

Long Harbour Commercial Nickel Processing Plant 2007 Socio-economic Component Study

**Voisey's Bay Nickel Company Limited
Suite 700, Baine Johnston Centre
10 Fort William Place
St. John's, NL, Canada
A1C 1K4**

**Prepared by:
Jacques Whitford Limited
607 Torbay Road
St. John's, NL A1A 4Y6
Tel: 709-576-1458
Fax: 709-576-2126**

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EXECUTIVE SUMMARY

This Component Study presents socio-economic baseline data required for the environmental assessment of the Long Harbour Commercial Nickel Processing Plant. The topics have been selected based on the requirements issued in the Environmental Assessment Guidelines on October 23rd 2006. The Valued Environmental Components (VECs) discussed are those outlined in the Guidelines: Services and Infrastructure (including health services and infrastructure), Economy, Business, Training and Employment, and Recreational Activities. Demography is also discussed, separately; while it is not itself a VEC, demographic change has the potential to have effects on all of the VECs.

As specified in the Environmental Assessment Guidelines, this Study does not provide information on the project, including policies, plans and initiatives associated with it, or contain any analysis of effects. Such information will be included in the environmental assessment itself, and (as necessary) in project-related plans such as the Women's Employment Plan. The data selected are not viewed or intended as a baseline for effects monitoring; the identification of monitoring indicators must await a fuller understanding of Project-related issues and concerns.

Most of the data are with respect to a Study Area defined by a 50 km highway commuter-shed from the site in Long Harbour. Where this was not possible, data are presented for a Region defined by the Economic Zones around the site. Data are also presented by the geographic units used by the agencies, boards and organizations responsible for the collection of data on particular topics, such as the RCMP policing districts. In each case, the area under discussion is clearly indicated.

The most recently available data at the time of writing are used throughout this report. The main source is the Census of Canada, for which the most recent data are for 2001. Data from the 2006 Census are scheduled to be released starting in March 2007 and such 2006 data as are available at the time will be used in preparing the socio-economic impact assessment. Other sources provide post-2001 data for this report, including Community Accounts and other data from the Newfoundland and Labrador Statistics Agency, as well as information from sources including municipal governments, school and health boards, the RCMP and other emergency response organizations and housing agencies. Data from these sources are summarized in the text, with full datasets provided as appendices.

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1.0 Introduction

This Component Study addresses the socio-economic baseline data requirements of the Environmental Assessment Guidelines of the Voisey's Bay Nickel Company (VBNC) Long Harbour Commercial Nickel Processing Plant, as issued October 23rd 2006. The Valued Environmental Components (VECs) discussed are those outlined in the Guidelines: Services and Infrastructure (including health services and infrastructure), Economy, Business, Training and Employment, and Recreational Activities. Demography is also discussed, separately; while it is not itself a VEC, demographic change has the potential to have effects on all of the VECs.

The preparation of this study was managed and supervised by Mark Shrimpton, M.A. (Principal, Jacques Whitford). Mark has nearly 25 years experience assessing, planning and managing the socio-economic effects of large-scale infrastructure and resource developments, including the Hibernia, Terra Nova, White Rose, Voisey's Bay Mine/Mill and Lower Churchill projects. The data collection, compilation and presentation were primarily the work of Elizabeth Way, M.Sc. (Intermediate Scientist, Jacques Whitford). Ms. Way developed her environmental assessment expertise while working on such projects as the White Rose Habitat Compensation Program, the Laurentian Sub-Basin and Sydney Basin Strategic Environmental Assessments and the Gateway Pipeline assessment in British Columbia.

Section 2.0 of this document outlines the methodologies used, including the data sources and geographic boundaries. This is followed by three sections providing baseline data on the assessment VECs: Section 3.0 describes the healthcare, education, social, police, emergency, transportation and other services and infrastructure available in the local area and region; Section 4.0 provides an overview of the local economy, businesses, training and employment; and Section 5.0 describes recreational activities. Section 6.0 provides baseline data with respect to key demographic characteristics and trends. Full citations of references and personal communications used in this report are provided in Section 7.0. Detailed data are included in Appendices A through D.

2.0 Methodology

The methodology followed for the baseline data collection is described in the following sub-sections and includes the determination of data sources and the determination of geographic boundaries of a Study Area.

2.1 Data Sources

The most recently available data at the time of writing are used throughout this report. The primary source is the Census of Canada, for which the most recent data are for 2001¹. As one consequence of this technique, the total for a column may not be the exact sum of the numbers in it. Data from the 2006 Census are scheduled to be released starting in March 2007, and such 2006 data as are available at the time will be used in preparing the socio-economic impact assessment. Other sources provide some post-2001 data for this report, including Community Accounts, the Newfoundland and Labrador Statistics Agency, municipal governments, school and health boards, the RCMP, regional economic development boards, the Fire Commissioners Office, the federal Department of Fisheries and Oceans (DFO), the Newfoundland and Labrador Department of Environment and Conservation (NLDEC) and the Canadian Mortgage and Housing Corporation (CMHC).

As specified in the Environmental Assessment Guidelines, this Study does not include information on the project, including policies, plans and initiatives associated with it, or contain any analysis of effects. Such information will be included in the environmental assessment itself, and (as necessary) in project-related plans such as the Women's Employment Plan. The data selected are not viewed or intended as a baseline for effects monitoring; the identification of monitoring indicators must await a fuller understanding of issues and concerns.

2.2 Geographic Boundaries

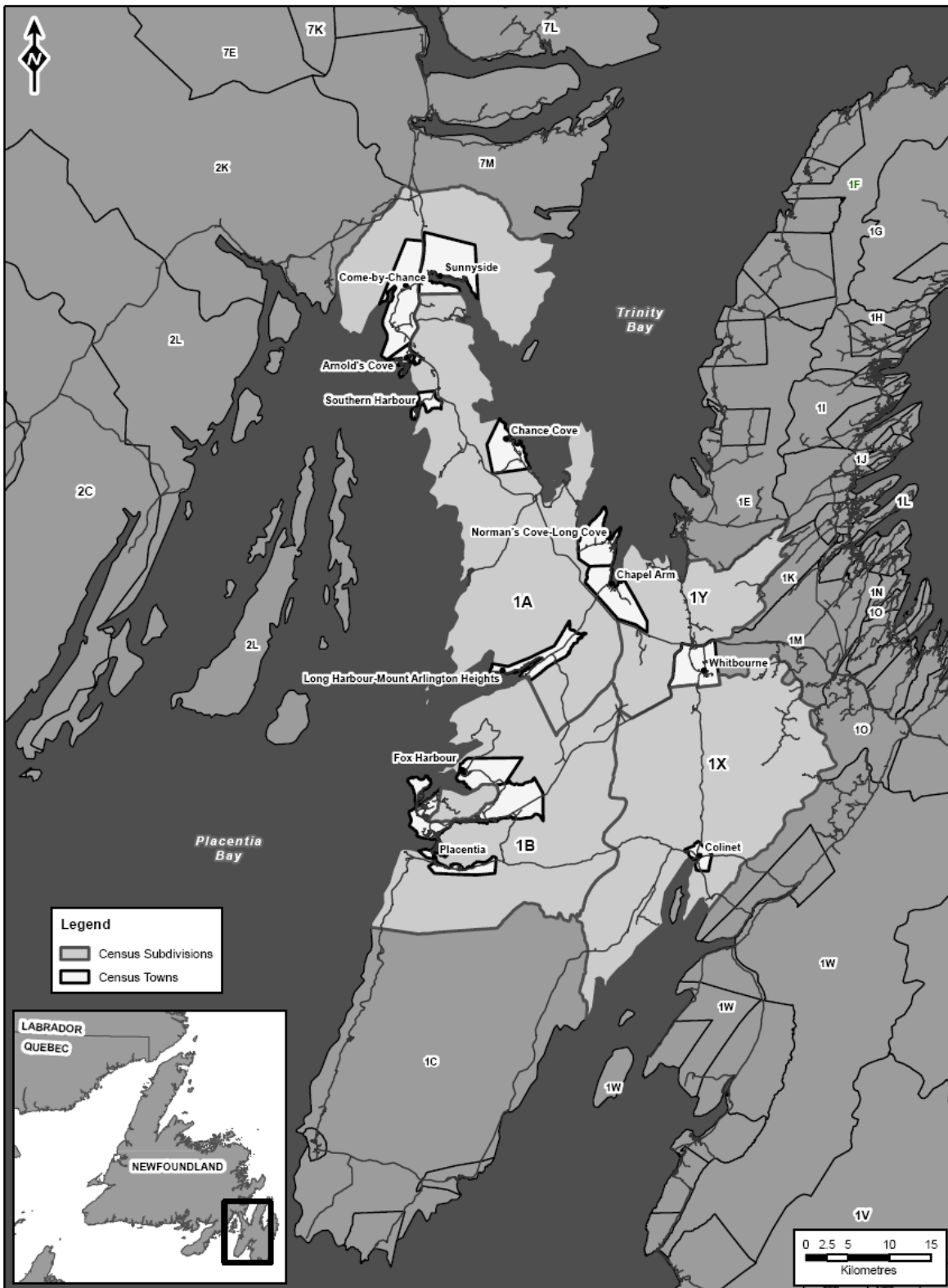
Census data have been collected for a Study Area defined by Consolidated Census Subdivisions 1A, 1B, 1X and 1Y. These Subdivisions have been selected as an approximation of a commuter-shed defined by a 50 km road distance around the site (Figure 2.1). It is anticipated that most people employed during Project operations, and many of those employed during its construction, will live in, and perhaps move to, this area. It is their activities (e.g., spending, use of services and infrastructure, use of land and resources), in addition to direct Project activities, that will result in the main socio-economic effects. The distribution of effects is expected to be different for each variable, but in general, Project-related effects will be most pronounced close to the site and will decrease with distance from it.

Data for some other topics and variables, such as education, are only available for provincial Economic Zones. Where this is the case the term Region is used to describe the three zones (15, 17 and 18) that

¹ Readers should note that, because of a Census confidentiality procedure called random rounding, all the cells in some tables are presented as multiples of 5. As one consequence of this technique, the total for a column may not be the exact sum of the numbers in it.

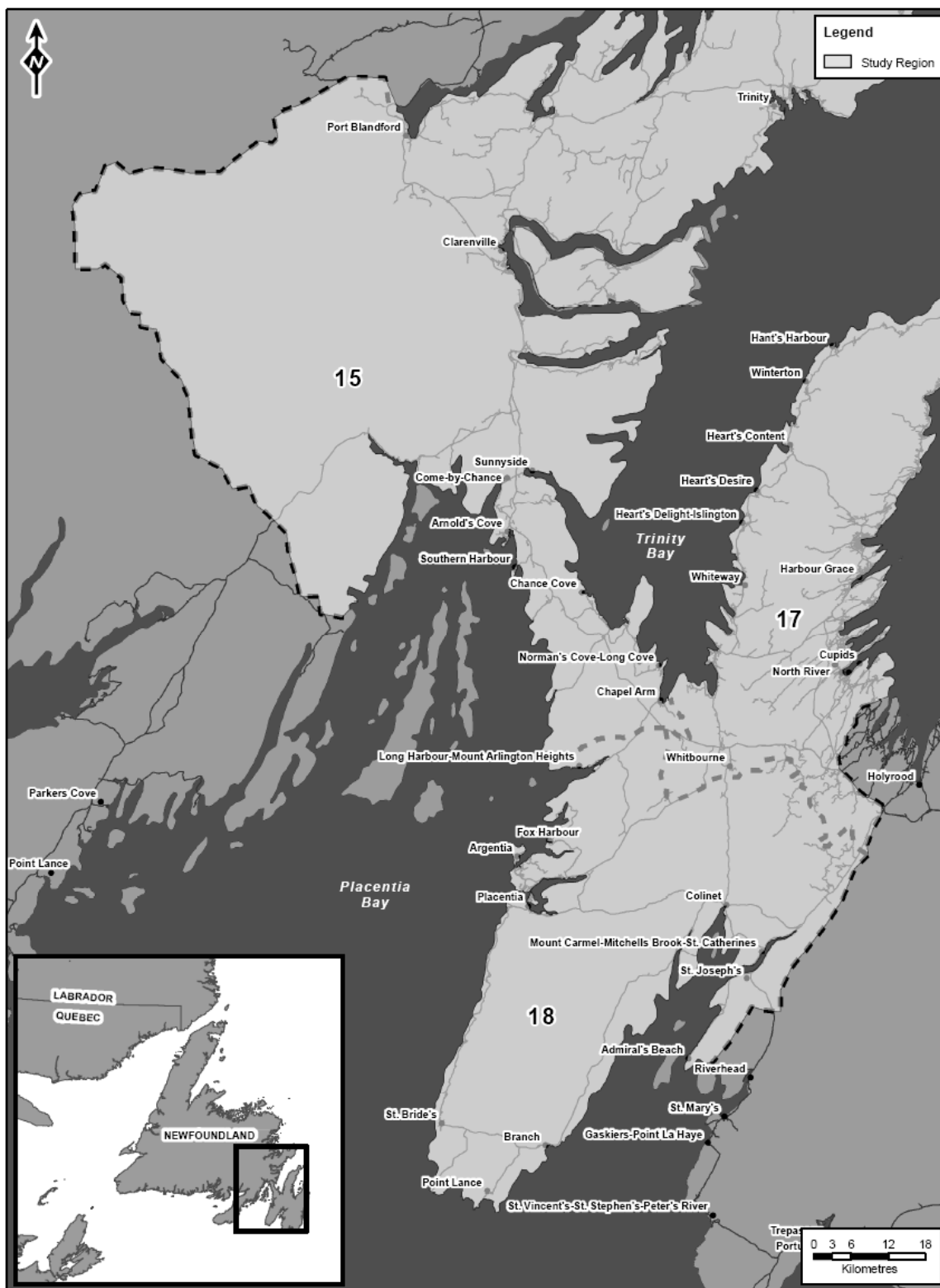
comprise the smallest geographic unit around the Project site for which data are available (Figure 2.2). The Region is larger than the Study Area, and includes areas such as the Bonavista Peninsula, which is considerably removed from the site and will be minimally affected, if at all, by Project-related activity. However, data from this larger area are still valuable in an analysis of baseline socio-economic conditions because they are generally relatively homogeneous across the Region.

Figure 2-1 Socio-Economic Study Area



Source: Statistics Canada, 2002

Figure 2-2 Socio-Economic Region, as Defined by Provincial Economic Zones



Source: Newfoundland and Labrador Statistics Agency/Community Accounts, 2006

Most tables present data for either the Study Area or Region as a whole and their component parts. For example, tables presenting information on the Study Area provide data for the total area, each subdivision and all the towns and unconsolidated areas located therein. Similarly, tables displaying data on the Region not only present it for the region as a whole, but also for each Economic Zone.

For other topics and variables, data have been presented for the Province and for geographic units used by the agencies, boards and governments responsible for its collection (e.g., RCMP data). In each case, the area under discussion is clearly indicated.

3.0 Services and Infrastructure

The following sub-sections describe the services and infrastructure available in the Study Area and Region. Health, education, income support, employment, security and safety, transportation, municipal and housing services and infrastructure are included. The types of services available are discussed along with staffing levels and the ability of these services to cope with any in-migration or other Project-related increases in demand.

3.1 Health and Community Services and Infrastructure

This section includes all healthcare professionals and centres in the Study Area and Region. In addition, community health programs, international health services and ambulance services are discussed.

3.1.1 Healthcare Service Centres and Professionals

Healthcare services in the Study Area are administered by the Eastern Health Authority, one of four Regional Integrated Health Authorities responsible for administering healthcare to the Province. The Eastern Health Authority is responsible for all health services in the region, including both institutions and community health services.

3.1.1.1 Service Centres

Eastern Health Authority operates six facilities. The Carbonear General Hospital is the nearest hospital to the site and has 80 acute care beds. Health centres are located at Old Perlican, Whitbourne and Placentia. Within the Study Area there are two facilities: the Placentia Health Clinic and the Dr. W.H. Newhook Community Health Centre. The Placentia Health Clinic is the only centre in the Study Area with acute care beds. It contains 10 acute care beds, 75 Level II and III beds and 40 Independent Living Units. The Dr. W.H. Newhook Community Health Centre in Whitbourne has three holding/observation beds.

3.1.1.2 Professionals

Eastern Health Authority serves 54,100 people. In 2005/06 (year end March 31) it employed 252 nurses (H. Hawkins, pers. comm.), equating to a nurse/population ratio of 1:215. There are 12 to 16 general physicians² in the Study Area, equating to a physician/population ratio of between 1:4,508 and 1:3,381 (S. Jerrett, pers. comm.).

The nurse/population and physician/population ratios are not necessarily indicative of the health care service requirements in the Study Area, or the extent to which they are met. People living within AHCIB boundaries do not solely receive health services from its institutions and the population does not consume health care uniformly. Many people living in the Study Area receive non-emergency health

² The number of physicians is best given as a range as there is a considerable difference in case-load between fee-for-service and salaried physicians and because physicians are highly mobile, often operating out of multiple clinics.

services in St. John's, and health care consumption is more closely related to demography than the total population, with the elderly and young children being disproportionately high health care consumers.

The physicians most likely to be affected by any in-migration relating to the Project are general practitioners, or family doctors. In addition to staff at the Placentia Health Clinic and D.W. Newhook Centre, there are currently two family doctors in Whitbourne (J. Gosse, pers. comm.), two in Placentia (R. Power and F. Smith, pers. comm.) and one in Chapel Arm for three days a week (M. Pretty, pers. comm.). Several family doctors have relocated from Placentia to Bay Roberts and Carbonear in recent years. Patients in the Placentia-Long Harbour area have been generally known to continue with these physicians in their new location as they are still within a reasonable driving distance (M. Pretty, pers. comm.).

3.1.2 Community Service Programs

Eastern Health Authority offers many programs and services within the Study Area (Table 3-1).

Table 3-1 Community Services and Programs in the Study Area

Service/Program	Location Offered	Staffing
Health Promotion and Protection	Whitbourne	
Community Health Nursing	Placentia & Whitbourne	
Mental Health Services	Placentia & Whitbourne	Placentia: 0.5 Mental Health Social Worker Whitbourne: 1 Mental Health Nurse
Addictions Services	Whitbourne	Biweekly Addictions Counsellor (from Harbour Grace clinic)
Community Support Program		
Child Care and Intervention Services:		
Community Behavioral Sciences Program	Whitbourne	
Child Care Services Program	Harbour Grace	
Direct Home Services Program	Whitbourne	
Child, Youth and Family Services	Placentia & Whitbourne	Placentia: Social Workers Whitbourne: Social Workers, Manager, and Director of Child, Youth and Family Services and Community Corrections for Eastern Health and Community Services Board.

Source: Eastern Health and Community Services (EHCS), 2006

3.1.3 International Health Services

The Eastern Health Authority has International Travel Clinics. None of these clinics are held in the Study Area. In the Region, there are clinics in Harbour Grace, Holyrood, Bay Roberts, Clarenville and Bonavista. In addition, there are private travel clinics in St. John's (S. Porter, pers. comm.). At these clinics, registered nurses provide travel health counseling, immunizations for people visiting other countries and conduct disease testing (EHCS, 2006; S. Porter, pers. comm.).

3.1.4 Environmental Health Services

The purpose of the provincial Environmental Health Program, administered in the Study Area by the Eastern Health Authority, is to reduce the risk of health hazards in the environment through collaboration with other agencies, communities, industry and government departments. It includes initiatives such as monitoring of air quality, public water supplies, safety of playgrounds, food borne

pathogens and disaster planning. Although the Eastern Health Authority is responsible for environmental health services, all field work is conducted by Environment Health Officers with the Department of Government Services (Eastern Health 2007).

Environmental health services in the Study Area are provided by the Government Service Centre in Harbour Grace. One Environmental Health Officer is responsible for the Study Area, covering the area between Branch and Long Harbour and Mount Arlington Heights (Cape Shore). There are an additional three environmental health officers in the Harbour Grace office who are available to service the area when necessary (S. Metcalfe, pers. comm.).

3.1.5 Ambulance Services

Ambulance service is provided by five operators in the Region. These operators maintain 22 vehicles and receive approximately 6,540 calls per year (Table 3-2). The towns of Long Harbour and Whitbourne are currently serviced by Smith's, based in Whitbourne, with four ambulances and 16 personnel. Placentia is serviced by Power's, operating three ambulances and 13 personnel. Annually, these two operators respond to 600 calls each. The annual number of calls reflects both emergency and routine calls (e.g., hospital transfers) for the operator's entire service area; data are not presently available by community. Each operator is required to ensure that if they are reduced to only one operating ambulance, it is reserved for emergency transports only. The only 24-hour service in the Region is the hospital-based service in Carbonear (M. Provencher, pers. comm.).

Table 3-2 Ambulance Services in Region

Operator	Location	# Vehicles Maintained	Approximate Annual Call Volume	Approximate # Personnel
Fewer's	Clarenville	7	1,663	43
Smith's	Whitbourne	4	600	16
Moore's	Clark's Beach	3	3,200	41
	Harbour Grace	4		
Power's	Placentia	3	600	13
Carbonear General Hospital	Carbonear	1	480	12
Total		22	6,543	125

Source: M. Provencher, pers. comm.

Until Spring 2005, the Public Utilities Board (PUB) was responsible for issuing licenses for ambulance services and determining service areas. Currently, this is the responsibility of Eastern Health. Locations of ambulance services are based on historical locations and service areas. Service Areas may presently overlap due to PUB issuing more than one license for the same community. Eastern Health is planning to conduct an in-depth analysis of the ambulance system to better understand the current need with regard to service locations, base locations and number of ambulance units required per base throughout the day. This analysis will be completed in 2007. However, there are currently negotiations between the Province and ambulance operators to look at the current level of services and determine if operators require funding to purchase new vehicles and equipment (M. Provencher, pers. comm.).

The annual call volume has increased in recent years, with the elderly using ambulance services more frequently. During the 2006-2007 fiscal year, 55 per cent of all transports by private or community-based ambulance services have been for patients 65 years of age or older (M. Provencher, pers. comm.).

3.2 Education

The following sub-sections describe the current level of provision of educational services and infrastructure in the Study Area and Region. Early childhood education, primary and secondary schooling and post-secondary education are included. Information is provided regarding the types of post-secondary training available locally and indicates the ability of local schools to cope with any immigration to the Study Area.

3.2.1 Early Childhood Education

There is one registered early childhood education facility in the Study Area: Little Pete's Daycare, in Placentia. Its capacity is 16 children at any one time (J. Sparks, pers. comm.). Currently there are 26 children registered and two staff members, with half of the children registered for the morning, and half for the afternoon sessions. Although all children presently registered in Little Pete's Daycare program attend part-time, this daycare does offer full-day child care from 8:00 am to 4:30 pm (M. Kelly, pers. comm.).

3.2.2 Primary and Secondary Schooling

There are nine primary and secondary schools in the Study Area. In 2005/06, there were 2,724 students enrolled at these schools and the schools had a physical capacity for an additional 1,210 students (Table 3-3). Placentia is scheduled for construction of a new high school and new elementary school. The new high school building would replace the existing Laval High School, and the new elementary building would replace the existing elementary schools in Dunville and Placentia (R. Power and F. Smith, pers. comm.). Information specific to the student capacity of the planned buildings was not available. As part of an agreement with the Town of Placentia, VBNC will contribute \$1.8 million to the Town to assist with construction of recreational facilities for the new high school, which will replace the current Laval High School building (Newfoundland and Labrador Department of Natural Resources (NLDNR), 2006). The new school will be mechanically ventilated to prevent mould accumulation, have a skilled-trades suite, a home economics room, computer lab and network, gymnasium, fitness centre, library/resource centre and a challenging needs suite (NLDNR, 2006).

Table 3-3 Student Population and Capacity of Primary and Secondary Schools in the Study Area

School ¹	Location ¹	Grades ¹	Serviced Towns in Study Area ¹	Student Population 2005/06 ²		
				Registered 2005/06	Capacity of School ¹	Special Needs Students
Primary/Elementary Schools						
All Hallows Elementary (stream into Amalgamated)	North River	K-6	<ul style="list-style-type: none"> • Roaches Line • Mahers • Makinsons 	456	500	42
Holy Family Elementary (stream into Crescent Collegiate)	Chapel Arm	K-6	<ul style="list-style-type: none"> • Bellevue • Bellevue Beach • Broad Cove • Chance Cove • Chapel Arm • Fair Haven • Long Cove • Long Harbour and Mount Arlington Heights • Norman's Cove • Thornlea 	140	217	25
St. Anne's (stream into Laval)	Dunville	K-9	<ul style="list-style-type: none"> • Fox Harbour • Placentia Junction 	251	614	40
St. Edwards Elementary (stream into Laval High School)	Placentia	K-8	<ul style="list-style-type: none"> • Argentia • Placentia • Point Verde 	244	415	0
Tricentia Academy	Arnold's Cove	K-12	<ul style="list-style-type: none"> • Arnold's Cove • Arnold's Cove Station • Come By Chance • Southern Harbour • Sunnyside 	360	385	50
Whitbourne Elementary (stream into Crescent Collegiate)	Whitbourne	K-6	<ul style="list-style-type: none"> • Goulds Pond • Markland • Ocean Pond • Whitbourne 	93	329	0
Woodland Elementary (stream into Crescent Collegiate)	Dildo	K-6	<ul style="list-style-type: none"> • Blaketown • Dildo • New Harbour • Old Shop • South Dildo 	215	358	4
Secondary Schools						
Crescent Collegiate	Blaketown	7-12	<ul style="list-style-type: none"> • Bellevue • Bellevue Beach • Blaketown • Broadcove • Chance Cove • Chapel Arm • Dildo • Fair Haven • Goulds Pond • Long Cove • Long Harbour and Mount Arlington Heights • Markland • New Harbour • Norman's Cove 	695	741	5

School ¹	Location ¹	Grades ¹	Serviced Towns in Study Area ¹	Student Population 2005/06 ²		
				Registered 2005/06	Capacity of School ¹	Special Needs Students
			<ul style="list-style-type: none"> • Ocean Pond • Old Shop • South Dildo • Thornlea • Whitbourne 			
Laval High School	Placentia	9-12	<ul style="list-style-type: none"> • Argentia • Fox Harbour • Placentia • Placentia Junction • Point Verde 	270	375	0
Total				2,724	3,934	166

¹M. Tucker pers. comm.
²Newfoundland and Labrador Statistics Agency/Community Accounts 2006

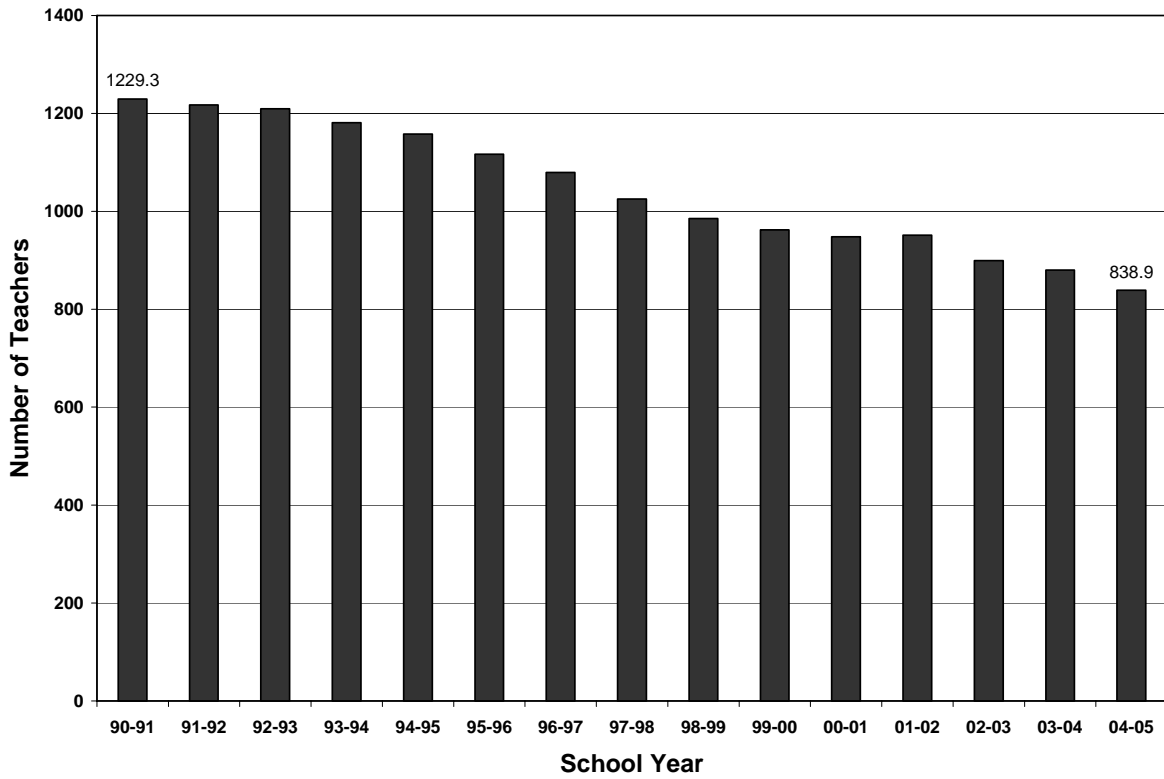
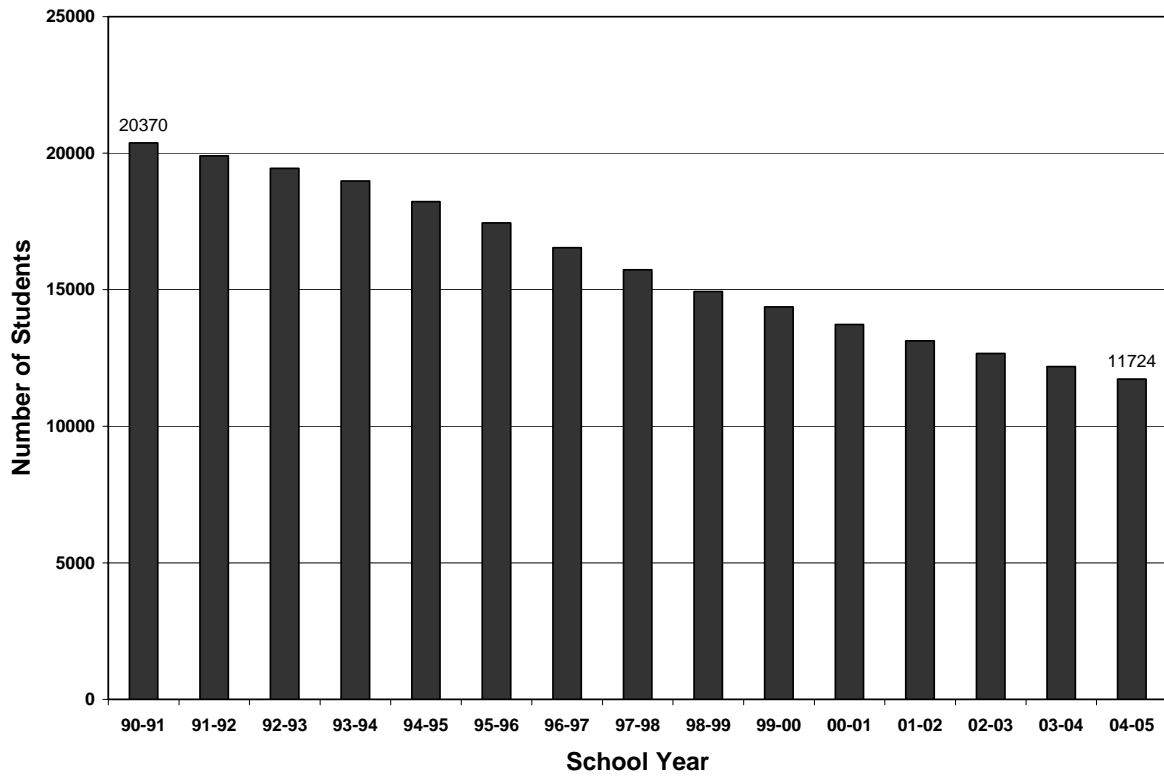
The numbers of both teachers and students in the Region have steadily decreased since the 1991/92 school year (Figure 3-1).

The number of students in the Region declined from 20,370 in 1990/91 to 11,724 in 2004/05, a decrease of 42.4 per cent. The greatest change was in Zone 18, with a decline of 51.3 per cent over the 90/91 through 04/05 period. Student enrollment in Zones 15 and 17 fell by 47.8 per cent and 36.4 per cent, respectively, suggesting that there is some unused institutional capacity in the school system.

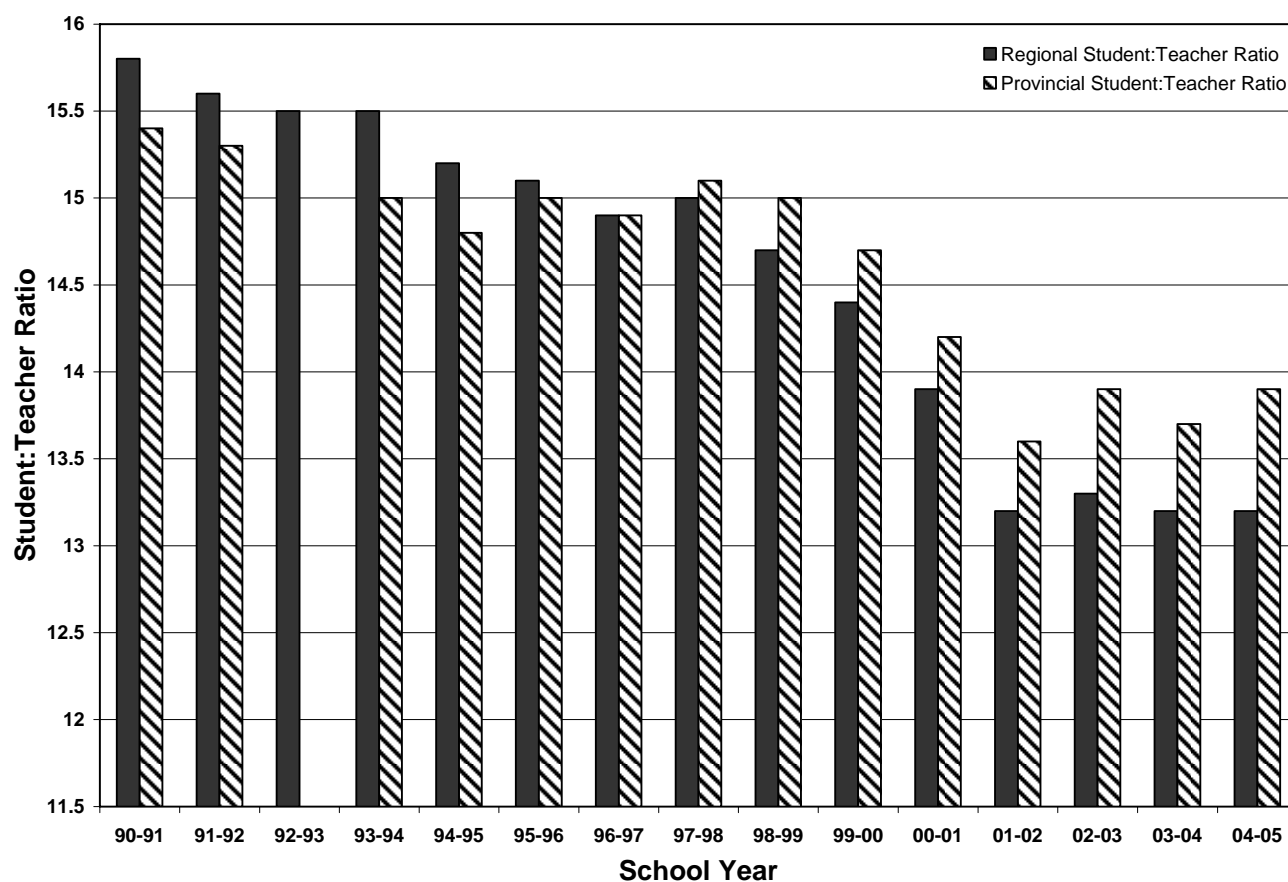
The number of teachers (measured in full-time equivalency) in the Region declined from 1,229.3 in 1990/91 to 838.9 in 2004/05, a decrease of 31.8 per cent, and the greatest fall occurred in Zone 18 (40.6 per cent). The number of teachers in Zones 15 and 17 declined by 33.6 per cent and 28.2 per cent, respectively. See Appendix A, Table A-1 for further data.

The number of students has declined more rapidly than the number of teachers in all three Zones (Figure 3-1); and therefore, the student/teacher ratio has fallen across the Region and in each Zone (Figure 3-2). This suggests that there may be capacity within the schools to absorb any increases in demand. The ratio in the Region has fallen from 15.8 in 1990/91 to 13.2 in 2004/05. The provincial ratio dropped from 15.4 to 13.9 over the same period.

Figure 3-1 Number of Students and Teachers, Region, 1990/91 to 2004/05



Source: Newfoundland and Labrador Statistics Agency/Community Accounts, 2006

Figure 3-2 Student/Teacher Ratio, Region and Province, 1990/91 to 2004/05

Source: Newfoundland and Labrador Statistics Agency/Community Accounts, 2006.

3.2.3 Post-Secondary Education

Newfoundland and Labrador has one university, Memorial University of Newfoundland (MUN), one public college, College of the North Atlantic (CNA) and 32 private training institutions (Department of Education, 2006). This section provides an overview of these institutions; more detailed information on training programs and enrolments, by region and gender, will be used in project planning, including equity planning.

3.2.3.1 Memorial University of Newfoundland

Memorial University of Newfoundland has five campuses: St. John's, the Marine Institute in St. John's, Sir Wilfred Grenfell College in Corner Brook, the Harlow Campus in England and the Institute Frecker in Saint-Pierre et Miquelon. Memorial does not operate a campus in the Study Area; however, its residents use all campuses, particularly those in St. John's. Faculties at the St. John's campus include Science, Arts, Engineering, Business, Education, Nursing, Pharmacy and Medicine.

Enrolment at MUN has increased from 16,483 in 1995 to 17,803 in 2005. The largest area of growth was graduate studies, which saw enrolment increase from 1,366 to 2,295 over this period (Thorne, 2005).

Memorial is a significant contributor to technological research and advancement in Atlantic Canada and has put in place programs to promote innovation in many industries, including mining and mineral processing. As part of these programs, Inco invested \$20 million in the University to establish and operate the Inco Innovation Centre (IIC), officially opened in September 2005. In addition to this investment, the IIC has also received funds from the Atlantic Innovation Fund, the Canada Foundation for Innovation and the Natural Sciences and Engineering Research Council. This research centre has resulted in approximately 55 new research positions and leading-edge research equipment. The research scope for the ICC is to conduct research and development for the innovative exploration and exploitation of mineral deposits, with emphasis on the development of process engineering and systems required for hydrometallurgical mineral processing. The ICC is to be the base for MUN's new undergraduate and graduate process engineering program and will be home to academic research in process hydrometallurgy, process simulation and controls and risk and environmental engineering (MUN, 2006).

3.2.3.2 College of the North Atlantic

The College of the North Atlantic (CNA) is Newfoundland and Labrador's only public college. It has 17 campuses in the Province, one of which is located in the Study Area, in Placentia. It also has one campus in the Middle-Eastern state of Qatar. In Newfoundland and Labrador, CNA enrollment is approximately 20,000 students per year. The CNA offers more than 100 full-time programs and more than 300 part-time courses. Students can earn a certificate, diploma or advanced diploma standing and have the option of continuing their studies and earning a degree at partner institutions (T. Pittman, pers. comm.).

The Placentia campus averaged 238 students per year between 2001 and 2006 (Table 3-4) and has traditionally served mature students (students coming from the workforce, not directly from secondary school) (T. Pittman, pers. comm.; D. Clarke, pers. comm.). The catchment area for the campus includes all of Economic Zone 18 (Figure 2-2) and the Whitbourne / New Harbour area. The Industrial Trades programs offered at the campus includes students from all parts of the Province (D. Clarke, pers. comm.). In recent years, the campus has expanded its market to include students exiting secondary school from both inside and outside the immediate campus catchment area. In 2005-06, the average age of students was 27, with 56 per cent of students being 25 years of age or younger. The campus serves mainly the area from Long Harbour and Mount Arlington Heights to Cape St. Marys, but also serves the needs of Conception Bay, Trinity Bay, St. John's and the rest of the Province with respect to Industrial Trades training (T. Pittman, pers. comm.). Full-time programs offered at the Placentia campus for the 2006-07 academic year are listed in Table 3-5, along with their capacity.

Table 3-4 CNA Placentia Course and Program Enrollment from 2001-02 through 2005-06³

Enrollment Status	2001-02	2002-03	2003-04	2004-05	2005-06	Average
Full-Time	238	228	216	243	202	225.4
Part-Time	19	21	11	1	12	12.8
Total	257	249	227	244	214	238.2

Source: T. Pittman, pers. comm.

Table 3-5 CNA Placentia Program Offerings and Capacity in 2006-07

Program	Capacity
Adult Basic Education	15
Adult Basic Education – HRLE	10
Heavy Duty Equipment Technician	17
Machinist	16
Industrial Mechanic (Millwright)	32
Welder	15
Comprehensive Arts and Sciences (CAS) College Transition	15

Source: T. Pittman, pers. comm.

In addition to its post-secondary programs, CNA also offers Adult Basic Education (ABE), a high school equivalency program. Although they are provided the same education, there are two separate streams of ABE: one offered to anyone and funded through CNA's provincial operating grant and other sponsoring agencies (e.g., Services Canada), and one reserved students funded by Human Resources, Labour and Employment (HRLE), a provincial government department. All programs, with the exception of the newly offered Comprehensive Arts and Science (CAS) (College Transition) Program, are filled to capacity (D. Clarke, pers. comm.).

Over the past five years, the School of Industrial Trades at CNA Placentia has offered (or is able to offer) the following courses that are accredited through the Industrial Training Branch of the provincial Department of Education:

- Industrial Millwright Mechanic – Entry Level;
- Industrial Millwright Mechanic – Advanced;
- Machinist – Entry Level;
- Machinist – Advanced;
- Welding; and
- Heavy Equipment Duty Repair.

The campus also offers several Business and Applied Arts courses including Business Administration, Office Administration, Front Line Hospitality Worker, Hospitality Server/Cooking and Basic French. Courses are also administered through community and corporate learning programs. These include computer and accounting courses aimed at the business needs of the area, general interest and community programs such as Firearm Hunter Safety and Traffic Control Person, and Process Operations

³ These figures include enrollment in non-program courses.

courses which were aimed at persons interested in entry level positions at the Argentia Demonstration Plant operated by VBNC. In addition to these, the campus offers Orientation to Trades and Technology for Women, which is carried out in cooperation with Human Resources and Social Development Canada (HRSDC) and the Women in Resource Development Corporation (T. Pittman, pers. comm.).

3.2.3.3 Private Colleges

Thirty-two private training institutions in Newfoundland and Labrador offer applied training in trades ranging from office assistance to equipment operation.

There are no private colleges in the Study Area. There are three private colleges in the Region: the Canadian Training Institute in Bay Roberts and two Keyin College campuses in Carbonear and Clarenville. The Canadian Training Institute offers training in heavy equipment operation, and Keyin College offers programs in Business and Applied Arts, Information Technology and Healthcare and Human Services (Keyin College, 2006).

3.3 Income Support and Employment Services

The following sub-sections describe the provincially and federally administered income support and employment services available in the Study Area and Region.

3.3.1 Human Resources, Labour and Employment

The Newfoundland and Labrador Department of Human Resources, Labour and Employment, which provides income support, has one Career Employment and Youth Services Centre in the Study Area, in Placentia. It employs one Client Service Officer who is responsible for the Cape Shore, north to Clarenville, including most of the Study Area. There are two additional Centres in the Region, located in Clarenville and Carbonear. Whitbourne, Southern Harbour, Chance Cove and Chapel Arm are served by the Carbonear Centre. Each Centre has dedicated resources focused on helping clients prepare for, find and maintain employment. Services are available for individuals, organizations and employers. Available services are listed in Table 3-6. The main groups targeted for services by the Department include youth, persons with disabilities, single parents and any individual with limited or no attachment to the labour market. In addition to services offered through the Centres, clients can access income support services through a toll-free telephone number from anywhere in the Region.

Table 3-6 Services Offered at Career Employment and Youth Services Centres in the Region

Individual Services	Organization Services	Business Services
<ul style="list-style-type: none"> • <i>Career Planning</i>: Career Counselling, Resume Writing, Interview Assistance. • <i>Financial Benefits</i>: Income Support benefits, income supplementation, employment supports, i.e. tools, educational supports for person with a disability, LMAPD (labour market partnerships for persons with disabilities and funding for short term training). • <i>Jobs</i>: Work search support through Job Broker services, Wage subsidies (NL works). • <i>Youth Services</i>: Graduate Employment, Student Employment Program and Student works and Services Program (SWASP) • <i>Labour Market Information</i>: 1-800-563-6600 or www.gov.nl.ca/nlwin • <i>Information and referral</i>: to other Fed./Prov. and/or community based services 	<ul style="list-style-type: none"> • <i>Partnerships Initiatives and funding</i>. Eg. Genesis Employment Corporation or WISE (women is successful employment) 	<ul style="list-style-type: none"> • <i>Human Resource Management</i>: Employer information forums, Wage Subsidies (NL Works)

The Placentia office serves approximately 300 clients and sees only clients who are not Employment Insurance (EI) eligible (i.e., have had no attachment to the workforce in the past three years) and those who are receiving EI and require supplemental income. The office serves both provincial and federal income assistance programs. Anyone in the service area who requires income support must make use of this office. A Career Development Specialist, based in Harbour Grace, is available to clients and travels to the Placentia office as necessary (V. Smith, pers. comm.).

3.3.2 Human Resources and Social Development Canada

The Region is served by three Service Canada Centres, operated by HRSDC, located in Placentia, Harbour Grace and Clarenville. Although there are Service Representatives in each of the offices, the majority of services can be set up and accessed by telephone or on-line (Service Canada, 2006). The services available to individuals, organizations and business in the Region are listed in Table 3-7.

Table 3-7 Services Offered at HRSDC Centres in the Region

Individual Services	Organization Services	Business Services
<ul style="list-style-type: none"> • <i>Career Planning</i>: Career Counselling, Resume and Interview Assistance, Student Services • <i>Financial Benefits</i>: Canada Pension, Disability Benefits, EI, Old Age Security, Survivor Benefits • <i>Identification Cards</i>: Pleasure Craft Licensing • <i>Jobs</i>: Job Bank, Work Search Tools/Tips, Youth Employment Services • <i>Labour Market Information</i>: Job Descriptions and Links • <i>Social Insurance Number (SIN) Application</i>: Residents and Immigrants • <i>Training and Learning Services</i> 	<ul style="list-style-type: none"> • Partnership Initiatives and Funding Programs 	<ul style="list-style-type: none"> • <i>Human Resource Management</i>: Hiring Foreign Workers, Record of Employment, Wage Subsidies • <i>Labour Market Information</i>
Source: Service Canada, 2006		

In addition to the Service Canada Centres, HRSDC operates smaller offices offering specialized services. These include the Employment Outreach and Career Information Resource Centre in Placentia and Employment Service Centres located in Clarendville, Bonavista, Chapel Arm and Bay Roberts. These offer similar services as the Service Canada Centres, but services are targeted at local residents and youth (Service Canada, 2006).

3.4 Policing and Safety

The following sub-sections describe the policing and safety services in the Study Area and Region. The safety services include fire departments and Canadian Coast Guard (CCG) services. The emergency medical services are discussed in Section 3.1.4 with other healthcare services.

3.4.1 Policing

Newfoundland and Labrador is primarily policed by B Division of the Royal Canadian Mounted Police (RCMP), with St. John's, Corner Brook and Labrador City being policed by the Royal Newfoundland Constabulary (RNC). The Study Area includes several districts within B Division: Placentia-Whitbourne District, Avalon East District, Trinity-Conception District and Clarendville-Bonavista District. The Placentia-Whitbourne District (the District) covers most of the Study Area and will be discussed in detail. The other districts have not been included in the discussion as they pertain to very small portions of the Study Area. Data from all districts in the Region are provided in Appendix A, Tables A-2 through A-10.

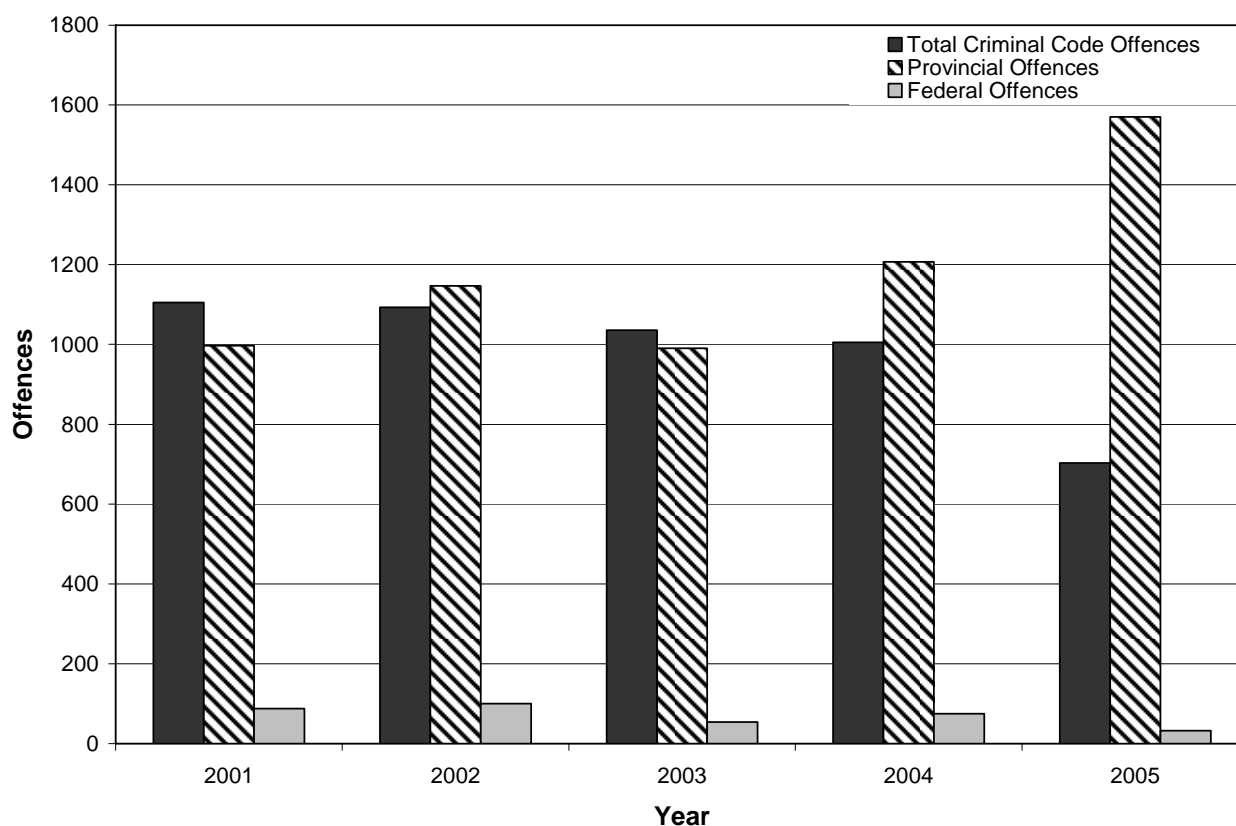
Criminal offences are grouped into one of four categories according to the nature of the infraction: Criminal Code, Federal, Provincial and Municipal. Offences charged under the Criminal Code are typically the most serious, and those charged under Municipal the least. For example, provincial traffic violations include such infractions as speeding and dangerous driving, while Criminal Code traffic violations include offences such as impaired driving and driving without a license. Incidents of these

offences are summarized in Table 3-8. In all years, the number of federal and municipal offences was much lower than other types of offences. Provincial offences were the most numerous between 2001 and September 2005 (Table 3-8; Figure 3-3).

Table 3-8 Criminal Offences in the Placentia-Whitbourne District between 2001 and 2005⁴

Offence Type	2001	2002	2003	2004	2005	TOTAL
Criminal Code Offences¹	1,105	1,093	1,036	1,005	703	4,942
Federal Offences²	88	100	54	75	32	349
Provincial Offences³	997	1,147	990	1,207	1,570	5,911
Municipal Offences⁴	2	0	1	4	1	8
Collisions and Traffic Offences⁵	400	341	330	278	238	1,587
Total Offences	2,592	2,681	2,411	2,569	2,544	12,797
<p>¹Criminal Code Offences: <u>Crimes Against Persons:</u> Aggressive actions or threats that have targeted or injured a person. Criminal Code offences include: Violations Causing Death, Attempting the Commission of a Capital Crime, Sexual Assaults, Assaults, Violations Resulting in the Deprivation of Freedom and other Violations involving Violence or the Threat of Violence. <u>Crimes Against Property:</u> Criminal activity which causes damage to the property of a person or business. Criminal Code offences include: Arson, Break and Enters, Theft, Possession of Stolen Goods, Fraud, and Mischief. <u>Other Criminal Code:</u> All other Criminal Code activity (excluding Criminal Code Traffic offences). Offences include: Prostitution, Gaming and Betting, Offensive Weapons, and Other Criminal Codes.</p> <p>²Federal Offences: <u>Total Drugs:</u> All criminal offences under the Controlled Drugs and Substances Act. Offences include: Possession, Trafficking, Importation & Production and Production. <u>Total General:</u> All criminal offences under Federal Statutes and the Migratory Bird Conventions Act. <u>Total Federal:</u> Total General + Total Drugs</p> <p>³Provincial Offences: <u>Total General:</u> Criminal offences under Provincial Statutes excluding Traffic. <u>Total Liquor:</u> All Provincial Statute criminal offences under the Intoxicated Persons Detention Act and the Liquor Act. <u>Total Provincial Traffic:</u> Provincial Statute criminal offences in the traffic category. Offences include but are not limited to: Fail/Stop/Remain Dangerous Driving, Drive Disqualified/Suspended, Other Moving Traffic, Other Non-Moving Traffic and Insurance Coverage Violation. <u>Total Provincial:</u> Total General + Total Liquor + Total Provincial Traffic</p> <p>⁴Municipal Offences: Offences under municipal by-laws.</p> <p>⁵Collisions and Traffic Offences: <u>Total Collisions:</u> Includes fatalities, injury accidents, reportable damage and non-reportable damage of all motorized vehicle collisions. <u>Total Collisions:</u> Offroad Vehicles: Off-road vehicle collisions only. <u>Total Provincial Traffic:</u> Disputed Provincial Traffic tickets. <u>Total Other Traffic:</u> Municipal Traffic Offences and Checkstop Programs. <u>Criminal Code Traffic:</u> Criminal Code Traffic offences which include: Dangerous Operation of a Motor Vehicle, Vessel or Aircraft, Dangerous Operation Evading Police, Impaired Operations/Related Violations and Other Criminal Code Violations.</p> <p>Source: J. Taylor, pers. comm.</p>						

³ 2005 data represent only the period between January and September 2005 (J. Taylor, pers. comm.).

Figure 3-3 Offences Committed in the Placentia-Whitbourne District, 2001 to 2005³

Source: J. Taylor, pers. comm.

The number of Criminal Code offences committed in the District declined from 1,105 in 2001 to 1,005 in 2004. The number of Federal offences varied annually over the same period, while the number of provincial offences increased from 997 to 1,207. Most provincial offences are traffic related, and these increased substantially, from 598 to 867, over the 2001 to 2004 period. Municipal offences are so few (four in 2004) as to be negligible. There has been a decline in the number of vehicle collisions and criminal code traffic offences (Appendix A, Table A-2).

The population served by the District fell from 15,142 in 2001 to 14,563 in 2004. The Criminal Code offences/population ratio decreased from 1:13.7 to 1:14.7 over this period. In 2004 there were 14 permanent front-line police officers (i.e., not including administrative positions or members of specialized units, such as Major Crime and Forensic Investigation) in the District. The police officer/population ratio increased from 1:1,082 in 2001 to 1:1,040 in 2004.

Highway traffic is policed by RCMP Traffic Services. This division is responsible for highway traffic offences, while traffic offences within towns are the responsibility of the local detachment offices. Presently, there are 27 members of this division stationed at 10 locations across the Province. In the Region, there are two members stationed in Clarendville and six in Holyrood. The number of traffic offences and collisions in the Division fell from 400 in 2001 to 278 in 2004 (J. Taylor, pers. comm.).

Criminal Code offences in B Division have increased from 24,160 in 2001 to 27,261 in 2004, while Federal, Provincial, and Municipal offences have fallen. The number of collisions and traffic offences has also declined (J. Taylor, pers. comm.).

See Appendix A, Tables A-2 to A-10, for a full dataset.

3.4.2 Fire Safety

Within the Study Area, there are 13 municipal fire departments composed entirely of volunteers (W. Porter, pers. comm.). In addition, there is also one industrial fire department at the North Atlantic Refinery in Come by Chance. The staffing levels, equipment and average number of responses for these departments are summarized in Table 3-9. Construction of a new fire hall is planned in Placentia, which will replace the existing three fire halls (R. Power and F. Smith, pers. comm.). Construction costs will be partially funded through a contribution to the Town of Placentia by VBNC (NLDNR, 2006).

Table 3-9 Fire Departments in the Study Area, Staffing, Equipment and Approximate Number of Annual Fire/Emergency Responses

Town/Company	# Volunteer Firefighters	Equipment	Approximate # Annual Responses	Information Source
Arnold's Cove	32	NA	N/A	
Bellevue	N/A*	N/A	N/A	
Chance Cove	N/A	N/A	N/A	
Come By Chance	13	<ul style="list-style-type: none"> • 10 year old fire truck • 10 year old fire van • Both in good condition 	1 or 2	
Fair Haven	N/A	N/A	N/A	
Little Harbour East	N/A	N/A	N/A	
Long Harbour and Mount Arlington Heights	13	<ul style="list-style-type: none"> • 1981 GMC Pump Firetruck • 1980 Chevrolet Rescue Van 		M. Pretty pers. comm.
Norman's Cove	23	<ul style="list-style-type: none"> • 1991 pumper truck • 1973 water truck • Supply van 	12 to 24	D. Hudson pers. comm.
Placentia	35	<ul style="list-style-type: none"> • 3 Pumper Trucks • 1 rescue van • Jaws of Life • Foam system 	26	R. Power and F. Smith pers. comm.
Southern Harbour	28	<ul style="list-style-type: none"> • Pumper truck • 1972 pick-up truck 	4	
Sunnyside	25	<ul style="list-style-type: none"> • 1993 pumper truck • 2003 rescue truck 	10	
Whitbourne	19	<ul style="list-style-type: none"> • 1995 fire truck • 2003 cube van • 1972 pumper truck • 1991 van • Portable Pumper • Jaws of life 	30	J. Gosse, pers. comm.
North Atlantic Refinery	Trained staff on each shift	<ul style="list-style-type: none"> • Foam wagon • Hazmat • 24 year old fire truck • 10 year old fire truck 	15 to 20	J. Beach pers. comm.

* N/A – Information was not available

3.4.3 Canadian Coast Guard and Search and Rescue

The Canadian Coast Guard (CCG) is responsible for providing resources in support of maritime search and rescue in areas of federal responsibility. The main CCG operation in Newfoundland is the Maritime Rescue Sub-Centre in St. John's, which responds to approximately 500 incidents involving 2,900 people per year. Of these incidents, 28 per cent are classified as distress incidents. The Newfoundland and Labrador region has more distress incidents than any other region in Canada. Services outside the St. John's area are augmented by the Canadian Coast Guard Auxiliary (CCGA), a volunteer organization consisting of approximately 1,000 members and 460 vessels. The CCGA responds to 35 per cent of maritime search and rescue incidents (CCG, 2006).

Ground search and rescue (SAR) in Newfoundland is typically coordinated by the RCMP, with the assistance of trained local volunteers. In the Study Area, ground SAR is provided by the Avalon North Wolverines Ground Search and Rescue. This volunteer organization is based in Bay Roberts and currently has 55 trained members from the Bay Roberts area, Placentia, New Harbour and the north shore of Conception Bay. This is the largest of the 27 volunteer SAR teams in the Province. Volunteers are trained and certified by the RCMP in map reading, compass use, first aid, CPR, night searches and other SAR techniques. Several volunteers are also trained in cold-water rescue (Town of Bay Roberts, 2007).

3.5 Transportation

The following sub-sections describe the main modes of transportation within the Study Area and Province, including highways, airports and marine ports.

3.5.1 Highways

The main provincially-maintained roads likely to be affected by Project-related traffic are Route 202 between the Trans Canada Highway (TCH) and Long Harbour, and Route 101 between the Argentinia Access Road (Route 100) and Long Harbour. These are both single-lane highways and are in poor condition, requiring upgrading to bring them up to their potential capacity (J. Morrissey, pers. comm.).

The Newfoundland and Labrador Department of Transportation and Works (NLDTW) employs a highway maintenance schedule based on a classification scale from A to E. A designation of 'A' is the lowest level of service and 'E' the highest. Route 202 has a current level of service of 'C' and Route 101 has a current level of service of 'B'; based on these classifications the conditions of Route 202 are therefore better than those of Route 101, as it is maintained more frequently. (J. Morrissey, pers. comm.). Theoretically, these roads are each capable of withstanding an increase of up to approximately 400 passenger cars per hour (pc/h), changing them to category 'E' roads. However, Route 101 is currently in poor condition and would require upgrading to bring it up to its potential capacity (J. Morrissey, pers. comm.).

Average Annual Daily Traffic data, or average daily traffic volumes, manually collected during provincial traffic studies conducted by the NLDTW are summarized in Table 3-10. Counts have not been conducted in recent years; therefore, historic data were increased annually by two per cent to

provide estimates for 2006 traffic counts (J. Morrissey, pers. comm.). Based on this, NLDTW estimates that in 2006 approximately 490 vehicles per day exit the THC traveled towards Long Harbour on Route 202, and an additional 470 vehicles traveled towards Long Harbour on Route 101. The busiest highway in the area is the Argentia Access Road, which was expected to experience 1,684 vehicles per day in 2006.

Table 3-10 Annual Average Daily Traffic Counts and Estimated Traffic Counts

Highway	Annual Average Daily Traffic Counts		
	1996	2004	2006
Route 202 <i>(Exiting TCH toward Long Harbour and Mount Arlington Heights)</i>	405	474	493*
Route 101 <i>(Exiting Route 100 towards Long Harbour and Mount Arlington Heights)</i>	385	451*	469*
Route 100, Argentia Access Road <i>(Exiting TCH towards Placentia and Argentia)</i>	1,381	1,619	1,684*

Source: J. Morrissey, pers. comm.
*Estimated traffic counts based on 2% annual increase (J. Morrissey, pers. comm.).

The most common type of vehicle on all roads in the Study Area is regular passenger cars, followed by pick-up trucks and mini-vans (Table 3-11).

Table 3-11 Annual Average Daily Traffic Counts by Vehicle Type, 1996

Highway	1996 Average Annual Daily Traffic				
	Total Vehicles	Regular Cars (%)	Single Unit Trucks (%)	Transport Trucks and Buses (%)	Pick-ups and Mini-Vans (%)
Route 202 <i>(Exiting TCH toward Long Harbour and Mount Arlington Heights)</i>	405	67	3	1	28
Route 101 <i>(Exiting Route 100 towards Long Harbour and Mount Arlington Heights)</i>	385	66	2	6	25
Route 100, Argentia Access Road <i>(Exiting TCH towards Placentia and Argentia)</i>	1,381	53	9	5	32

Source: J. Morrissey, pers. comm.

3.5.2 Ports

There are two major harbours which could be affected by increased industrial activity in the Study Area: the Port of Long Harbour and the Port of Argentia.

The Port of Long Harbour is managed by the Long Harbour Development Corporation. The finger-pier dock at Long Harbour is 366 m long, with 12 m of draft alongside. The dock is constructed of concrete caissons with a concrete deck, allowing for substantial loading capacity. The well-sheltered dock is capable of accommodating ships up to 290 m in length. There are three berths. Berth 1 is 204 m long,

Berth 2 is 198 m long and Berth 3 is 168 m long. (Argentia Area Chamber of Commerce (AACC), 2003).

The Port of Argentia is owned by Argentia Management Authority Inc. and administered by its wholly owned subsidiary, Argentia Port Corporation. It has three wharves: the Navy Dock; the Fleet Dock; and the Marine Atlantic Terminal. The Marine Atlantic Terminal is equipped with a roll on/roll off ramp, but this is only available, with consent from Marine Atlantic, from October to May. The Fleet Dock has four berths. Berths 1 and 2 are 150 m long and 155 m long, respectively, and have an alongside water depth of 11.0 m. Berths 3 and 4 are 120 m long and 48.4 m long, respectively, each with an alongside water depth of 8.5 m. Berths 1 and 2 have a bearing capacity of 2,500 kg/m² and Berths 3 and 4 have a bearing capacity of 1,500 kg/m². There are 23.5 ha of upland storage (AACC, 2003; AMA, 2006).

Marine Atlantic, a federal Crown corporation, provides passenger and vehicle ferry service between Nova Scotia and Argentia between June and September. There were 80 crossings of this route in both 2005 and 2006, but the number of total passenger vehicles decreased by 3.9 per cent (Table 3-12) (Newfoundland and Labrador Department of Tourism, Culture and Recreation (NLDTCR), 2007). The ferry wharf has a roll on/off ramp and is available, with prior approval from Marine Atlantic, during the off-season between October and May (AACC, 2003).

Table 3-12 Marine Atlantic Passenger and Vehicle Traffic, Argentia to Nova Scotia Service, 2005 and 2006

	2005	2006	% Change
# Passengers Carried	34,811	33,149	-4.8
# Passenger-Related Vehicles Carried	13,617	13,092	-3.9
# Annual Crossings	80	80	0
Source: NLDTCR, 2007			

3.5.3 Airports

There is no airport in the Study Area. The closest airport is the St. John's International Airport (SJIA), 113 km from Long Harbour and Mount Arlington Heights (Newfoundland and Labrador Statistics Agency, 2006a).

Eighty per cent of non-resident visitors to Newfoundland and Labrador enter through SJIA. Passenger volumes increased 35 per cent from 2002 to 2005 and in 2005, the SJIA supported 1.2 million passengers. The St. John's International Airport Authority (the Authority), which manages the airport, is projecting a further 20 per cent growth in passenger volumes over the next five years (SJIA, 2005).

The SJIA has three runways: two instrument landing runways (used for commercial/larger aircraft) and a shorter visual flight rules runway used mainly by smaller aircrafts and by Cougar Helicopters. There is a scheduled service passenger terminal that was renovated in 2003 and the Cougar Heliport Terminal. Air Canada has a separate cargo building, and there is also one for general aviation on the Torbay side of the airport, which services cargo as well as military traffic and private aircraft. The Authority has a capital projects plan that will direct \$38 million towards runway resurfacing and expansion, construction of a multi-use facility to be used for de-icing and aircraft storage, an expansion

to the terminal, an expansion to the visitor information centre, and the purchase of an additional passenger loading bridge (P. Avery, pers. comm.). Carriers using SJIA include: Air Canada, Air Canada Jazz, WestJet, Provincial Airlines, Air Labrador, Continental and Air Saint-Pierre.

3.6 Municipal Infrastructure and Services

There are three cities, 280 towns and 182 local service districts in Newfoundland and Labrador. The scope of municipal authority in the Province is defined by over a dozen pieces of provincial legislation including the *Municipalities Act* 1999, *Municipal Elections Act* 2001, *Urban and Rural Planning Act* 2000, and *Water Resources Act* 2002. Municipal councils have limited jurisdictional authority. Officially, they are responsible for provision of water and sewer services, street lighting, road maintenance, waste management, fire and police services, public transportation, public libraries, recreation facilities and promotion of economic development (Newfoundland and Labrador Federation of Municipalities (NLFM), 2005).

The financial cost of providing municipal services is one of the greatest challenges facing rural municipalities, including those in the Study Area. Residents of small, rural communities demand a level of service similar to those experienced in larger centres. However, these small communities mostly have a declining population base that cannot support the financial investment that is required. The traditional approach to municipal service and infrastructure delivery has been to install standard local systems in each municipality. This is becoming too expensive for most municipalities (NLFM, 2005).

These challenges are common to the communities in the Study Area. The following sub-sections focus on the current state of municipal services and infrastructure within the towns thought most likely to be affected by the Project and any in-migration that may result from it. These communities are the municipalities of Long Harbour and Mount Arlington Heights, Placentia and Whitbourne. Municipal services and infrastructure addressed include personnel, roads, facilities, waste management, sewage, emergency planning and land use planning.

3.6.1 Personnel

The Town of Long Harbour and Mount Arlington Heights currently employs three full-time, paid personnel: a Town Clerk/Manager, an Administrative Assistant and a Maintenance Person. The mayor and councillors are volunteers. The Town is currently examining the town staffing requirements to determine if current staff is sufficient to deal with the potential increased workload resulting from the Project (M. Pretty, pers. comm.).

Whitbourne currently employs four people. The mayor and councillors are volunteers (J. Gosse, pers. comm.).

Placentia maintains the largest municipal staff, with 17 individuals. The Town Office is very busy and short-staffed (R. Power and F. Smith, pers. comm.). Typically, when additional personnel are required, outside consultants are used instead of hiring directly. However, in 1996, the Town hired a town planner and engineer to help with the increased workload due to the planned VBNC Processing Plant at

Argentina. They are no longer employed by the Town. The mayor and councillors of Placentia are paid (R. Power and F. Smith, pers. comm.).

3.6.2 Municipal Budgets

The annual operating budget for the Town of Long Harbour and Mount Arlington Heights is \$302,032 for 2007. Expenses (by service) and revenue sources are broken down in Table 3-13.

Table 3-13 Town of Long Harbour and Mount Arlington Heights, 2007 Municipal Budget Revenues and Expenses

Service	Breakdown	Revenue Source	Breakdown
General Government	\$144,402	Taxes collected for 2007	\$161,761
Protective Services	\$7,000	Revenue from Town	\$85,800
Transportation Services	\$44,405	Municipal Operating Grants	\$15,325
Environmental Health	\$31,137	Province Portion of Debt Charges	\$28,322
Recreation and Cultural Services	\$2,750	Federal Government (Gas Tax)	\$10,824
Fiscal Services	\$72,338	Total	\$302,032
Total	\$302,032		

Source: M. Pretty, pers. comm.

The proposed operating budget for the Town of Whitbourne is \$976,457 for 2007. Expenses (by service) and potential revenue sources are broken down in Table 3-14.

Table 3-14 Town of Whitbourne, 2007 Proposed Budget Revenues and Expenses

Service	Breakdown	Revenue Source	Breakdown
General Government	\$152,850	<i>Proposed</i> Tax Revenue for 2007	\$575,922
Fire Protection	\$32,000	Operating Grant	\$46,224
Road Transportation	\$220,000	Other Revenues	\$213,727
Environmental Health	\$177,300	<i>Proposed</i> Capital Works for 2007-08	\$140,584
Planning and Development	\$14,800	<i>Proposed</i> Total	\$976,457
Recreation	\$22,000		
Other	\$215,142		
Total	\$812,092		

Source: J. Gosse, pers. comm.

The annual operating budget for the Town of Placentia is \$3,529,495 is for 2007. Expenses (by service) and revenue sources are broken down in Table 3-15.

Table 3-15 Town of Placentia, 2007 Proposed Budget Revenues and Expenses

Service	Breakdown	Revenue Source	Breakdown
General Government	\$600,908	Property Tax	\$1,016,520
Protective Services	\$112,600	Business Tax	\$600,856
Transportation	\$613,732	Poll Tax	\$12,600
Environmental Health	\$779,296	Water and Sewer Tax	\$629,039
Planning and Development	\$170,370	Water Tax only	\$78,280
Recreation and Culture	\$219,008	Payment in Lieu of Taxes	\$70,000
Fiscal Services	\$1,033,581	Grants in Lieu	\$30,400
Total	\$3,529,495	Operating Grant Agenda	\$50,000
		Recreation and Cultural Services	\$7,000
		Arena Revenue	\$85,000
		Tipping Fees	\$2,400
		Licence and Permits	\$5,000
		Tax Certificates	\$2,000
		Miscellaneous Income	\$15,000
		Bank Interest Income	\$3,500
		Municipal Operating Grant	\$331,159
		Surplus from Previous Years	\$440,741
		Sale of Land	\$50,000
		INCO Tax Agreement	\$100,000
			Total

Source: R. Short, pers. comm.

3.6.3 Roads

Most roads in Long Harbour and Mount Arlington Heights require repair. The main road through the town, Route 202, is maintained by NLDTW, and all side roads are maintained by the Town (M. Pretty, pers. comm.). In total, the Town maintains 3.5 km of road. In addition to maintenance, the Town also provides snow-clearing to this section of road.

The roads in Placentia, which are jointly maintained by NLDTW and the Town are also in poor condition (R. Power and F. Smith, pers. comm.). The Town is responsible for maintaining approximately 38 km of roads. The Town does not provide snow clearing services directly. A private company is contracted to provide the service (R. Power, pers. comm.).

The roads in Whitbourne are in good condition. The Town services all roads in the municipality, with the exception of the main road from the TCH to Markland and Bond Road, which is serviced by NLDTW. In addition to road maintenance, the Town also provides snowclearing. Equipment owned by the Town for the purpose of snow-clearing includes a backhoe, dumptruck with blade and sander attachments and a pick-up truck with blade (J. Gosse, pers. comm.).

For information regarding provincially maintained highways see Section 3.5.1.

3.6.4 Facilities

Facilities owned and maintained by Long Harbour and Mount Arlington Heights, Whitbourne and Placentia are summarized in Table 3-16.

Table 3-16 Municipal Facilities in Long Harbour and Mount Arlington Heights, Whitbourne and Placentia

Long Harbour and Mount Arlington Heights (M. Pretty, pers. comm.)	Whitbourne (J. Gosse, pers. comm.)	Placentia (R. Power and F. Smith, pers. comm.)
<ul style="list-style-type: none"> • Town Council/Fire Department Building – includes both the town council offices with an attached section for the fire department. The council office presently consists of one staff office and one council chamber and contains various standard office equipment; and • Tennis court, playground and ballfield. <p>Town infrastructure is currently under review. A change in the location of the Town Office is anticipated in the near future.</p> <p>St. Francis Xavier Parish owns a Parish Hall located in the town which is used for community functions</p>	<ul style="list-style-type: none"> • Town Hall; • Fire Hall; • Sports and Recreation Building; • Library; • Museum; • Playground, soccer field, ballfield, skateboard park, and Historic Bond Park; and, • Sewage Treatment Facility. 	<ul style="list-style-type: none"> • Town Hall; • Three Fire Halls – construction of a new fire hall is planned and will replace the three existing halls; • Public Works Depot; • Land Fill; • Youth Centre; • Arena, walking trails, regatta grounds and equipment, two ballfields and soccer field; and • Planned: Sewage Treatment Facility in Dunville

3.6.5 Waste Management and Infrastructure

Each of the three towns has a garbage pick-up day every week. In Long Harbour and Mount Arlington Heights, garbage is collected using the town-owned pick-up truck and trailer. This truck is also used with a detachable plow to clear snow from town roads during the winter. Garbage is transported to the town of Norman's Cove, approximately 20 km away, for disposal. Long Harbour and Mount Arlington Heights pays an annual waste disposal fee to Norman's Cove for the use of the site (M. Pretty, pers. comm.).

Garbage pick-up in Whitbourne and Placentia is contracted to BrownCo. Investment Inc., based in Placentia. The landfill site for Whitbourne is owned by the Town of Norman's Cove - Long Cove and is located in Long Cove. The Placentia municipal landfill site is near the town, off Fox Harbour Road (J. Gosse, pers. comm.; R. Power and F. Smith, pers. comm.).

3.6.5.1 Provincial Waste Management Strategy

In 2002, the provincial Department of Environment released the Newfoundland and Labrador Waste Management Strategy. This strategy aims to provide modern waste management throughout the Province by 2010 through five primary actions: increasing waste diversion (recycling), establishing waste management regions, developing modern standards and technology, maximizing the economic and employment opportunities, and public education regarding waste management (Newfoundland and Labrador Department of Environment 2002).

To reduce the number of waste disposal sites 15 waste management regions have been established. The Study Area falls within the Greater Avalon Regional Waste Management Area. There are two regional

landfill sites proposed for this Area, near Conception Bay (Greater Avalon Regional Waste Management Committee, n.d.).

3.6.6 Sewage Management

The Town of Long Harbour and Mount Arlington Heights does not currently have a sewage system. Each building (homes and businesses) has an individual septic system (M. Pretty, pers. comm.). Whitbourne uses a lagoon sewage treatment system with lift stations where necessary (J. Gosse, pers. comm.).

Several different sewage systems are in use in Placentia. Most homes in Placentia are attached to the sewer systems of the smaller communities that make up the Town of Placentia. All of these drain into adjacent freshwater. Those in Dunville and Freshwater use a gravity sewer system, while those in Placentia, Jerseyville and Southeast use septic tanks and a pump sewer system. The town has plans to build a sewage treatment plant in Dunville, which will service all of Placentia (R. Power and F. Smith, pers. comm.).

Whitbourne operates a two lagoon sewage treatment system consisting of one intake and one settling pond. These are aerated by three pumps and chlorinated (J. Gosse, pers. comm.)

3.6.7 Emergency Planning and Response

All three towns have Emergency Planning and Response Plans (M. Pretty, pers. comm.; J. Gosse, pers. comm.; R. Power and F. Smith, pers. comm.).

3.6.8 Land Use Planning

With the assistance of an engineering firm and consulting firm, Long Harbour and Mount Arlington Heights is currently reviewing all land ownership, land use and zoning within the town boundaries for preparation of a Town Plan document. This document is expected to be complete by mid-2007 (M. Pretty, pers. comm.).

The Towns of Placentia and Whitbourne both have Town Plans. These Plans include land zoned for new commercial and residential development in each of the Towns (R. Short, pers. comm.; J. Gosse, pers. comm.).

3.7 Industrial and Commercial Real Estate

Large amounts of industrial and commercial space are available within the Study Area, in Placentia and Argentia. The Town of Long Harbour and Mount Arlington Heights will complete a Town Plan document by mid-2007. This document is expected to set aside large amounts of land for industrial and commercial use; however, the precise area and location has not yet been finalized (M. Pretty, pers. comm.).

Placentia has 21,838 m² of currently leased commercial (office/retail and warehouse) space. A further 11,608 m² (7,260 m² office/retail, 4,348 m² warehouse) is available at 16 sites within the town. Commercial-space prices range from \$130.00/m² to \$183.00/m² per month (AACC, 2003).

The Southside Industrial Park at Argentia has 40 fully-serviced lots ranging in size from 0.60 to 2.68 ha. Of 46,450 m² of building space, 27,870 m² is currently rented or leased. There are 12 buildings located in the Park. Four of these are occupied, two are partially occupied and six are vacant (AACC, 2003).

There is commercial space available for sale and/or lease in Placentia. The demand is low for commercial real estate market in the Town of Placentia, as many businesses find it easier to operate from larger centres such as St. John's or Carbonear, and transport to the Area by car or truck (J. King, pers. comm.).

3.8 Housing

The following sub-sections describe the current state of housing with respect to the stock (both sale and for rent) and construction activity. Temporary accommodations (hotels, campgrounds) and residential land planning within the municipalities of Long Harbour and Mount Arlington Heights, Placentia and Whitbourne are also described.

3.8.1 Stock

The number of occupied private dwellings in the Study Area increased from 3,660 in 1991 to 4,925 in 1996 and then decreased to 4,760 in 2001. In 2001, 4,155 (87 per cent) of these were owned and 630 (13 per cent) rented, which is comparable to the situation in 1996, when 4,245 of 4,925 (86 per cent) were owned and 670 (14 per cent) rented (Statistics Canada, 2001). The dwellings in the Area are mostly single family units, with some duplexes and small apartment buildings in larger towns. The full dataset is provided in Appendix A, Table A-11.

The 2001 average value of dwellings in the Study Area was \$51,694 (Statistics Canada, 2001). The average price of dwellings sold in the Study Area is presented in Section 3.8.2. In recent years, housing prices and appraisals have increased dramatically in the Placentia area; however, prices have declined since the announcement that the VBNC Processing Plant will no longer be located in Argentia (R. Power, F. Smith and J. King, pers. comm.).

The largest amounts of housing are in Placentia, which has 1,620 occupied private dwellings, and Subdivision 1Y (Old Shop, South Dildo, Blaketown), which has 395 (Statistics Canada, 2001).

3.8.2 Activity

The amount of home sales and construction in the Study Area is summarized in Table 3-17. The full data-set is provided in Appendix A. From 2002 through June 2006, there were 40 housing starts in the Study Area. Long Harbour - Fox Harbour, which are combined for CMHC data presentation purposes, had the most starts (17). During the same period, there were 118 housing sales, with an average price of \$41,185. Most sales occurred in Placentia-Argentia (63), followed by Whitbourne (17). Selling prices

in the Study Area averaged \$41,185 and ranged from an average of \$88,333 in Blaketown to \$8,000 in Southern Harbour (CMHC, 2006). Detailed data are provided in Appendix A, Table A-12.

Table 3-17 Housing Activity, Including Construction Starts and Sales, in the Study Area between January 2002 and June 2006

Area/Town	Starts	Sales	Average Price
Arnold's Cove	16	2	\$30,000
Chance Cove	0	2	\$9,500
Norman's Cove	0	2	\$41,000
Southern Harbour	0	1	\$8,000
Chapel Arm	0	1	\$35,000
Fairhaven	0	2	\$37,250
Bellevue	0	10	\$40,375
Sunnyside	0	5	\$26,633
Come By Chance	0	2	\$52,000
Whitbourne	1	17	\$66,300
Blaketown	0	6	\$88,333
South Dildo	0	3	\$53,333
Long Harbour - Fox Harbour	17	2	\$27,800
Placentia - Argentia	6	63	\$61,068
Study Area Total	40	118	
<i>Average Selling Price</i>			\$41,185
Source: CMHC, 2006			

Clarke's Real Estate is the only realtor with an office in Placentia. There are currently approximately 50 homes available for sale in the greater-Placentia area through the local real estate office. Most of them are in Placentia and Dunville, with only a small number located in Long Harbour and Mount Arlington Heights. A small number of the homes for sale are alternatively available for rent. Many of the older heritage and waterfront homes on the market have recently been bought by retirees and non-Canadians (J. King, pers. comm.).

The majority of rentals in the Placentia area are handled privately (J. King, pers. comm.). As of January 2006, there were approximately 65 apartments and houses available for rent in the greater-Placentia area, with another approximately 35 available in the 'near future' (R. Power, pers. comm.).

3.8.3 Low-Income Housing

Newfoundland and Labrador Housing Corporation provides low-income rental housing to households that cannot obtain suitable and affordable rental housing in the private market (Newfoundland and Labrador Housing Corporation, 2007). There are 50 low-income rental units in the Study Area (Table 3-18), with the majority (49 units) located in Placentia. As of January 2007 there were six empty units in the Study Area.

Table 3-18 Low-Income Rental Units in Study Area

Town		# Low-Income Rental Units	# Units Available Jan 2007
Fox Harbour		1	0
Long Harbour and Mount Arlington Heights		0	-
Placentia	Dunville	11	1
	Placentia	31	4
	Jerseyside	7	1
Total		50	6
Source: S. Kilpatrick, pers. comm.			

3.8.4 Residential Land Planning

There are residential construction projects planned and approved for the greater-Placentia area and Whitbourne. Several residential lots have been approved for construction in Dunville. A local developer has applied to the Placentia Town Council for further residential lots in Dunville (J. King, pers. comm.). A developer has recently completed a 40 lot residential subdivision in Whitbourne, and there is a concept plan for an additional 200 residential lots. The Whitbourne Municipal Plan allows for both residential and commercial land use within the town boundaries (J. Gosse, pers. comm.).

The Town of Long Harbour and Mount Arlington Heights will complete a Town Plan by mid-2007. This Plan is expected to set aside land for residential development; however, the precise area and location has not yet been finalized (M. Pretty, pers. comm.).

3.8.5 Temporary Housing

One hundred and twenty-three rooms are available at 18 hotels, bed and breakfasts and cottages in the Study Area (Table 3-19). Placentia contains the highest number of rooms (35) and the second largest hotel, the Harold Hotel (19 rooms). The largest hotel in the Study Area is the Tanker Inn (22 rooms) in Arnold's Cove. The only other large hotel in the Study Area is in the Moorland Hotel in Whitbourne (16 rooms). All temporary accommodations are summarized in Table 3-18. There are also 244 campsites, for both recreational vehicles and tenting, available during the tourist season (May to September). Most (114 campsites) are in Bellevue Beach (Table 3-20).

Table 3-19 Temporary Housing in the Study Area

Location	Hotel Name	# Rooms
Bellevue Beach	Fiddler's Green Resort	9 cottages, 2 suites
Whitbourne	Pretty's Bed and Breakfast	5
	Moorland Hotel	16 (1 Suite)
Bellevue	Connie's Housekeeping Units	4
Old Shop	House by the Bay	2 room house
Placentia	Harold Hotel	19
	Dixon Inn	3
	Oceanview Efficiency Units	4
	LL & D Guest Rooms	4
	Rosedale Manor Bed and Breakfast	5
Dildo	The Ocean Breeze	4
	The Lookout Bed and Breakfast	2
	George House Heritage Bed and Breakfast	4
	Inn by the Bay	6
	Island View Efficiency Cottage	1 cottage, 3 efficiency units
Come By Chance	Walwyn Inn	3
Sunnyside	Saltwater Joys Bed and Breakfast	4
Arnold's Cove	Tanker Inn	22
Total		123

Source: Newfoundland and Labrador Tourism, 2006

Table 3-20 Camping Facilities in the Study Area

Town	Campground	Serviced	Semi-Serviced	Un-Serviced	Notes
Bellevue	Bellevue Beach Park	-	50	64	Open from May 15 to September 24
Chance Cove	Chance Cove Provincial Park	-	-	-	No designated camp grounds but camping is allowed
Arnold's Cove	Putt-N-Paddle Camp Grounds	-	15	75	Open from May to September
Makinsons	Droghedea R.V. Park	40			
Placentia	Fitzgerald Pond Park	24 private camp sites + 26 RV sites			
Total Campsites		284			

Source: Newfoundland and Labrador Tourism, 2006

4.0 Economy, Business, Training and Employment

The following sub-sections describe the economy of the Province and Study Area. An overview of the provincial economy and a sectoral analysis of high profile industries is included, followed by a description of the regional economy, including the main businesses, employment levels, the labour force, skills and education level of residents.

4.1 Provincial Economy

For many years, Newfoundland and Labrador had the slowest growing economy in Canada. This situation was aggravated in the late 1980s to early 1990s, with the closure of the groundfish fishery. The performance of the Newfoundland and Labrador economy today is a dramatic contrast to this situation which prevailed then. This is largely a result of the growth of the offshore oil and gas sector and, more recently, the commencement of mineral production at Voisey's Bay. The impetus of these projects was felt earlier during the construction phase, which began with Hibernia in the early 1990s. The construction activity associated with Hibernia, Terra Nova, White Rose and Voisey's Bay was a period of large capital investments in the provincial economy and a considerable source of employment.

The production from these projects is the primary economic driver in the Province and the reason why the economy of Newfoundland and Labrador is now one of the fastest growing in Canada. This is reflected in Gross Domestic Product (GDP) growth (Table 4-1), which was predicted to grow 6.2 per cent in 2006/07 (Newfoundland and Labrador Department of Finance (NLDF), 2006c), has been revised to a growth of only 3.0 per cent for the 2006/07 (NLDF, 2006b). However, these sectors, mineral production and offshore oil and gas production, are highly capital-intensive activities. As a result, the corresponding growth in employment, while significant, has not kept pace with the level of growth in GDP (Table 4-1) and the unemployment rate in Newfoundland still remains the highest in Canada. However, unemployment in Newfoundland and Labrador has significant regional characteristics. For instance, in the St. John's Census Metropolitan Area (CMA) the unemployment rate (7.4 per cent (three month moving average ending February 2007)) (Statistics Canada, 2007) is comparable to that in the rest of Canada (6.9 per cent), while in rural Newfoundland and Labrador, it is much higher (Table 4-2). This indicates a changing structure in the provincial economy away from rural, labour-intensive, resource-based activities to highly capital-intensive, concentrated, resource-based activities.

Table 4-1 Selected Economic Indicators for Newfoundland and Labrador, 1995 to 2005

Economic Indicators	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005p
Population as of July 1 (000's)	567.4	559.8	551	539.9	533.4	528	522	519.4	518.5	517.3	516
<i>% Change</i>		-1.3	-1.6	-2	-1.2	-1	-1.1	-0.5	-0.2	-0.2	-0.3
GDP at Market Prices (\$000)	10,652	10,417	10,533	11,176	12,184	13,922	14,179	16,452	18,131	19,433	21,534
<i>% Change</i>		-2.2	1.1	6.1	9	14.3	1.8	16	10.2	7.2	10.8
Personal Income (\$000)	10,130	9,972	9,963	10,239	10,651	11,122	11,576	11,895	12,385	12,851	13,350
<i>% Change</i>		-1.6	-0.1	2.8	4	4.4	4.1	2.8	4.1	3.8	3.9
Per Capita Personal Income (\$)	17,853	17,814	18,082	18,965	19,968	21,064	22,176	22,901	23,886	24,842	25,872
<i>% Change</i>		-0.2	1.5	4.9	5.3	5.5	5.3	3.3	4.3	4	4.1
Transfer Payments (\$ million)	-	-	2,470	2,464	2,358	2,358	2,497	2,576	2,628	2,696	2,762
<i>% Change</i>				-0.2	-4.3	0	5.9	3.2	2	2.6	2.4
Labour Force, Annual Average (000s)	237.1	231.7	230.9	234.3	241.9	237.8	242.7	248.5	254.1	254.3	252.5
<i>% Change</i>		-2.3	-0.3	1.5	3.2	-1.7	2.1	2.4	2.3	0.1	-0.7
Employment, Annual Average (000s)	194.4	187.5	188.3	192.4	201	198	203.8	207.2	212.3	214.3	214.1
<i>% Change</i>		-3.5	0.4	2.2	4.5	-1.5	2.9	1.7	2.5	0.9	-0.1
Unemployment Rate, Annual Average (%)	18	19.1	18.4	17.9	16.9	16.7	16.1	16.7	16.5	15.7	15.2
<i>% Change</i>		6.1	-3.7	-2.7	-5.6	-1.2	-3.6	3.7	-1.2	-4.8	-3.2
Consumer Price Index (1997 = 100)	96.5	98	100	100.2	101.7	104.7	105.8	108.4	111.6	113.6	116.5
<i>% Change</i>		1.6	2	0.2	1.5	2.9	1.1	2.5	3	1.8	2.6
Newsprint Shipments (thousands of metric tonnes)	734.7	713.7	740.9	569.8	722.2	807.8	745.8	740.3	780.9	731.7	761.8
<i>% Change</i>		-2.9	3.8	-23.1	26.7	11.9	-7.7	-0.7	5.5	-6.3	4.1
Value of Fish Landings (\$Millions)	329.8	263.9	308.8	384.4	509.3	570.7	487.2	505.4	575.6	606.1	461.3
<i>% Change</i>		-20	17	24.5	32.5	12.1	-14.6	3.7	13.9	5.3	-23.9
Value of Mineral Shipments (\$Millions)	881.5	911.3	1,010.10	1,095.80	821.1	974.2	754.7	797.5	774	694.5	1,532.40
<i>% Change</i>		3.4	10.8	8.5	-25.1	18.6	-22.5	5.7	-2.9	-10.3	120.6
Value of Iron Ore Shipments (\$000)	-	-	919,409	1,026,517	760,482	902,134	691,626	728,909	720,427	624,677	1,286,771
<i>% Change</i>				11.6	-25.9	18.6	-23.3	5.4	-1.2	-13.3	106
Value of Manufacturing Shipments (\$000)	-	-	-	-	183,388	208,646	205,649	211,440	215,320	212,045	195,607
<i>% Change</i>						13.8	-1.4	2.8	1.8	-1.5	-7.8
Oil Production (Millions of Barrels)*	-	-	1.3	23.8	36.4	52.8	54.3	104.3	123	114.8	111.3
<i>% Change</i>				1730.8	52.9	45.1	2.8	92.1	17.9	-6.7	-3
Public and Private Capital Investment (\$Millions)	2,984	2,457	2,788	2,825	3,611	3,399	3,371	3,361	3,712	4,243	4,318
<i>% Change</i>		-17.7	13.5	1.3	27.8	-5.9	-0.8	-0.3	10.4	14.3	1.8
Dwelling Starts (Number)	1,712	2,034	1,696	1,450	1,371	1,459	1,788	2,419	2,692	2,870	2,498
<i>% Change</i>		18.8	-16.6	-14.5	-5.4	6.4	22.5	35.3	11.3	6.6	-13
Retail Trade NAICS (\$Millions)	3,626	3,672	3,957	4,102	4,433	4,760	5,201	5,407	5,736	5,755	5,884
<i>% Change</i>		1.3	7.8	3.7	8.1	7.4	9.3	4	6.1	0.3	2.2
New Motor Vehicle Sales (Number)	17,112	16,199	20,985	21,472	24,421	23,859	24,649	25,790	25,428	22,898	24,899
<i>% Change</i>		-5.3	29.5	2.3	13.7	-2.3	3.3	4.6	-1.4	-9.9	8.7

Source: Newfoundland and Labrador Statistics Agency, 2006b

p = preliminary.

* = Hibernia began production in November 1997, Terra Nova began in January 2002, and White Rose began in November 2005 and Voisey's Bay began in September 2005.

Table 4-2 Unemployment Rates for Canada, Newfoundland and Labrador and Economic Regions of Newfoundland and Labrador, Three Month Moving Average Ending in March 2006.

	Unemployment Rate
Canada	6.9
Newfoundland and Labrador	17.6
Avalon Peninsula	12.7
South Coast – Burin Peninsula	25.8
West Coast – Northern Peninsula – Labrador	19.9
Notre Dame – Central – Bonavista Bay	25.7
Source: Statistics Canada 2007	

The following sub-sections describe several of the most important and high profile sectors in the Province's economy. These include mining, offshore oil and gas production, newsprint, the fishery, tourism and construction.

4.1.1 Mining

The mining industry in Newfoundland and Labrador contributes significantly to the provincial economy, directly accounting for three per cent of GDP and 1.4 per cent of employment. On average, 1,470 people were employed by Voisey's Bay (construction and mining), including at the Argentia Demonstration Plant. The value of mineral shipments increased over 120 per cent in 2005, an increase of \$1.5 billion over 2004 (Table 4-1). This includes 15,000 tonnes of concentrate shipped by VBNC. The total value of this industry is expected to increase sharply in 2006 as the first full year of production is completed at Voisey's Bay (NLDF, 2006c).

4.1.2 Oil and Gas

Offshore oil and gas revenues (Corporate Income Taxes and Royalties) for the provincial government amounted to \$703.1 million in 2006-07 (NLDF, 2006a). In the recent 2006 budget update, the Minister of Finance reported this forecasted amount was down by \$202 million because of the six-month shutdown at the Terra Nova field (NLDF, 2006b). However, offshore oil and gas revenues are now one of the largest and fastest growing revenue sources for the Province, comprising 16 per cent of the GDP in 2005-06. Total direct oil production employment is expected to be 2,500 in 2006, up from 1,700 in 2005 (NLDF, 2006c).

4.1.3 Newsprint

The volume of newsprint shipped out of Newfoundland and Labrador increased by 4.1 per cent in 2005 to over 761,000 tonnes (Table 4-1). Due to globally increased newsprint prices (from US \$550 in 2005 to US \$610 in 2005), the value of Newfoundland and Labrador's newsprint shipments increased 7.5 per cent in 2005 to a value of \$563 million. However, due to the closure of the Stephenville pulp and paper mill in October 2005 it is expected that this industry will see a decline in shipments of 20 per cent, to 610,000 tonnes, in 2006 (NLDF, 2006c).

4.1.4 Fishery

The fishing industry, both harvesting and processing, contributed 3.5 per cent to the provincial GDP and 7.5 per cent to employment in 2005. However, the value of fish landings in 2005 was down more than 20 per cent from 2004. Revenues from the fishery in 2006 are expected to be on par with 2005 due to a late start of the crab season, a soft market for key species including crab, unfavorable exchange rates, and competition from China and Europe. The aquaculture industry showed solid growth in 2005. Export value for aquaculture products increased from \$22 million in 2004 to \$33.5 million in 2005 (NLDF, 2006c).

4.1.5 Tourism

Tourism spending in Newfoundland and Labrador is approximately \$800 million annually, with resident travel within the Province accounting for 60 per cent. Preliminary data show that 469,000 non-residents visited the Province in 2005, spending \$336 million. This is an increase of 4.5 per cent in the number of visitors, and 4.9 per cent in expenditures from 2004. Tourism revenues for 2006 are expected to remain close to 2005 figures. The observed shift in mode of travel, from car to air, partially due to high gasoline prices, will likely continue (NLDF, 2006c).

4.1.6 Construction

In 2005, construction investments rose for the third consecutive year. Investments rose over 10 per cent from 2004 to nearly \$3.2 billion. Construction employment also rose in 2005 for the third consecutive year, up six per cent over 2004 to 12,400 people. This growth follows a 23 per cent increase in construction employment from 2003 to 2004. Investment in this industry is expected to decrease in 2006 by over seven per cent to \$2.9 billion. This is due largely to reductions in non-residential construction, which is forecast to decline by over 10 per cent to \$1.9 billion. This is a result of reductions in mega-project spending (NLDF, 2006c).

4.2 Study Area Economy

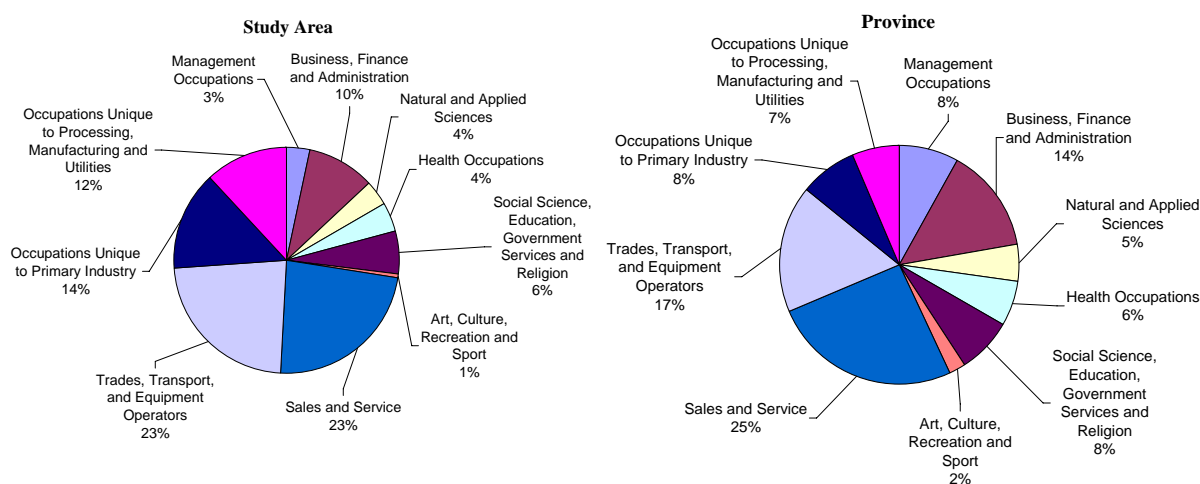
The economy of the Study Area is relatively diversified. The main sources of employment, by industrial sector, are Manufacturing (1,190, 12 per cent), Primary Industry (730), Retail (540, 9.7 per cent), Construction (505, 9.0 per cent) and Health Care and Social Assistance (475, 8.5 per cent). There are few people employed in Informational and Cultural Industries (35, 0.63 per cent), Arts, Entertainment and Recreation (20, 0.34 per cent), or Finance and Insurance (35, 0.63 per cent) (Appendix B, Table B-1). For comparison of per cent of labour force by industry between the Study Area and Province see Table 4-3.

Table 4-3 Per Cent of Labour Force by Industry, Study Area and Newfoundland and Labrador, 2001

	Study Area (%)	Newfoundland and Labrador (%)
Agriculture, Forestry, Fishing and Hunting	13	6.7
Mining and Oil and Gas Extraction	0.98	2.1
Utilities	0.90	0.94
Construction	9.0	6.5
Manufacturing	21	10
Wholesale Trade	1.5	3.1
Retail Trade	9.7	12
Transportation and Warehousing	6.3	5.0
Information and Cultural Industries	0.63	2.0
Finance and Insurance	0.63	2.0
Real Estate, Rental and Leasing	0.72	1.0
Professional, Scientific, and Technical	1.3	3.3
Management of Companies and Enterprises	0	0.06
Administrative and Support, Waste Management and Remediation	3.2	2.86
Educational Services	5.4	7.2
Health Care and Social Assistance	8.5	12
Arts, Entertainment and Recreation	0.34	1.4
Accommodation and Food Services	4.7	6.2
Other Services	6.6	5.6
Public administration	5.1	8.8

Source: Statistics Canada, 2001

The main occupations of Study Area residents are Sales and Service (1,280), Trade, Transport, and Equipment Operation (1,270), Occupations Unique to Primary Industry (775) and Occupations Unique to Processing, Manufacturing, and Utilities (Figure 4-1). A full dataset is provided in Appendix B, Table B-2.

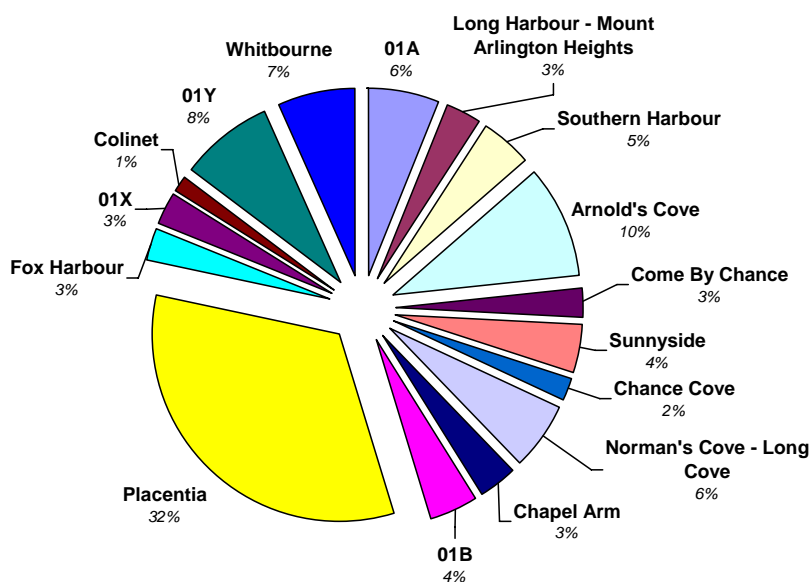
Figure 4-1 Occupations in the Study Area and Province

Source: Statistics Canada, 2001

4.2.1 Labour Force

The labour force (i.e. individuals who have, or are looking for employment) in the Study Area grew from 5,570 in 1991 to 6,405 in 1996, but then declined to 5,740 in 2001. The 2001 Census indicates that the labour force in the Study Area accounted for 44 per cent of the Study Area population. The Study Area contains approximately four per cent of the provincial labour force of 241,495. The labour force by census subdivision is illustrated in Figure 4-2. The largest concentration of workers is in Placentia (1,895), Arnold's Cove (550), Sub-division 01Y (460) which includes Old Shop, South Dildo and Blaketown) and Whitbourne (390). For additional data see Appendix B, Table B-3.

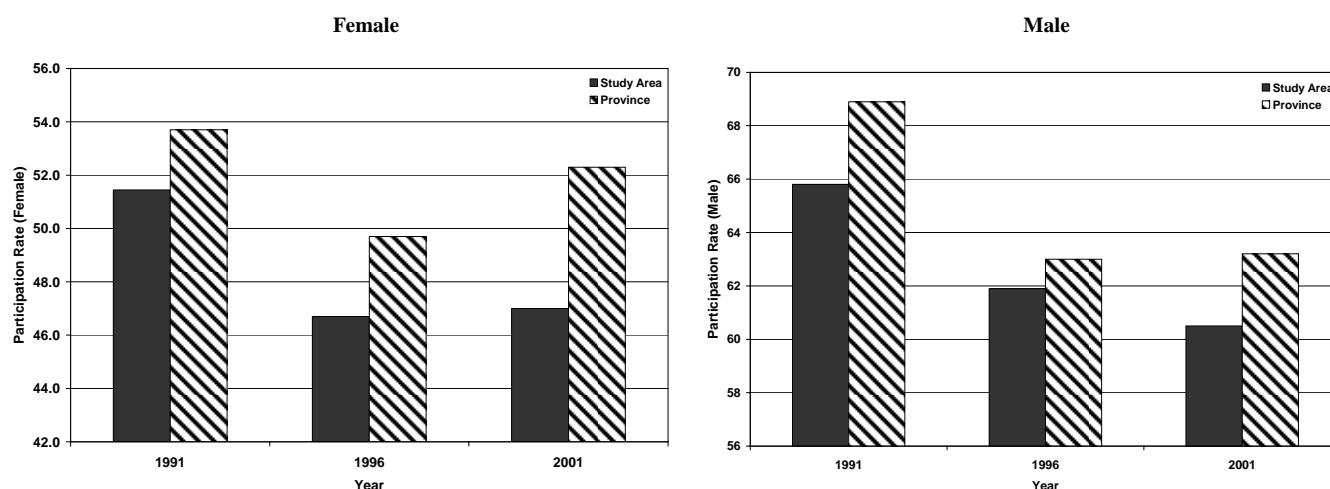
Figure 4-2 Study Area Labour Force by Census Subdivision



Source: Statistics Canada, 2001

The participation rate is the percentage of the work-age population that are presently working or actively looking for employment. The rate for men in the Study Area decreased from 1991 to 2001 (from 65.8 to 60.1 per cent), as illustrated in Figure 4-3. The rate for women decreased from 51.1 per cent in 1991 to 46.7 per cent in 1996 and then increased to 47 per cent in 2001. The Study Area participation rates for both men and women are consistently lower than those for the Province. The provincial participation rate in 2001 was 63.2 per cent for men and 52.3 per cent for women. Within the Study Area, participation rates range from 81.8 per cent for males in Come By Chance to 35.0 per cent for females in Colinet. More detailed participation rates by gender will be utilized in the Women's Employment Plan. The full dataset is provided in Appendix B, Table B-4.

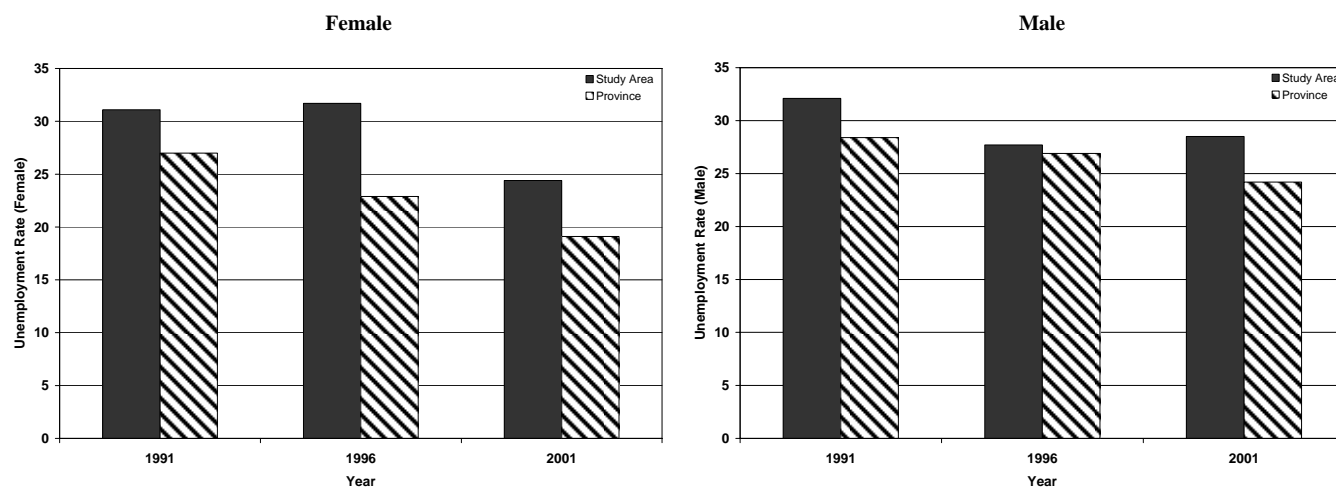
Figure 4-3 Participation Rates for Women and Men in the Study Area and Province



Source: Statistics Canada, 1991; 1996; 2001

The unemployment rate in the Study Area decreased for both men and women between 1991 and 2001, as illustrated in Figure 4-4. The rate for men fell from 32.1 to 28.5 per cent, and that for women from 31.1 to 24.4 per cent. The 2001 unemployment rates are considerably higher than those for the Province as a whole, which in 2001 were 24.2 per cent for men and 19.1 per cent for women. Within the Study Area, however, unemployment ranges from 64.7 per cent for men in Fox Harbour to a low of zero per cent for women in Come By Chance and men in Arnold’s Cove. The full dataset is provided in Appendix B, Table B-5.

Figure 4-4 Unemployment Rates for Women and Men in the Study Area and Province



Source: Statistics Canada, 1991; 1996; 2001

The most recent available Census data are for 2001. However, estimated 2006 employment and unemployment rates can be derived from labour force estimates for the St. John's CMA and Avalon Peninsula Economic Region (Table 4-4). Between 2001 and 2006, the employment rate in the non-CMA part of the Avalon grew by 1.4 percentage points, an increase of approximately 1,500 individuals.

The unemployment rate has continued to decrease since 2001, down to 21.2 from 22.9 per cent in the non-CMA Avalon area (Table 4-4).

Table 4-4 Labour Force Characteristics, St. John's CMA and Avalon Peninsula Economic Area, 2001 and 2006

Area	Labour Force (000s)		Employed (000s)		Unemployed (000s)		Unemployment Rate (%)		Employment Rate (%)	
	2001	2006 (est)	2001	2006 (est)	2001	2006 (est)	2001	2006 (est)	2001	2006 (est)
Avalon Peninsula Economic Area	123.4	132.2	108.1	117.5	15.4	14.7	12.5	11.1	87.6	88.9
St. John's CMA	94.2	101.6	85.5	93.4	8.7	8.2	9.2	8.1	90.8	91.9
Rural Avalon	29.2	30.6	22.6	24.1	6.7	6.5	22.9	21.2	77.4	78.8

Source: NLDF, 2007

Since the start of 2006, the provincial employment rate has grown four per cent, an increase of approximately 9,000 individuals as an average monthly basis. Full-time employment has increased by six per cent since the start of 2006. Healthcare, income support, educational services and natural resources were strong contributors to this growth (Statistics Canada, 2006b). Data for 2006 are not yet available specifically for the Study Area.

The average personal income in the Study Area was \$21,553 in 2001, slightly below the provincial average (\$22,662) (Statistics Canada, 2001). This is an increase of nearly \$10,000 for both men and women, since the mid-1980s (Table 4-5). Personal income in the Study Area has been consistently on par with the Province (Appendix B, Table B-6).

Table 4-5 Average Personal Income, by Gender, in the Study Area and Province

Census Area	Male (\$)		Female (\$)	
	1986	2001	1986	2001
01A	12,588	31,641	7,659	12,808
Long Harbour - Mount Arlington Heights	19,299	35,935	7,883	16,374
Southern Harbour	14,129	31,421	7,843	16,102
Arnold's Cove	16,031	30,331	7,950	16,379
Come By Chance	15,835	42,183	9,551	14,379
Sunnyside	17,363	27,327	8,745	13,604
Chance Cove	14,137	22,227	9,418	11,306
Norman's Cove - Long Cove	17,452	28,250	7,707	12,900
Chapel Arm	19,071	25,870	6,878	14,688
01B	13,836	38,192	9,036	15,454
Placentia	14,965	25,459	9,508	13,873
Dunville	19,279	-	10,166	-
Freshwater	13,620	-	8,208	-
Jerseyside	13,507	-	10,127	-
Fox Harbour	15,095	20,429	6,782	13,597
01X	13,217	19,835	4,618	19,259
Colinet	14,607	-	11,391	-
01Y	17,199	24,844	6,599	13,498
Whitbourne	15,308	23,923	7,098	14,527
Study Area Total	15,775	28,524	8,306	14,583
Province	17,582	28,144	9,876	17,181

Source: Statistics Canada, 1986; 2001

4.2.2 Income Support and Employment Insurance

The number of individuals receiving income support and EI benefits has decreased in both the Region and the Province. A summary of the data is provided in Table 4-6; the full data set is available in Appendix B, Table B-7.

Table 4-6 Use of Income Support Assistance and Employment Insurance 1992 and 2003 in the Region and Province

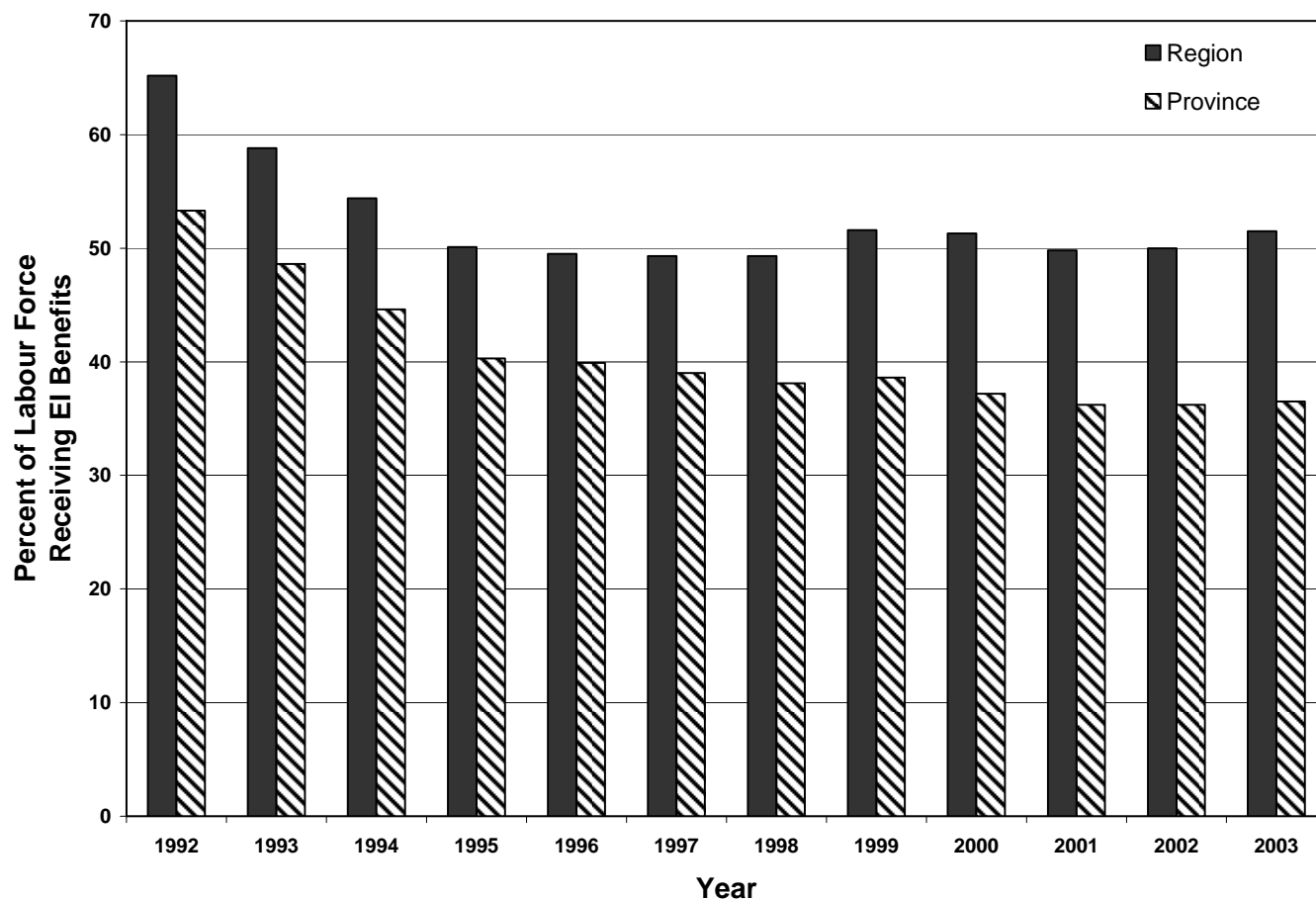
	1992		2003		% Change	
	Region	Province	Region	Province	Region	Province
Income Support Assistance (Individuals)	16,825	101,105	10,265	65,875	- 39%	- 35%
Incidence of Income Support Assistance (% of Population)	18.3%	17.6%	12.6%	12.8%	- 31%	- 27%
EI Beneficiaries (Individuals)	29,130	154,235	20,760	101,020	- 29%	- 35%
EI Beneficiaries as % of Labour Force	65.2%	53.3%	51.5%	36.5%	- 21%	- 32%
Source: Newfoundland and Labrador Statistics Agency/Community Accounts, 2006						

The number of income support recipients in the Region declined by 39 per cent between 1992 and 2003. In 2003, income support cases were at an 11-year low, having peaked at 16,835 in 1995. The number of cases in the Province as a whole decreased by 35 per cent over the same period, from 101,105 to 65,875 (Table 4-6).

The per cent of the population using income support has also declined in the Region and the Province. The income support incidence in the Region decreased from 18.3 per cent in 1992 to 11.9 per cent in 2003, a decrease of 31 per cent, and from 17.6 to 12.8 per cent (a decrease of 27.3 per cent) in the Province over the same period (Table 4-6).

The number of EI beneficiaries in the Region decreased by 29 per cent between 1992 and 2003. Over the same period, the number of beneficiaries in the Province decreased by 35 per cent (Table 4-6). Although EI beneficiaries decreased in the mid-1990s and have since remained fairly stable in both the Region and Province, the per cent of population in the Region receiving EI has been consistently higher than that for the Province (Figure 4-5); in 2003, 51.5 per cent of the Region's labour force received EI, versus 36.5 per cent in the Province as a whole (Appendix B, Table B-8).

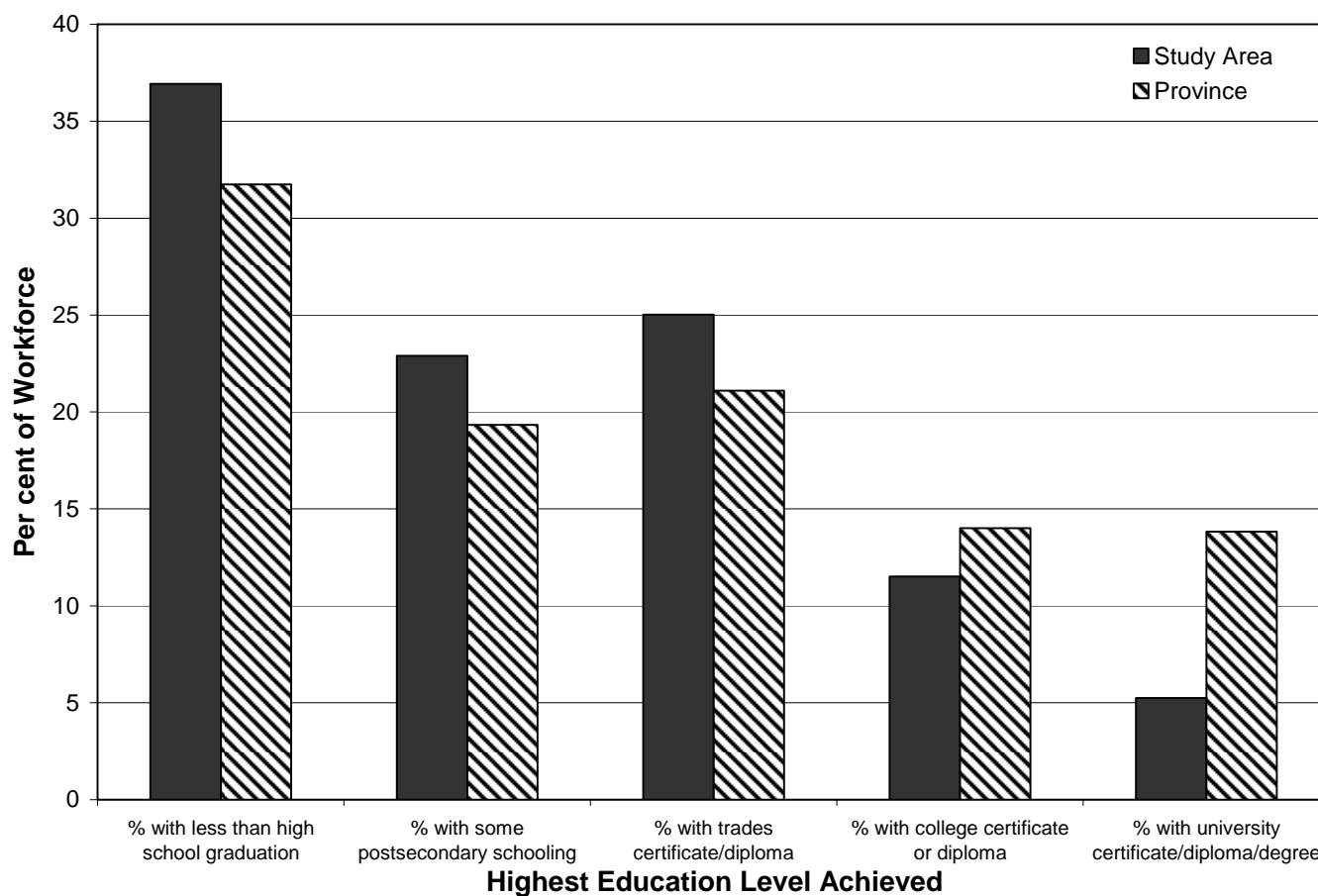
Figure 4-5 Percent of the Labour Force Receiving Employment Insurance (EI) Benefits, Region and Province, 1992 to 2003



Source: Newfoundland and Labrador Statistics Agency/Community Accounts, 2006.

4.2.3 Education

The highest level of education achieved by the workforce, ages 20 to 64, in the Study Area and Province in 2001 is summarized in Figure 4-6. Approximately 25 per cent of the workforce has completed a trades certificate/diploma and approximately 12 per cent have completed a college certificate/diploma (Statistics Canada, 2001). More than half of the workforce in the Study Area has not completed a post-secondary qualification, and almost half of those over the age of 35 have not completed high school (Statistics Canada, 2001). The full dataset is provided in Appendix B, Tables B-9, B-10 and B-11.

Figure 4-6 Highest Education Achieved by Workforce, Study Area and Province

Source: Statistics Canada, 2001

The AACC created the Hydromet Participation Initiative (HPI), formerly Opportunity Argentina, as a multi-component program designed to identify and enhance participation of regional and provincial businesses in aspects of the VBNC Processing Plant and maximize benefits to local non-profit organizations and residents (AACC, 2006a; C. Newhook, pers. comm.). A skills/qualifications database of local area residents is maintained by the HPI, a subset of the Avalon West Community Business Development Corporation. Submissions to HPI are voluntary and are periodically updated. The purpose of this database is to maintain an inventory of local skillsets in anticipation of the Project (C. Newhook, pers. comm.).

4.2.4 Main Businesses

The main businesses and employers in Long Harbour and Mount Arlington Heights, Whitbourne and Placentia, as reported by municipal officials, are summarized in Table 4-7.

Table 4-7 Main Businesses and Employers in Long Harbour and Mount Arlington Heights, Whitbourne and Placentia.

Long Harbour and Mount Arlington Heights (M. Pretty, pers. comm.)	Whitbourne (J. Gosse, pers. comm.)	Placentia (E. O'Keefe, R. Power and F. Smith, pers. comm.)
<ul style="list-style-type: none"> • Town Council Office • Long Harbour Development Corporation • Labco Foundry • Newco Metals • Canada Post • Maher's Industrial • St. Francis Xavier Parish • Additional businesses operating in the town include Magtek, Murphy's Cash and Carry, JFT Enterprises, Burke's Convenience, Hair Magic, L-Mariedo and Gambin's Services 	<ul style="list-style-type: none"> • Eastern Health • Newfoundland and Labrador Youth Centre • Dr. Newhook Community Health Care Centre • Foodland • Trinity Placentia Stadium • Whitbourne Elementary School • Whitbourne Dental Clinic • Whitbourne Drug Mar; • Department of Forestry and Wildlife • Moorlands Motel-Gas Bar and Restaurant • Monty's Place-Gas Bar and Restaurant • Irving • Scotiabank • Payless Foods • Cohens Home Furniture • Smith Furniture • Stedman's V&S • Baine Johnston Insurance • Temples Account and Anthony Insurance • Jobs Insurance • Investor Group • RCMP • Town Council Office • Aliant • Newfoundland Power • Rodrigues Winery • Greenhouses & plant nurseries 	<ul style="list-style-type: none"> • <i>Total Number of Businesses – 166¹</i> • Sales and Services - 54 • Restaurants and Bars - 11 • Tourism and Recreation (including Accommodations) - 13 • Healthcare and Health Services - 8 • Automotive and Transportation - 15 • Education and Childcare - 5 • Construction and Contracting - 21 • Banks and Financial Services - 6 • Government Departments and Management Boards - 3 • Other - 30
¹ A full listing of businesses for the Town of Placentia is provided in Appendix B, Table B-12		

The HPI, sponsored by ACOA, VBNC, the provincial government, Service Canada and the AACC (AACC, 2006b) has formed four committees to oversee specific aspects of the HPI: a Public Communications Committee, a Supply Opportunities Committee, a Capacity Development Committee and a Skills Development Committee (AACC, 2006a).

The HPI has also developed a Bridging Strategy Support Program to offer advice and financial assistance (\$75,000 for each of the next two years) to local firms to enable them to pursue upcoming contracts and opportunities. This includes assistance to cover costs related to training, productivity/quality improvement, business consultant support, legal and other costs associated with forming a partnership or joint venture, marketing, and supplier development. Capital costs will not be supplemented by the Program. Firms may apply for up to 75 per cent of eligible costs (AACC, 2006b).

5.0 Recreational Activities

The following sub-sections describe recreational activities and non-commercial natural resource use in the Study Area and Region. This includes hunting, angling, berry picking, cabins, boating, hiking and tourism attractions.

5.1 Recreational Natural Resource Use

The following describes non-commercial natural resource use within the Study Area and Region, including hunting, angling and berry picking.

5.1.1 Hunting

Hunting in the Region includes both large and small game. Large game includes moose, caribou and black bear. Small game includes ptarmigan, grouse and snowshoe hare, although grouse is not hunted in the Region.

5.1.1.1 Large Game

Moose and caribou are hunted in the Study Area. For large game, hunting license applicants are pooled and names of recipients are drawn by a computer. Applicants are permitted to state a preference for hunting areas, and efforts are made to ensure that hunters who are successful receive a license for an area near their community of residence if requested (W. Barney, pers. comm.). The hunting season for moose and caribou is between September and December. Licenses for the island portion of the Province typically limit retention to a single animal. Licenses issued and changes from the 2004/05 hunting season in the Study Area are summarized in Table 5-1.

Table 5-1 Large Game Hunting Licenses Issued in the Region

Species	# of Licenses Issues for 2006 Season	Change in # of Licenses Issued from 2004/05 Season
Moose	1,600	+ 100
Caribou	225	0
Black Bear	126*	0
Source: NLDEC, 2006a *W. Barney, pers. comm.		

For the 2006/2007 hunting season, 1,600 moose licenses were issued by the NLDEC in the Study Area. These licenses were issued for the Bellevue (Area 44), Placentia (Area 31), Cape Shore (Area 32) and Salmonier (Area 33) Moose Management Areas. This is a net change of 100 licenses from the number issued during the 2004 hunting season (NLDEC, 2006a).

The only Caribou Management Area in or around the Study Area is Area 77, the Cape Shore. A total of 200 caribou licenses are issued for this area. There are also 25 caribou licenses issued for Merasheen Island, in Placentia Bay, for a limited two-week period in September (NLDEC, 2006a).

Black Bear Management Areas are geographically the same as Moose Management Areas and are open annually between May and July. No black bear hunting is permitted within the Region; however,

hunting is permitted to the north of the Region, near Swift Current (Black River, Area 28). There are 126 licenses issued for the 2006/2007 hunting season. These licenses have a limit of two bears of either sex (NLDEC, 2006a).

Details on the numbers of licenses per area for moose, caribou and black bear can be found in Appendix C.

5.1.1.2 Small Game

The Region is a popular hunting area for ptarmigan and hare. However, the numbers of hunters could not be quantified as licenses for small game permit hunting in all open areas of the Province (W. Barney, pers. comm.).

5.1.2 Angling

Recreational angling for salmon is managed by Salmon Fishing Areas (SFAs) and statistics are collected for each SFA and most rivers by DFO. The Study Area includes rivers from SFA 10 (all those rivers emptying into Placentia and St. Mary's Bays) and SFA 6 (all those rivers emptying into Trinity Bay). Salmon stocks are managed by DFO through the issuing licenses to anglers, classifying rivers and restricting the numbers of fish retained.

In 2004, 15,657 salmon fishing licenses were sold in the Province (N. Cochrane, pers. comm.). After obtaining a license, an angler is permitted to fish in any part of the Province. SFA 10 is much more popular than SFA 6, with approximately 11 times as many rods on the rivers and 60 times as many fish caught (Table 5-2). Within the Study Area, there are four salmon rivers: (1) Bellevue River, (2) Northeast River (Placentia), (3) Southeast River (Placentia) and tributaries, and (4) Great Barasway. Southeast River and its tributary rivers are the most popular and productive rivers in SFA 10 (DFO, 2006). The rivers in the Study Area are all Class Three rivers, meaning that a single angler may catch a maximum of two fish per day (catch and release), and retain a maximum of two fish per year (DFO, 2006).

Table 5-2 Number of Rods and Salmon Caught, Released and Retained, by Salmon Fishing Area and Salmon Rivers in the Study Area in 2005

SFA/River	Approximate # of Rods	Approximate # of Fish Caught
SFA 6	343	16
Bellevue River	23	2
SFA 10	3,942	1,003
Northeast River (Placentia)	448	122
Southeast River (Placentia) + Tributaries	1,041	143
Great Barasway	8	2
Source: DFO, 2006		

Residents of Newfoundland and Labrador do not require a license to fish for trout (DFO, 2006). In Newfoundland, trouting has one of the highest, if not the highest, resident participation rates in Canada (B. Buchanan, pers. comm.).

5.1.3 Berry Picking

Berry picking is a common late summer and early fall activity throughout the Province. Residents of the greater-Placentia area usually pick berries along both sides of the Long Harbour Road turn-off, near Fitzgerald's Pond Park and on the Backlands near Argentia (R. Power and F. Smith, pers. comm.). Residents of Whitbourne pick berries along the old rail bed and near the neighbouring community of Markland (J. Gosse, pers. comm.).

5.1.4 Domestic Wood Harvesting

The management of domestic wood harvesting in the Study Area, which is part of Forest Management District 1, occurs through a multi-stakeholder process headed by the provincial Department of Natural Resources, Avalon District. Most of the Study Area falls into Sub-management Unit H, the Western Cape Shore, with areas H-1D through H-10D nearest to the towns of Long Harbour and Mount Arlington Heights (Department of Natural Resources 2002).

Domestic wood harvesting permits for the Study Area are issued by Department of Natural Resources offices at Paddy's Pond (St. John's) and Whitbourne. Permits for Sub-management Unit H are distributed in the Fall of each year. Individuals requesting a permit for Sub-management Unit H are granted a permit valid for a three month period and allowed to cut a maximum 11 m³ of wood (five cords) in the Area specified on their permit. Demand for permits in Unit H has never been so great that an individual has been refused a permit in their requested area (B. Tucker, pers. comm.). In the five year period from 2002 and 2007, a total of 137 permits were issued for Unit H (Table 5-3).

Table 5-3 Average Domestic Wood Harvesting Permits Issued Annually, Sub-management Unit H (Western Cape Shore), 2002 to 2007

Domestic Harvesting Area	Local Name	Average Number of Permits per Year (2002 to 2007)
H-0	Road-side cutting throughout Unit H	4
H-1D	Long Harbour	1
H-2D	Seven Islands	2
H-3D	Ship Harbour	10
H-4D	Ship Harbour Brook	7
H-5D	Rattling Brook	9
H-6D	Villa Marie	20
H-7D	Argentia Access	12
H-8D	Northeast Arm	7
H-9D	Southeast Placentia	20
H-10D	Point Verde	6
H-11D	Little Barasway	0 (1 permit issued between 2002 and 2007)
H-12D	Great Barasway	4
H-13D	Cuslett	27
H-14D	Gooseberry Cove	3
H-15D	Patrick's Cove	3
H-16D	St. Brides	2
Total		137

Source: B. Tucker, pers. comm.

5.2 Remote Cabins and Cottages

There are 1,150 licensed remote cabins (188) and cottages (962) in the Region. Remote cabin owners are not required to conduct a survey of their land and must re-apply for a license every five years. Cottage owners must pay to conduct a survey; however, once a permit is issued they own the land as a freehold. Permits are issued by Crown Lands, a division of NLDEC (J. Freake, pers. comm.).

In the Region, most cottages are found in the Ocean Pond area. Other popular locations are Bellevue, Western Gull Pond and Whitbourne. However, owners of these cabins are from all around the Avalon Peninsula, not only the Region (J. Freake, pers. comm.).

There is no database of illegal remote cabins on crown land. When illegal cabins are located by Lands Management Officers, owners are given a notice to apply for a remote cabin permit. If they do not apply or if the application must be refused, the cabin is scheduled for removal (J. Freake, pers. comm.).

5.3 Boating

There are recreational boating opportunities in the communities near the Project site. Two companies offer sea kayaking tours and rentals in Placentia. The Town of Placentia also owns and operates several rowing shells and holds an annual Regatta, drawing teams from St. John's, Harbour Grace and Corner Brook. Wharves in Dunville, Jerseyside and Placentia offer berths to recreational sail and power boats (R. Power and F. Smith, pers. comm.).

5.4 Sport

Recreation facilities owned and maintained by Long Harbour and Mount Arlington Heights, Placentia, and Whitbourne are listed in Table 5-4. The Unity PARC Arena at Placentia is a large multi-purpose sports complex, which has indoor facilities for hockey, skating and curling. Most communities in the Study Area have ballfields and soccer fields. The ballfield in Dunville was built to national standards and regularly hosts provincial tournaments (R. Power and F. Smith, pers. comm.).

Table 5-4 Recreation Facilities in Long Harbour and Mount Arlington Heights, Whitbourne and Placentia

Long Harbour and Mount Arlington Heights (M. Pretty, pers. comm.)	Whitbourne (J. Gosse, pers. comm.)	Placentia (R. Power and F. Smith, pers. comm.)
<ul style="list-style-type: none"> • Tennis court • Playground • Ballfield 	<ul style="list-style-type: none"> • Playground • Soccer field • Ballfield • Skateboard park • Historic Bond Park • Trinity Placentia Stadium 	<ul style="list-style-type: none"> • Arena • Walking trails • Regatta grounds and equipment • Two ballfields • Soccer field • Tennis courts

VBNC has donated funds to the Town of Placentia for upgrading of the outdoor lighting at the Dunville ballfield and construction of recreation facilities at the planned new high school (NLDNR, 2006).

Less structured recreational opportunities include fishing (for salmon and trout in rivers and ponds, see Section 5.1.2, and primarily cod in marine environments), hiking, and hunting (see Section 5.1.1).

Hiking trails, some of which are equipped with picnic areas and lookouts, are used by walkers, bicyclists and cross-country skiers (see Section 5.5) and kayaking is pursued in coastal areas and interior waters.

5.5 Hiking

Six hiking trails in the Study Area are listed in the Newfoundland Tourism Guide (2006) (Table 5-5), none of them in the immediate area of the Project. These are used by both residents and tourists for walking, cycling, cross country skiing and snowshoeing.

Table 5-5 Hiking Trails in the Study Area

Trail Name	Location
Bordeaux Walking Trail	Arnold's Cove
Ocean View Walking Trail	Norman's Cove - Long Cove
Green Mountain Walking Trail	Norman's Cove - Long Cove
The Argientia Backland Trail	Argientia
Centre Hill Trail	Sunnyside
Crout's Way Hiking Trail	Makinsons
Castle Hill Hiking Trail	Placentia
Town of Placentia Trail	Placentia

Source: Newfoundland and Labrador Tourism, 2006

In addition to the trails listed in Table 5-5, residents of Placentia and Whitbourne often use the old railbed as a walking trail (R. Power and F. Short, pers. comm.; J. Gosse, pers. comm.). Residents of Whitbourne and tourists also use the Wetlands Conservation Walking Trail, located off the old railbed, and the Sir Robert Bond Park Trail (J. Gosse, pers. comm.).

5.6 Natural, Cultural and Historic Tourism Attractions

The following sub-sections describe the tourist attractions in the Study Area and Region. These include Provincial Parks, a National Historic Site, several museums and archaeological sites.

5.6.1 Parks

There are two Provincial Park Reserves, one Provincial Park and one Natural and Scenic Attraction in the Study Area.

Fitzgerald's Pond Provincial Park Reserve, located 15 km from Dunville, is a conservation site for protection of the boreal felt lichen. Public use of the Reserve is not permitted (NLDEC, 2006b). There are two additional Provincial Park Reserves in the Region: Jack's Pond and Bellevue Beach (NLDEC, 2006b).

Chance Cove Provincial Park permits camping in its parking lot and picnic area (see Table 3-20) and provides pit toilets and drinking water to visitors. In addition, there is one Provincial Park in the Region: Gooseberry Cove Provincial Park, located south of Placentia, which permits day use between June and September (NLDEC, 2006b).

Cataracts Provincial Park, located to the southeast of Placentia, is a Natural and Scenic Attraction Provincial Park. The main attraction in the Park is a deep river gorge with two waterfalls, attracting photographers. It is available for day use only (NLDEC, 2006b).

There are two Ecological Reserves in the Region, designated due to the presence of internationally important numbers of seabirds: Cape St. Mary's Ecological Reserve and Baccalieu Island Ecological Reserve (NLDEC, 2006b). In addition to the ecological reserves there is Rocky River Salmon Ladder and Holding Pool in Colinet with a salmon ladder and visitor interpretation centre (Newfoundland and Labrador Tourism, 2006).

There are two private parks in the Study Area: Bellevue Beach Park, a trailer park with serviced and un-serviced lots, cabins for rent, swimming and a playground, and Fitzgerald Pond Park with campgrounds and RV facilities (Newfoundland and Labrador Tourism, 2006). There is also a history of indiscriminate and uncontrolled camping in gravel pits and other sites along highways in this and other regions of the Province, some of it associated with construction projects. Only very limited anecdotal information is available on the scope and scale of such activity.

5.6.2 Cultural and Historic Attractions

There is one National Historic Site in the Study Area: Castle Hill, located near Placentia. It is open from May through October (Parks Canada, 2006). There are also several museums, archaeological sites and historic buildings in the Study Area (Table 5-6).

Table 5-6 Cultural and Historic Attractions in the Study Area

Attraction	Location	Open Season
Museums		
Whitbourne Heritage Museum	Whitbourne	July 1-Labour Day
Railroaders' Memorial	Whitbourne	All Year
South Dildo Whaling and Sealing Museum	South Dildo	
The O'Rielly House Museum	Placentia	
The International Museum of the Atlantic Allies	Argentia	
Drogheda Historical Farmhouse	Makinsons	May-Sept.
Sunnyside Museum	Sunnyside	Summer
Archaeological Sites		
Blaketown Beothuk Site	Blaketown	July 1-Aug. 31
Placentia Uncovered Archaeology Project	Placentia	June-September
Dildo Island Dorset Site	Dildo	June 1-Sept. 30
Source: Newfoundland and Labrador Tourism, 2006		

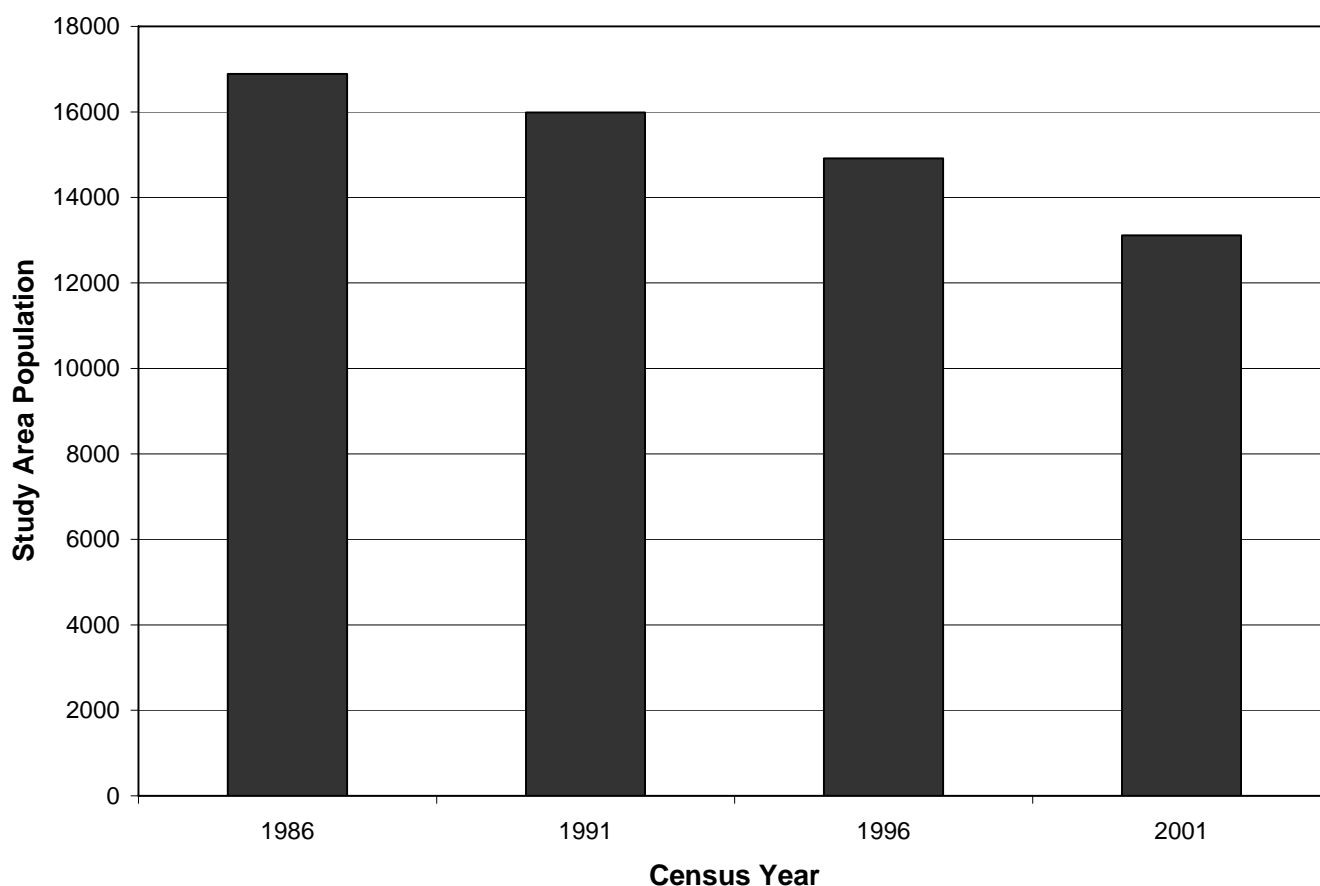
6.0 Demography

The following sub-sections describe the demography, or population characteristics, of the Study Area and Region including population levels and age of residents, family types and visible minorities.

6.1 Total Population

The population of the Study Area fell from 16,892 in 1986 to 15,986 in 1991 (a decline of 5.4 per cent), further decreasing to 14,915 in 1996 (a fall of 6.7 per cent) and 13,116 in 2001 (a fall of 12.1 per cent) (Figure 6-1). The population in the Study Area showed a greater decline between 1986 and 2001 (22.4 per cent decline) than the Province as a whole (declining 9.8 per cent). The full population dataset for the Study Area is provided in Appendix D, Table D-1.

Figure 6-1 Population of Study Area, 1986 to 2001



Source: Statistics Canada, 1986; 1991; 1996; 2001

6.2 Migration

Out-migration has been a characteristic of Newfoundland and Labrador's labour market for many years. Historically, it has been compensated by natural population growth (high birth rate). However, in recent

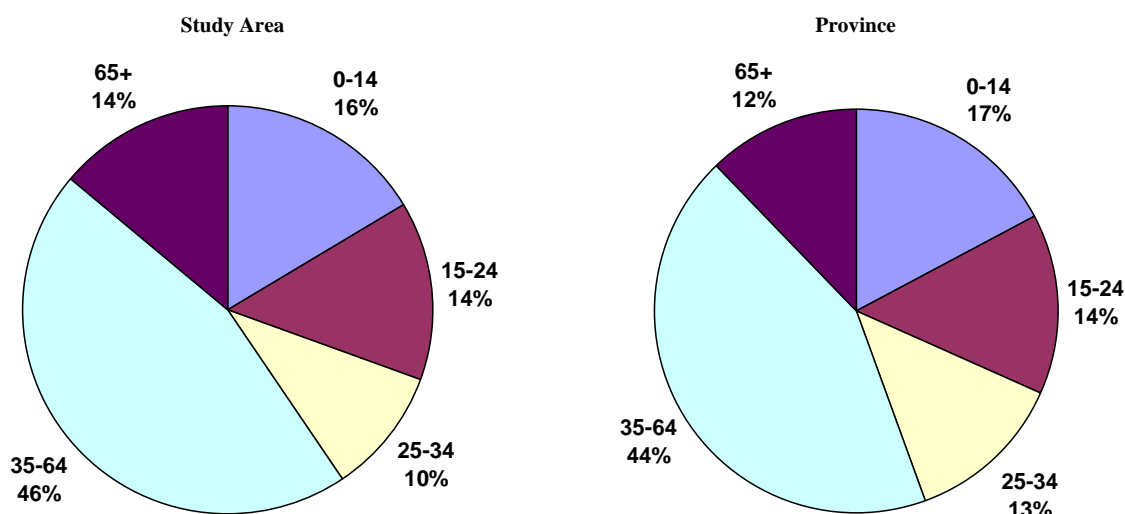
years this has no longer been the case as the Province has begun to experience natural population decline, with deaths exceeding births (Department of Human Resources, Labour and Employment, 2007a).

Most out-migrants are drawn to employment opportunities outside of the Province, particularly in Ontario and Alberta. In 2001, more than 70,000 people from Newfoundland and Labrador were living in different communities from those they were in in 1996. Of these, approximately 65 per cent had left the Province. Although young workers are generally more likely than older workers to move away from their home communities, between the late 1990s and 2003 the migration amongst older workers (45 to 64 years) steadily increased while that of youth decreased. However, since 2003 there has been a sharp increase in overall migration (both in and out) among all age groups. From 2002 to 2006, youth (15 to 29 years) accounted for 88 per cent of net out-migration of working age people (Department of Human Resources, Labour and Employment, 2007a). Although net out-migration increased slightly in 2005 and 2006, levels are still well below those observed in the mid-1990s (Department of Human Resources, Labour and Employment, 2007b).

The education level of migrants has also increased since 1986. Between 1986 and 1991, and 1996 and 2001, the proportion of net out-migrants with post-secondary education increased from 42 per cent to 56 per cent. The top occupations for out-migrants from the Province includes sales and service occupations (13.2 per cent), secretarial and clerical (12.2 per cent), processing and manufacturing (non-fishery related) (8.1 per cent), equipment operators and labourers (8.0 per cent), and other trade, transport and equipment operations (5.7 per cent) (Department of Human Resources, Labour and Employment, 2007a).

6.3 Age

The age distribution of Study Area and provincial residents is shown in Figure 6-2. In 2001, there were 2,150 people in the Study Area under the age of 14; 9,190 between the ages of 15 and 64; and 1,810 over the age of 65. In the Province, there were 88,770 under 14; 361,105 between 15 and 64; and 63,050 65 years of age and over. See Appendix D, Table D-2 for the full dataset.

Figure 6-2 Age Distribution, Study Area and Province, 2001

Source: Statistics Canada, 2001

The dependency ratio is a tool used to measure the ratio of a population which is composed of dependants, those who are too old or too young to work, to the number or working age. It is calculated as the number of individuals under the age of 15 and over the age of 65, divided by the number of individuals between the ages of 16 and 64. A rising dependency ratio is common in areas with an aging population. In 2001, the highest dependency ratio in the Study Area was in Placentia (48 per cent) (Table 6-1). The lowest dependency ratio in the Study Area was in Chance Cove (28 per cent). The dependency ratio for the Study Area as a whole was not significantly higher than that of the Province.

Table 6-1 Dependency Ratios, Study Area and Province, 2001

Census Area	Dependency Ratio (%)
01A	41
Long Harbour - Mount Arlington Heights	41
Southern Harbour	36
Arnold's Cove	42
Come By Chance	38
Sunnyside	36
Chance Cove	28
Norman's Cove - Long Cove	44
Chapel Arm	42
01B	44
Placentia	48
Fox Harbour	46
01X	42
Colinet	36
01Y	39
Whitbourne	45
Study Area Total	43
Province	42

Source: Statistics Canada, 2001

Between 1993 and 2001, 7,020 children were born to women living in the Region, and 6,685 of its residents died, giving a natural population increase of 335. However, the number of deaths has exceeded

the number of births since 1997, with 3,515 births and 3,780 deaths (for a natural population decrease of 265) in the 1997 to 2001 period. The net natural population growth over the 1993 to 2001 period has been off-set and exceeded by net out-migration, which accounts for the decrease in population (Appendix D, Tables D-4 and D-5).

6.4 Families

The number of Census Families in the Study Area decreased from 4,095 in 1996 to 3,960 in 2001. The number of Private Households also fell over the 1996 to 2001 period, from 4,905 to 4,705. This is consistent with the shrinking population and suggestive of declining housing and other requirements. (Appendix D, Table D-3).

In 2001, single-parent families comprised 14 per cent of all families in the Study Area, up from 10 per cent in 1996. The number of single parent families in the Study Area decreased by 10 in the 10-year period between 1986 and 1996 (Table 6-2). The number increased by 115 in the five-year period between 1996 and 2001, while the total number of families (as defined by the Census) fell by 135. In all census years, the majority of single-parent families were headed by females and resided in Placentia (Statistics Canada 1986, 1996, 2001). See Appendix D, Table D-6, for a full data set.

Table 6-2 Single Parent Families, by Gender, Study Area and Province

	Male			Female		
	1986	1996	2001	1986	1996	2001
Study Area	100	105	60	335	340	455
Province	3,190	3,245	4,115	12,640	17,235	18,935

Source: Statistics Canada, 1986; 2001

6.5 Visible Minorities

Both the Province and Study Area are not ethnically diverse. In 2001, visible minorities comprised only 0.4 per cent of the Study Area population (Table 6-3). Within the Study Area, these individuals lived only in Placentia (Statistics Canada, 2001). See Appendix D, Table D-7 for a full data set.

Table 6-3 Visible Minorities, Study Area and Province, 2001

	Visible Minority Population	Total Population	Percent of Population
Study Area	50	13,116	0.4%
Province	3,855	512,930	0.8%

Source: Statistics Canada, 2001

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APPENDIX A

Services and Infrastructure Data Tables

Table A-1 Number of Teachers, Students and Student/Teacher Ratios, Region, 1990 to 2005

Economic Zone	Number of Teachers														
	90-91	91-92	92-93	93-94	94-95	95-96	96-97	97-98	98-99	99-00	00-01	01-02	02-03	03-04	04-05
15	456.0	461.8	455.8	444	431.8	428.4	411.0	387.1	377.5	369.7	343.6	339.9	321.9	316.0	302.8
17	618.0	600.5	603.7	593.0	588.0	554.0	541.7	523.5	494.7	484.6	495.1	501.9	471.0	467.4	443.8
18	155.3	154.8	150.0	143.9	138.0	134.0	126.8	114.5	113.1	108.0	109.3	109.3	106.3	96.5	92.3
Region Total	1,229.3	1,217.1	1,209.5	1,180.9	1,157.8	1,116.4	1,079.5	1,025.1	985.3	962.3	948.0	951.1	899.2	879.9	838.9

Source: Newfoundland and Labrador Statistics Agency/Community Accounts, 2006

Economic Zone	Number of Students														
	90-91	91-92	92-93	93-94	94-95	95-96	96-97	97-98	98-99	99-00	00-01	01-02	02-03	03-04	04-05
15	7,610	7,427	7,255	7,083	6,837	6,476	6,066	5,703	5,393	5,194	4,650	4,421	4,264	4,144	3,970
17	10,342	10,110	9,867	9,644	9,226	8,895	8,483	8,212	7,831	7,562	7,515	7,244	7,000	6,753	6,576
18	2,418	2,366	2,321	2,255	2,167	2,076	1,989	1,816	1,707	1,614	1,558	1,465	1,395	1,282	1,178
Region Total	20,370	19,903	19,443	18,982	18,230	17,447	16,538	15,731	14,931	14,370	13,723	13,130	12,659	12,179	11,724

Source: Newfoundland and Labrador Statistics Agency/Community Accounts, 2006

Economic Zone	Student/Teacher Ratio														
	90-91	91-92	92-93	93-94	94-95	95-96	96-97	97-98	98-99	99-00	00-01	01-02	02-03	03-04	04-05
15	16.2	15.6	15.5	15.5	15.1	14.7	14.3	14.3	13.9	13.6	13.1	12.6	12.8	12.7	12.6
17	16.2	16.3	15.9	15.8	15.4	15.6	15.2	15.2	15.4	15.1	14.8	14.0	14.4	14.0	14.4
18	15.0	14.9	15.0	15.2	15.1	15.0	15.2	15.4	14.7	14.6	13.8	13.0	12.8	13.0	12.5
Region Total	15.8	15.6	15.5	15.5	15.2	15.1	14.9	15	14.7	14.4	13.9	13.2	13.3	13.2	13.2
Provincial Average	15.4	15.3	-	15.0	14.8	15.0	14.9	15.1	15.0	14.7	14.2	13.6	13.9	13.7	13.9

Source: Newfoundland and Labrador Statistics Agency/Community Accounts, 2006

Table A-2 RCMP Placentia-Whitbourne District Statistics

Offence Type	2001	2002	2003	2004	2005*
CRIMINAL CODE					
Persons	160	190	175	129	88
Property	314	323	298	316	202
Criminal Other	631	580	563	560	413
Total Criminal Code	1,105	1,093	1,036	1,005	703
FEDERAL					
Drugs	59	33	17	25	18
General	29	67	37	50	14
Total Federal	88	100	54	75	32
PROVINCIAL					
General	247	231	242	236	286
Liquor	152	63	90	104	58
Provincial Traffic	598	853	658	867	1226
Total Provincial	997	1,147	990	1,207	1,570
Total Municipal	2	0	1	4	1
TRAFFIC					
Collisions	205	202	167	146	127
Collisions - Offroad Vehicles	2	2	2	2	1
Provincial Traffic**	7	6	8	6	9
Other Traffic***	93	45	44	44	40
Criminal Code Traffic	93	86	109	80	61
Total Collisions and Traffic	400	341	330	278	238
Source: J. Taylor, pers. comm.					
1. Reported occurrences taken from PIRS Major's Report run 2006/08/11.					
2. Data is based on calendar year.					
* 2005 data reflects only the period January 2005 to September 2005. In September 2005 the RCMP introduced a new database system. Since the integrity of the data could be affected by the conversion and/or merging of the initial partial year data sets, the new PROS data has not been included.					
** Total Provincial Traffic – Disputed Provincial Traffic Tickets					
*** Total Other Traffic – Municipal Traffic Offences and Checkstop Programs					

Table A-3 RCMP Placentia-Whitbourne District Statistics and Ratios

District Stats	2001	2004
Population of Placentia Whitbourne District	15,142	14,563
Total Criminal Code/ District Population Ratio	0.073	0.069
Placentia/Whitbourne District RM Establishment*	14	14
Police Officer/Population Ratio	1,082	1,040
Source: J. Taylor, pers. comm. 2001 population stats are based on Statistics Canada 2001 Consensus. 2004 population statistics taken on Newfoundland & Labrador Statistics Agency, based on Demography Division Estimates, Statistics Canada.		

Table A-4 RCMP B Division Statistics

Offence Type	2001	2002	2003	2004	2005*
Criminal Code					
Total Persons	4,067	4,155	4,440	4,305	3,326
Total Property	7,039	7,097	7,763	7,905	5,575
Total Criminal Other	13,054	13,161	14,777	15,051	11,932
Total Criminal Code	24,160	24,413	26,980	27,261	20,833
FEDERAL					
Total Drugs	896	872	781	867	699
Total General	1,105	1,287	1,020	868	678
Total Federal	2,001	2,159	1,801	1,735	1,377
PROVINCIAL					
Total General	6,519	6,681	6,825	7,086	5,640
Total Liquor	2,745	1,992	1,807	1,792	1,410
Total Provincial Traffic	20,798	19,861	17,623	17,499	16,117
Total Provincial	30,062	28,534	26,255	26,377	23,167
Total Municipal	469	476	374	367	359
TRAFFIC					
Total Collisions	4,710	4,524	4,525	4,242	3,075
Total Collisions - Offroad Vehicles	67	57	62	60	46
Total Provincial Traffic**	406	304	276	274	340
Total Other Traffic***	781	655	540	654	371
Criminal Code Traffic	2,457	2,102	1,761	1,882	1,410
Total Collisions and Traffic	8,421	7,642	7,164	7,112	5,242
Source: J. Taylor, pers. comm.					
1. Reported occurrences taken from PIRS Major's Report run 2006/08/11.					
2. Data is based on calendar year.					
* 2005 data reflects only the period January 2005 to September 2005. In September 2005 the RCMP introduced a new database system. Since the integrity of the data could be affected by the conversion and/or merging of the initial partial year data sets, the new PROS data has not been included.					
** Total Provincial Traffic – Disputed Provincial Traffic Tickets					
*** Total Other Traffic – Municipal Traffic Offences and Checkstop Programs					

Table A-5 RCMP District Populations Within B Division

District Population	2001	2004
Avalon East	18,823	18,009
Bay St. George	33,614	32,267
Burin Peninsula	24,091	22,793
Clarenville-Bonavista	28,183	27,405
Deer Lake	33,069	32,248
Gander-Lewisporte	50,645	51,682
Grand Falls-Windsor	43,289	42,872
Labrador	17,922	17,539
Northern Peninsula	15,200	14,226
Placentia-Whitbourne	15,142	14,563
Trinity-Conception	36,610	36,058
Division Population	316,588	309,662
Source: J. Taylor, pers. comm.		

Table A-6 RCMP B Division District Staffing Levels

District Regular Member Establishments	2001	2004	2006
Avalon East	21	21	21
Bay St. George	37	37	37
Burin Peninsula	19	19	20
Clarenville-Bonavista	21	21	21
Deer Lake	29	29	30
Gander-Lewisporte	36	36	37
Grand Falls-Windsor	33	33	35
Labrador	43	47	52
Northern Peninsula	14	14	14
Placentia-Whitbourne	14	14	14
Trinity-Conception	24	23	24
Total District Front Line Regular Member Positions	291	294	305
Source: J. Taylor, pers. comm.			
Note: These numbers represent Front Line Contract Policing permanent positions only. They do not include administrative member positions such as the District Commander or specialized unit positions such as Police Dog Service, Traffic Services, Drug Awareness, Forensic Identification, Polygraph, Major Crime, General Investigation Section or Federal Policing Positions.			

Table A-7 RCMP B Division Traffic Services Staffing

Traffic Services Provincial Establishment	RM	PS
Holyrood	6	0
Clarenville	2	0
Marystown	1	0
Gander	3	0
Grand Falls-Windsor	3	0
Goose Bay	2	0
Deer Lake	5	0
Channel / Port Aux Basques	2	0
Stephenville	1	0
Roving Patrol Unit	1	0
Traffic Services Commander - St. John's	1	1
Total Traffic Services Establishment	27	1
Source: J. Taylor, pers. comm.		
RM = Regular Member		
PS = Public Service Employee		

Table A- 8 RCMP Trinity-Conception District (Harbour Grace / Bay Roberts Offices) Statistics

Offence Type	2001	2002	2003	2004	2005*
Criminal Code					
Total Persons	168	168	204	173	123
Total Property	395	446	613	454	332
Total Criminal Other	613	621	811	819	540
Total Criminal Code	1,176	1,235	1,628	1,446	995
FEDERAL					
Total General	47	25	24	38	28
Total Drugs	68	80	74	54	25
Total Federal	115	105	98	92	53
PROVINCIAL					
Total General	488	522	484	520	288
Total Liquor	176	136	153	88	78
Total Provincial Traffic	2,669	2,339	1,702	1,405	1,705
Total Provincial	3,333	2,997	2,339	2,013	2,089
Total Municipal	14	5	9	15	10
TRAFFIC					
Total Collisions	389	332	356	336	215
Total Collisions - Offroad vehicles	8	3	7	9	5
Total Provincial Traffic**	63	57	48	42	83
Total Other Traffic***	71	84	46	139	82
Criminal Code Traffic	183	159	146	130	104
Total Collisions and Traffic	714	635	604	658	491
Source: J. Taylor, pers. comm.					
1. Reported occurrences taken from PIRS Major's Report run 2006/08/11.					
2. Data is based on calendar year.					
* 2005 data reflects only the period January 2005 to September 2005. In September 2005 the RCMP introduced a new database system. Since the integrity of the data could be affected by the conversion and/or merging of the initial partial year data sets, the new PROS data has not been included.					
** Total Provincial Traffic – Disputed Provincial Traffic Tickets					
*** Total Other Traffic – Municipal Traffic Offences and Checkstop Programs					

Table A-9 RCMP Avalon East District, Holyrood Office Statistics.

Offence Type	2001	2002	2003	2004	2005*
Criminal Code					
Total Persons	61	58	90	71	50
Total Property	170	237	341	259	186
Total Criminal Other	192	205	377	441	240
Total Criminal Code	423	500	808	771	476
FEDERAL					
Total Drugs	23	13	19	32	7
Total General	17	9	11	14	11
Total Federal	40	22	30	46	18
PROVINCIAL					
Total General	215	261	208	241	135
Total Liquor	59	53	58	49	32
Total Provincial Traffic	597	465	440	518	526
Total Provincial	871	779	706	808	693
Total Municipal	1	0	2	11	3
Total Traffic	277	228	286	306	204
GRAND TOTAL	1,612	1,529	1,832	1,942	1,394
Source: J. Taylor, pers. comm.					
1. Reported occurrences taken from PIRS Major's Report run 2006/08/11.					
2. Data is based on calendar year.					
* 2005 data reflects only the period January 2005 to September 2005. In September 2005 the RCMP introduced a new database system. Since the integrity of the data could be affected by the conversion and/or merging of the initial partial year data sets, the new PROS data has not been included.					

Table A-10 RCMP Avalon East District, Holyrood Office Statistics and Ratios

	2001	2002	2003	2004	2005*
RM Establishment**	9	8	9	9	9
Total Criminal Code (without Traffic CC)	423	500	808	771	476
Criminal Code Files/Member Ratio	47.0	62.5	89.8	85.6	52.9
Population	6,991	-	-	6,763	-
Population/Member Ratio	776.8	-	-	751.4	-
Source: J. Taylor, pers. comm.					
* 2005 data reflects only the period January 2005 to September 2005. In September 2005 the RCMP introduced a new database system. Since the integrity of the data could be affected by the conversion and/or merging of the initial partial year data sets, the new PROS data has not been included.					
**RM Establishment includes District Commander and OPS NCO.					

Table A- 11 Occupied Private Dwellings, by Tenure and Average Value, Study Area, 1991, 1996 and 2001

Census Area	Occupied Private Dwellings			# Owned			# Rented			Average Value \$			Average Rent \$		
	1991	1996	2001	1991	1996	2001	1991	1996	2001	1991	1996	2001	1991	1996	2001
01A	295	325	305	300	295	285	10	25	20	53,001	46,227	54,061	-	578	293
Long Harbour - Mount Arlington Heights	160	155	135	150	150	135	10	10	0	40,982	43,974	32,461	307	-	-
Southern Harbour	185	180	180	180	180	180	10	0	0	51,132	39,545	49,908	-	-	-
Arnold's Cove	345	385	360	300	305	315	30	75	40	48,556	52,762	64,848	348	440	374
Come By Chance	85	95	90	70	80	85	10	15	10	56,867	51,871	48,946	537	534	-
Sunnyside	185	205	180	165	195	160	20	10	15	52,282	49,719	49,461	379	-	-
Chance Cove	125	135	125	110	110	115	10	25	10	42,745	49,105	47,168	277	538	-
Norman's Cove - Long Cove	300	300	285	265	260	240	35	40	45	46,292	51,754	46,480	685	400	312
Chapel Arm	185	190	190	165	170	180	20	15	10	49,426	44,242	44,904	394	471	-
01B	180	155	150	150	155	145	40	0	10	56,154	46,838	40,339	211	-	-
Placentia	600	1,675	1,620	480	1,320	1,280	120	355	345	52,031	91,418	54,161	426	447	442
Dunville	520	-	-	440	-	-	80	-	-	51,199	-	-	468	-	-
Freshwater	315	-	-	255	-	-	60	-	-	39,992	-	-	330	-	-
Jerseyside	210	-	-	175	-	-	30	-	-	41,182	-	-	499	-	-
Fox Harbour	135	125	130	130	120	115	10	10	15	30,274	31,535	39,503	163	-	-
01X	160	185	185	150	185	170	10	0	20	49,935	57,151	76,524	450	-	551
Colinet	55	70	65	55	60	60	5	10	10	44,687	43,188	-	-	494	-
01Y	350	390	395	320	355	375	30	35	25	58,485	47,970	62,406	518	481	420
Whitbourne	325	355	365	280	305	315	45	45	55	52,226	56,544	64,236	386	377	499
Study Area	4,715	4,925	4,760	4,565	4,245	4,155	635	670	630	48,287	50,240	51,694	399	476	413
<i>Province</i>	<i>174,495</i>	<i>185,500</i>	<i>189,040</i>	<i>137,135</i>	<i>143,060</i>	<i>147,750</i>	<i>37,340</i>	<i>42,360</i>	<i>41,170</i>	<i>64,784</i>	<i>70,835</i>	<i>76,283</i>	<i>447</i>	<i>497</i>	<i>513</i>

Source: Statistics Canada, 1991; 1996; 2001

Table A-12 Housing Starts, Sales and Prices, Study Area

Town/Area	2002	2003	2004	2005	2006 (Year to Date)
Long Harbour and Mount Arlington Heights / Fox Harbour / Placentia / Argentia					
Starts	10	4	3	5	1
Multiple Listing Service (MLS) Sales	17	10	17	19	2
Average Price	\$34,110	\$67,750	\$59,676	\$57,397	\$50,500
Rent:					
1 Bedroom	\$321	\$288	-	-	-
2 Bedrooms	\$366	\$370	-	-	-
Vacancy Rate	-	46.40%	-	27.50%	-
Southern Harbour / Arnold's Cove / Come By Chance / Sunnyside					
Starts	3	8	3	2	0
MLS Sales	1	1	7	0	1
Average Price	\$22,000	\$12,900	\$32,500	-	\$35,000
Chance Cove / Norman's Cove / Chapel Arm / Fair Haven / Bellevue					
Starts	0	0	0	0	0
MLS Sales	4	1	6	4	2
Average Price	\$37,500	25,500	\$39,000	\$32,500	\$31,750
North River / South River / Clarke's Beach					
Starts	10	4	3	5	0
MLS Sales	5	5	8	9	1
Average Price	\$37,250	\$45,740	\$38,500	\$35,000	\$48,000
Whitbourne / Blaketown					
Starts	0	0	0	1	0
MLS Sales	2	6	5	8	2
Average Price	\$75,000	\$92,000	\$29,500	\$99,000	\$80,500
New Harbour / Old Shop / Dildo / South Dildo					
Starts	0	0	0	0	0
MLS Sales	5	4	5	2	2
Average Price	\$36,333	\$20,333	\$72,000	\$49,500	\$16,500
Green's Harbour / Heart's Delight / Cavendish / Hopeall / Whiteway					
Starts	0	0	0	0	0
MLS Sales	3	4	4	10	2
Average Price	\$32,467	\$45,875	\$34,000	\$61,750	\$49,500

APPENDIX B

Economy, Business, Training and Employment Data Tables

Table B-1 Labour Force by Industry, Study Area, 2001

Census Area	Agriculture, Forestry, Fishing and Hunting	Mining and Oil and Gas Extraction	Utilities	Construction	Manufacturing	Wholesale Trade	Retail Trade	Transportation and Warehousing	Information and Cultural Industries	Finance and Insurance	Real Estate, Rental and Leasing	Professional, Scientific and Technical	Management of Companies and Enterprises	Administrative and Support, Waste Management and Remediation	Educational Services	Health Care and Social Assistance	Arts, Entertainment and Recreation	Accommodation and Food Services	Other Services	Public administration
01A	105	15	0	20	55	10	20	30	0	10	0	0	0	10	15	15	0	25	10	0
Long Harbour - Mount Arlington Heights	25	10	10	10	65	0	0	10	0	0	0	10	0	0	15	10	0	10	15	10
Southern Harbour	100	10	0	10	65	10	30	15	0	0	0	0	0	10	0	10	0	10	0	0
Arnold's Cove	55	0	0	15	295	0	55	30	0	0	0	10	0	10	30	0	0	10	15	15
Come By Chance	0	10	10	0	45	0	25	15	0	0	15	0	0	0	10	0	0	0	10	0
Sunnyside	35	0	0	10	100	0	0	10	0	0	0	0	0	0	10	10	0	20	10	10
Chance Cove	10	0	0	15	50	0	10	0	0	0	0	0	0	0	0	10	0	0	15	0
Norman's Cove - Long Cove	70	0	10	15	65	10	20	15	0	0	0	10	0	0	20	25	0	25	30	10
Chapel Arm	10	0	10	30	55	10	30	10	0	0	0	0	0	0	10	10	0	10	10	0
01B	40	0	0	30	30	0	20	10	0	0	0	10	0	15	20	30	0	10	15	0
Placentia	170	10	0	210	175	35	185	140	20	10	15	15	0	105	125	235	20	75	150	140
Fox Harbour	45	0	0	20	10	0	25	25	0	0	0	0	0	0	0	15	0	10	10	10
01X	15	0	0	30	15	0	10	10	0	0	10	0	0	0	10	35	0	0	10	15
Colinet	0	0	0	20	0	10	10	0	0	0	0	0	0	0	0	20	0	0	0	10
01Y	20	0	0	45	125	0	50	10	0	15	0	10	0	20	10	15	0	30	45	35
Whitbourne	30	0	10	25	40	0	50	20	15	0	0	10	0	10	25	35	0	30	25	30
Study Area Total	730	55	50	505	1,190	85	540	350	35	35	40	75	0	180	300	475	20	265	370	285
<i>Province</i>	<i>15,515</i>	<i>4,935</i>	<i>2,185</i>	<i>15,035</i>	<i>23,985</i>	<i>7,180</i>	<i>29,370</i>	<i>11,515</i>	<i>4,710</i>	<i>4,725</i>	<i>2,360</i>	<i>7,565</i>	<i>150</i>	<i>6,645</i>	<i>16,700</i>	<i>28,620</i>	<i>3,245</i>	<i>14,370</i>	<i>13,065</i>	<i>20,370</i>

Source: Statistics Canada, 2001

Table B-2 Labour Force by Occupation, Study Area, 2001

Census Area	Management Occupations	Business, Finance and Administration	Natural and Applied Sciences	Health Occupations	Social Science, Education, Government Services and Religion	Art, Culture, Recreation and Sport	Sales and Service	Trades, Transport and Equipment Operators	Occupations Unique to Primary Industry	Occupations Unique to Processing, Manufacturing and Utilities
01A	0	40	0	10	10	0	70	65	110	40
Long Harbour - Mount Arlington Heights	0	15	20	10	10	0	15	80	25	10
Southern Harbour	10	10	10	10	10	0	30	45	100	50
Arnold's Cove	35	45	10	0	25	10	65	80	55	225
Come By Chance	10	15	0	0	10	0	25	50	10	35
Sunnyside	0	25	20	0	10	0	45	20	35	45
Chance Cove	0	0	0	10	0	0	15	25	10	35
Norman's Cove - Long Cove	10	25	10	15	15	0	75	80	70	15
Chapel Arm	0	15	0	15	0	0	35	60	10	40
01B	10	25	20	10	5	0	55	55	40	0
Placentia	40	180	65	95	130	15	560	510	185	50
Fox Harbour	10	10	10	0	10	0	45	35	35	20
01X	0	0	20	30	10	0	40	40	20	10
Colinet	10	0	10	0	0	0	20	20	10	0
01Y	35	75	10	25	20	0	75	25	15	75
Whitbourne	15	45	0	0	60	10	110	80	45	0
Study Area Total	185	525	205	230	325	35	1,280	1,270	775	650
<i>Province</i>	<i>19,025</i>	<i>32,565</i>	<i>11,950</i>	<i>13,680</i>	<i>17,920</i>	<i>4,610</i>	<i>59,355</i>	<i>39,950</i>	<i>18,100</i>	<i>15,105</i>

Source: Statistics Canada, 2001

Table B-3 Labour Force, Male and Female, Study Area, 1991, 1996 and 2001

Census Area	Male			Female		
	1991	1996	2001	1991	1996	2001
01A	255	265	195	220	165	150
Long Harbour - Mount Arlington Heights	110	115	120	70	65	55
Southern Harbour	210	180	145	145	120	120
Arnold's Cove	305	345	290	235	225	260
Come By Chance	75	95	90	60	50	60
Sunnyside	185	145	145	100	130	85
Chance Cove	100	85	65	85	60	60
Norman's Cove - Long Cove	230	215	190	105	180	140
Chapel Arm	180	150	110	145	130	85
01B	180	135	115	165	85	120
Placentia	490	1,145	1,040	385	885	855
Dunville	455	-	-	380	-	-
Freshwater	290	-	-	230	-	-
Jerseyside	190	-	-	115	-	-
Fox Harbour	85	60	85	50	60	75
01X	130	115	90	110	95	75
Colinet	60	45	35	35	45	35
01Y	310	320	280	255	245	180
Whitbourne	275	235	215	225	215	175
Study Area Total	4115	3650	3210	3115	2755	2530
<i>Province</i>	<i>149,410</i>	<i>135,320</i>	<i>128,640</i>	<i>117,745</i>	<i>110,740</i>	<i>112,855</i>
Source: Statistics Canada, 1991; 1996; 2001						

Table B-4 Participation Rate By Gender, Study Area, 1991, 1996 and 2001

Census Area	Male			Female		
	1991	1996	2001	1991	1996	2001
01A	58.6	57.0	54.9	59.6	40.7	41.1
Long Harbour - Mount Arlington Heights	56.4	56.1	70.6	43.8	35.1	39.3
Southern Harbour	77.8	80.0	55.8	59.2	51.1	50.0
Arnold's Cove	69.3	75.0	69.9	51.1	47.9	61.2
Come By Chance	62.5	76.0	81.8	54.5	45.5	57.1
Sunnyside	71.2	53.7	67.4	40.8	50.0	43.6
Chance Cove	60.6	53.1	44.8	50.0	40.0	44.4
Norman's Cove - Long Cove	57.5	56.6	57.6	51.3	46.8	40.0
Chapel Arm	72.0	71.4	52.4	54.7	57.8	40.5
01B	83.7	67.5	67.6	68.8	43.6	64.9
Placentia	66.7	60.3	59.9	53.8	45.2	46.7
Dunville	71.1	-	-	56.3	-	-
Freshwater	74.4	-	-	57.5	-	-
Jerseyside	63.3	-	-	46	-	-
Fox Harbour	51.5	38.7	65.4	34.5	38.7	50.0
01X	66.7	53.5	41.9	47.8	47.5	38.5
Colinet	60.0	64.3	53.8	35.0	52.9	50.0
01Y	74.7	71.1	69.1	54.3	50.5	40.0
Whitbourne	63.2	56.6	54.4	58.4	53.8	44.3
Study Area	65.8	61.9	60.5	51.4	46.7	47
Province	68.9	63.0	63.2	53.7	49.7	52.3
Source: Statistics Canada, 1991; 1996; 2001						

Table B-5 Unemployment Rate By Gender, Study, 1991, 1996 and 2001

Census Area	Male			Female		
	1991	1996	2001	1991	1996	2001
01A	31.4	17.0	23.1	36.4	33.3	16.7
Long Harbour - Mount Arlington Heights	59.1	39.1	33.3	57.1	30.8	36.4
Southern Harbour	28.6	19.4	27.6	37.9	37.5	54.2
Arnold's Cove	9.8	20.3	0.0	10.6	17.8	7.7
Come By Chance	13.3	15.8	16.7	25.0	-	0.0
Sunnyside	27.0	10.3	34.5	20.0	15.4	17.6
Chance Cove	15.0	35.3	38.5	11.8	33.3	41.7
Norman's Cove - Long Cove	32.6	37.2	26.3	46.2	47.2	28.6
Chapel Arm	50.0	36.7	22.7	34.5	26.9	29.4
01B	38.9	48.1	17.4	27.3	47.1	25.0
Placentia	23.5	29.7	36.1	27.3	27.1	19.9
Dunville	30.8	-	-	25	-	-
Freshwater	36.2	-	-	30.4	-	-
Jerseyside	34.2	-	-	52.2	-	-
Fox Harbour	47.1	50.0	64.7	30.0	41.7	20.0
01X	38.5	34.8	33.3	45.5	42.1	33.3
Colinet	41.7	22.2	42.9	28.6	33.3	28.6
01Y	32.3	18.8	19.9	35.3	28.6	19.4
Whitbourne	25.5	8.5	18.6	24.4	14	11.4
Study Area	32.1	27.7	28.5	31.1	31.7	24.4
Province	28.4	26.9	24.2	27.0	22.9	19.1
Source: Statistics Canada, 1991; 1996; 2001						

Table B-6 Average Personal Income by Gender, Study Area, 1986, 1991, 1996 and 2001

Census Area	Male				Female			
	1986	1991	1996	2001	1986	1991	1996	2001
01A	12,588	20,831	28,175	31,641	7,659	8,585	12,762	12,808
Long Harbour - Mount Arlington Heights	19,299	20,863	21,371	35,935	7,883	9,248	13,865	16,374
Southern Harbour	14,129	21,143	31,409	31,421	7,843	12,586	19,331	16,102
Arnold's Cove	16,031	23,767	30,491	30,331	7,950	12,621	14,828	16,379
Come By Chance	15,835	27,455	32,652	42,183	9,551	13,143	17,025	14,379
Sunnyside	17,363	20,948	23,588	27,327	8,745	10,053	11,888	13,604
Chance Cove	14,137	15,608	28,770	22,227	9,418	9,512	11,897	11,306
Norman's Cove - Long Cove	17,452	18,935	20,581	28,250	7,707	9,225	15,299	12,900
Chapel Arm	19,071	15,590	36,586	25,870	6,878	12,117	13,714	14,688
01B	13,836	21,412	20,595	38,192	9,036	15,663	10,140	15,454
Placentia	14,965	21,215	20,136	25,459	9,508	13,983	11,579	13,873
Dunville	19,279	22,107	-	-	10,166	13,674	-	-
Freshwater	13,620	18,394	-	-	8,208	12,062	-	-
Jerseyside	13,507	15,483	-	-	10,127	12,279	-	-
Fox Harbour	15,095	23,291	20,214	20,429	6,782	9,446	9,607	13,597
01X	13,217	19,434	21,055	19,835	4,618	9,931	14,497	19,259
Colinet	14,607	-	-	-	11,391	-	-	-
01Y	17,199	19,354	17,412	24,844	6,599	10,401	9,768	13,498
Whitbourne	15,308	21,861	23,023	23,923	7,098	10,305	16,207	14,527
Study Area	15,775	20,404	24,849	28,302	8,306	11,544	13,546	14,710
Province	17,582	23,516	24,602	28,144	9,876	13,472	14,529	17,181

Source: Statistics Canada, 1986; 1991; 1996; 2001

Table B-7 Income Support Cases and Incidence, Region, 1992 to 2003

Economic Zone	Individuals on Income Support											
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
15	6,145	5,990	5,805	5,810	5,615	5,260	4,655	4,135	4,045	3,680	3,485	3,555
17	8,685	8,920	8,720	9,065	9,060	8,585	7,920	7,270	6,805	6,420	5,920	5,720
18	1,995	1,865	1,810	1,960	1,860	1,815	1,680	1,420	1,320	1,210	1,040	990
Region Total	16,825	16,775	16,335	16,835	16,535	15,660	14,255	12,825	12,170	11,310	10,445	10,265
Province	101,105	101,760	102,330	104,065	102,325	95,485	87,625	80,560	76,415	70,885	66,725	65,875

Source: Newfoundland and Labrador Statistics Agency/Community Accouts, 2006

Economic Zone	Income Support Incidence											
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
15	17.1	16.9	16.7	16.9	16.8	16.1	14.4	-	13.1	12	11.4	11.9
17	18.8	19.4	19.1	19.8	20.4	19.6	18.1	-	15.9	15.1	14.0	13.6
18	19.1	18.1	18.1	19.7	19.5	19.4	18.3	-	15.1	14.3	12.4	12.3
Region Total	18.3	18.1	18.0	18.8	18.9	18.4	16.9	-	14.7	13.8	12.6	12.6
Province	17.6	17.8	18.1	18.4	18.6	17.7	16.3	-	14.6	13.6	12.8	12.8

Source: Newfoundland and Labrador Statistics Agency/Community Accouts, 2006

Table B-8 Employment Insurance Cases and Incidence, Region, 1992-2003

Economic Zone	Employment Insurance Beneficiaries											
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
15	11,580	9,975	8,645	7,700	7,525	7,465	7,940	8,610	8,250	8,060	8,115	8,265
17	14,115	12,065	10,930	9,710	9,280	9,275	9,395	9,905	9,665	9,745	9,885	10,210
18	3,435	2,885	2,535	2,135	2,090	2,095	2,145	2,265	2,310	2,285	2,295	2,285
Region Total	29,130	24,925	22,110	19,545	18,895	18,835	19,480	20,780	20,225	20,090	20,295	20,760
Province	154,235	137,975	121,945	106,185	102,825	100,425	99,490	102,545	99,740	99,740	100,325	101,020

Source: Newfoundland and Labrador Statistics Agency/Community Accouts, 2006

Economic Zone	Beneficiaries as a Percentage of Labour Force											
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
15	66.1	59.2	54.2	50.2	49.5	49.3	50.4	53.8	52.2	49.9	50.2	52.0
17	63.7	55.9	53.7	49.7	48.1	48.0	47.2	48.7	47.6	46.4	46.6	48.0
18	65.8	58.2	55.3	50.3	50.8	50.5	50.3	52.3	53.6	53.2	53.3	54.4
Region Total	65.2	58.8	54.4	50.1	49.5	49.3	49.3	51.6	51.3	49.8	50.0	51.5
Province	53.3	48.6	44.6	40.3	39.9	39.0	38.1	38.6	37.2	36.2	36.2	36.5

Source: Newfoundland and Labrador Statistics Agency/Community Accouts, 2006

Table B-9 Highest Education Level Achieved by All Residents, Study Area, 2001

Census Area	Ages 20-34						Ages 35-44						Ages 45-64					
	Population	% with less than high school graduation	% with some postsecondary schooling	% with trades certificate/diploma	% with college certificate or diploma	% with university certificate/diploma/degree	Population	% with less than high school graduation	% with some postsecondary schooling	% with trades certificate/diploma	% with college certificate or diploma	% with university certificate/diploma/degree	Population	% with less than high school graduation	% with some postsecondary schooling	% with trades certificate/diploma	% with college certificate or diploma	% with university certificate/diploma/degree
01A	180	19.4	27.8	44.4	0.0	5.6	110	63.6	9.1	27.3	0.0	0.0	245	57.1	22.4	16.3	4.1	0.0
Long Harbour - Mount Arlington Heights	35	28.6	42.9	28.6	0.0	0.0	70	28.6	14.3	42.9	14.3	0.0	110	22.7	9.1	31.8	22.7	0.0
Southern Harbour	110	31.8	13.6	31.8	18.2	9.1	95	47.4	31.6	10.5	10.5	0.0	170	58.8	5.9	23.5	5.9	5.9
Arnold's Cove	215	23.3	34.9	23.3	11.6	4.7	170	50.0	11.8	23.5	5.9	8.8	285	57.9	14	12.3	5.3	8.8
Come By Chance	95	15.8	31.6	31.6	10.5	10.5	30	33.3	83.3	33.3	0.0	0.0	65	69.2	15.4	23.1	0.0	0.0
Sunnyside	50	0.0	30.0	50.0	20.0	0.0	70	78.6	0.0	0.0	14.3	0.0	170	61.8	8.8	11.8	5.9	14.7
Chance Cove	60	25.0	41.7	16.7	0.0	16.7	45	77.8	33.3	0.0	0.0	0.0	135	48.1	11.1	25.9	0.0	11.1
Norman's Cove - Long Cove	90	0.0	44.4	27.8	16.7	11.1	160	31.3	40.6	12.5	6.3	9.4	225	53.3	17.8	20.0	4.4	4.4
Chapel Arm	40	25.0	50.0	25.0	0.0	0.0	100	25.0	10.0	40.0	20.0	0.0	170	47.1	8.8	26.5	11.8	5.9
01B	85	17.6	41.2	29.4	11.8	0.0	70	42.9	14.3	42.9	14.3	0.0	115	34.8	8.7	34.8	8.7	13.0
Placentia	650	16.9	38.5	16.9	19.2	8.5	695	22.3	12.2	36.7	22.3	5.0	1,240	38.7	15.7	22.6	12.1	10.9
Fox Harbour	75	13.3	53.3	20.0	13.3	0.0	40	25.0	0.0	62.5	25.0	0.0	85	52.9	11.8	0.0	23.5	0.0
01X	80	0.0	25.0	37.5	18.8	12.5	65	53.8	15.4	15.4	23.1	0.0	160	56.3	15.6	15.6	12.5	0.0
Colinet	10	0.0	100.0	0.0	0.0	0.0	25	80.0	0.0	0.0	40.0	0.0	55	27.3	0.0	45.5	0.0	27.3
01Y	155	25.8	29.0	25.8	19.4	6.5	185	24.3	8.1	40.5	18.9	8.1	300	43.3	15.0	31.7	3.3	6.7
Whitbourne	195	15.4	15.4	15.4	41.0	10.3	155	48.4	9.7	29.0	12.9	0.0	245	53.1	6.1	18.4	4.1	16.3
Study Area	2,125	16.1	38.7	26.5	12.5	5.97	2,085	45.8	18.4	26.1	14.2	1.96	3,775	48.9	11.6	22.5	7.77	7.81
Province	100,280	20.7	27.4	19.2	16.4	16.3	85,045	29.9	16.5	25.3	15.7	12.6	135,275	44.6	14.1	18.8	9.9	12.6

Source: Statistics Canada, 2001

Table B-10 Highest Education Level Achieved by Males, Study Area, 2001

Census Area	Ages 20-34						Ages 35-44						Ages 45-64					
	Population	% with less than high school graduation	% with some postsecondary schooling	% with trades certificate/diploma	% with college certificate or diploma	% with university certificate/diploma/degree	Population	% with less than high school graduation	% with some postsecondary schooling	% with trades certificate/diploma	% with college certificate or diploma	% with university certificate/diploma/degree	Population	% with less than high school graduation	% with some postsecondary schooling	% with trades certificate/diploma	% with college certificate or diploma	% with university certificate/diploma/degree
01A	105	9.5	28.6	57.1	0	0	40	75.0	0	37.5	0	0	130	53.8	19.2	23.1	0	0
Long Harbour - Mount Arlington Heights	20	50.0	0	0	0	0	30	0	33.3	50.0	33.3	0	65	30.8	0	38.5	23.1	0
Southern Harbour	65	30.8	15.4	30.8	23.1	15.4	45	44.4	33.3	22.2	0	0	90	50.0	11.1	33.3	16.7	0
Arnold's Cove	110	36.4	27.3	18.2	13.6	9.1	105	61.9	9.5	28.6	0	0	145	55.2	17.2	24.1	0	0
Come By Chance	40	25.0	25.0	25.0	0	0	30	0	83.3	33.3	0	0	25	80.0	0	0	0	0
Sunnyside	25	0	60.0	40.0	0	0	40	62.5	0	0	0	0	80	56.3	0	0	12.5	31.3
Chance Cove	20	50.0	0	0	0	0	35	71.4	28.6	0	0	0	70	50.0	0	42.9	0	14.3
Norman's Cove - Long Cove	30	0	66.7	50.0	0	0	75	46.7	20.0	13.3	13.3	13.3	115	43.5	13.0	30.4	8.7	8.7
Chapel Arm	20	0	50.0	50.0	0	0	35	0	0	85.7	0	0	95	42.1	0	26.3	21.1	0
01B	35	0	42.9	0	42.9	0	35	71.4	0	28.6	0	0	70	42.9	0	42.9	14.3	0
Placentia	340	20.6	38.2	20.6	13.2	7.4	300	18.3	10.0	41.7	21.7	8.3	640	36.7	14.8	27.3	14.1	7.0
Fox Harbour	30	0	50.0	0	0	0	30	33.3	0	50.0	0	0	35	57.1	0	0	28.6	0
01X	50	20.0	0	50.0	30.0	0	35	85.7	0	0	0	0	75	66.7	0	13.3	0	0
Colinet	0	100.0	100.0	0	0	0	15	66.7	0	0	0	0	30	33.3	0	50.0	0	33.3
01Y	65	15.4	15.4	53.8	15.4	0	100	20.0	10.0	45.0	20.0	10.0	140	42.9	10.7	35.7	0	14.3
Whitbourne	105	14.3	9.5	23.8	38.1	9.5	95	47.4	0	31.6	15.8	0	110	50.0	9.1	18.2	0	22.7
Study Area	1060	23.3	33.1	26.2	11.0	2.6	1045	44.0	14.3	29.2	6.5	2.0	1915	49.5	5.9	25.4	8.7	8.2
Province	48,510	23.5	28.1	21.3	13.7	13.4	41,160	30.9	15.7	27.4	13.9	12.0	66,645	41.3	13.0	23.7	8.9	13.2

Source: Statistics Canada, 2001

Table B-11 Highest Education Level Achieved by Females, Study Area, 2001

Census Area	Ages 20-34						Ages 35-44						Ages 45-64					
	Population	% with less than high school graduation	% with some postsecondary schooling	% with trades certificate/diploma	% with college certificate or diploma	% with university certificate/diploma/degree	Population	% with less than high school graduation	% with some postsecondary schooling	% with trades certificate/diploma	% with college certificate or diploma	% with university certificate/diploma/degree	Population	% with less than high school graduation	% with some postsecondary schooling	% with trades certificate/diploma	% with college certificate or diploma	% with university certificate/diploma/degree
01A	75	20.0	26.7	33.3	0	13.3	70	57.1	14.3	21.4	0	0	115	60.9	26.1	8.7	0	0
Long Harbour - Mount Arlington Heights	10	0	100.0	0	0	0	40	50.0	25.0	25.0	0	0	45	0	22.2	33.3	33.3	22.2
Southern Harbour	50	20.0	20.0	40.0	0	0	50	40.0	20.0	0	20.0	0	80	68.8	12.5	12.5	0	12.5
Arnold's Cove	105	9.5	47.6	33.3	9.5	9.5	70	35.7	14.3	14.3	14.3	21.4	135	59.3	11.1	0	7.4	14.8
Come By Chance	50	20.0	40.0	30.0	20.0	0	10	100.0	0	0	0	0	35	71.4	28.6	28.6	0	0
Sunnyside	25	40.0	0	60.0	0	0	30	100.0	0	0	0	0	90	66.7	11.1	16.7	0	0
Chance Cove	40	25.0	50.0	0	0	25.0	15	66.7	0	0	0	0	65	46.2	15.4	15.4	0	15.4
Norman's Cove - Long Cove	60	0	25.0	25.0	25.0	16.7	85	11.8	58.8	11.8	11.8	11.8	110	63.6	22.7	13.6	0	0
Chapel Arm	15	0	66.7	0	0	0	65	38.5	23.1	15.4	30.8	0	75	60.0	13.3	26.7	0	0
01B	45	0	55.6	44.4	0	0	35	0	28.6	57.1	28.6	0	50	20.0	0	20.0	0	30.0
Placentia	310	12.9	40.3	14.5	24.2	11.3	390	25.6	15.4	34.6	24.4	2.6	600	41.7	16.7	18.3	10.0	14.2
Fox Harbour	45	22.2	66.7	22.2	0	0	15	0	0	66.7	66.7	0	50	50.0	20.0	0	20.0	20.0
01X	35	0	28.6	28.6	28.6	0	30	33.3	0	33.3	33.3	0	85	41.2	23.5	17.6	17.6	0
Colinet	10	-	-	-	-	-	15	66.7	0	0	66.7	0	25	40.0	0	40.0	0	40.0
01Y	90	33.3	33.3	0	22.2	11.1	85	29.4	11.8	41.2	17.6	0	160	50.0	15.6	31.3	6.3	0
Whitbourne	95	15.8	21.1	10.5	47.4	0	55	54.5	18.2	36.4	18.2	0	130	57.7	7.7	15.4	7.7	11.5
Study Area	1060	14.6	41.4	22.8	11.8	5.8	1060	44.3	14.3	22.3	20.8	2.2	1850	49.8	15.4	18.6	6.4	11.3
Province	51,775	18.1	26.7	17.2	19.0	19.1	43,890	28.9	17.1	23.4	17.4	13.2	68,630	47.7	15.3	14.0	10.9	12.1
Source: Statistics Canada, 2001																		

Table B-12 Business List, Town of Placentia, 2007

Sales and Services		Construction and Contracting	Automotive and Transportation	Other Businesses
A & M Video Aesthetics Now Argentia Dry Cleaning & Laundry Services Argentia Recycling B.J.'s Hairstyling Bailey's Furniture and Appliance Bailey's Furniture and Warehouse Bill's Barber Shop Branton's Dept. Store Budden, Rosalyn's Beauty Salon C & N Mobile Carwash Central T.V. Repair Chris Newhook's Graphic Studio Coombs Funeral Home Ltd. Cuts Curls & Colors Della's Flower & Pottery Shop Edison Electronics Inc Express Signs Ltd Floral Designs Great Canadian Dollar Store Greene Adrian Barber Shop Hair's Heaven Healey's Store Hickey's Greenhouse & Nursery Innovative Photography Island Arts & Crafts Jeansa Kennels Joe's Barber Shop K & K Professional Maid Service	Kelly's GEO Lawton's Drug Stores Ltd Maher's Funeral Home Ltd. Midway Market & Gas Bar Modern Beauty Salon Music Shop New Image 2001 Orcan Art & Design Payless Foods Personna Communications Inc Placentia Esso Service Center Provincial Storage Ltd RCG Investments Incorporated (Greene's Drug Mart) Rise 'N Shine Cleaners Rogers Telecom Inc. Roule's Carpentry & Upholstery Ryman Enterprises Ltd (Sears) Shave's Central Store Ltd. Sobey's Foods Limited Sparrow Signs Super One Stop Traverse Repairs Ltd Walter Manning and Sons Ltd. (40 Shades Recycling Depot) Woodman's Sports Woodman's Home Heat	Argentia Freezers Inc. Argentia Ready Mix Atlantic Catering Group Bernie's Contracting Ltd BrownCo Investments Inc Ed Collin's Contracting LT Hynes Construction Co. Ltd. John McCrowe Construction Kings Equipment Rentals Ltd M.J. Hickey Construction Ltd. Maher's Heavy Equipment Maher's Polypipe Limited Metal World Inc Newlab Engineering Ld. Northland Contracting Inc. Patterson's Steel Products Ltd. Patterson's Crane Rentals Ltd. Penny Industrial Limited Sobey's Foods Limited Limited St. Lawrence Cement Inc. Tom's Salvage	Bennett's Garage Bennett's Taxi Browne's Transport Busy Bee Cabs Central Auto Sales Colonial Garage & Distributors DMJ Automotive Jude's Cab King's Cabs Marine Atlantic Inc. Matt's Auto Service Ltd. Newhook's Transportation Newman's Auto Services Placentia Cabs Taylor's Transport	Argentia Property Services Argentia Industrial Services Aylward's (1986) Limited Clearwater Fine Foods Cold North Seafoods D & L Enterprises F.A. Maher Limited Fusion Services Inc. Greystone Business Suites & Services Imperial Oil Limited J.V. Butler (2000) Corporation K.J. Power Limited Katie & Company Limited Lannon's Sawmill Lapp Enterprises Lion's Club of Dunville Lions Manor Incorporated Matmar Holding's Ltd NFLD. Broadcasting Co. Ltd. North East Arm Ventures Ltd. Oceanview Apartments Ltd Placentia Bay Designs Ltd Purewater Sales Royal Canadian Legion S&S Pittman Ltd. Star of the Sea Association Stellar Woodworks Inc Tacamor Holdings Inc. Transcontinental NL Media (The Charter) Voisey's Bay Nickel Company
Tourism and Recreation (including temporary accommodations)	Education and Childcare	Restaurants and Bars	Healthcare and Health Services	Government Depts and Management Boards
Avalon Bed & Breakfast Castle Landing Guest Home Castle Hill Bed & Breakfast Cochrane Corner Guest Home Dixon Inn Freshwater Community Centre Harbour View Manor Hotel Placentia Ltd LL & D Guest Rooms & Mary's Convenience P4 Youth Center Rosedale Manor Incorporated Sea & Rock Adventures Ltd The Alexandra Inn	College of the North Atlantic Laval High School Little Pete's Daycare St. Anne's Academy St. Edwards School	Belle's Restaurant Blue Jay Café Cuppa Java Hillcrest Snacks Hoi Pun Restaurant Jeremy's Reddi Chef Kelly's Pizza Plus M & N Holdings (Boardwalk Lounge) Spuds Vermel Enterprises Ltd. (Mary Brown's) Westside Charlie's Billiards Room	Caregivers Inc Cashin, Dr. John Comfort Home Care Coombs Personal Home Care Ltd Fort Louis Medical Clinic Greene, Dr. Daniel Placentia Medical Clinic Power's Ambulance Service Ltd.	Argentia Management Authority Placentia Area Development Association Public Works Canada Banks and Financial Services Cooperaters Insurance H & R Block Investor's Group MUNN Insurance Royal Bank of Canada Tax Shelter
Source: R. Power and E. O'Keefe, pers. comm.				

APPENDIX C

Recreational Activity Data Tables

Table C-1 Large Game Hunting Licenses and Seasons, Study Area, 2006/07 Season

		Hunting Season	License Type			Total	Change from 2004/05 Season
			Either Sex	Male Only or Calf	Female Only or Calf		
Moose Management Area							
31	Placentia	Oct 7/06 – Jan 7/07	300	300	0	600	No Change
32	Cape Shore	Oct 7/06 – Jan 7/07	175	175	0	350	+ 50
33	Salmonier	Oct 7/06 – Jan 7/07	200	200	0	400	+100
44	Bellevue	Oct 7/06 – Jan 7/07	150	100	0	250	- 50
Moose Total						1,600	+ 100
Caribou Management Area							
77	Cape Shore	Sept 9/06 – Dec 10/06	100	100	-	200	No Change
70	Merasheen Island	Sept 9/06 – Sept 23/06	25	0	-	25	No Change
Caribou Total						225	0
Black Bear Management Area							
28	Black River	Sept 9/06 – Nov 12/06	*	*	*	126**	
31	Placentia	Closed	0	0	0	0	
32	Cape Shore	Closed	0	0	0	0	
33	Salmonier	Closed	0	0	0	0	
Source: NLDEC, 2006							
* Black Bear Bag Limit: Two black bears, either sex in ALL OPEN areas. Female bears accompanied by cubs may not be taken.							
** Number of black bear licenses issued in 2005 (W. Barney, pers. comm.)							

APPENDIX D

Demography Data Tables

Table D-1 Population, Study Area, 1986, 1991, 1996 and 2001

Census Area	1986	1991	1996	2001
01A	1,128	1,114	1,039	816
Long Harbour - Mount Arlington Heights	627	522	472	362
Southern Harbour	742	716	635	591
Arnold's Cove	1,117	1,106	1,115	1,024
Come By Chance	266	296	300	265
Sunnyside	634	622	621	477
Chance Cove	467	435	394	339
Norman's Cove - Long Cove	1,107	1,054	988	852
Chapel Arm	699	638	575	499
01B	639	681	493	450
Placentia	2,016	1,954	5,013	4,426
Dunville	1,833	1,688	-	-
Freshwater	1,219	1,037	-	-
Jerseyside	764	715	-	-
Fox Harbour	471	434	394	344
01X	560	545	526	511
Colinet	245	232	208	168
01Y	1,207	1,161	1,154	1,062
Whitbourne	1,151	1,036	988	930
Study Area Total	16,892	15,986	14,915	13,116
Province	568,349	568,474	551,792	512,930

Source: Statistics Canada, 1986; 1991; 1996; 2001

Table D-2 Population by Age and Sex, Study Area, 2001

Census Area	0-4		5-9		10-14		15-19		20-24		25-29		30-34	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
01A	15	5	15	15	30	30	15	25	30	20	20	10	15	25
Long Harbour - Mount Arlington Heights	5	5	5	10	10	20	5	5	10	10	5	5	5	5
Southern Harbour	10	20	20	15	20	20	20	20	20	25	10	15	20	20
Arnold's Cove	25	20	20	15	25	25	25	35	35	35	35	25	25	35
Come By Chance	10	5	10	5	10	5	10	15	10	5	5	5	10	15
Sunnyside	5	10	15	5	15	15	20	15	15	15	10	10	20	15
Chance Cove	5	5	5	5	20	10	10	10	10	15	5	5	10	10
Norman's Cove - Long Cove	15	15	25	25	40	30	15	25	25	25	5	20	15	25
Chapel Arm	10	15	10	15	15	15	5	20	10	10	15	15	5	20
01B	5	10	15	15	15	25	15	10	15	15	10	15	15	10
Placentia	85	90	130	110	180	175	110	120	130	120	105	85	110	120
Fox Harbour	10	5	10	10	20	10	10	10	10	10	10	10	10	10
01X	10	10	15	15	20	25	20	15	10	10	10	5	20	15
Colinet	0	5	5	0	5	5	5	0	5	5	5	0	5	0
01Y	20	25	30	30	35	35	35	35	25	35	25	25	35	35
Whitbourne	20	25	30	20	30	25	30	35	25	30	25	30	30	35
Study Area Total	250	270	360	310	490	470	350	395	385	385	300	280	350	395
<i>Province</i>	<i>12,705</i>	<i>12,110</i>	<i>14,975</i>	<i>14,065</i>	<i>17,870</i>	<i>17,045</i>	<i>17,135</i>	<i>18,905</i>	<i>16,720</i>	<i>17,150</i>	<i>14,640</i>	<i>15,885</i>	<i>17,135</i>	<i>18,905</i>

Source: Statistics Canada, 2001

Table D-2 Continued

Census Area	35-39		40-44		45-49		50-54		55-59		60-64		65-69	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
01A	25	30	35	45	50	40	40	30	35	35	25	20	20	20
Long Harbour - Mount Arlington Heights	5	10	25	25	25	15	15	15	15	10	5	5	5	5
Southern Harbour	30	25	20	25	30	25	30	20	15	10	15	15	10	10
Arnold's Cove	45	35	40	45	45	50	45	35	40	25	25	30	25	25
Come By Chance	15	15	15	10	10	5	10	10	10	10	10	5	5	5
Sunnyside	20	25	15	15	30	25	25	20	20	30	15	5	10	10
Chance Cove	15	10	20	15	15	15	15	20	20	10	10	10	5	5
Norman's Cove - Long Cove	35	35	35	40	45	30	35	35	35	30	25	15	10	15
Chapel Arm	25	15	20	25	25	15	25	20	15	15	5	15	10	5
01B	15	25	20	20	25	20	20	15	15	10	5	5	5	10
Placentia	120	160	195	210	195	190	180	195	125	135	120	115	85	95
Fox Harbour	10	10	20	15	10	15	15	15	10	15	10	5	5	0
01X	15	15	25	25	20	20	15	25	25	25	20	20	15	15
Colinet	5	10	5	5	5	10	5	10	15	10	10	5	5	5
01Y	40	45	55	40	45	60	55	55	40	40	25	20	15	25
Whitbourne	30	40	35	30	35	35	35	45	40	30	30	20	25	25
Study Area Total	450	505	580	590	610	570	565	565	475	440	355	310	255	275
<i>Province</i>	<i>19,995</i>	<i>21,730</i>	<i>21,200</i>	<i>22,275</i>	<i>21,330</i>	<i>21,955</i>	<i>19,805</i>	<i>19,890</i>	<i>15,055</i>	<i>15,105</i>	<i>11,470</i>	<i>11,410</i>	<i>9,465</i>	<i>9,690</i>

Source: Statistics Canada, 2001

Table D-2 Continued

Census Area	70-74		75-79		80-84		85+	
	M	F	M	F	M	F	M	F
01A	10	15	20	15	10	10	5	5
Long Harbour - Mount Arlington Heights	5	10	5	5	5	5	0	0
Southern Harbour	10	5	5	5	5	5	0	0
Arnold's Cove	15	20	15	25	10	20	5	10
Come By Chance	5	5	5	5	0	0	0	0
Sunnyside	5	10	5	5	5	5	5	5
Chance Cove	5	5	0	0	0	0	0	0
Norman's Cove - Long Cove	10	20	15	15	10	10	0	5
Chapel Arm	10	10	5	10	5	5	0	0
01B	5	10	5	5	5	5	0	5
Placentia	60	90	70	70	35	75	25	70
Fox Harbour	5	10	0	5	5	10	5	0
01X	10	5	5	5	0	5	0	0
Colinet	0	5	0	5	5	0	0	0
01Y	20	15	10	10	10	10	5	5
Whitbourne	15	15	15	15	5	15	5	5
Study Area Total	190	250	180	200	115	180	55	110
<i>Province</i>	<i>7,620</i>	<i>8,655</i>	<i>5,550</i>	<i>7,105</i>	<i>3,345</i>	<i>5,310</i>	<i>2,020</i>	<i>4,290</i>
Source: Statistics Canada, 2001								

Table D-3 Families and Households, Study Area, 1996 and 2001

Census Area	Families			Households		
	1991	1996	2001	1991	1996	2001
01A	290	285	290	310	325	305
Long Harbour - Mount Arlington Heights	135	125	110	155	155	140
Southern Harbour	175	160	165	190	180	185
Arnold's Cove	305	310	315	330	380	360
Come By Chance	90	85	80	85	95	90
Sunnyside	175	165	160	185	200	180
Chance Cove	125	135	115	125	135	125
Norman's Cove - Long Cove	285	310	250	300	300	285
Chapel Arm	165	155	140	185	185	190
01B	165	135	130	190	155	150
Placentia	490	1,355	1,305	600	1,675	1,620
Dunville	465	-	-	420	-	-
Freshwater	270	-	-	315	-	-
Jerseyside	175	-	-	210	-	-
Fox Harbour	110	95	110	135	125	125
01X	140	145	165	160	185	190
Colinet	55	-	-	70	70	-
01Y	315	345	345	350	390	395
Whitbourne	285	290	280	325	350	365
Study Area Total	4,215	4,095	3,960	4,740	4,905	4,705
<i>Province</i>	<i>150,715</i>	<i>155,750</i>	<i>154,380</i>	<i>174,495</i>	<i>185,500</i>	<i>189,040</i>
Source: Statistics Canada, 1991; 1996; 2001						

Table D-4 Births, Region, 1993 to 2001

Economic Zone	Births								
	1993	1994	1995	1996	1997	1998	1999	2000	2001
15	365	350	315	300	280	290	280	260	245
17	415	485	420	425	400	370	370	375	360
18	130	90	105	105	70	50	55	65	45
Region Total	910	925	840	830	750	710	705	700	650
Province	6,395	6,305	5,830	5,730	5,385	4,965	5,030	4,845	4,690

Source: Newfoundland and Labrador Statistics Agency/Community Accounts, 2006

Table D-5 Deaths, Region, 1993 to 2001

Economic Zone	Deaths								
	1993	1994	1995	1996	1997	1998	1999	2000	2001
15	290	270	250	255	295	295	255	295	250
17	385	390	420	355	400	395	405	420	365
18	65	55	95	75	85	80	75	85	80
Region Total	740	715	765	685	780	770	735	800	695
Province	3,875	4,055	3,920	3,915	4,280	4,230	4,115	4,315	4,145

Source: Newfoundland and Labrador Statistics Agency/Community Accounts, 2006

Table D-6 Single-parents, by gender, for 1986, 1991, 1996 and 2001

Census Area	Male				Female			
	1986	1991	1996	2001	1986	1991	1996	2001
01A	5	5	10	10	20	15	20	30
Long Harbour - Mount Arlington Heights	5	5	0	0	10	10	25	10
Southern Harbour	5	5	10	20	15	10	0	10
Arnold's Cove	5	5	10	0	35	25	40	15
Come By Chance	0	5	0	0	0	5	10	10
Sunnyside	5	5	0	0	5	10	10	10
Chance Cove	0	5	10	0	5	15	10	10
Norman's Cove - Long Cove	5	0	0	0	15	10	10	20
Chapel Arm	5	5	0	0	10	10	0	20
01B	5	0	0	0	10	15	0	20
Placentia	10	10	45	10	60	60	185	235
Dunville	10	10	-	-	40	45	-	-
Freshwater	10	5	-	-	65	40	-	-
Jerseyside	5	10	-	-	15	15	-	-
Fox Harbour	5	5	0	10	15	10	0	25
01X	0	5	0	0	10	10	0	10
Colinet	5	0	0	0	0	5	0	0
01Y	5	5	0	0	10	10	15	20
Whitbourne	10	15	20	10	15	25	15	10
Study Area Total	100	105	105	60	355	345	340	455
Province	3,190	3,290	3,245	4,115	12,640	14,530	17,235	18,935
Source: Statistics Canada, 1986; 1991; 1996; 2001								

Table D-7 Visible Minorities, Study Area. 2001

Census Area	Chinese	South Asian	Black	Filipino	Latin American	Southeast Asian	Arab	West Asian	Korean	Japanese	Visible Minority, n.i.e.*	Multiple visible minorities**
01A	0	0	0	0	0	0	0	0	0	0	0	0
Long Harbour - Mount Arlington Heights	0	0	0	0	0	0	0	0	0	0	0	0
Southern Harbour	0	0	0	0	0	0	0	0	0	0	0	0
Arnold's Cove	0	0	0	0	0	0	0	0	0	0	0	0
Come By Chance	0	0	0	0	0	0	0	0	0	0	0	0
Sunnyside	0	0	0	0	0	0	0	0	0	0	0	0
Chance Cove	0	0	0	0	0	0	0	0	0	0	0	0
Norman's Cove - Long Cove	0	0	0	0	0	0	0	0	0	0	0	0
Chapel Arm	0	0	0	0	0	0	0	0	0	0	0	0
01B	0	0	0	0	0	0	0	0	0	0	0	0
Placentia	15	20	15	0	0	0	0	0	0	0	0	0
Fox Harbour	0	0	0	0	0	0	0	0	0	0	0	0
01X	0	0	0	0	0	0	0	0	0	0	0	0
Colinet	0	0	0	0	0	0	0	0	0	0	0	0
01Y	0	0	0	0	0	0	0	0	0	0	0	0
Whitbourne	0	0	0	0	0	0	0	0	0	0	0	0
Study Area Total	15	20	15	0	0	0	0	0	0	0	0	0
Province	920	1,010	840	265	80	115	270	80	110	75	50	40
Source: Statistics Canada, 2001												
* Includes all census respondents who reported a write-in response classified as a visible minority such as "Polynesian", "Guyanese", "Mauritian", etc.												
** Includes all census respondents who reported more than one visible minority group by checking two or more boxes, e.g., checking both "Black" and "South Asian"												