.0	0.0	0.0	22.5	0.9	0.5	0.0	0.0	20.2	0.0	0.0	0.0	0.0	100.0
91DDA1420	75.1	12.0	0.0	0.0	0.0	2.3	4.1	1.4	2.3	0.0	0.0	2.8	0.0	0.0	0.0	0.0	100.0
91DDA1421	74.8	13.3	0.0	0.0	0.0	0.0	1.4	0.5	3.3	2.9	0.0	3.8	0.0	0.0	0.0	0.0	100.0
91DDA1422	54.3	8.1	0.0	0.0	0.0	0.0	4.5	0.0	0.5	0.0	0.0	32.6	0.0	0.0	0.0	0.0	100.0
91DDA1423	71.5	13.1	0.0	0.0	0.5	1.8	4.1	1.8	2.3	0.5	0.0	4.5	0.0	0.0	0.0	0.0	100.0
91DDA1424	40.6	21.8	2.0	0.0	1.0	6.4	16.8	0.0	3.5	0.0	0.0	6.9	0.5	0.5	0.0	0.0	100.0
91DDA1425	33.0	14.3	0.0	0.0	0.5	0.0	17.2	3.0	1.0	0.0	0.0	29.1	0.0	2.0	0.0	0.0	100.0

Appendix E.1 Summary statistics for pebble lithology data for regional till samples

Lithology	Mafic volcanic clasts	Felsic volcanic clasts	Felsic intrusive clasts	Red, green, brown and purple sediments	Grey and black sedimentary rocks	Quartzites and greywacke clasts
Number of samples	325	325	325	325	325	325
Minimum	0.0	0.0	0.0	0.0	0.0	0.0
Maximum	93.8	87.0	88.0	99.5	83.6	95.0
Mean	30.45	11.47	7.56	23.51	NA	21.59
Standard Deviation	26.60	16.08	14.64	28.79	NA	23.65
Coefficient of Variation	87.35	140.15	193.54	122.44	NA	109.57
Skewness	0.52	2.59	3.41	1.37	NA	1.42
Kurtosis	-0.89	7.03	12.80	0.58	NA	1.28
Geometric Mean	8.42	2.79	0.56	6.97	NA	5.74

NA not applicable, most values are zero

LEGEND

Southeastern Cape Breton Island

199

CARBONIFEROUS

MORIEN GROUP

- 19 **GLENGARRY VALLEY AND BIG BARREN FORMATIONS:** green-grey and red polymictic conglomerate, sandstone, siltstone, shale, mudstone

RIVERSDALE GROUP

- 18 **SILVER MINE FORMATION:** grey-green and grey sandstone; grey-green and red mudstone, siltstone; minor coal

CANSO GROUP

- 17 **MACKEIGAN LAKE FORMATION:** grey shale, siltstone with gypsum, anhydrite; red shale

WINDSOR GROUP

- 16 **UIST, LOCH LOMOND AND ENON FORMATIONS:** red siltstone, sandstone, conglomerate with intercalated limestone, dolostone, gypsum, anhydrite; includes basal conglomerate

- 15 Undivided

CAMBRIAN

LATE CAMBRIAN

- 14 **MACNEIL FORMATION:** grey shale, siltstone; black limestone

MIDDLE CAMBRIAN

- 13 **MACLEAN BROOK FORMATION:** grey quartz sandstone, siltstone, shale
- 12 **TROUT BROOK FORMATION:** grey to red-brown cleaved shale and siltstone
- 11 undivided

EARLY CAMBRIAN





- 10 **CANOE BROOK FORMATION:** red-brown calcareous mudstone, siltstone; rare pink limestone
- 9 **MACCODRUM FORMATION:** light grey to green micaceous siltstone, sandstone
- 8 white quartz arenite

LATE PRECAMBRIAN TO DEVONIAN

INTRUSIVE ROCKS

- 7 **Felsic Intrusives:** 7, Precambrian intrusive units including Chisholm Brook granodiorite, quartz monzonite; Capelin Cove leucogranite; Belfry Gut granite; Lower St. Esprit granite; Huntington Mtn. granite. 7D, Devonian intrusive units including Gillis Mtn. granite, monzodiorite; Deep Cove granite; Salmon River rhyolite porphyry
- 6 **Mafic Intrusives:** Precambrian units including Chisholm Brook diorite; gabbro; mafic porphyry

5	maroon to red quartzite, quartz pebble conglomerate; micaceous sandstone
4	<i>KELVIN GLEN FORMATION</i> : orange arkosic sandstone; purple to grey wacke; micaceous red sandstone
	FOURCHU GROUP (INCLUDING UNITS OF THE MAIN A DIEU SEQUENCE AND COASTAL AND STIRLING BELTS)
3	Volcanogenic Sediments: volcanic conglomerate, wacke, siltstone intercalated with volcanic flow and pyroclastic units
2	Intermediate to Felsic Volcanics: 2a, dacitic to rhyolitic flows; 2b, dacitic to rhyolitic tuff, quartz-feldspar crystal tuff; 2c, undivided
1	Mafic to Intermediate Volcanics: 1a, basalt to andesite flows; 1b, tuff, lapilli tuff, basalt to andesite lithic crystal tuff; 1c, undivided

Geological boundary (approximate or assumed)	
Regional fault	
Contact metamorphic aureole	
Metallic mineral occurrence	

INDEX TO METALLIC MINERAL OCCURRENCES

1. Deep Cove (Cu, Mo, Zn, Ag, Bi)
2. MacDonald Lake (Pb, Zn)
3. Copper Shaft (Cu, Zn, Pb, Mo, Ag, Bi)
4. Gillis Mountain (Cu, Mo)
5. Yava (Pb)
6. Stirling (Zn, Pb, Cu, Ag, Au)

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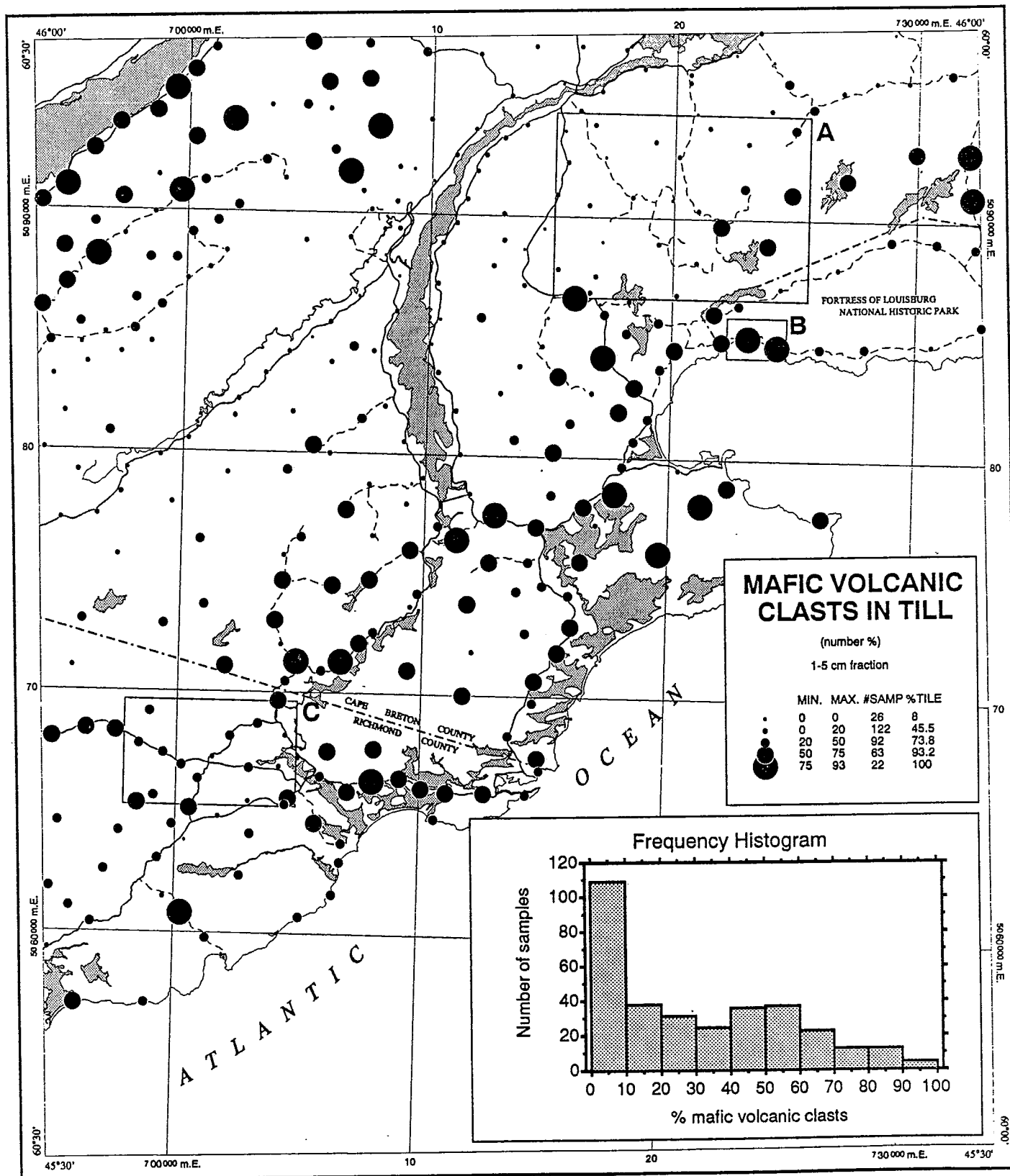
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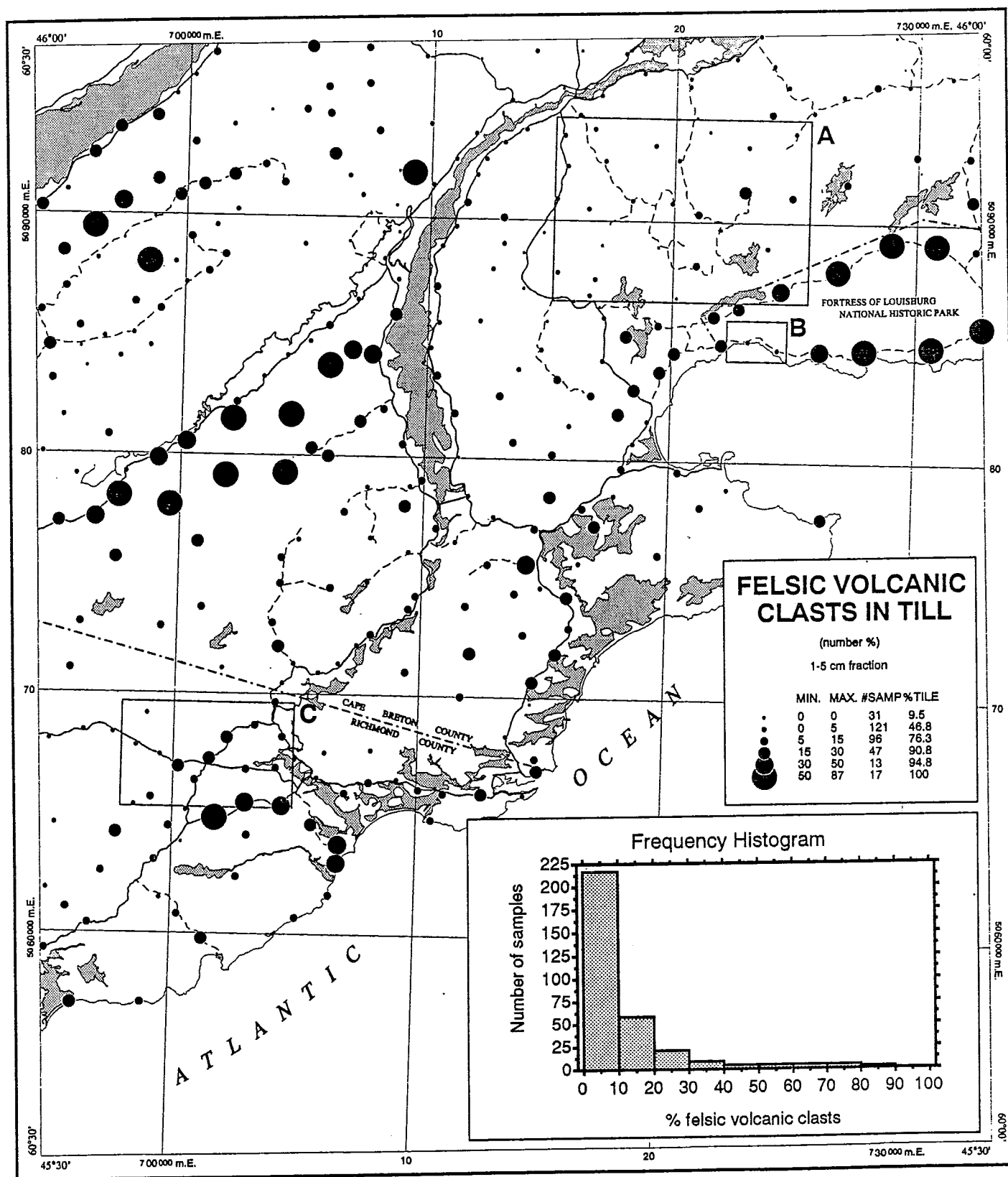
1985: Geology of the Loch Lomond basin and Glengarry half graben, Nova Scotia; Nova Scotia Department of Mines and Energy, Map 85-2 (1:50,000 scale).

Weeks, L.J.

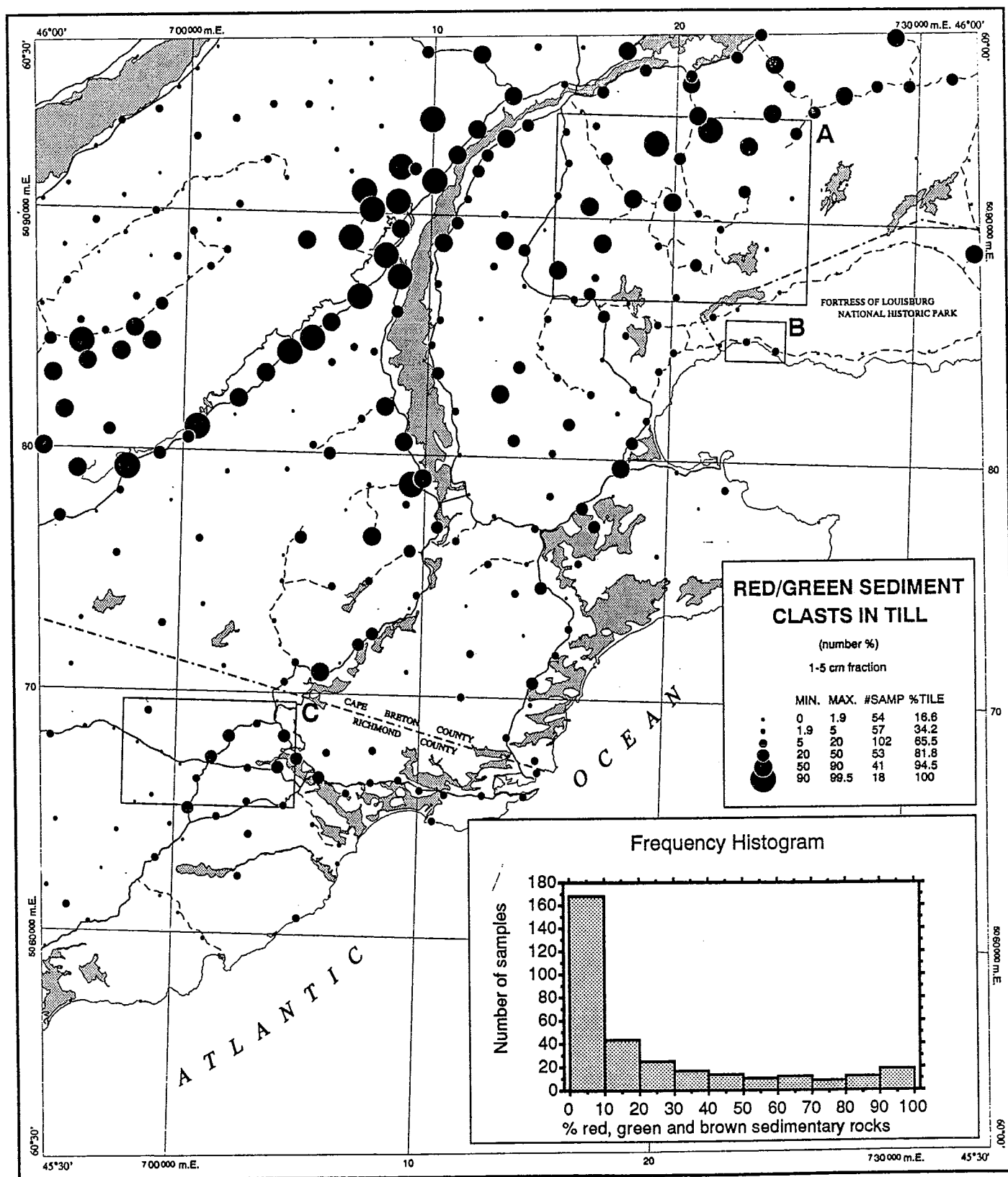
1958: Geology, Mira sheet, Cape Breton and Richmond counties, Cape Breton Island, Nova Scotia; Geological Survey of Canada, Map 1056A (1 inch = 1 mile)



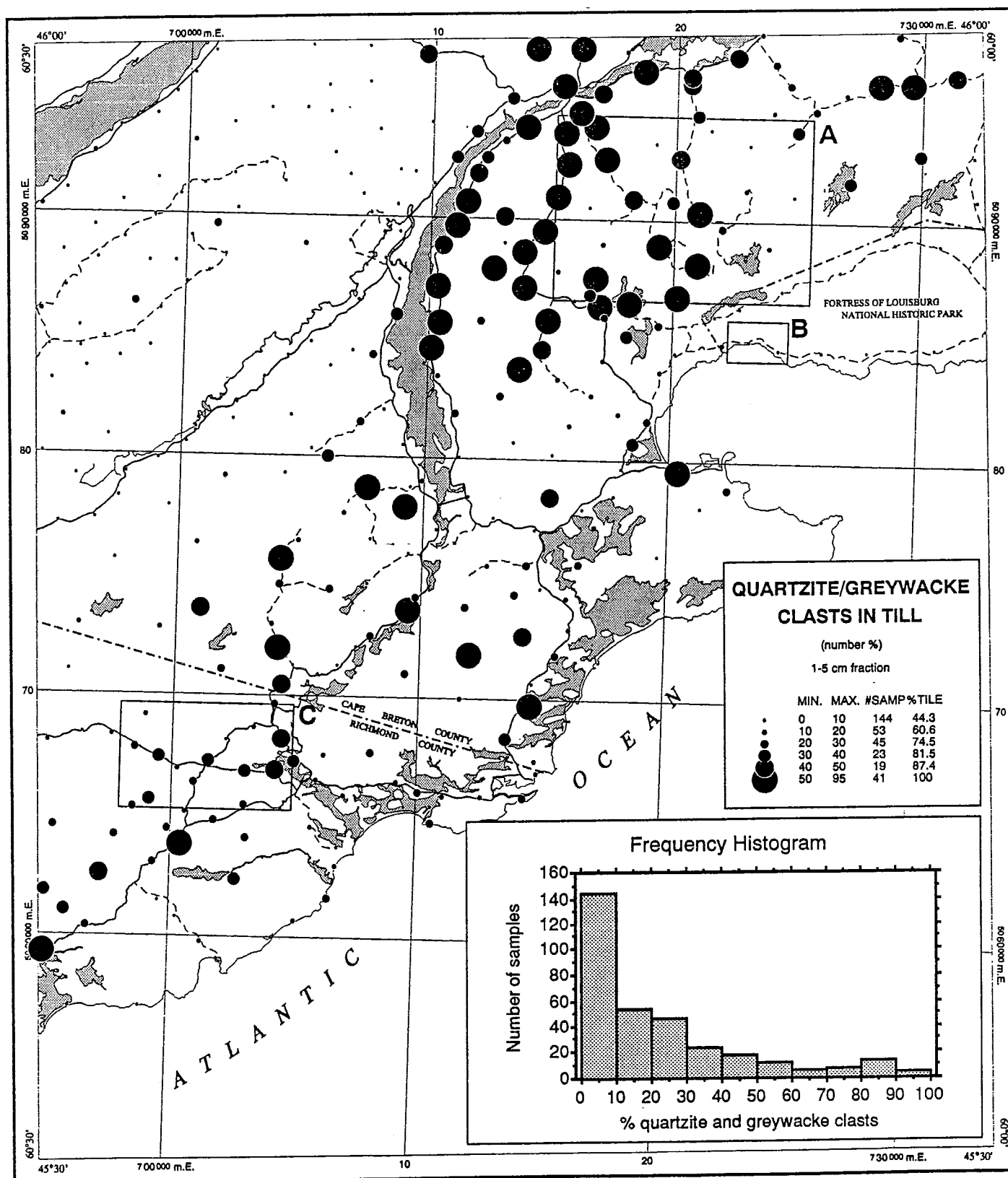
Regional Till Geochemical Sampling Program
Southeastern Cape Breton Island, Nova Scotia



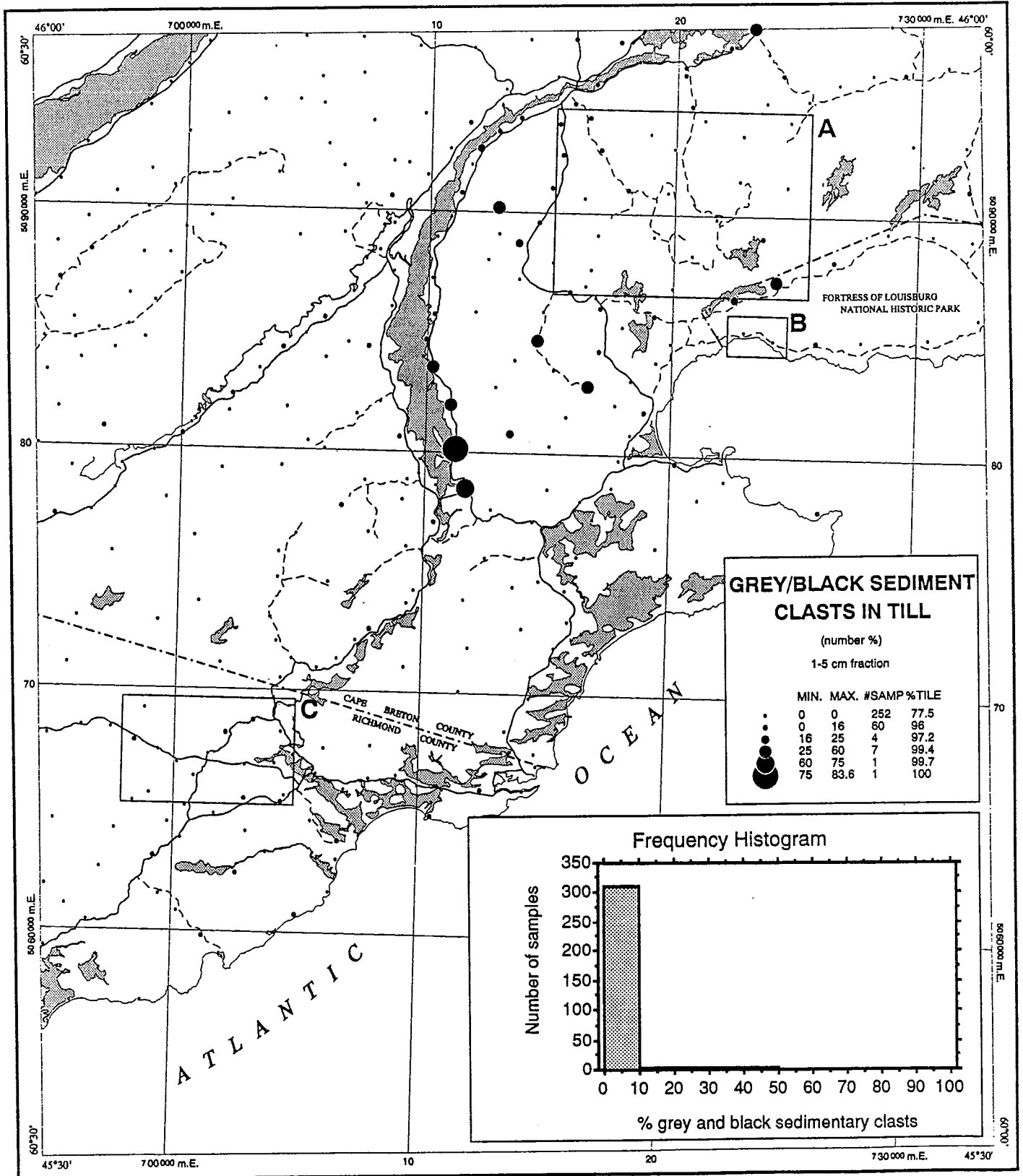
Regional Till Geochemical Sampling Program
Southeastern Cape Breton Island, Nova Scotia



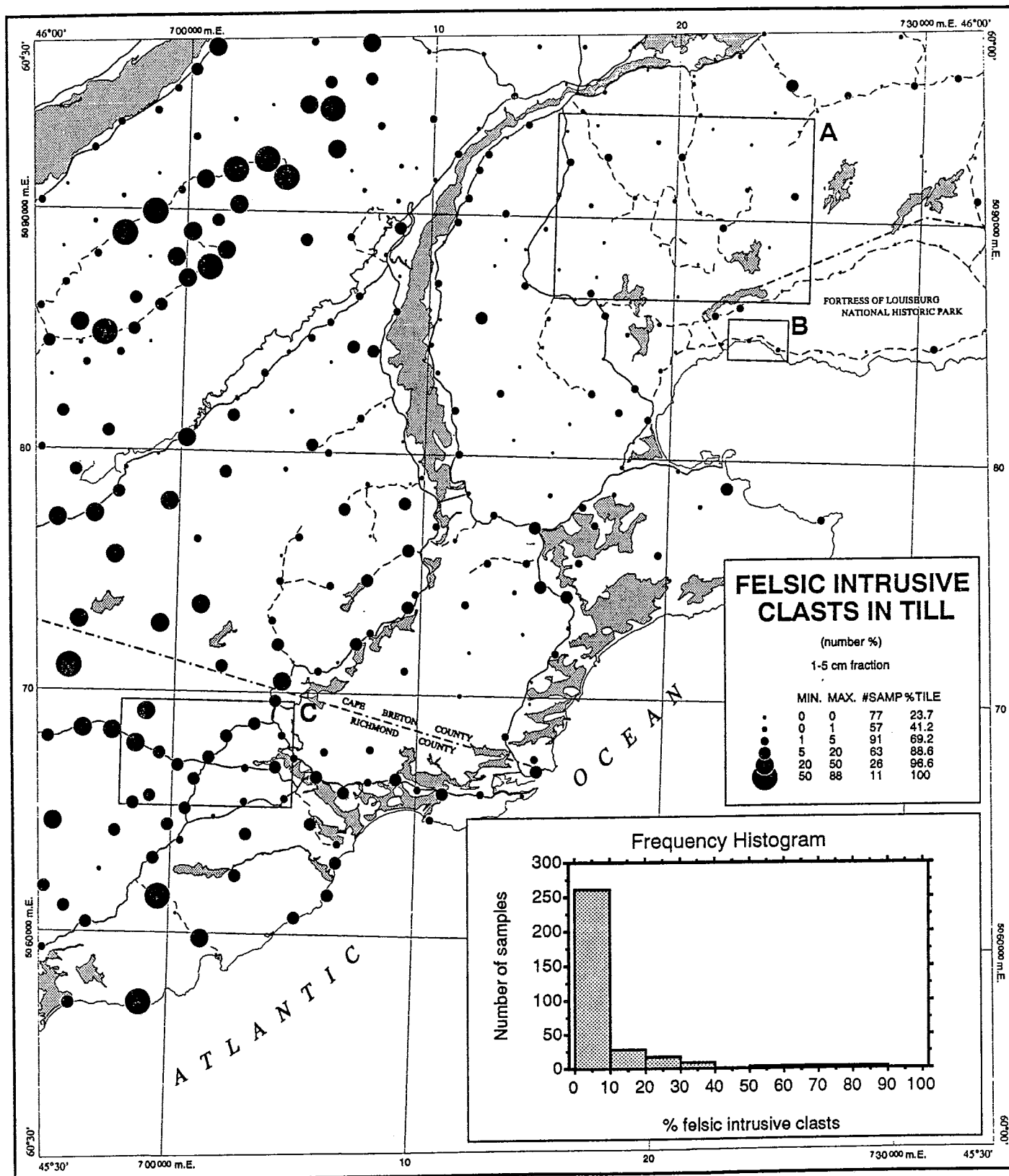
Regional Till Geochemical Sampling Program
Southeastern Cape Breton Island, Nova Scotia



Regional Till Geochemical Sampling Program
Southeastern Cape Breton Island, Nova Scotia



Regional Till Geochemical Sampling Program
Southeastern Cape Breton Island, Nova Scotia



Regional Till Geochemical Sampling Program
Southeastern Cape Breton Island, Nova Scotia

APPENDIX E.2 Deep Cove area pebble lithology data for the 1-5 cm fraction

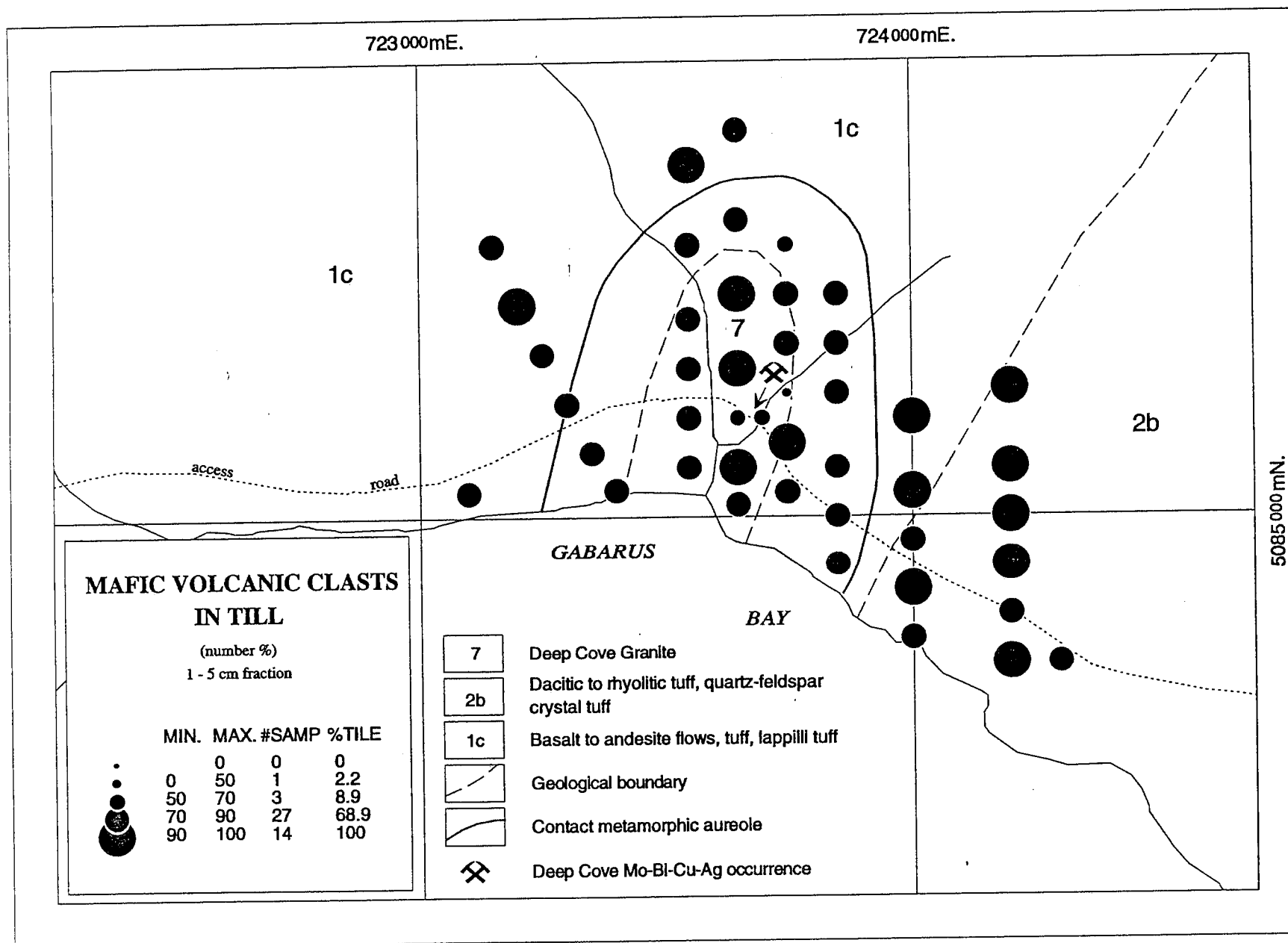
	page
Data listing.....	209
Proportional symbol maps	
Mafic Volcanic clasts.....	211
Felsic volcanic clasts.....	212
Felsic intrusive clasts.....	213
Red, green, brown and purple sedimentary rocks.....	214

Appendix E.2 Pebble lithology data for Deep Cove grid

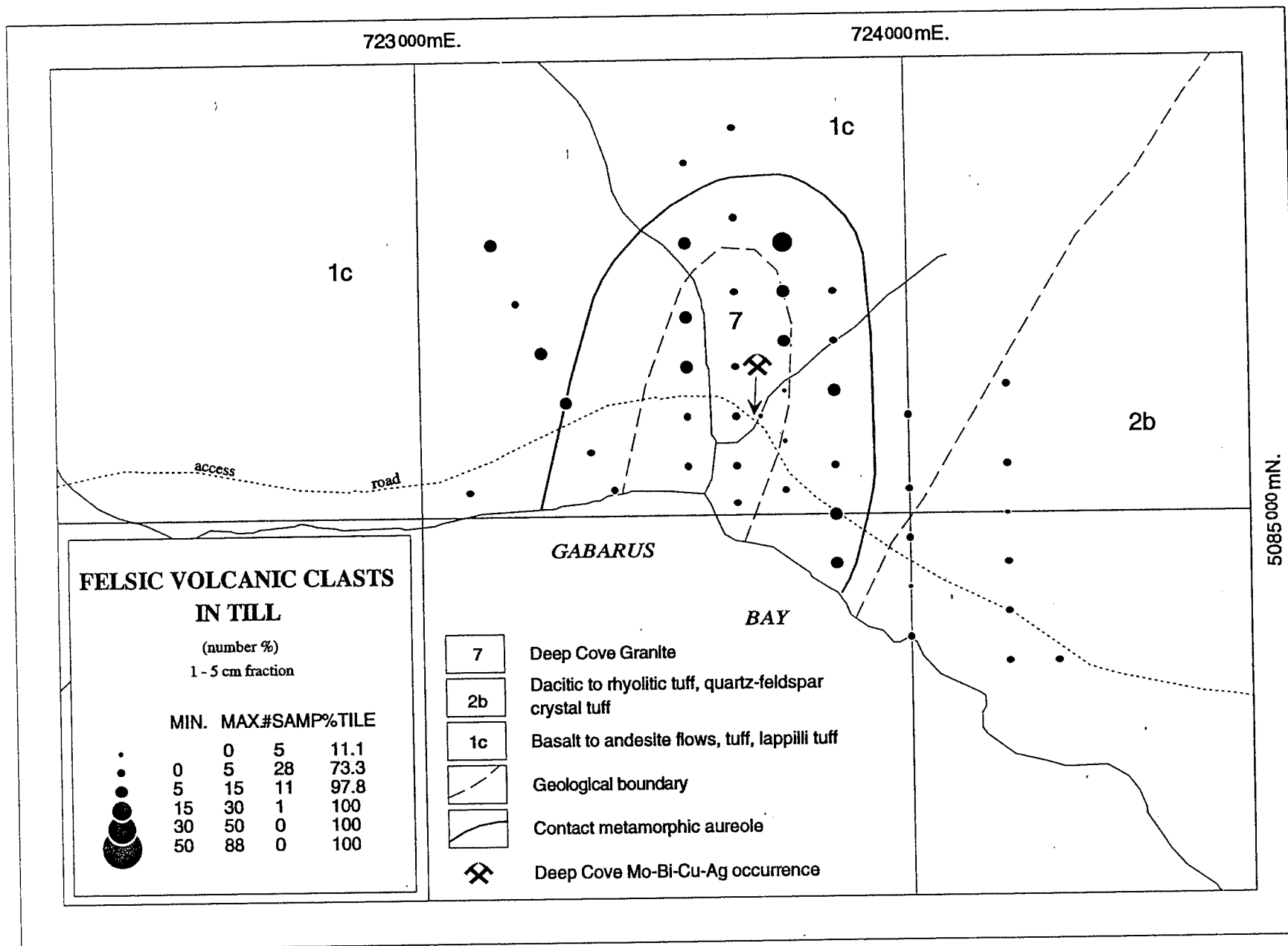
Sample Number	Mafic Volc	Felsic Volc	Rhy	Hnfls	Grnte	Dte	Qtzite	Vein Qtz	R,Gr,Br Seds	Ppl Seds	Gy,Bk Seds	Felsic Intr	Mafic Intr	Lmst,	Other	Total
91DDA0345	89.2	2.0	0.0	0.0	0.8	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0347	88.0	1.2	0.0	0.0	0.4	0.0	0.0	0.4	10.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0362	76.7	0.7	0.0	0.7	1.4	0.0	0.0	0.7	18.6	0.0	1.4	0.0	0.0	0.0	0.0	100.0
91DDA0363	74.2	0.3	0.6	2.3	0.0	0.0	0.6	1.0	13.5	6.8	0.0	0.0	0.0	0.6	0.0	100.0
91DDA0365	89.1	0.4	0.0	0.8	0.0	0.0	0.8	0.8	6.6	0.8	0.8	0.0	0.0	0.0	0.0	100.0
91DDA0367	85.6	2.7	0.3	0.0	0.7	0.0	0.0	0.3	7.0	2.3	1.0	0.0	0.0	0.0	0.0	100.0
91DDA0372	80.1	8.0	0.0	0.3	4.2	0.0	0.6	0.3	4.5	1.9	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0374	80.3	11.3	0.0	0.0	2.7	0.0	0.0	0.5	4.7	0.2	0.2	0.0	0.0	0.0	0.0	100.0
91DDA0376	93.3	2.4	0.2	0.0	0.4	0.0	0.0	0.4	2.8	0.0	0.4	0.0	0.0	0.0	0.0	100.0
91DDA0378	78.8	8.1	0.0	0.6	2.6	0.6	0.4	0.4	6.6	1.5	0.2	0.0	0.0	0.0	0.0	100.0
91DDA0380	85.7	1.2	0.0	0.0	1.4	0.0	0.2	0.5	10.3	0.7	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0382	88.0	2.0	0.4	0.8	0.4	0.0	0.4	0.0	6.0	0.4	1.6	0.0	0.0	0.0	0.0	100.0
91DDA0384	77.8	2.2	0.0	3.1	1.3	0.0	0.0	0.9	12.9	1.3	0.4	0.0	0.0	0.0	0.0	100.0
91DDA0386	86.5	5.1	0.0	2.1	4.6	0.0	0.0	0.0	1.3	0.4	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0388	79.4	13.3	0.4	0.0	0.4	0.0	0.0	0.0	0.9	0.0	0.9	4.7	0.0	0.0	0.0	100.0
91DDA0390	86.0	7.5	0.0	0.0	4.7	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0392	96.5	3.5	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	100.0
91DDA0396	78.6	0.7	0.0	0.0	0.2	0.0	0.0	0.5	19.0	0.0	0.0	1.0	0.0	0.0	0.0	100.0
91DDA0398	80.5	3.5	0.0	0.0	0.4	0.0	0.4	1.2	11.7	0.0	2.3	0.0	0.0	0.0	0.0	100.0
91DDA0400	93.2	0.0	0.0	0.0	5.8	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0404	87.2	6.9	0.0	0.0	4.3	0.0	0.0	0.5	0.5	0.0	0.0	0.5	0.0	0.0	0.0	100.0
91DDA0406	80.7	10.6	0.0	0.0	7.5	0.0	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0408	66.9	18.0	0.0	0.0	8.6	0.0	0.0	0.7	5.0	0.0	0.7	0.0	0.0	0.0	0.0	100.0
91DDA0410	10.8	0.0	0.0	0.0	0.0	86.1	0.0	2.7	0.0	0.0	0.4	0.0	0.0	0.0	0.0	100.0
91DDA0412	93.0	0.6	0.0	0.0	0.6	0.0	0.0	0.6	5.1	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0414	96.0	1.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0416	82.6	4.3	0.0	0.5	9.2	0.0	0.5	0.5	1.6	0.0	0.0	0.5	0.0	0.0	0.0	100.0
91DDA0418	85.6	1.7	0.0	0.0	4.4	0.0	0.6	1.7	5.0	0.0	0.0	1.1	0.0	0.0	0.0	100.0
91DDA0421	63.1	3.1	0.0	0.3	20.1	0.0	1.0	0.0	11.6	0.0	0.0	0.7	0.0	0.0	0.0	100.0
91DDA0423	77.2	11.0	0.0	0.0	2.8	0.0	0.0	0.0	6.2	0.0	0.0	2.8	0.0	0.0	0.0	100.0
91DDA0426	86.9	7.4	0.0	0.0	1.1	0.0	0.0	1.1	0.6	0.0	0.0	2.8	0.0	0.0	0.0	100.0
91DDA0428	85.3	3.9	0.0	0.0	0.0	0.0	0.0	0.4	10.4	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0430	86.7	1.1	0.0	0.0	1.8	0.0	0.7	0.0	2.9	0.0	0.0	6.8	0.0	0.0	0.0	100.0
91DDA0432	80.1	9.3	0.0	0.0	2.0	0.0	0.0	2.6	0.7	0.0	0.0	5.3	0.0	0.0	0.0	100.0
91DDA0434	75.7	4.2	0.0	0.0	9.5	0.0	0.0	3.7	2.6	1.1	0.0	3.2	0.0	0.0	0.0	100.0
91DDA0435	94.3	1.5	0.0	0.0	2.3	0.0	0.0	0.0	0.4	0.0	0.0	1.5	0.0	0.0	0.0	100.0

Appendix E.2 Pebble lithology data for Deep Cove grid

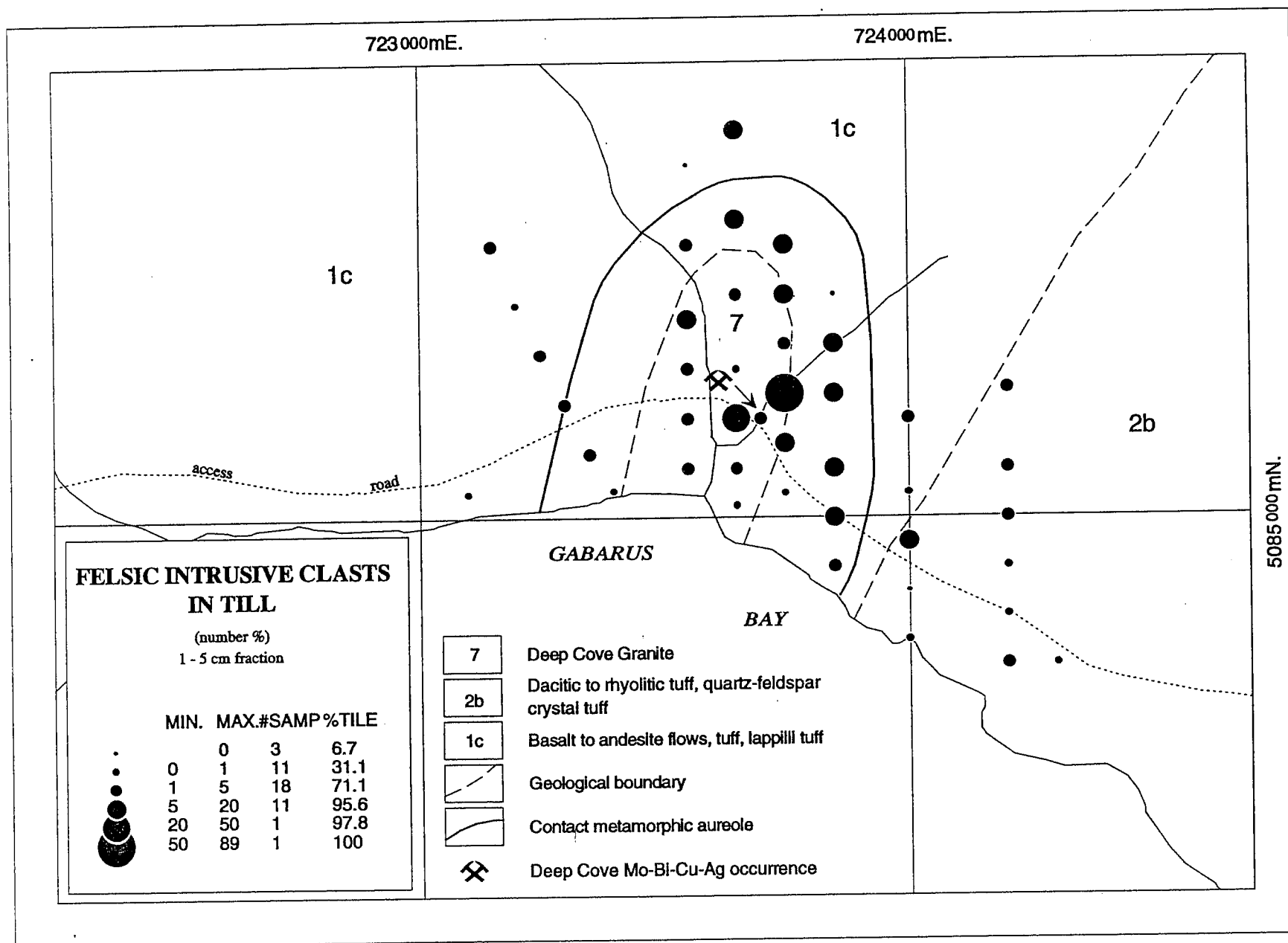
Sample Number	Mafic Volc	Felsic Volc	Rhy	Hnfls	Grnte	Dte	Qtzite	Vein Qtz	R,Gr,Br Seds	Ppl Seds	Gy,Bk Seds	Felsic Intr	Mafic Intr	Lmst,	Other	Total
91DDA0437	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0441	87.5	2.4	0.0	0.0	0.0	0.0	0.0	2.1	7.0	0.0	0.0	0.9	0.0	0.0	0.0	100.0
91DDA0443	92.2	4.4	0.0	0.0	2.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0445	86.9	1.8	0.0	0.0	0.0	0.0	0.3	2.1	8.6	0.0	0.0	0.3	0.0	0.0	0.0	100.0
91DDA0447	96.2	1.1	0.0	0.0	0.8	0.0	0.0	1.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0449	93.8	2.8	0.0	0.0	2.8	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0451	91.5	0.7	0.0	0.0	0.4	0.0	0.0	0.7	6.6	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0453	87.9	1.6	0.0	0.0	8.9	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	100.0
91DDA0455	94.8	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.5	0.0	0.0	1.5	0.0	0.0	0.0	100.0
91DDA0457	91.9	3.2	0.0	0.0	0.5	0.0	0.0	1.8	0.0	0.0	0.0	2.7	0.0	0.0	0.0	100.0
91DDA0459	95.3	2.2	0.0	0.0	0.4	0.0	0.0	0.4	0.7	0.0	0.0	1.1	0.0	0.0	0.0	100.0
91DDA0463	19.6	0.5	0.0	0.0	68.9	0.0	1.0	1.4	2.9	0.0	0.0	5.7	0.0	0.0	0.0	100.0
91DDA0465	86.7	0.0	0.0	0.0	1.7	0.0	1.7	2.8	6.6	0.6	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0467	65.7	2.4	0.8	0.8	3.6	0.0	1.2	1.2	21.4	0.8	1.6	0.4	0.0	0.0	0.0	100.0
91DDA0468	77.7	1.9	0.5	0.0	0.9	0.0	1.4	1.4	13.5	1.9	0.0	0.9	0.0	0.0	0.0	100.0
91DDA0471	65.9	2.2	0.4	1.4	1.8	0.0	1.4	0.7	25.4	0.0	0.4	0.4	0.0	0.0	0.0	100.0
91DDA0473	70.7	2.6	0.0	0.0	4.2	0.0	1.0	2.6	17.3	0.0	1.0	0.5	0.0	0.0	0.0	100.0
91DDA0475	57.1	0.0	0.0	1.3	3.5	0.0	0.0	3.0	32.5	1.3	0.0	1.3	0.0	0.0	0.0	100.0



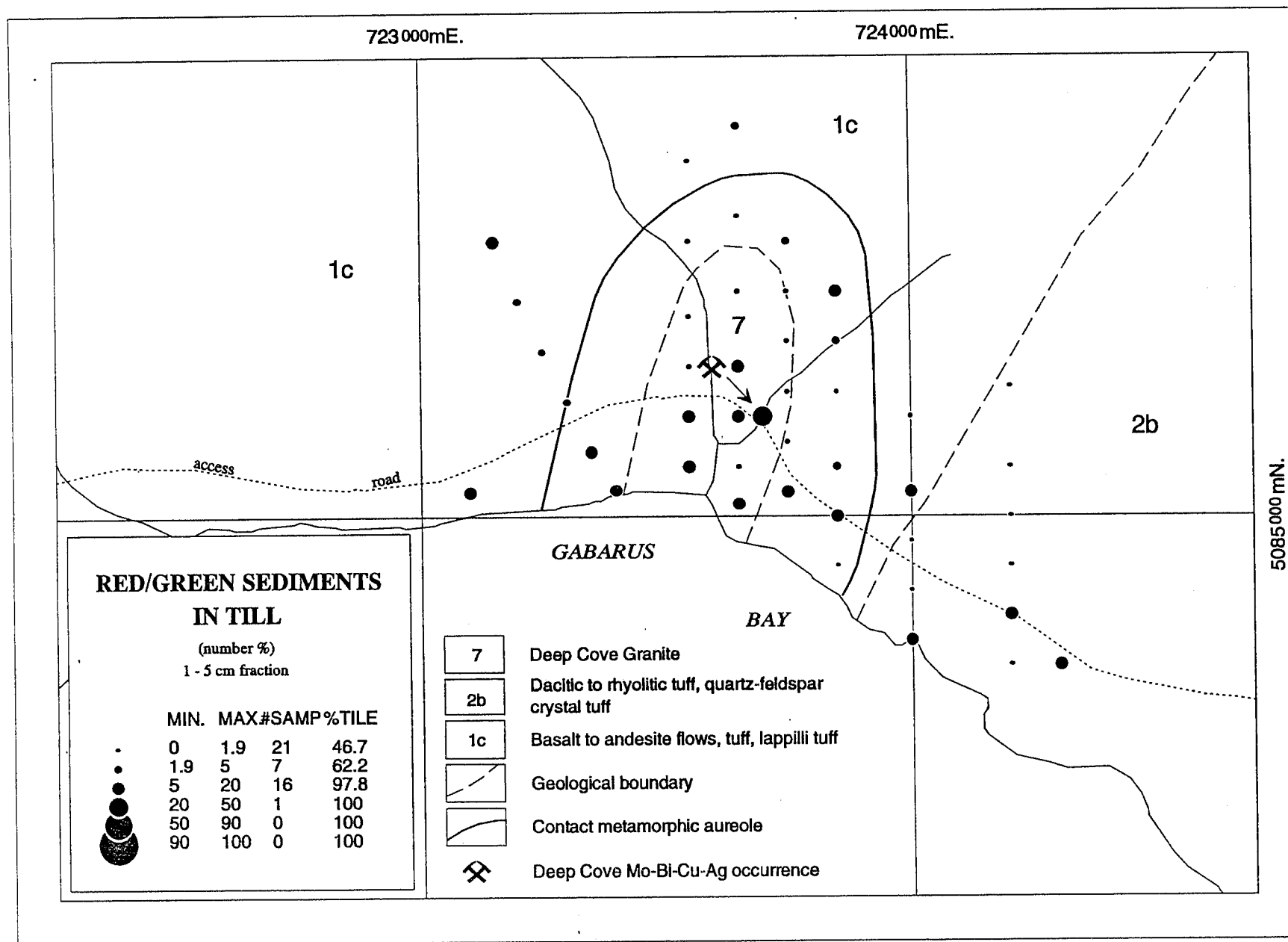
Detailed Till Sampling Survey - Deep Cove Area



Detailed Till Sampling Survey - Deep Cove Area



Detailed Till Sampling Survey - Deep Cove Area



Detailed Till Sampling Survey - Deep Cove Area

**APPENDIX E.3 Blue Mountain area pebble lithology data
for the 1-5 cm fraction**

	page
Data listing.....	217
Proportional symbol maps	
Bedrock map legend.....	219
Hornfels clasts.....	220
Mafic Volcanic clasts.....	221
Grey and black sedimentary rocks.....	222
Red, green, brown and purple sedimentary rocks.....	223
Felsic intrusive clasts.....	224
Felsic volcanic clasts.....	225

Appendix E.3 Pebble lithology data for Blue Mountain grid

Sample Number	Mafic Volc	Felsic Volc	Rhy	Hnfls	Grnte	Dte	Qtzite	Vein Qtz	R,Gr,Br Seds	Ppl Seds	Gy,Bk Seds	Felsic Intr	Mafic Intr	Lmst,	Other	Total
91DDA0028	0.7	0.0	0.0	19.7	0.0	0.0	0.0	0.0	4.1	0.0	75.5	0.0	0.0	0.0	0.0	100.0
91DDA0031	5.4	0.0	0.0	30.4	0.0	0.0	5.4	0.0	10.7	21.4	25.0	1.8	0.0	0.0	0.0	100.0
91DDA0033	1.1	1.7	0.0	11.3	0.0	0.0	1.1	0.0	2.3	0.6	81.9	0.0	0.0	0.0	0.0	100.0
91DDA0035	2.7	0.0	0.0	33.5	0.0	0.0	2.7	0.0	0.0	0.5	18.7	41.8	0.0	0.0	0.0	100.0
91DDA0037	7.4	1.1	0.0	91.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0039	0.0	0.9	0.0	81.8	0.0	0.0	0.9	1.4	1.9	0.0	13.1	0.0	0.0	0.0	0.0	100.0
91DDA0041	0.0	0.5	0.0	99.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0043	1.5	1.5	0.0	78.9	0.4	0.0	8.0	1.5	5.5	0.0	0.0	2.9	0.0	0.0	0.0	100.0
91DDA0045	1.9	0.0	0.0	84.4	0.0	0.0	5.2	1.9	0.9	0.0	1.4	4.2	0.0	0.0	0.0	100.0
91DDA0047	3.6	1.2	0.0	34.5	0.0	0.0	0.6	1.2	6.0	0.0	48.2	4.8	0.0	0.0	0.0	100.0
91DDA0049	13.2	0.7	0.0	37.1	0.0	0.0	13.2	0.7	4.0	3.3	23.8	4.0	0.0	0.0	0.0	100.0
91DDA0051	3.0	0.0	0.0	89.1	0.0	0.0	2.4	0.6	1.8	0.0	0.0	3.0	0.0	0.0	0.0	100.0
91DDA0053	4.4	0.5	0.0	16.5	0.0	0.0	4.4	1.0	46.6	23.3	0.0	3.4	0.0	0.0	0.0	100.0
91DDA0055	2.9	1.6	0.0	22.9	0.0	0.0	4.1	0.8	19.6	30.6	15.1	2.4	0.0	0.0	0.0	100.0
91DDA0057	2.1	0.0	0.0	24.8	0.0	0.0	1.3	0.4	29.5	13.2	23.9	4.7	0.0	0.0	0.0	100.0
91DDA0059	0.5	0.0	0.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0	84.6	1.4	0.0	0.0	0.0	100.0
91DDA0061	3.6	0.0	0.0	4.4	0.0	0.0	34.5	3.6	0.0	0.0	47.0	6.8	0.0	0.0	0.0	100.0
91DDA0063	16.6	0.0	0.0	8.1	0.0	0.0	42.2	3.3	0.0	0.0	24.6	5.2	0.0	0.0	0.0	100.0
91DDA0065	6.2	0.0	0.0	9.3	0.0	0.0	46.0	6.2	1.9	3.1	24.8	2.5	0.0	0.0	0.0	100.0
91DDA0067	2.9	0.0	0.0	45.7	1.0	0.0	43.8	2.9	1.9	0.0	0.0	1.9	0.0	0.0	0.0	100.0
91DDA0069	5.0	0.0	0.0	0.0	0.0	0.0	5.5	1.0	3.0	0.0	85.5	0.0	0.0	0.0	0.0	100.0
91DDA0071	3.7	0.0	0.0	18.7	0.0	0.0	61.2	5.6	2.8	0.0	7.9	0.0	0.0	0.0	0.0	100.0
91DDA0073	2.4	0.0	0.0	87.4	0.0	0.0	4.8	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	100.0
91DDA0075	1.1	0.0	0.0	49.2	0.0	0.0	35.4	2.8	4.4	0.0	7.2	0.0	0.0	0.0	0.0	100.0
91DDA0077	0.0	0.0	0.0	88.9	0.0	0.0	8.5	0.5	0.0	0.0	2.0	0.0	0.0	0.0	0.0	100.0
91DDA0079	3.4	0.0	0.0	26.9	0.0	0.0	65.9	3.4	0.0	0.0	0.0	0.5	0.0	0.0	0.0	100.0
91DDA0081	9.2	0.8	0.0	25.4	0.0	0.0	53.1	2.3	7.7	0.0	0.0	1.5	0.0	0.0	0.0	100.0
91DDA0083	8.3	2.3	0.8	20.5	0.0	0.0	51.5	8.3	4.5	0.0	3.0	0.8	0.0	0.0	0.0	100.0
91DDA0085	6.1	0.0	0.0	28.4	0.5	0.0	46.2	2.5	10.7	4.1	1.5	0.0	0.0	0.0	0.0	100.0
91DDA0087	1.3	0.0	0.0	3.2	0.0	0.0	0.0	1.3	1.3	76.8	15.5	0.6	0.0	0.0	0.0	100.0
91DDA0089	6.4	1.2	0.6	13.3	0.0	0.0	54.3	4.0	4.0	0.0	15.0	1.2	0.0	0.0	0.0	100.0
91DDA0091	79.1	0.0	0.0	4.3	0.0	0.0	8.6	2.5	4.3	1.2	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0093	28.2	1.6	0.0	16.5	0.5	0.5	38.3	2.7	5.3	3.2	3.2	0.0	0.0	0.0	0.0	100.0
91DDA0095	94.6	1.4	0.0	3.2	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	100.0
91DDA0096	75.4	0.5	0.0	3.1	0.0	0.0	10.5	5.2	1.0	3.1	1.0	0.0	0.0	0.0	0.0	100.0
91DDA0099	67.3	3.6	0.0	8.1	0.0	0.0	9.0	7.6	2.2	0.0	2.2	0.0	0.0	0.0	0.0	100.0

Appendix E.3 Pebble lithology data for Blue Mountain grid

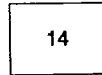
Sample Number	Mafic Volc	Felsic Volc	Rhy	Hnfls	Grnte	Dte	Qtzite	Vein Qtz	R,Gr,Br Seds	Ppl Seds	Gy,Bk Seds	Felsic Intr	Mafic Intr	Lmst,	Other	Total
91DDA0101	0.0	0.0	0.4	1.8	0.0	0.0	1.4	0.4	7.7	3.5	84.2	0.7	0.0	0.0	0.0	100.0
91DDA0103	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	99.1	0.0	0.0	0.0	0.0	100.0
91DDA0105	0.9	1.4	0.0	3.3	0.0	0.0	2.8	0.5	2.3	1.9	85.0	1.9	0.0	0.0	0.0	100.0
91DDA0107	1.5	0.0	0.0	0.0	0.0	0.0	7.3	1.0	0.0	0.0	89.3	1.0	0.0	0.0	0.0	100.0
91DDA0109	1.4	0.0	0.0	74.1	0.0	0.0	2.3	0.0	3.7	0.0	11.1	7.4	0.0	0.0	0.0	100.0
91DDA0111	5.9	2.4	0.0	36.5	0.0	0.0	10.6	2.4	7.1	0.0	24.7	9.4	0.0	0.0	1.2	100.0
91DDA0113	2.9	0.0	0.5	2.4	0.0	0.5	4.4	1.9	3.9	1.0	81.6	1.0	0.0	0.0	0.0	100.0
91DDA0115	7.4	1.2	0.0	74.8	0.0	0.0	5.5	1.2	7.4	0.0	0.0	2.5	0.0	0.0	0.0	100.0
91DDA0117	2.4	0.8	0.0	76.2	0.0	0.0	7.1	1.6	11.9	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0119	94.6	1.1	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	3.2	0.0	0.0	0.0	0.0	100.0
91DDA0121	97.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	100.0
91DDA0123	4.5	0.0	0.4	29.0	0.0	0.0	8.0	0.9	1.8	0.4	54.5	0.4	0.0	0.0	0.0	100.0
91DDA0125	1.5	1.5	0.0	81.9	0.0	0.0	5.9	0.0	7.4	0.0	0.0	2.0	0.0	0.0	0.0	100.0
91DDA0127	1.9	0.5	0.0	93.8	0.0	0.0	3.3	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	100.0
91DDA0129	82.9	8.1	0.0	0.0	0.0	0.0	6.2	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0131	63.0	3.7	0.0	10.2	0.0	0.0	13.0	3.7	2.8	0.9	0.0	2.8	0.0	0.0	0.0	100.0
91DDA0142	0.9	0.0	0.0	3.7	0.0	0.0	52.5	2.8	18.0	0.0	22.1	0.0	0.0	0.0	0.0	100.0
91DDA0144	91.9	4.3	0.0	0.5	0.0	0.0	1.1	0.5	0.0	0.0	0.5	1.1	0.0	0.0	0.0	100.0
91DDA0146	56.6	20.7	0.0	5.1	0.0	0.0	7.6	0.0	0.5	7.6	0.0	2.0	0.0	0.0	0.0	100.0
91DDA0148	7.2	3.6	0.5	15.8	0.0	0.0	16.2	6.3	7.7	37.4	2.3	3.2	0.0	0.0	0.0	100.0
91DDA0150	71.6	10.0	0.0	1.9	0.0	0.0	4.3	1.4	5.7	0.5	2.8	1.4	0.0	0.0	0.5	100.0
91DDA0152	69.4	13.9	0.0	2.8	0.0	0.0	1.4	2.8	5.6	0.7	3.5	0.0	0.0	0.0	0.0	100.0
91DDA0154	68.6	12.7	0.0	0.0	0.0	0.0	5.1	0.0	11.0	0.8	0.8	0.8	0.0	0.0	0.0	100.0
91DDA0156	64.2	13.2	0.6	1.9	0.0	0.0	1.3	1.9	14.5	0.0	2.5	0.0	0.0	0.0	0.0	100.0
91DDA0158	76.3	8.1	0.0	1.7	0.0	0.0	4.0	0.6	7.5	1.2	0.0	0.6	0.0	0.0	0.0	100.0
91DDA0160	0.0	0.0	0.0	0.7	0.0	0.0	40.7	0.0	7.3	0.0	51.3	0.0	0.0	0.0	0.0	100.0
91DDA0162	86.5	3.8	0.0	1.0	0.0	0.0	2.4	0.0	4.8	0.0	1.4	0.0	0.0	0.0	0.0	100.0
91DDA0164	92.4	2.8	0.0	0.5	0.0	0.0	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0166	85.4	6.0	0.0	1.0	0.0	0.0	0.0	1.0	5.5	1.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0168	86.6	2.4	0.0	0.0	0.0	0.0	4.3	0.6	6.1	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0170	98.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0172	55.7	0.9	0.0	0.0	0.0	0.0	1.4	2.3	2.7	37.1	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0173	78.2	4.4	0.0	3.6	0.0	0.0	9.5	0.4	2.8	0.8	0.4	0.0	0.0	0.0	0.0	100.0

LEGEND

Blue Mountain Area

CAMBRIAN

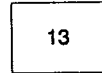
LATE CAMBRIAN



14

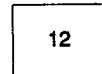
MACNEIL FORMATION: grey shale, siltstone; black limestone

MIDDLE CAMBRIAN



13

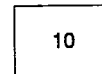
MACLEAN BROOK FORMATION: grey quartz sandstone, siltstone, shale



12

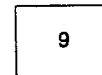
TROUT BROOK FORMATION: grey to red-brown cleaved shale and siltstone

EARLY CAMBRIAN



10

CANOE BROOK FORMATION: red-brown calcareous mudstone, siltstone; rare pink limestone



9

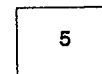
MACCODRUM FORMATION: light grey to green micaceous siltstone, sandstone



8

white quartz arenite

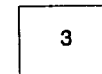
LATE PRECAMBRIAN TO EARLY CAMBRIAN



5

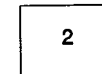
maroon to red quartzite, quartz pebble conglomerate; micaceous sandstone

FOURCHU GROUP (INCLUDING UNITS OF THE MAIN A DIEU SEQUENCE AND COASTAL AND STIRLING BELTS)



3

Volcanogenic Sediments: volcanic conglomerate, wacke, siltstone intercalated with volcanic flow and pyroclastic units



2

Intermediate to Felsic Volcanics: 2a, dacitic to rhyolitic flows; 2b, dacitic to rhyolitic tuff, quartz-feldspar crystal tuff; 2c, undivided



1

Mafic to Intermediate Volcanics: 1a, basalt to andesite flows; 1b, tuff, lapilli tuff, basalt to andesite lithic crystal tuff; 1c, undivided



contact metamorphic aureole



fault

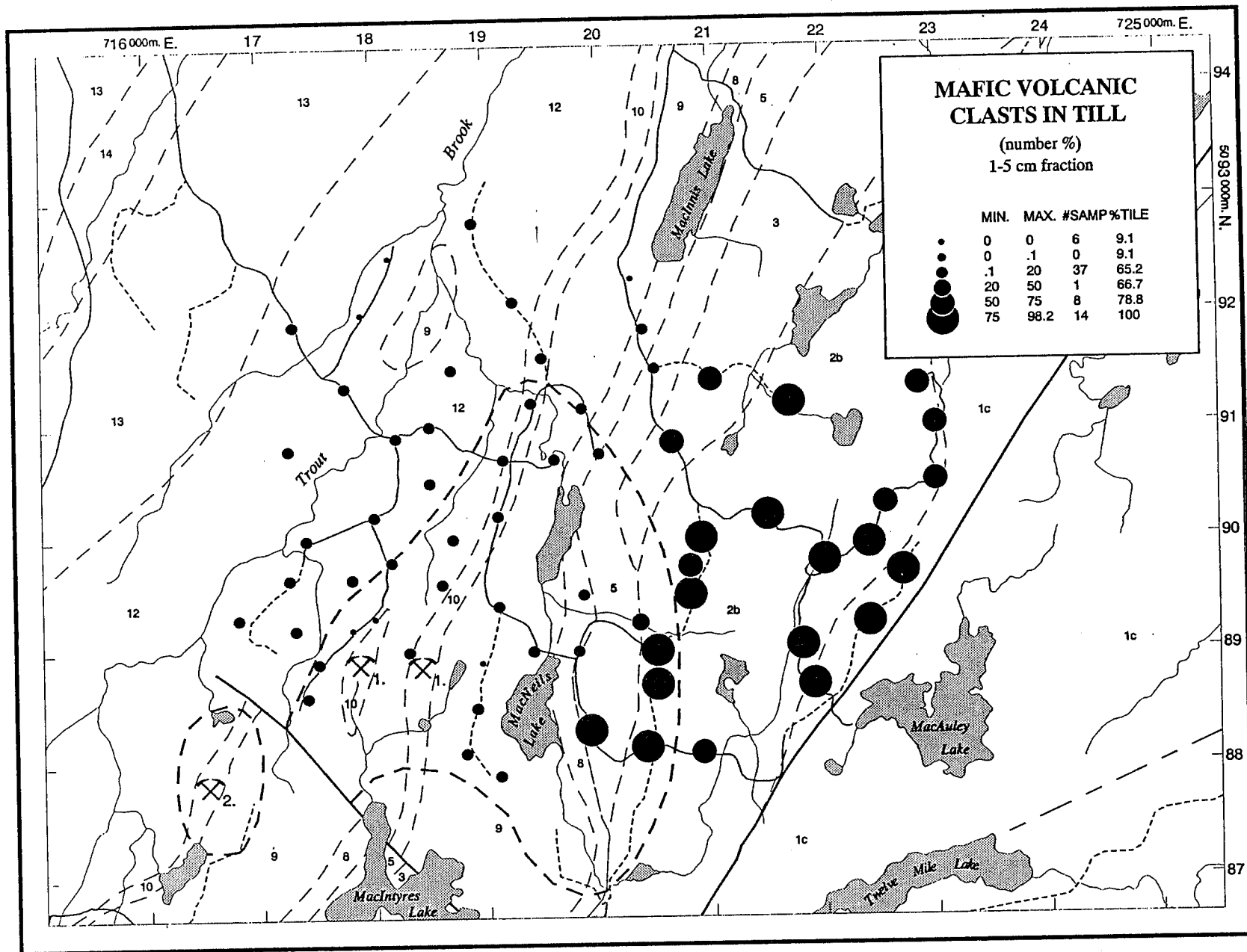


geological boundary



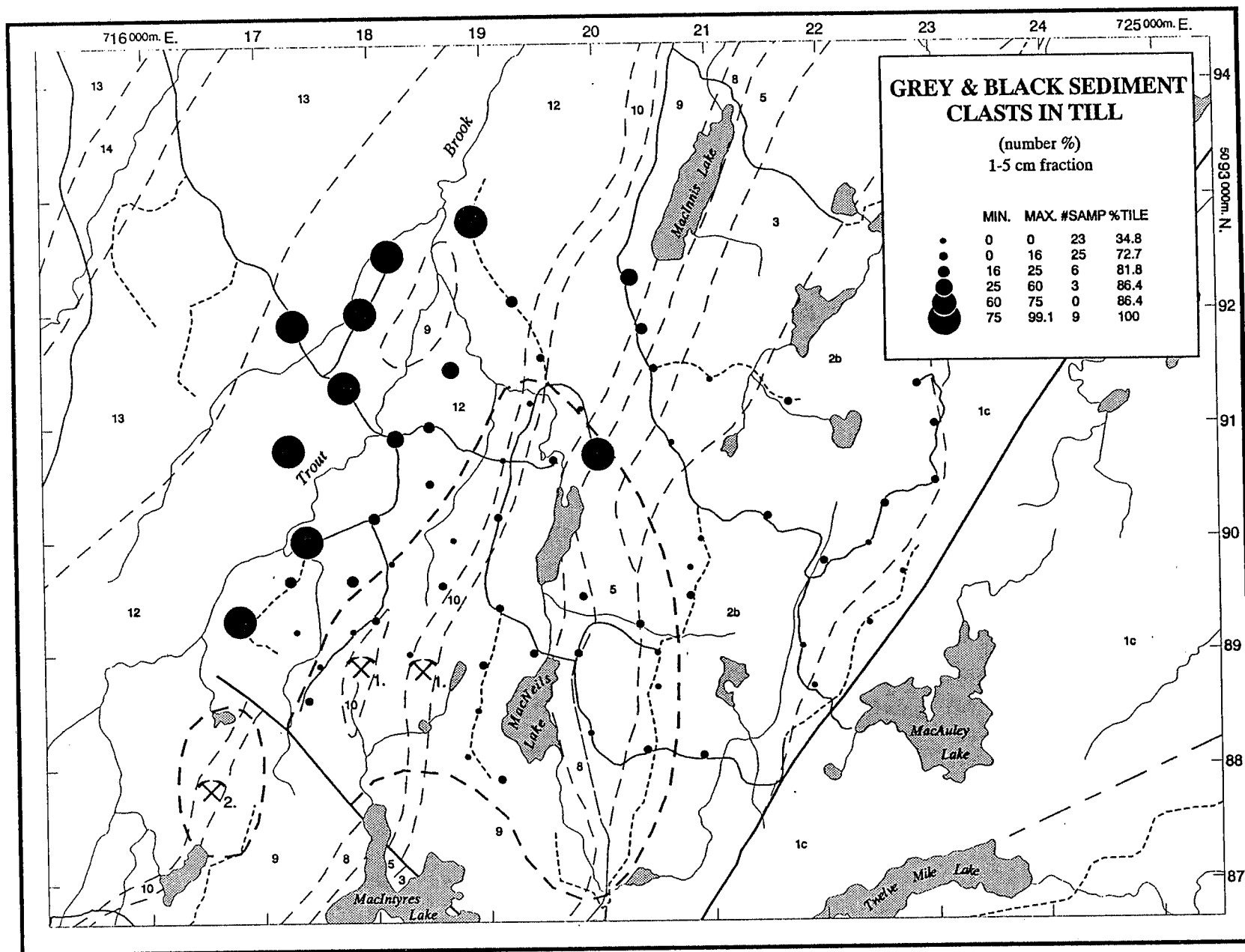
metallic mineral occurrence

1. Macdonald Lake Pb-Zn
2. Copper Shaft Cu-Zn-Pb-Mo-Ag-Bi



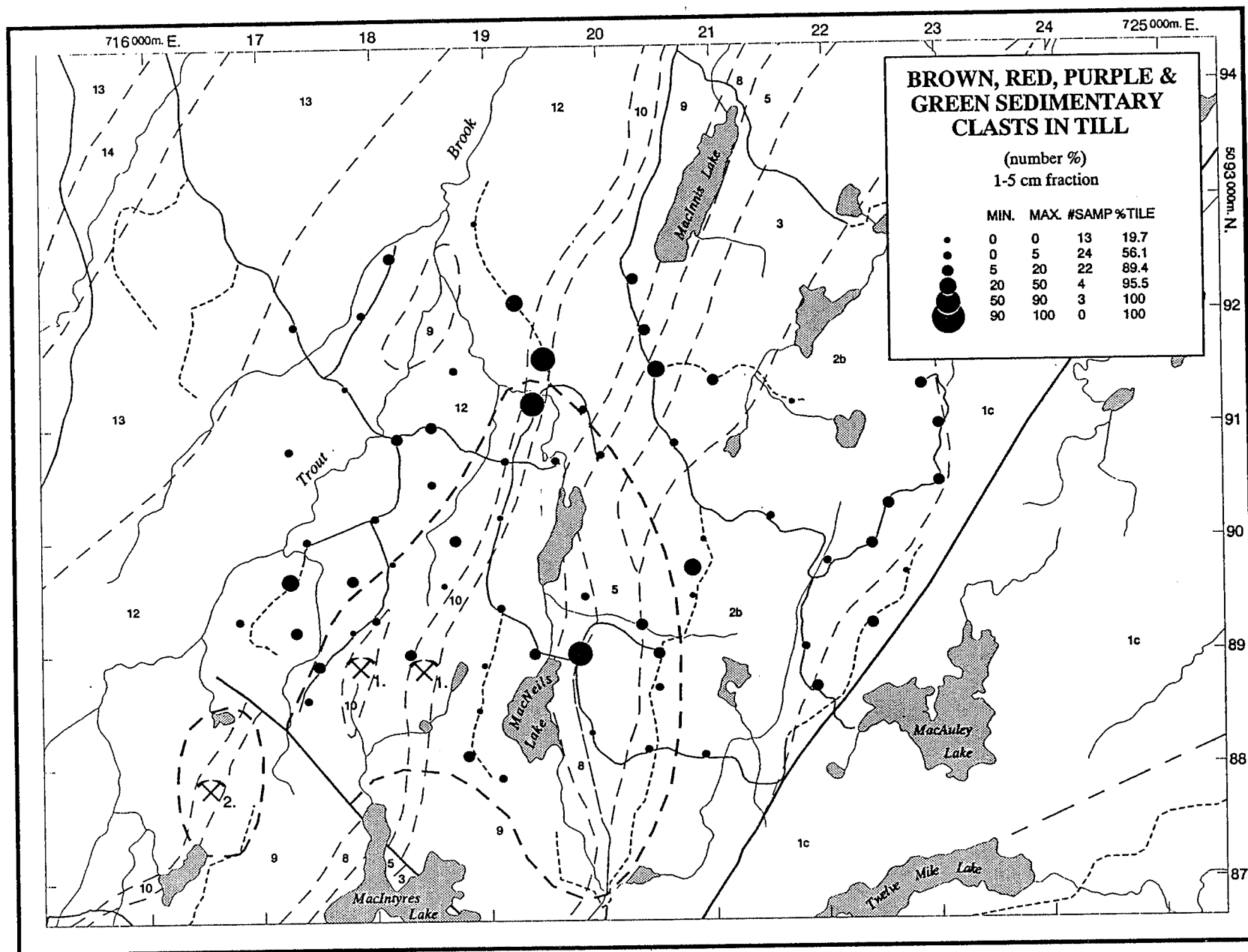
Detailed Till Sampling Survey — Blue Mountain Area

SCALE 1:50 000



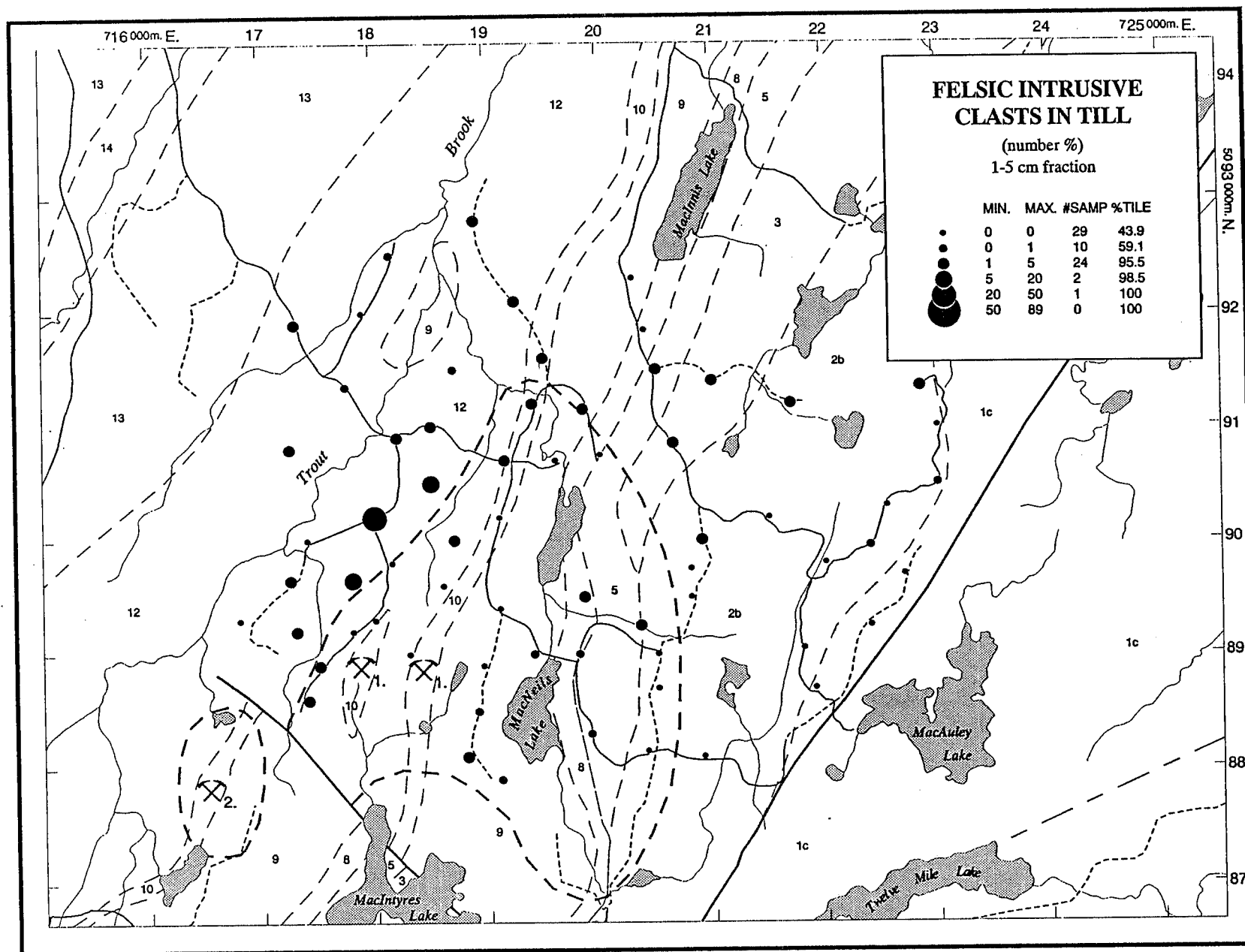
Detailed Till Sampling Survey — Blue Mountain Area

SCALE 1:50 000



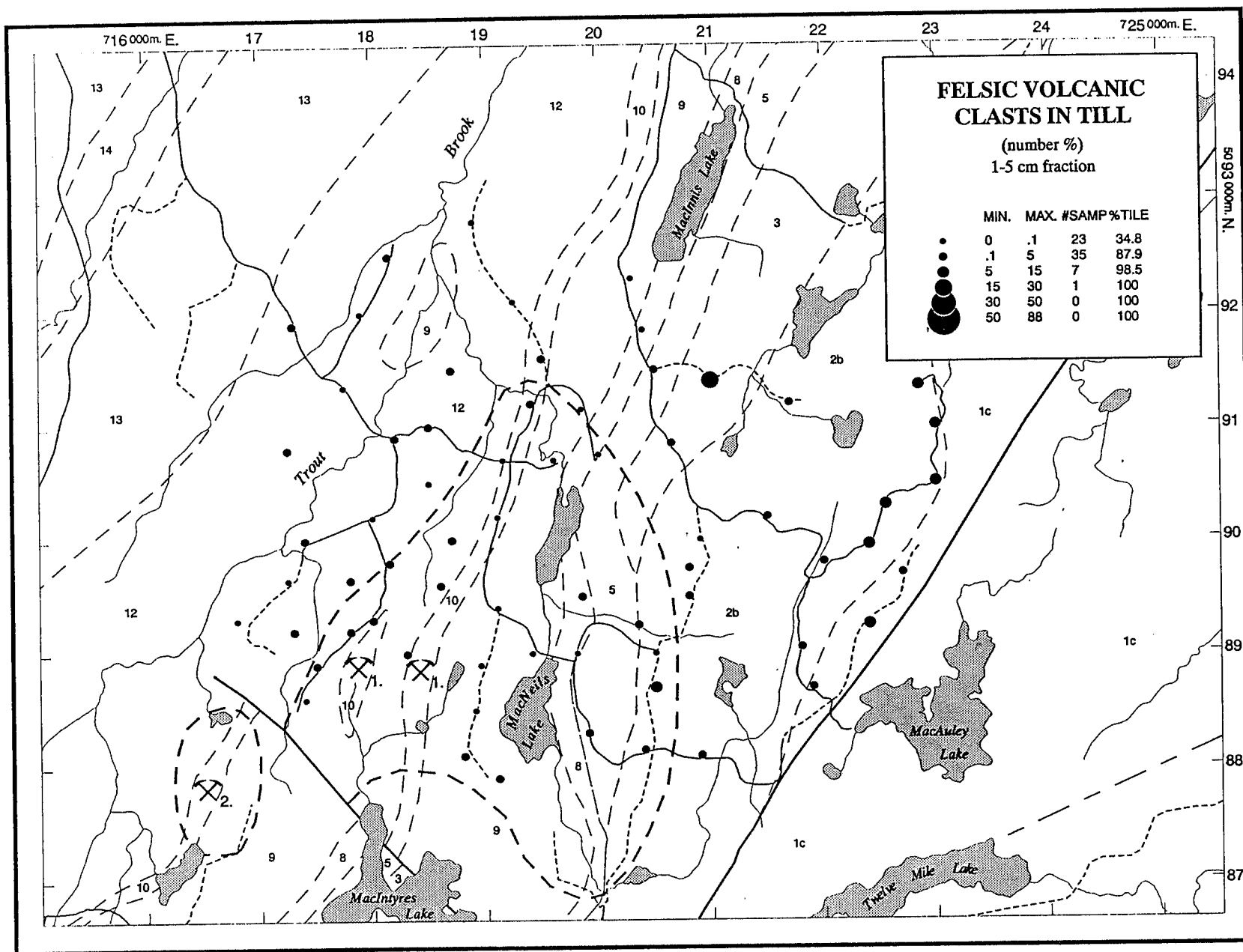
Detailed Till Sampling Survey — Blue Mountain Area

SCALE 1:50 000



Detailed Till Sampling Survey — Blue Mountain Area

SCALE 1:50 000



Detailed Till Sampling Survey — Blue Mountain Area

SCALE 1:50 000

APPENDIX E.4 Stirling area pebble lithology data for the 1-5 cm fraction

	page
Data listing.....	229
Proportional symbol maps	
Bedrock map legend.....	231
Mafic Intrusive clasts.....	232
Felsic volcanic clasts.....	233
Felsic intrusive clasts.....	234
Mafic volcanic clasts.....	235
Red, green, brown and purple sedimentary rocks.....	236
Quartzite clasts.....	237

Appendix E.4 Pebble lithology data for Stirling grid

Sample Number	Mafic Volc	Felsic Volc	Rhy	Hnfls	Grnte	Dte	Qtzite	Vein Qtz	R,Gr,Br Seds	Ppl Seds	Gy,Bk Seds	Felsic Intr	Mafic Intr	Lmst,	Other	Total
91DDA0176	26.9	3.8	3.8	0.0	11.0	0.0	25.8	0.0	10.4	0.0	2.2	5.5	10.4	0.0	0.0	100.0
91DDA0178	43.3	5.1	0.6	0.0	14.6	0.6	17.2	1.3	8.9	3.2	0.0	0.0	5.1	0.0	0.0	100.0
91DDA0180	25.1	7.3	0.5	0.0	8.2	0.0	25.1	0.9	19.6	2.3	0.5	1.8	8.7	0.0	0.0	100.0
91DDA0182	31.6	5.7	1.0	0.0	17.6	0.0	15.0	0.5	11.4	3.6	0.0	5.2	7.3	0.0	1.0	100.0
91DDA0186	40.0	4.3	1.7	0.0	13.9	0.9	21.3	0.4	11.7	0.0	0.0	0.9	4.8	0.0	0.0	100.0
91DDA0188	19.9	8.0	2.4	0.0	7.6	0.4	21.9	0.8	25.9	0.0	4.0	2.0	7.2	0.0	0.0	100.0
91DDA0190	38.6	5.6	1.2	0.0	8.0	0.0	29.1	0.4	12.0	0.0	0.4	1.2	3.6	0.0	0.0	100.0
91DDA0192	41.8	5.6	2.3	0.0	6.1	0.0	20.7	0.5	10.8	2.3	0.0	0.0	9.9	0.0	0.0	100.0
91DDA0194	62.9	5.1	0.0	0.0	3.0	0.0	16.9	0.0	8.9	0.0	0.0	3.4	0.0	0.0	0.0	100.0
91DDA0196	32.9	4.4	0.0	0.0	5.3	0.0	28.5	0.0	16.2	0.9	0.0	5.3	6.6	0.0	0.0	100.0
91DDA0198	24.8	3.3	2.0	0.0	9.8	0.0	39.9	1.3	11.8	0.0	0.7	2.0	4.6	0.0	0.0	100.0
91DDA0200	35.0	10.9	0.5	0.0	4.5	0.0	24.5	0.0	9.5	1.4	0.0	1.8	11.8	0.0	0.0	100.0
91DDA0202	37.0	2.3	0.0	0.0	7.5	0.0	31.8	1.2	7.5	4.6	0.0	1.2	6.9	0.0	0.0	100.0
91DDA0204	50.9	8.5	0.0	0.0	5.5	0.0	12.7	1.2	16.1	0.9	1.2	1.5	1.5	0.0	0.0	100.0
91DDA0206	24.7	4.5	1.2	0.0	10.1	0.0	21.9	0.4	27.5	0.0	0.0	4.0	5.7	0.0	0.0	100.0
91DDA0208	18.2	7.4	0.4	0.0	7.8	0.0	15.6	6.3	39.0	0.0	0.0	1.9	3.3	0.0	0.0	100.0
91DDA0210	37.7	9.5	0.9	0.0	12.7	0.0	19.5	0.5	14.5	0.0	0.0	0.0	4.5	0.0	0.0	100.0
91DDA0212	32.0	7.0	0.0	0.0	35.5	0.0	11.5	0.0	6.0	0.0	1.5	0.0	6.0	0.5	0.0	100.0
91DDA0214	35.0	4.0	0.4	0.0	31.4	0.0	7.5	0.0	2.2	0.0	0.0	1.8	17.7	0.0	0.0	100.0
91DDA0216	27.2	6.5	0.6	0.0	12.4	0.0	33.1	0.6	6.5	3.0	0.0	1.2	8.9	0.0	0.0	100.0
91DDA0218	20.8	3.9	0.0	0.0	18.5	0.0	30.9	0.6	6.7	0.0	0.6	1.7	12.9	3.4	0.0	100.0
91DDA0220	39.2	1.3	1.7	0.0	16.3	0.0	22.5	1.3	5.8	0.0	0.4	4.6	7.1	0.0	0.0	100.0
91DDA0222	56.3	3.6	0.4	0.0	14.7	0.0	10.3	0.0	5.8	0.0	0.0	1.8	4.5	2.7	0.0	100.0
91DDA0224	27.0	4.4	0.0	0.0	10.8	0.0	31.9	0.0	9.8	2.5	0.0	2.9	10.8	0.0	0.0	100.0
91DDA0226	19.0	10.9	1.7	0.0	20.7	0.0	21.8	0.6	8.6	0.0	0.0	2.9	13.8	0.0	0.0	100.0
91DDA0228	54.9	5.3	0.0	0.0	6.8	0.0	8.7	0.0	13.6	1.0	0.5	1.9	7.3	0.0	0.0	100.0
91DDA0230	32.9	5.9	0.6	0.0	20.6	0.0	15.9	0.0	17.6	0.0	0.0	0.0	5.9	0.0	0.6	100.0
91DDA0232	49.1	6.3	0.7	0.0	8.1	0.0	12.9	0.4	13.7	0.0	0.0	0.4	8.5	0.0	0.0	100.0
91DDA0237	36.6	5.9	0.0	0.0	0.7	0.0	0.0	1.0	55.5	0.0	0.0	0.0	0.2	0.0	0.0	100.0
91DDA0239	46.2	3.1	0.0	0.0	9.9	0.0	9.9	1.8	20.2	0.9	0.0	4.0	4.0	0.0	0.0	100.0
91DDA0242	44.3	9.1	0.0	0.0	2.4	0.0	17.0	0.0	10.3	2.0	0.0	10.3	1.6	3.2	0.0	100.0
91DDA0244	33.6	7.1	1.3	0.0	5.3	0.0	15.9	1.3	16.4	6.6	3.1	2.7	6.6	0.0	0.0	100.0
91DDA0246	47.2	6.6	0.0	0.0	3.5	0.0	16.4	1.4	13.6	0.0	0.0	10.1	1.0	0.0	0.0	100.0
91DDA0248	44.3	11.8	0.0	0.0	3.4	0.0	19.0	0.0	8.0	0.0	0.0	11.0	0.4	0.0	2.1	100.0
91DDA0250	25.8	5.2	0.0	0.0	6.3	0.0	15.7	0.3	5.6	0.0	0.0	0.7	0.7	0.0	39.7	100.0
91DDA0252	38.9	11.5	1.0	0.0	12.5	0.0	16.3	0.5	7.7	1.4	5.8	3.4	1.0	0.0	0.0	100.0

Appendix E.4 Pebble lithology data for Stirling grid

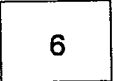
Sample Number	Mafic Volc	Felsic Volc	Rhy	Hnfls	Grnte	Dte	Qtzite	Vein Qtz	R,Gr,Br Seds	Ppl Seds	Gy,Bk Seds	Felsic Intr	Mafic Intr	Lmst,	Other	Total
91DDA0254	29.2	4.6	0.5	0.0	8.7	0.0	18.7	1.4	16.9	0.9	3.7	5.9	9.6	0.0	0.0	100.0
91DDA0256	23.3	10.2	0.0	0.0	12.5	0.0	19.3	0.0	26.7	1.7	0.0	2.3	4.0	0.0	0.0	100.0
91DDA0258	65.6	14.9	0.0	0.0	3.7	0.0	5.6	0.9	6.0	0.0	0.0	0.9	2.3	0.0	0.0	100.0
91DDA0260	30.1	3.3	0.0	0.0	0.0	0.0	5.9	0.4	46.9	9.6	0.0	2.9	0.8	0.0	0.0	100.0
91DDA0262	24.4	3.1	0.0	0.0	0.4	0.0	4.4	0.0	66.7	0.0	0.0	0.0	0.9	0.0	0.0	100.0
91DDA0264	32.5	2.0	1.0	0.0	2.5	0.5	28.0	5.5	14.0	0.0	0.0	11.5	2.5	0.0	0.0	100.0
91DDA0266	41.3	6.4	1.4	0.0	6.0	0.5	23.4	0.9	5.0	0.0	0.9	7.8	6.4	0.0	0.0	100.0
91DDA0268	25.7	5.3	0.0	0.0	5.3	0.0	31.9	0.0	14.2	0.0	0.0	6.2	11.5	0.0	0.0	100.0
91DDA0270	34.1	10.8	0.0	0.0	10.3	0.0	14.6	1.1	20.5	3.8	0.0	3.2	1.6	0.0	0.0	100.0
91DDA0271	62.8	11.9	0.0	0.0	8.4	0.0	6.3	1.8	5.6	0.0	1.1	0.7	1.4	0.0	0.0	100.0
91DDA0461	46.6	21.7	0.0	0.0	8.1	0.0	13.0	0.6	4.3	0.6	0.0	0.6	4.3	0.0	0.0	100.0
91DDA0479	32.6	30.4	0.0	0.0	8.2	0.0	7.6	0.0	12.0	0.5	0.5	1.1	7.1	0.0	0.0	100.0

LEGEND

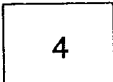
Stirling Area

LATE PRECAMBRIAN


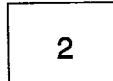
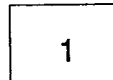
INTRUSIVE ROCKS


-  **6** Mafic Intrusives: includes gabbro; mafic porphyry

LATE PRECAMBRIAN TO EARLY CAMBRIAN

-  **4** *KELVIN GLEN FORMATION*: orange arkosic sandstone; purple to grey wacke; micaceous red sandstone

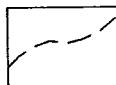
FOURCHU GROUP (INCLUDING UNITS OF THE MAIN À DIEU SEQUENCE AND COASTAL AND STIRLING BELTS)

-  **3** Volcanogenic Sediments: volcanic conglomerate, wacke, siltstone intercalated with volcanic flow and pyroclastic units
-  **2** Intermediate to Felsic Volcanics: **2a**, dacitic to rhyolitic flows; **2b**, dacitic to rhyolitic tuff, quartz-feldspar crystal tuff; **2c**, undivided
-  **1** Mafic to Intermediate Volcanics: **1a**, basalt to andesite flows; **1b**, tuff, lapilli tuff, basalt to andesite lithic crystal tuff; **1c**, undivided

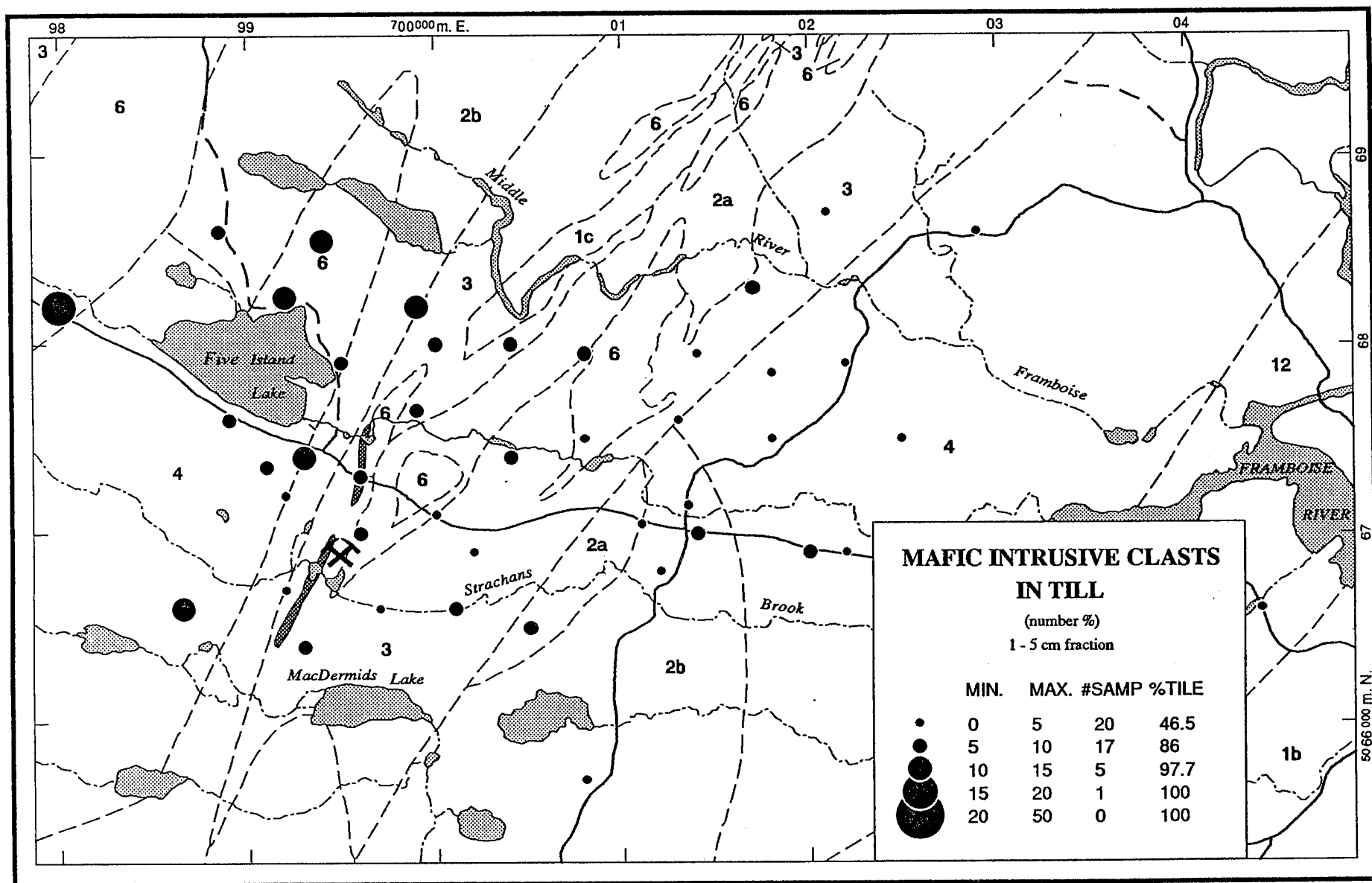
-  quartz-carbonate schist (alteration and/or chemical precipitates)



Mindamar Mine (Zn, Pb, Cu, Au, Ag)

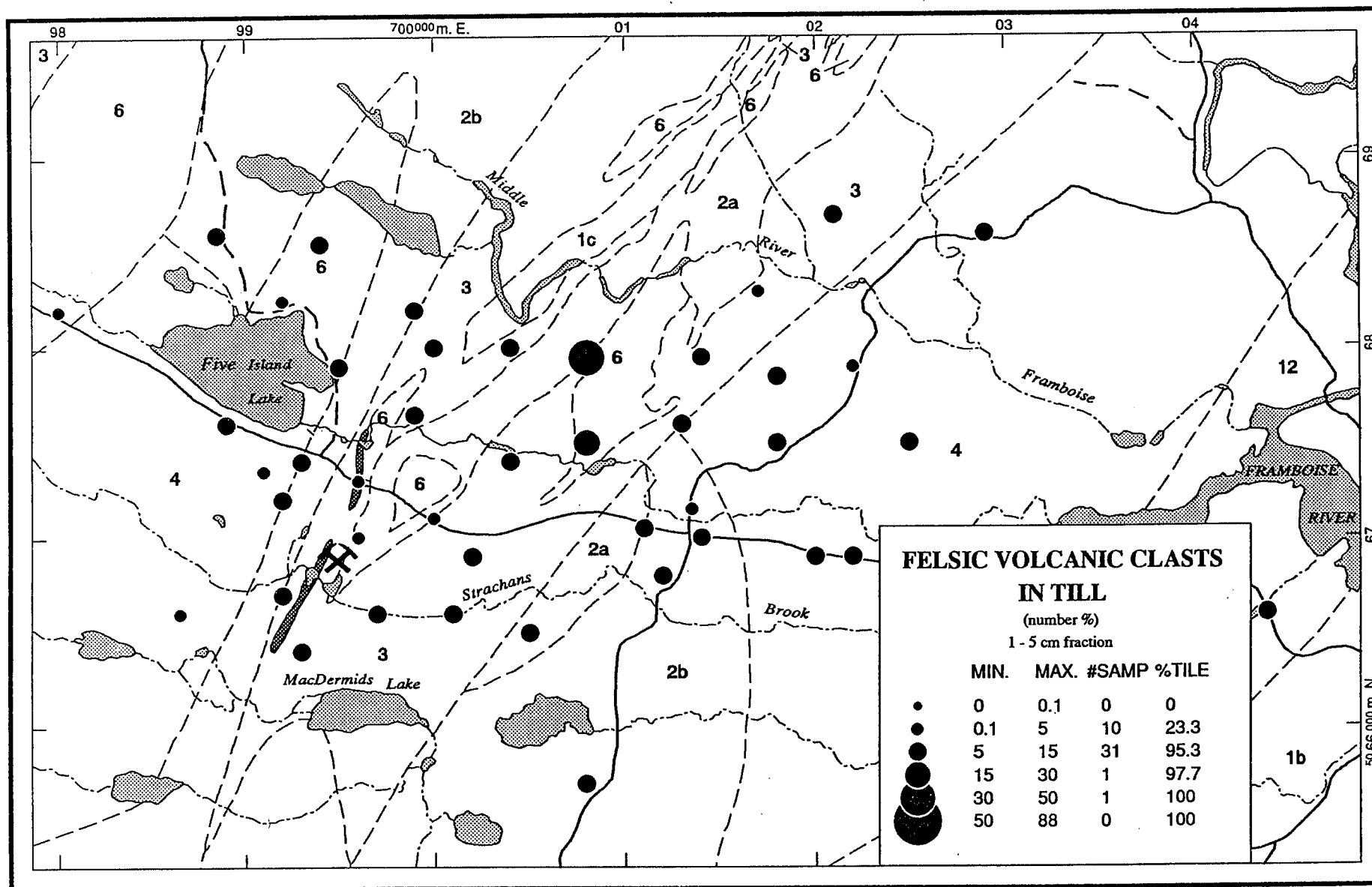


geological boundary



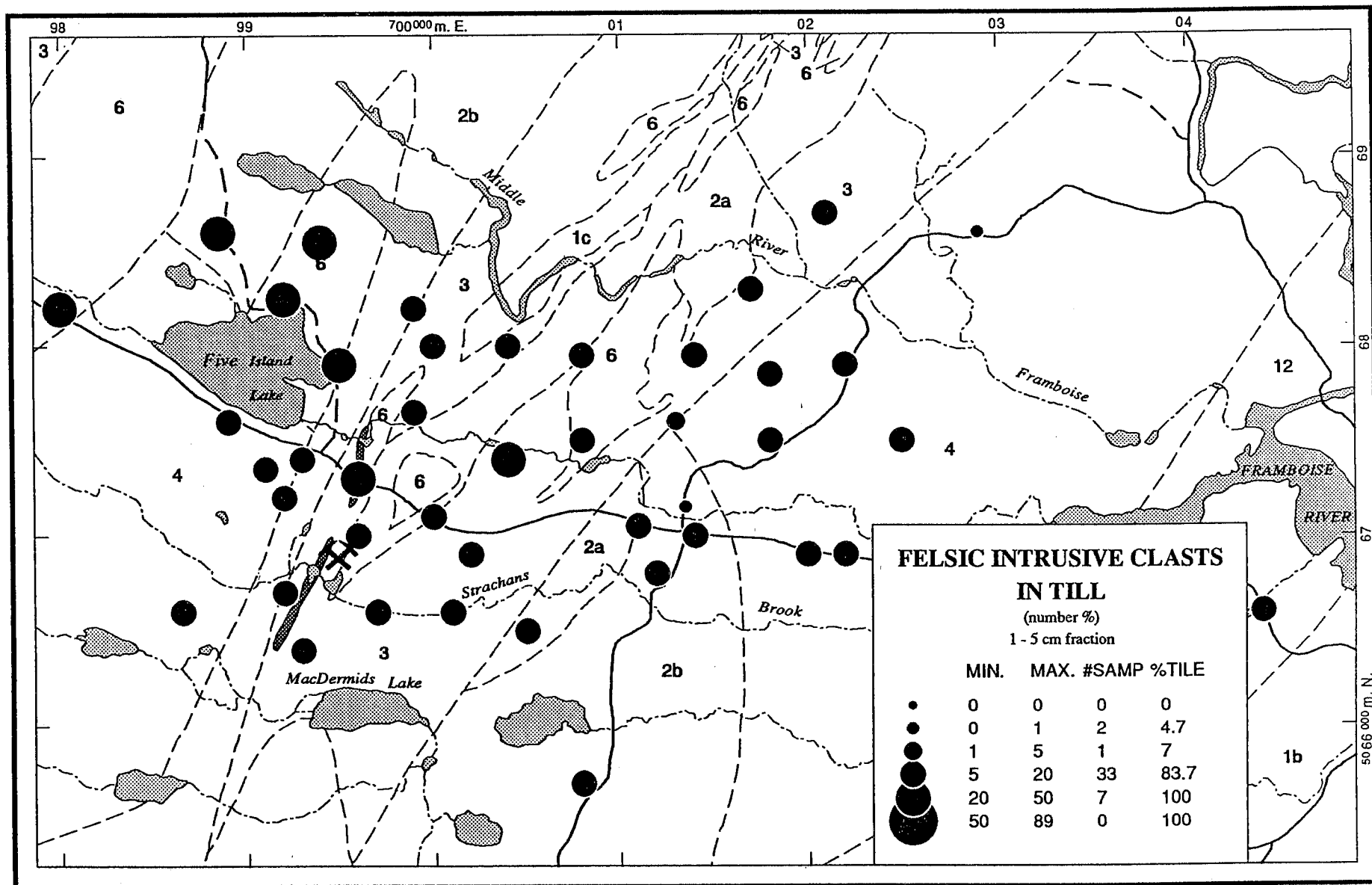
Detailed Till Sampling Survey - Stirling Area

SCALE 1:30 000



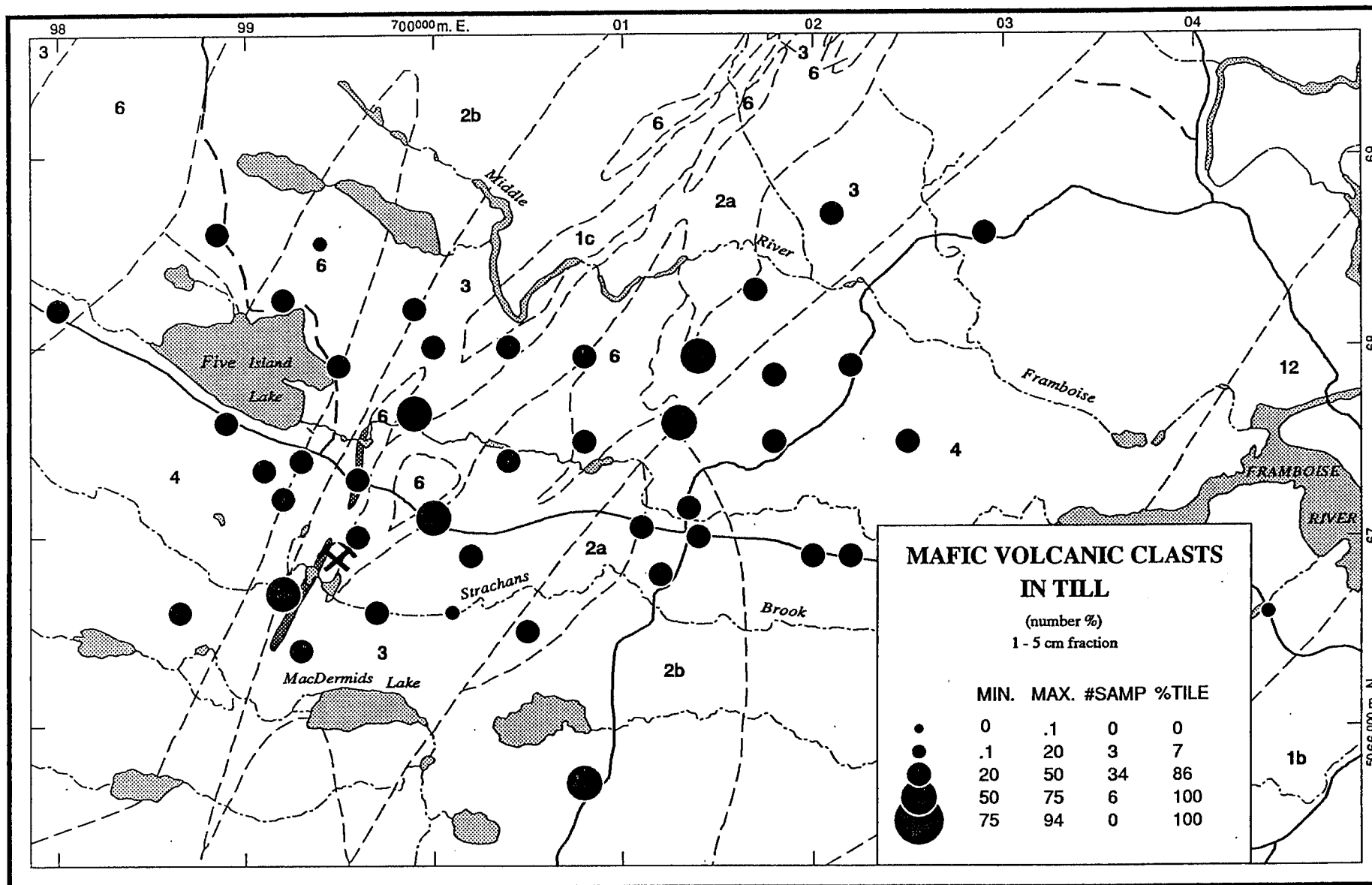
Detailed Till Sampling Survey - Stirling Area

SCALE 1:30 000



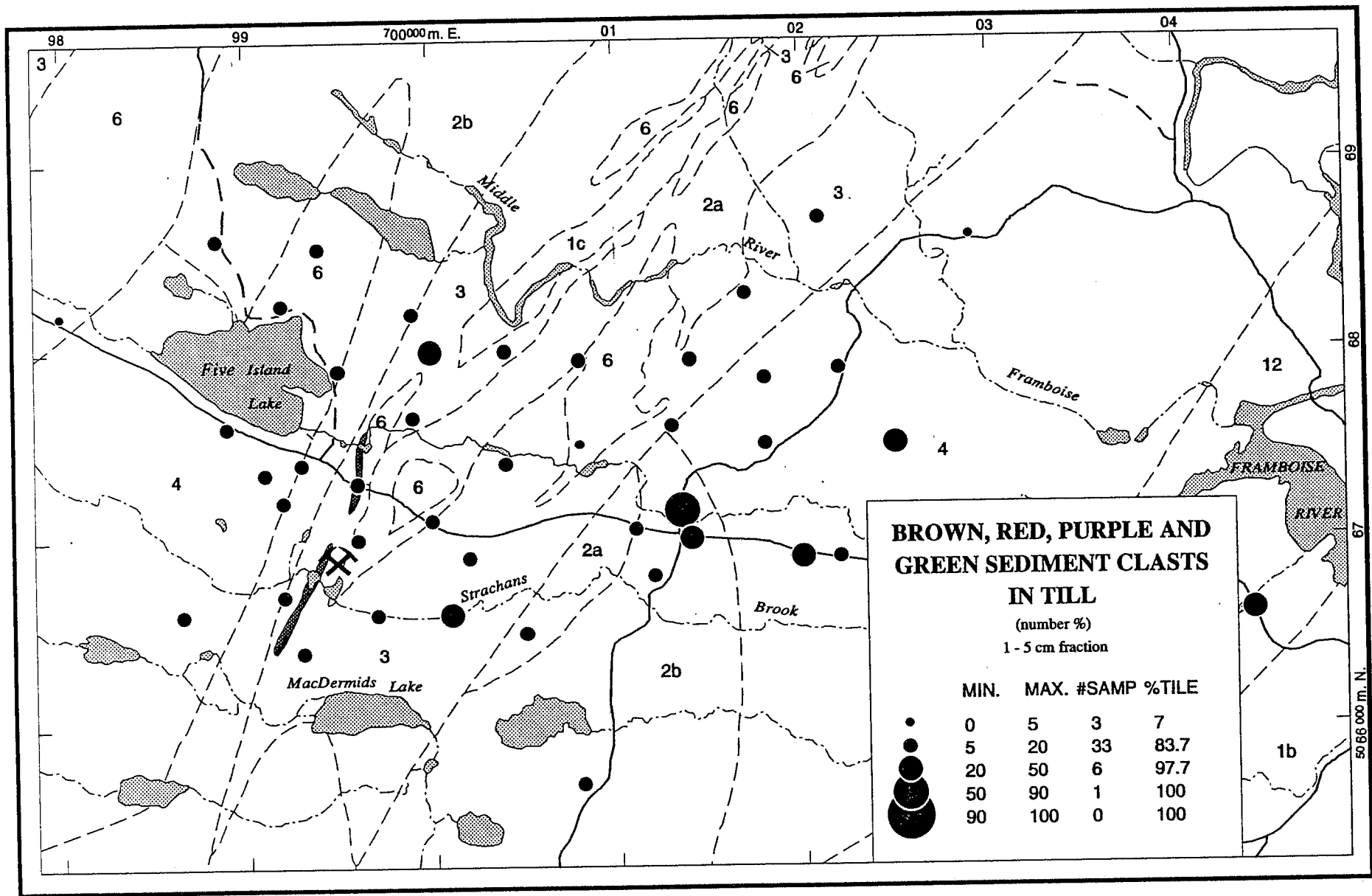
Detailed Till Sampling Survey - Stirling Area

SCALE 1:30 000



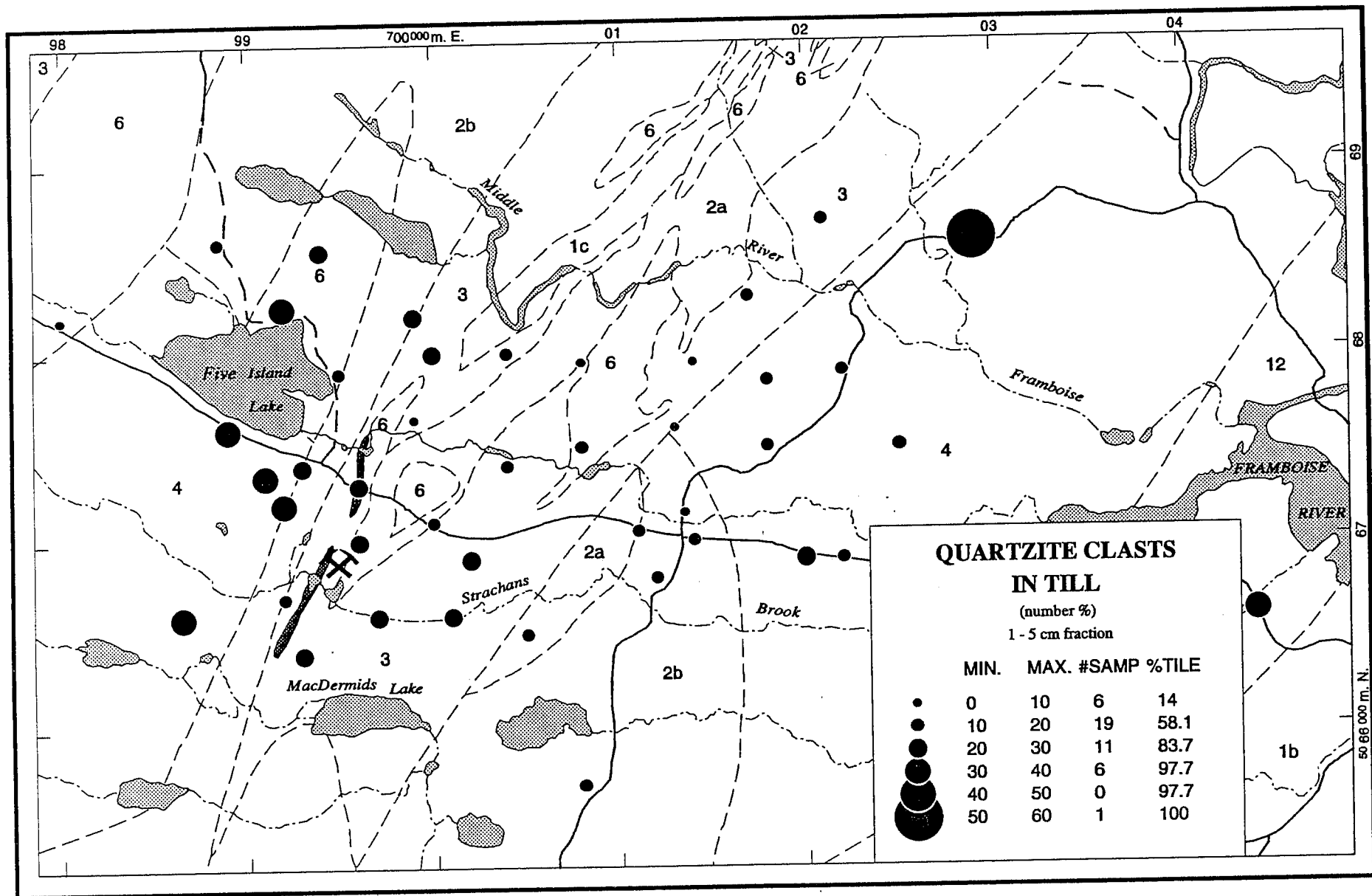
Detailed Till Sampling Survey - Stirling Area

SCALE 1:30 000



Detailed Till Sampling Survey - Stirling Area

SCALE 1:30 000



Detailed Till Sampling Survey - Stirling Area

SCALE 1:30 000

**APPENDIX E.5 Stratigraphic section pebble lithology data
for the 1-5 cm fraction**

Appendix E.5 Pebble lithology data for sections

Sample Number	Mafic Volc	Felsic Volc	Rhy	Hnfls	Grnte	Dte	Qtzite	Vein Quartz	R,Gr,Br Seds	Ppl Seds	Gy,Bk Seds	Felsic Intr	Mafic Intr	Lmst,	Other	Total
91DDA0015	65.5	3.8	1.3	0.0	0.8	0.0	0.8	0.0	21.8	3.8	1.7	0.0	0.0	0.0	0.4	100.0
91DDA0016	77.1	3.6	0.8	0.0	0.0	0.0	0.8	2.0	5.9	3.2	5.1	1.2	0.4	0.0	0.0	100.0
91DDA0017	82.0	9.0	0.9	0.0	0.9	0.0	0.9	0.9	3.2	1.4	0.9	0.0	0.0	0.0	0.0	100.0
91DDA0018	68.5	16.3	2.0	0.0	0.5	0.0	1.0	0.0	9.9	0.5	1.5	0.0	0.0	0.0	0.0	100.0
91DDA0019	61.2	12.9	0.7	0.0	0.0	0.0	1.4	0.7	18.4	0.0	3.4	1.4	0.0	0.0	0.0	100.0
91DDA0139	15.7	1.7	0.0	0.0	42.4	7.0	19.2	0.0	12.2	0.6	1.2	0.0	0.0	0.0	0.0	100.0
91DDA0140	6.9	0.0	0.0	0.0	57.7	3.1	17.7	1.5	11.5	0.8	0.0	0.8	0.0	0.0	0.0	100.0
91DDA0183	17.1	68.5	0.0	0.0	0.0	7.2	4.5	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0234	7.9	86.8	0.0	0.0	2.0	0.0	0.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0236	10.6	1.0	0.0	0.0	60.6	0.0	15.2	0.5	6.6	4.0	0.0	0.0	1.5	0.0	0.0	100.0
91DDA0277	88.7	0.0	0.0	0.0	2.9	0.0	0.0	0.7	0.0	0.0	0.0	1.1	6.5	0.0	0.0	100.0
91DDA0279	2.0	0.0	0.0	0.0	97.1	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0281	57.2	0.5	0.0	0.0	8.5	0.0	4.5	1.0	2.0	0.0	0.0	5.0	21.4	0.0	0.0	100.0
91DDA0282	0.0	0.0	0.0	0.0	97.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	100.0
91DDA0285	10.1	0.0	0.0	0.6	62.0	0.0	13.9	0.0	10.8	0.0	0.0	1.9	0.6	0.0	0.0	100.0
91DDA0288	23.5	1.4	0.0	0.0	49.0	0.0	14.2	0.8	8.8	0.0	0.6	1.1	0.6	0.0	0.0	100.0
91DDA0289	17.9	0.0	0.0	0.0	50.4	0.0	15.4	0.0	11.4	0.0	3.3	0.8	0.8	0.0	0.0	100.0
91DDA0292	59.3	21.4	0.0	0.0	8.7	2.4	5.1	1.1	1.6	0.0	0.0	0.3	0.0	0.0	0.0	100.0
91DDA0294	48.8	32.2	0.0	0.0	4.1	5.0	4.1	0.0	0.8	0.0	4.1	0.8	0.0	0.0	0.0	100.0
91DDA0296	41.4	25.0	0.0	0.0	10.3	8.6	6.0	1.3	6.0	0.0	0.9	0.4	0.0	0.0	0.0	100.0
91DDA0298	49.8	26.3	0.0	0.0	6.0	3.2	4.6	2.3	2.3	0.0	1.4	4.1	0.0	0.0	0.0	100.0
91DDA0300	23.8	55.8	0.4	0.0	6.3	2.2	4.8	2.2	3.0	0.4	0.4	0.7	0.0	0.0	0.0	100.0
91DDA0302	47.7	16.4	1.6	0.0	6.3	2.3	13.3	1.6	7.0	0.0	2.3	0.8	0.8	0.0	0.0	100.0
91DDA0304	51.5	5.3	0.8	0.0	7.6	6.1	9.1	0.8	12.1	0.8	1.5	1.5	1.5	0.0	1.5	100.0
91DDA0306	32.3	13.8	0.8	0.0	16.2	0.0	13.8	1.5	20.8	0.0	0.8	0.0	0.0	0.0	0.0	100.0
91DDA0308	42.2	2.7	0.0	0.0	7.5	3.4	11.6	0.0	23.8	0.7	3.4	4.1	0.7	0.0	0.0	100.0
91DDA0310	26.7	6.7	0.0	0.0	50.5	0.0	6.7	1.0	1.0	0.0	0.0	0.0	7.6	0.0	0.0	100.0
91DDA0312	47.3	30.8	0.5	0.0	5.0	0.0	7.0	1.0	5.0	2.0	0.0	1.5	0.0	0.0	0.0	100.0
91DDA0314	29.6	29.6	0.0	0.0	3.4	0.0	23.2	2.0	4.9	1.0	0.0	5.9	0.5	0.0	0.0	100.0
91DDA0316	36.4	30.7	0.0	0.0	3.6	0.0	12.1	2.9	2.1	2.9	0.0	4.3	5.0	0.0	0.0	100.0
91DDA0318	43.0	30.7	0.0	0.0	0.0	0.0	12.3	1.8	4.4	1.8	0.0	5.3	0.9	0.0	0.0	100.0
91DDA0320	48.2	20.2	0.0	0.0	0.0	0.0	15.8	0.0	4.4	0.9	0.0	10.5	0.0	0.0	0.0	100.0
91DDA0322	44.4	8.5	0.0	0.0	12.8	0.0	16.2	0.9	6.8	0.0	0.9	4.3	4.3	0.0	0.9	100.0
91DDA0481	54.3	20.8	0.0	2.0	0.0	0.0	3.0	2.0	9.1	6.1	0.0	1.0	1.5	0.0	0.0	100.0
91DDA0483	85.2	7.0	0.0	0.0	0.0	0.0	2.6	2.2	0.4	0.4	0.9	0.0	1.3	0.0	0.0	100.0
91DDA0485	49.6	26.9	0.0	0.0	1.7	0.0	2.5	2.9	10.7	3.3	0.4	0.0	2.1	0.0	0.0	100.0
91DDA0487	43.6	31.4	0.0	0.0	0.0	0.0	2.7	3.6	13.6	2.3	0.9	0.0	1.8	0.0	0.0	100.0
91DDA0490	16.0	0.0	0.5	9.5	0.0	0.0	0.5	6.0	17.5	50.0	0.0	0.0	0.0	0.0	0.0	100.0

Appendix E.5 Pebble lithology data for sections

Sample Number	Mafic Volc	Felsic Volc	Rhy	Hnfls	Grnte	Dte	Qtzite	Vein Quartz	R,Gr,Br Seds	Ppl Seds	Gy,Bk Seds	Felsic Intr	Mafic Intr	Lmst,	Other	Total
91DDA0492	36.9	2.5	0.0	0.4	0.0	0.0	2.0	6.6	9.8	40.6	0.8	0.0	0.0	0.0	0.4	100.0
91DDA0494	29.9	2.2	0.9	2.2	1.3	0.0	1.7	2.6	13.0	39.8	6.1	0.0	0.0	0.0	0.4	100.0
91DDA0496	40.5	6.2	1.9	0.0	0.0	0.0	4.8	3.3	16.7	23.3	1.9	0.0	1.0	0.0	0.5	100.0
91DDA0498	45.9	0.0	1.1	4.3	0.0	0.0	1.1	3.2	14.2	28.8	0.7	0.4	0.0	0.0	0.4	100.0
91DDA0500	0.0	0.0	0.0	10.6	0.0	0.0	0.8	8.6	0.0	80.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0502	0.0	0.0	0.0	78.8	0.0	0.0	0.0	7.2	0.0	13.9	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0504	0.0	0.0	0.0	33.7	0.0	0.0	66.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
91DDA0506	28.6	42.9	0.9	2.6	5.2	0.0	11.3	0.0	3.0	0.4	0.0	0.9	4.3	0.0	0.0	100.0
91DDA0508	34.3	37.3	0.0	5.3	2.4	0.0	8.9	1.2	5.9	2.4	1.2	0.0	0.6	0.0	0.6	100.0
91DDA0510	25.3	59.2	0.0	2.3	0.6	0.0	5.2	0.0	0.6	0.0	0.6	1.1	4.6	0.6	0.0	100.0
91DDA0512	56.9	23.1	0.0	5.8	2.2	0.0	7.1	2.7	0.0	0.0	0.9	0.4	0.9	0.0	0.0	100.0
91DDA0514	25.6	9.2	0.0	0.0	13.8	0.0	28.7	0.5	6.2	1.5	8.2	0.0	4.1	1.0	1.0	100.0
91DDA0516	29.4	7.8	0.0	2.0	13.1	0.0	28.8	0.7	4.6	1.3	2.0	1.3	5.2	3.9	0.0	100.0
91DDA0518	23.9	10.4	0.6	3.1	16.0	0.0	23.9	3.1	8.6	1.2	1.2	0.0	4.9	1.2	1.8	100.0
91DDA0520	31.1	16.7	0.0	1.6	10.4	0.0	27.1	0.8	8.4	1.6	0.8	0.0	0.0	1.6	0.0	100.0
91DDA0522	26.9	25.0	0.0	0.5	15.9	0.0	19.7	0.5	5.3	1.0	3.4	0.0	1.9	0.0	0.0	100.0
91DDA0524	16.2	27.4	0.6	0.6	17.9	0.0	23.5	0.0	3.4	0.6	4.5	0.0	4.5	1.1	0.0	100.0
91DDA0526	34.4	25.2	0.0	0.0	8.3	0.0	15.1	1.8	2.8	0.0	0.5	0.5	1.4	0.0	10.1	100.0
91DDA0528	39.7	32.7	0.0	0.0	5.8	0.0	16.0	0.6	2.6	0.0	0.0	0.6	1.9	0.0	0.0	100.0
91DDA0530	34.3	11.6	0.0	2.3	6.9	0.5	26.4	2.8	3.2	2.3	4.2	0.0	4.6	0.5	0.5	100.0
91DDA0532	24.5	10.4	0.0	0.5	9.0	3.3	30.7	2.8	5.2	1.9	4.2	2.4	3.3	1.9	0.0	100.0
91DDA0534	30.7	9.3	0.0	0.7	16.7	2.0	20.0	2.0	4.7	2.7	5.3	1.3	3.3	1.3	0.0	100.0
91DDA0536	30.7	7.3	0.0	0.7	8.0	3.6	24.8	1.5	2.2	5.1	6.6	0.7	3.6	5.1	0.0	100.0
91DDA0538	27.2	10.4	0.0	0.0	11.2	3.2	24.0	2.4	7.2	0.0	4.0	0.8	5.6	4.0	0.0	100.0
91DDA0540	25.8	17.9	0.0	0.0	13.2	2.0	27.8	0.0	5.3	1.3	1.3	0.0	4.6	0.7	0.0	100.0
91DDA0542	23.6	12.6	0.0	0.0	19.8	0.0	28.0	1.6	3.3	1.6	2.2	0.5	3.8	2.7	0.0	100.0
91DDA0544	30.1	11.5	0.0	1.8	8.8	0.9	20.4	0.9	8.0	0.9	4.4	0.9	7.1	4.4	0.0	100.0
91DDA0550	44.0	4.1	0.0	0.7	11.9	0.0	15.3	3.4	4.5	0.4	3.0	0.4	5.2	4.9	2.2	100.0
91DDA0552	72.1	16.7	1.0	0.0	1.0	0.0	1.3	0.3	1.0	0.0	4.6	0.0	0.0	0.0	2.0	100.0
91DDA0554	58.3	22.7	0.5	0.0	1.4	0.0	1.9	1.4	2.3	0.0	2.3	0.9	3.7	0.0	4.6	100.0
91DDA0556	58.6	26.9	0.8	0.0	0.0	0.0	0.0	2.0	0.4	0.0	0.4	2.0	1.2	0.0	7.6	100.0
91DDA0558	32.4	5.4	0.4	0.4	17.8	0.0	25.5	1.9	2.3	0.0	3.1	0.8	5.4	1.9	2.7	100.0
91DDA0560	35.1	8.8	0.0	0.8	14.1	0.0	22.5	1.1	6.5	0.4	1.1	0.0	3.8	2.3	3.4	100.0
91DDA0562	41.3	7.3	0.0	1.3	9.5	0.0	20.5	2.8	4.4	0.9	0.9	0.0	7.9	2.2	0.9	100.0
91DDA0564	42.6	6.0	0.9	1.3	13.6	0.0	16.2	2.1	6.4	1.7	2.1	0.0	5.1	0.9	1.3	100.0
91DDA0565	38.6	6.8	0.0	0.0	14.8	0.0	23.3	0.6	4.5	0.0	4.0	0.6	5.1	0.0	1.7	100.0
91DDA0568	38.4	13.8	0.0	0.7	4.5	0.0	23.1	1.1	5.6	0.0	1.5	0.0	4.1	0.0	7.1	100.0
91DDA0569	69.8	7.5	1.1	0.0	2.6	0.0	6.0	1.9	3.4	3.0	1.1	0.0	3.4	0.0	0.0	100.0

Appendix E.5 Pebble lithology data for sections

Sample Number	Mafic Volc	Felsic Volc	Rhy	Hnfls	Grnte	Dte	Qtzite	Vein Quartz	R,Gr,Br Seds	Ppl Seds	Gy,Bk Seds	Felsic Intr	Mafic Intr	Lmst,	Other	Total
91DDA0571	45.3	20.8	0.6	0.0	15.7	0.0	0.0	0.0	0.6	0.0	0.0	0.0	8.2	0.0	8.8	100.0
91DDA0573	36.5	27.1	1.2	1.8	10.0	0.6	5.9	0.6	2.4	1.8	2.9	0.0	9.4	0.0	0.0	100.0
91DDA0575	60.3	5.7	0.0	0.0	11.3	0.0	8.9	0.0	3.2	0.0	2.8	1.2	3.6	1.2	1.6	100.0
91DDA0577	49.7	6.0	0.0	0.5	8.7	0.0	16.9	1.1	3.8	1.6	0.0	2.2	6.6	1.1	1.6	100.0
91DDA0579	34.2	9.4	0.0	0.0	12.8	0.0	26.8	1.3	1.3	0.0	0.7	0.7	12.8	0.0	0.0	100.0
91DDA0581	36.4	4.8	0.0	0.0	19.3	0.0	29.4	0.0	2.7	0.0	1.1	0.5	4.8	0.0	1.1	100.0
91DDA0583	43.9	7.0	0.0	0.0	11.5	0.0	26.8	0.0	1.3	0.0	0.0	2.5	7.0	0.0	0.0	100.0
91DDA0585	72.0	7.3	1.7	0.0	3.0	0.0	5.6	0.4	2.6	1.3	1.3	1.3	3.0	0.4	0.0	100.0
91DDA0587	67.6	2.8	2.0	0.0	3.2	0.0	10.1	0.8	7.7	0.8	0.8	0.0	4.0	0.0	0.0	100.0
91DDA0589	78.3	2.7	1.1	0.0	6.0	0.0	6.0	0.5	1.6	0.0	0.0	0.0	3.8	0.0	0.0	100.0
91DDA0591	68.1	0.7	1.4	0.0	3.5	0.0	5.0	0.0	4.3	0.0	0.7	5.7	4.3	0.0	6.4	100.0