

## CORE-STORAGE PROGRAM, 1992

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### INTRODUCTION

In 1978, the Newfoundland Department of Mines and Energy began a program of drill-core collection and storage. Initially, three core-storage libraries, having a combined capacity of 260,000 m of core samples, were established at Pasadena, St. John's and Goose Bay. Funding for construction of these libraries was provided under the Canada-Newfoundland Mineral Development Subsidiary Agreement (1977-82) and construction was completed in 1982.

Since 1982, three additional core-storage libraries have been established at Springdale, Buchans and Baie Verte (Figure 1) increasing the combined core storage capacity to a total of 785,000 m for all six libraries. The core-storage libraries are operated by the Mineral Resource Management Branch of the Department of Mines and Energy and as of November 1992, has in its core libraries a combined collection of approximately 851,476 m of core samples. Unfortunately, due to a shortage of storage capability, about 62,000 m of core sample has to be stored outside the facilities.

### 1992 CORE COLLECTION

During 1991 and 1992, several of the major mineral-exploration companies working in the province made substantial donations to our core-sample collections.

In total, approximately 135,585 m of core samples from 853 drillholes were added to our collections bringing our total collection of core samples in storage up to 851,476 m.

Most of the new additions are crosspiled outside our various core libraries. During the 1992 field season, the core samples were organized and a listing of the hole numbers and interval data was compiled. Where sufficient data on the drillholes were available from our geofiles, the core was catalogued and added to our master index.

A summary of core samples acquired during 1992 are given in Tables 1 to 5.

**Table 1.** Core samples from Rio Algom Exploration Incorporated

Property	#Drillholes	Length (m)
Gill's Pond	32	5,634.5
Gullbridge	17	7,492.6
Isle-aux-Mort	8	4,138.1
Total	57	17,265.2

**Table 2.** Core samples from BP Resources Canada Limited

Property	#Drillholes	Length (m)
Bobby's Pond	9	1,236.8
Buchans Option	10	5,513.5
Canoe Pond	2	154.5
Daniel's Pond	52	11,605.4
Glitter South	5	379.4
Great Burnt	18	2,383.7
Jack's Pond	26	3,952.0
Murphy Option	8	907.0
Rattling Brook	63	9,084.2
Tulks	39	7,573.6
Valentine Lake	33	4,951.7
Victoria Mine	12	1,548.5
Woodman's Brook	1	100.5
Total	278	49,390.8

**Table 3.** Core samples from Noranda Exploration Company Limited

Property	#Drillholes	Length (m)
Bradley North	78	8,292.7
Devil's Cove	140	11,873.6
Flatwater	1	107.6
Flatwater-Dorset	25	2,222.0
Frenchman's Head	2	243.5
Gander Outflow	13	1,111.5
Glenwood	13	1,070.4
Glover Island	3	350.4
Great Rattling Brook	3	368.0
Greenwood	6	574.6
Hunan Showing	7	713.8
Jonathan's Pond	7	855.3
Jumper's Brook	1	142.0
King's Point	9	975.5
La Scie	1	199.6
Lockport	2	570.0
Mount Peyton	13	1,431.8
Paul's Pond	4	291.1
Rendell-Jackman	61	12,090.8
Silver Mountain	3	347.0
Crow Hill	8	723.8
Winter Hill	11	2,110.8
Total	411	46,665.8

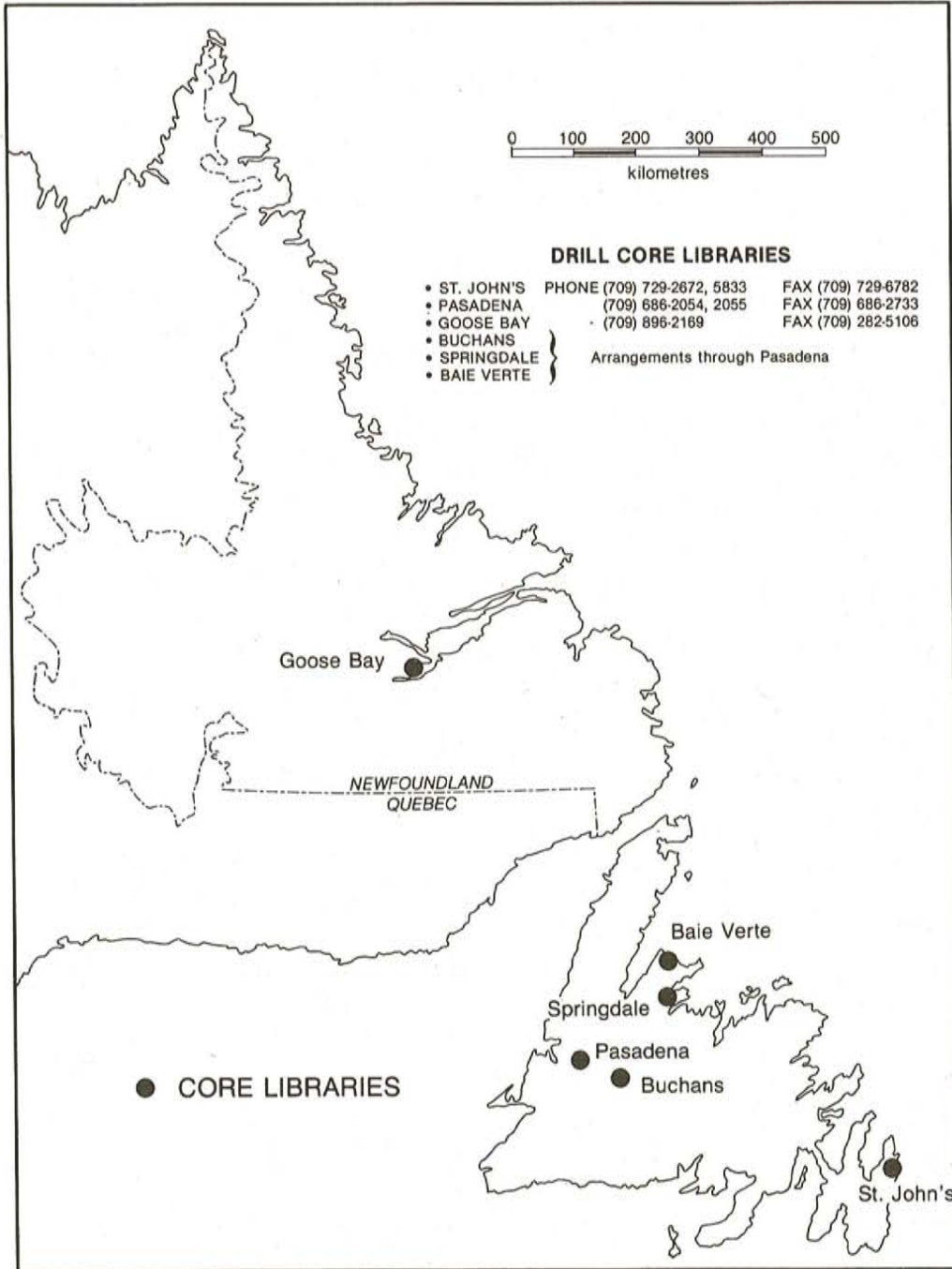


Figure 1. Core libraries in Newfoundland and Labrador.

Table 4. Core samples from Falconbridge Limited

Property	#Drillholes	Length (m)
Davis Pond	5	1,410.6
Noel Paul's Brook	5	1,011.3
Seal Bay	11	2,654.6
Starkes Pond	4	822.4
Twin Ponds	10	2,504.3
	35	8,403.2

Table 5. Core samples from Inco Gold Company Limited

Property	#Drillholes	Length (m)
Victoria Project/Bobby's Pond	61	13,693.8
Humber Project	11	166.9
	72	13,860.7



In Labrador, two weeks were spent at the Kitts and Michelin exploration camps to select representative drillhole samples from Brinex drilling on uranium prospects in the Central Mineral Belt. Approximately 8,450 m of core samples from 82 drillholes were selected and prepared for transport to our Goose Bay core library. About forty percent of these samples, which are representative of the Kitts, Gear, Nash and Nash West uranium deposits/prospects, are scheduled to be moved to Goose Bay this fall. The remainder of the samples will be transported as time and funds permit.

A catalogue of all open-core samples in departmental core libraries is available from the Publications and Information Section, Geological Survey Branch of the Newfoundland Department of Mines and Energy.

### USING THE CORE LIBRARIES

Any person who wishes to visit any of the core libraries for the purpose of examining core samples should provide advance notice to the person in charge of the particular core library. The Pasadena core library is staffed on a full-time basis by one employee and is open to the public during regular government office hours. Advance notice of one day is required in order to properly accommodate visitors to the Pasadena core library. Visitors to the St. John's core library should also provide advance notice of one day and advance notice of one week is required to properly accommodate visitors to the Goose Bay core library because it is not staffed on a full-time basis. Visits to the Springdale, Buchans and Baie Verte core libraries require a minimum notice of two days.

The indexing system in all six core libraries is based on the National Topographic System (NTS). Core samples from each drillhole are assigned a unique master number based on the 1:50 000-scale topographic sheet, on which the drillhole collar is located. A manual index card file forms the basis of this system in conjunction with a 1:50 000-scale drillhole location map file, which shows the location of all drillholes from which core samples have been catalogued. A completed example of the index card is shown in Appendix I. Each core library also contains a file of all available data, i.e., drillhole logs, cross sections and assay results for all core samples stored. The company drillhole number and the assessment file in which the drilling was reported are referenced on the index card. The manual index card file and the map index are supplemented by a computerized drillhole index that contains all of the information on the previous two indexes. The computer drillhole index file functions as a permanent master file from which catalogues of all of our drill-core holdings are updated yearly and printed for distribution at the Department's Annual Review of Activities

each November. The file is stored on microcomputers in the Department's St. John's office and in the Pasadena core library where it is available for production of customized indexes.

All six core libraries have core-examination areas that contain or share with other core libraries, rock-cutting equipment, a core splitter, a stereomicroscope, a magnetic susceptibility meter, a resistivity meter, an ultraviolet light and a McPhar TV-1 scintillometer.

The extraction of samples is generally permitted where doing so does not destroy any lithological sequence or leave gaps in the drillhole record. The smallest size sample that is useful is taken and the minimum amount of core that must be left in each core box is a one quarter size split of the original core. The user must complete a *'Request To Sample Form'* (Appendix II) before sampling is permitted. All core samples, pulps, powders, thin sections and any other materials generated from the core samples must be returned (along with a copy of the results of any work done on the samples) to the core library within one year from the date the samples were taken. The user shall be responsible for costs incurred in returning samples to the core library.

There are no fees charged for the services provided by the core-storage program, however, patrons making extensive use of the trim saws to sample drill core are required to supply their own blades or replace the blades that are used.

The core-storage program does not have a practice for core reduction or discarding of 'redundant' core at this time because it is the feeling of most geologists who use the facilities that these practices are undesirable.

### FURTHER INFORMATION

Potential users of the core-storage program should contact the people listed below to arrange visits to the core libraries and to obtain information on the core-storage program.

Project Geologist—Core-Storage Unit (Alvin Harris)  
Department of Mines and Energy  
P.O. Box 8700  
St. John's, Newfoundland  
AIC 5T7  
PHONE: (709) 729-5833 FAX: (709) 729-6782

Core-Storage Geologist (Pasadena) (Stewart Cochrane)  
Department of Mines and Energy  
Dr. A.K. Snelgrove Core Library  
Pasadena, Newfoundland  
A0L 1K0  
PHONE: (709) 686-2054, 2055 FAX: (709) 686-2733

**APPENDIX I**

MASTER NO.: 1L/13 0007 UTM: 584100 5204900 21  
 COMPANY: Nfld. Dept. of Mines & Energy CO. NO.: F-7 DRILLING DATE: 66-12-19  
 MIN NO.: \_\_\_\_\_ PROPERTY: Fortune STATUS: \_\_\_\_\_  
 DATE STORED: 82-02-25 LOG AVAIL: Yes ASSAYS AVAIL: Yes MDD NO.: 1M/4 (87)

CORE STORAGE INDEX CARD

INTERVAL (m)	BOXES	CORE	RACK LOCATION		MISSING INTERVALS (m)	CORE EXAMINATION FREQUENCY													
			FROM	TO		81	82	83	84	85	86	87	88	89					
0-48.76	6	AX	01B04A09	01B04B02	34.13-38.10														
55.77-89.30	4	EX	01B04B03	01B04B06	48.76-55.77														
E.O.H.						90	91	92	93	94	95	96	97	98					



**APPENDIX II**  
**CORE STORAGE UNIT**  
Request to Sample Core

USER NAME: \_\_\_\_\_

COMPANY/AFFILIATION: \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

NATURE OF PROJECT: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

WORK TO BE CONDUCTED  
ON SAMPLES: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DRILL HOLE NOS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SAMPLE INTERVALS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SIZE AND SHAPE OF SAMPLES: \_\_\_\_\_  
\_\_\_\_\_

REQUEST DENIED/GRANTED (REASON): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DATE \_\_\_\_\_ CORE STORAGE GEOLOGIST \_\_\_\_\_

**NOTE:** All core samples and/or pulps, powders and thin sections, etc., generated from core samples must be returned to the core library at the end of a previously specified period. A copy of all assays and other analytical work conducted on the samples is also required at the end of this period.

RETURN DATE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_