

## CORE-STORAGE PROGRAM, 2007

A. Harris and S. Cochrane  
Mineral Lands Division  
Mines Branch

### ABSTRACT

*The Department of Natural Resources currently operates six core-storage libraries located at St. John's, Springdale, Buchans, Baie Verte, Pasadena and Goose Bay. Currently, these facilities house in excess of one million metres of core samples collected from mineral exploration projects in Newfoundland and Labrador. This report summarizes activities during 2007 and presents an overview of the operations of the core-storage program.*

### 2007 FIELD ACTIVITIES

A total of approximately 39 935 m of new core samples (Tables 1 and 2), were added to the core collection during late fall 2006 and up to September 2007 bringing the total core-sample collection in storage to 1 174 738 m. All of the core samples listed in Table 1 (35 319 m) were delivered to the provincial core libraries by mineral exploration companies.

**Table 1.** Drill-core acquisitions, insular Newfoundland

Company	Property	Length(m)
Xstrata	Tim's Brook	2,185
Prominex Resources	Tulks Hil	4,828
Royal Roads Corp.	Daniel's Pond	5,295
Royal Roads Corp.	Harbour Round	199
Royal Roads Corp.	Jack's Pond	199
Altius Resources Inc.	Pilley's Island	6,430
Cornerstone Resources	El Strato	2,443
Richmont Mines Ltd.	Valentine Lake	2,274
Kermode Resources Ltd.	Jackson's Arm	6,255
Rubicon Minerals	Star Track	2,162
Rubicon Minerals	Henry Waters	182
Rubicon Minerals	Long Lake	978
Rubicon Minerals	Victoria Lake	700
Rubicon Minerals	South Golden Promise	1,015
Rubicon Minerals	West Cleary	174

Again, this year, the Department conducted a two-week core-collection effort in northern Labrador, with the objective of collecting core samples representative of the prospects drilled during the nickel exploration rush, 1995-2000. A total of 4 616 m of core samples, primarily the mineralized intersections, from thirty-three drillholes on fifteen different prospects were collected and shipped to the Goose

Bay core library. This collection activity represents the culmination of the core-collection effort to salvage core samples from abandoned nickel exploration sites north of the Nain area.

The prospects from which core samples were collected are listed in Table 2.

All core samples in Department core libraries are available for inspection by interested parties and a catalogue (in paper or digital format) of all archived core samples in storage is available, by request, from the Department of Natural Resources.

A digital database containing all relevant data available for core samples in storage can now be accessed on the Department website through the Geoscience Resource Atlas at <http://gis.geosurv.gov.nl.ca/>.

### USING THE CORE LIBRARIES

Any person who wants to visit either of the core libraries (Figure 1) 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.

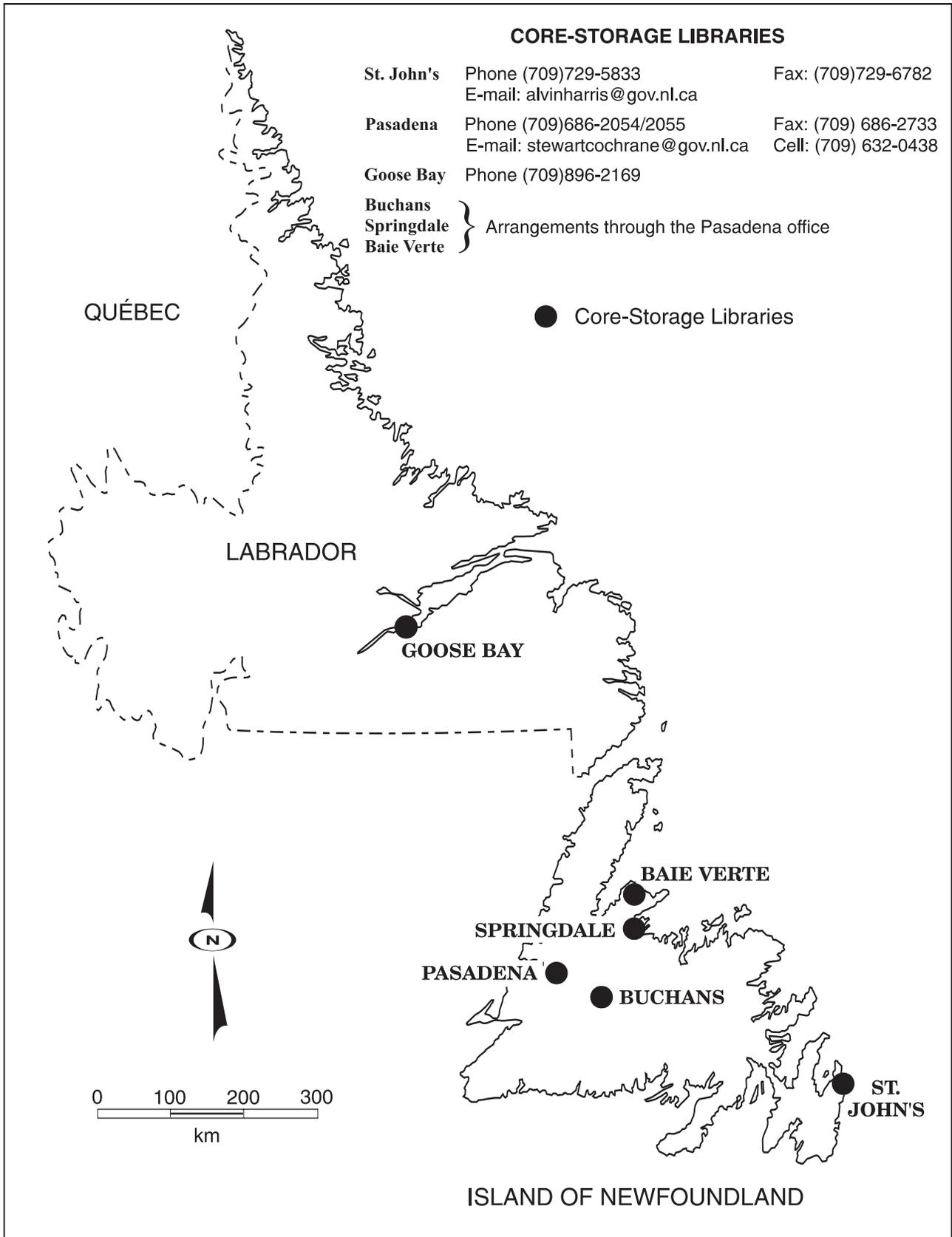
**Table 2.** Drill-core acquisitions, Labrador

Company	Property	Hole#	Interval (m)	
Absolut Resources	Voisey's Bay Area 7	A7-95-04	76.7 to 94.4 m	
Birchwood Ventures	Project 13	BW-95-01	0.0 to 121.3 m	
	Project 13	BW-95-02	0.0 to 124.4 m	
	Project 13	BW-95-04	0.0 to 124.4 m	
	Project 13	BW-95-06	0.0 to 109.2 m	
Cartaway Resources	Can-12	CAN-12-97-01	0.0 to 215.0 m	
	LB-G	LBG-96-01	0.0 to 252.4 m	
	LB-G	LBG-96-02	0.0 to 149.8 m	
	LB-N(Cirque)	LBN-96-08	728.0 to 745.8 m	
	LB-N(Cirque)	LBN-96-10	0.0 to 130.1 m and 644.6 to 843.5 m	
	Southview	STH1-96-03	0.0 to 73.4 m	
Castle Rock Exploration	Okak	OKG-96-16	119.0 to 460.0 m	
Columbia Yukon Resources	Voisey South	DDH-1760-01	0.0 to 24.0 m 48.0 to 84.0 m and 90.0 to 127.5 m	
		Voisey South	DDH-1886-01	0.0 to 123.5 m
		Voisey South	DDH-1886-02	0.0 to 124.5 m
	Voisey South	DDH-1886-03	0.0 to 124.5 m	
	Voisey South	DDH-2723-01	0.0 to 121.5 m	
	Dentonia/Dragon	Voisey's Bay	D-95-04	0.0 to 121.3 m
		Voisey's Bay	D-95-05	0.0 to 76.2 m
NDT Ventures	Project 10-1	12-10-1	0.0 to 115.21 m	
	Project 10-1	9-10-1	0.0 to 136.55 m	
	Project 12	25-12	330.2 to 430.1 m	
	Project 43	19-43	0.0 to 152.4 m	
	Project 44	44-06	0.0 to 181.9 m	
	Project 44	44-08	0.0 to 213.0 m	
	Project 44	44-5A	0.0 to 24.0 m	
	Project 52	14-52	0.0 to 267.6 m	
	Project 52	15-52	0.0 to 182.3 m	
	Project 61	2-61	0.0 to 92.6 m	
	Project 61	3-61	0.0 to 138.6 m	
	Project 61	5-61	0.0 to 121.0 m	
	Project 61	6-61	0.0 to 130.1 m	
	Project 61	7-61	0.0 to 90.2 m	

The indexing system for all core samples in the core libraries is based on the National Topographic System (NTS). Each drillhole, for which there are core samples in storage, is assigned a unique master number based on the 1:50 000-scale topographic sheet on which the drillhole collar is located. Each core library 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 in the digital drillhole database.

All six core libraries have core-examination areas that contain or share rock cutting equipment, a core splitter and a stereomicroscope with another core library.

The taking of samples is 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'



**Figure 1.** Core libraries in Newfoundland and Labrador.

(Appendix 1) 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.

### **PLANS FOR 2008**

Plans for 2008 include continuation of the core-collection effort to obtain representative core samples from selected drilling projects in Labrador and ongoing core collection in insular Newfoundland as required.

Updates to the drillhole database will be made on a regular basis as new core is added to the core libraries and a summarization of all available assay data for core samples in storage will be posted on the Department website during 2008.

The St. John's, Springdale, Baie Verte and Pasadena core libraries are filled to capacity and new core samples are not being accepted at these facilities. Any company wishing to claim assessment credits for delivering core samples to Department core libraries (in insular Newfoundland) must deliver the samples to the Buchans core library. In Labrador,

core samples may be delivered to the Goose Bay core library.

During 2008, measures will be taken to reduce the size of the core collections in the core libraries that are now full, pending consultation with the client user group.

Anyone requiring further information on the core-storage program or who wants to visit either of the core libraries should contact the staff listed below.

Project Geologist - Core-Storage Unit (Alvin Harris)  
Department of Natural Resources  
P.O. Box 8700  
St. John's, Newfoundland  
A1C 5T7  
Phone: (709) 729 5833; Fax: (709) 729-6782  
E-mail: [alvinharris@gov.nl.ca](mailto:alvinharris@gov.nl.ca)

Core-Storage Geologist (Pasadena) (Stewart Cochrane)  
Department of Natural Resources  
Dr. A.K. Snelgrove Core Library  
Pasadena, Newfoundland  
A0L 1K0  
Phone: (709) 686 2054, 2055; Cell: (709) 632-0438;  
Fax: (709) 686-2733  
E-mail: [stewartcochrane@gov.nl.ca](mailto:stewartcochrane@gov.nl.ca)

**APPENDIX 1**

CORE-STORAGE UNIT

Request to Sample Core

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

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

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

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

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

DRILLHOLE 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: \_\_\_\_\_

