



Muskrat Falls Project

Monthly Report

March 2016

May 17, 2016



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1.0 Monthly Report Overview

This report¹ provides the monthly update on the following projects associated with the Muskrat Falls development:

- the 824 megawatt (MW) hydroelectric development at Muskrat Falls (the Muskrat Falls hydroelectric generating facility);
- two 315 kilovolt (kV) High Voltage alternating current (HVac) transmission lines between Muskrat Falls and Churchill Falls (the Labrador Transmission Assets); and
- the 1,100 km long High Voltage direct current (HVdc) transmission line between Muskrat Falls and Soldiers Pond (the Labrador-Island Transmission Link).

The report includes details on construction and procurement activities, construction costs, safety and environmental activities, and details on stakeholder and community consultation and engagement initiatives during the reporting period. The report also provides detailed statistical tables summarizing employment and expenditure benefits generated from the Muskrat Falls development.

This report covers the activities for the month of March 2016. Construction work during this period took place on all major work components in Labrador and on the island, including the generation and transmission components of the project.

2.0 Highlights this Month

The Muskrat Falls Project is well advanced and work is progressing across the province. The following is a summary of some of the key construction highlights from the month:

- Continuation of concrete pouring and placement activities at the Muskrat Falls generation site.
- Continuation of right-of-way clearing and access road construction for the HVdc line.
- Completion of final pad placement for the transformer units at the Churchill Falls switchyard.
- Commencement of loading of the HVdc submarine cable installation equipment onto the cable laying vessel in Halden, Norway.

¹ This report is prepared by Lower Churchill Management Corporation (LCP), the Nalcor Energy subsidiary responsible for managing the construction of the Muskrat Falls hydroelectric generating facility, the Labrador Transmission Assets and the Labrador-Island Transmission Link.

3.0 Construction Update

3.1 Muskrat Falls Hydroelectric Generating Facility

The following outlines some of the construction activities completed at the Muskrat Falls site in March:

- Continuation of concrete pouring and placement activities.
- Continuation of formwork and rebar placement.
- Installation of tower crane at the rebar laydown area.



Upstream view of the spillway piers



Downstream view of the intake



Centre transition dam

3.2 Labrador Transmission Assets (LTA)

Construction activities for the High Voltage alternating current (HVac) transmission line by Valard Construction continued to progress during the period, with ongoing tower assembly, foundation assembly and installation, and tower erection. By the end of March, 100% of the foundations were installed; 1,260 towers were assembled (99.6%); 1,245 towers were erected (98%); and 444,915 metres of conductor (wire) stringing was completed (91%).

Work also progressed on LTA on a number of other fronts, including:

- Continuation of civil works activity for the HVac substations at Churchill Falls and Muskrat Falls.
- Completion of final pad placement for the transformer units at Churchill Falls.



A tower being erected on the transmission line between Muskrat Falls and Churchill Falls



Stringing conductor wire on the transmission line from Muskrat Falls to Churchill Falls

3.3 Labrador-Island Transmission Link (LIL)

Construction activities for the High Voltage direct current (HVdc) transmission line by Valard Construction continued to progress during the period with ongoing tower assembly, tower erection, foundation assembly and installation occurring in Labrador and on the Northern Peninsula. At the end of the month, 810 foundations were installed (41%); 866 towers were assembled (44%); 398 towers were erected (20%); and 82,014 metres of conductor (wire) stringing was completed (21%) on the HVdc transmission line.

In addition, work progressed on LIL on a number of other fronts, including:

- Right-of-way clearing and access road construction activity continued with approximately 4,787 hectares cleared to date, including the completion of 2,171 hectares in Labrador and 2,616 hectares on the island.
- Continuation of civil works activity for the Soldiers Pond Switchyard and Converter Stations at Soldiers Pond and Muskrat Falls.



Control building for the Soldiers Pond converter station
Stringing conductor wire on the transmission line from Muskrat Falls to Churchill Falls

4.0 Procurement

Detailed information on procurement activities during the month is provided in Section 11.2 of this report and includes listings of contracts awarded during the reporting period, as well as issued and upcoming requests for proposals. Appendix B lists the successful bidder(s) for all contract packages awarded since project sanction. Information about forecasted, issued and awarded contracts is also available on the project website at: www.muskratfalls.nalcorenergy.com/procurement/.

5.0 Construction Cost Summary

In September 2015, Nalcor provided an updated capital cost forecast for the Muskrat Falls Generation Facility, Labrador Transmission Assets and Labrador-Island Link components for the Muskrat Falls Project. The facilities capital cost for the project established in September 2015 is \$7.65 billion.

5.1 Incurred Cost Overview

Table 1 summarizes the incurred costs for the project for the month of March and for the project to date. Incurred costs refer to the value of work performed during the period regardless of it being paid during the current period or at some point in the future.

Table 1 - Incurred costs for Muskrat Falls Project to March 2016 (Costs in CAD (\$Thousands))*

Project Component	September 2015 Cost Estimate	Incurred Cost Current Month	Incurred Cost Project to Date
Muskrat Falls Hydroelectric Generating Facility	\$3,685,966	\$58,879	\$2,158,192
Labrador Transmission Assets	\$877,557	\$10,061	\$638,681
Labrador-Island Transmission Link	\$3,089,378	\$52,134	\$1,551,032
Total	\$7,652,901	\$121,074	\$4,347,905

* Value excludes interest during construction and capitalized financing costs

5.2 Monthly Expenditure Overview

- Total expenditures paid for the Muskrat Falls Project were over \$146 million in March 2016. This included nearly \$35 million to Newfoundland and Labrador businesses.
- From March 2013 to the end of the reporting period in March 2016, over \$1.26 billion has been spent with Newfoundland and Labrador-based companies.

Detailed expenditure information is provided in Section 11.1 of this report.

6.0 Safety and Environment

6.1 Safety

LCP and all contractors working on the Muskrat Falls Project have a relentless commitment to the safety of workers and the public. The following table outlines the Health and Safety indicators and measurements for the month of March and for the project to date.

Indicator	March 2016	Project to Date
Orientations completed	782	26,408
Safety Step Backs completed	20,969	725,012
Work site inspections	507	26,550
Lost-time injuries	0	10
Medical aid incidents	3	69

6.2 Environment

On March 22, 2016, LCP environmental staff attended a workshop organized by the Department of Environment and Conservation to discuss new research regarding methyl mercury creation in estuarine environments and the LCP Human Health Risk Assessment Plan and Aquatic Environmental Effects Monitoring Plan in relation to the new research. The workshop brought together experts in a number of applicable disciplines including fish and fish habitat, human health, environmental health, toxicology, environmental assessment, and mercury cycling and bioaccumulation. The workshop allowed for implementation of key concepts of environmental assessment and environmental effects monitoring, specifically for stakeholder engagement and adaptive management.

The workshop involved discussing the appropriateness of scope regarding the LCP Aquatic Environmental Effects Monitoring Plan in light of new research published in 2015. Constructive discussion of the current protocol, in addition to recommendations made by the Department of Fisheries and Oceans in their recent Canadian Science Advisory Secretariat review, has both confirmed the validity of the current program and identified some adaptive management opportunities. The opportunities for improvement include the addition of a sampling location in Lake Melville and the presentation of additional data in annual reports.

The scope of the LCP Human Health Risk Assessment Plan was also discussed. A comprehensive baseline study has been conducted to understand the baseline level of methyl mercury in the people who live near the project. LCP conducted a dietary survey and human hair sampling program in the project area in fall 2014 and winter 2015. The data collected from this survey provided both an appropriate target sample size and invaluable information regarding the eating habits and baseline mercury levels of residents in Happy Valley-Goose Bay, Sheshatshiu, Northwest River, Mud Lake, and Churchill Falls.

The discussion at the workshop, in addition to comments from stakeholders, will inform the Government of Newfoundland and Labrador in their consideration of the impacts of methyl mercury in the environment.

7.0 Employment, Benefits and Community Engagement

This section provides information on employment benefits generated during the month as well as details on some of the community consultation and engagement activities undertaken during the month. Some of these activities are part of commitments made by LCP through the Benefits Strategy with the provincial government, the Impacts and Benefits Agreement (IBA) with Innu Nation, the Gender Equity and Diversity Program, in addition to provincial and federal environmental regulatory commitments.

7.1 Employment Highlights

Following is the employment information for the projects in March 2016. Detailed employment information and statistics are outlined in Section 10.

- In March, over 564,000 hours were worked by 3,812 individuals on the projects, including over 436,000 hours of work in Labrador.
- During the month of March, 3,126 residents of Newfoundland and Labrador were employed on the projects, representing 82 per cent of the total persons employed.
- In March, there were 2,934 people working in Labrador, of whom 784 were Labrador residents (approximately 27 per cent). Of these 784 Labrador residents, 322 self-identified as a member of a Labrador Aboriginal group (about 41 per cent).

7.2 Recruitment Activities

Employers continue to utilize musktratfallsjobs.com as a tool to find qualified residents of the province to fill available positions. To date there are more than 35,000 registered users, including over 25,000 residents of Newfoundland and Labrador.

This website has been updated to reflect current trade requirements required by various contractors for the project. The website also details current opportunities with the LCP Project Delivery Team.

7.2.1 Workplace Orientation

To foster a safe and respectful workplace, all workers complete mandatory training in site safety rules and procedures, respectful workplace protocols, and gender and cultural awareness. In March 328 workers completed Innu Cultural Awareness training. A total of 11,858 workers have completed this training to date.

7.2.2 Labrador Aboriginal Training Partnership (LATP) Support

Eight LATP clients graduated from the nine-month Powerline Technician pre-apprenticeship training program at the College of the North Atlantic campus in Happy Valley-Goose Bay.

LATP continued to provide Aboriginal clients with safety certifications, as well as general employment supports.

7.3 Gender Equity and Diversity

7.3.1 Employment of Women and Apprenticeships

In March, 465 women were working on all project components, comprising about 12 per cent of the total workforce. Of these, 217 were working in construction, 16 in engineering, 113 in project management, and 119 in project support. Of the 465 women working on the project, 432 of these women are Newfoundland and Labrador residents.

7.3.2 Promoting Women in Trades

LCP continued to work with Women in Resource Development Corporation (WRDC) and the Office to Advance Women Apprentices, as both agencies continue to provide practical support to women in the province who wish to pursue employment in the construction sector.

7.3.3 Aboriginal Diversity

Nalcor's Innu Employment and Training Coordinator (IETC) participated in the Overcoming Challenges workshop organized by the Atlantic Aboriginal Economic Development Integrated Research Program (AAEDIRP) and the College of the North Atlantic. The session focused on partnerships with post-secondary institutions and within industry to facilitate students' transition into the workforce.

7.4 Labrador Innu Initiatives

7.4.1 Impacts and Benefits Agreement (IBA) Implementation Activities

One hundred and forty Innu were employed in March at Muskrat Falls and transmission line sites in Labrador. Innu workers were working in a wide range of occupations, including construction trades, labourers, camp accommodations and food services. The Innu workforce included persons occupying management, apprenticeship, foreperson and shop steward positions.

The joint Nalcor-Innu Nation Environmental Management Committee (EMC) met on March 8 and discussed a number of items, including: historic resources, methyl mercury presentation, emergency preparedness plan, project construction activities, and planning for the EMC annual community AGM.

Nalcor's Innu Employment and Training Coordinators participated in the annual career day at the Sheshatshiu Innu School. They made a presentation on the permanent operations jobs which will become available once Muskrat Falls construction is complete. Students were informed about the post-secondary education requirements for these positions, as well as provided with the opportunity to apply for an IBA scholarship.

In support of a positive work environment, a total of 13 Innu workers completed the first Innu supervisory course.

7.5 Community Engagement

7.5.1 Public Inquiries

LCP has established multiple venues for members of the public to ask questions, seek employment information, and get details about the Muskrat Falls development. LCP has a website for people to apply for jobs (muskratfallsjobs.com) as well as a website that provides information on project construction

activities (muskratfalls.nalcoreenergy.com). In addition, people can contact LCP through the toll-free number or email or by visiting the project office in Happy Valley-Goose Bay.

7.5.2 Community Presentations

On March 10, 2016, members of the LCP team along with representatives from Valard Construction and the International Brotherhood of Electrical Workers (IBEW) hosted a public information session in Hawke's Bay to share information about construction activity in the region and employment opportunities associated with the work. Approximately 160 people from communities along the Northern Peninsula attended.

Gilbert Bennett, Vice President of the Lower Churchill Project, also provided a project update to Qalipu membership at the Mawio'mi Business Forum in Corner Brook on March 10, 2016.

7.6 Community Investment

LCP is committed to giving back to the communities in which it operates and where its workers live. As part of the corporate community investment program, LCP makes investments in Newfoundland and Labrador to help ensure organizations and events remain vibrant and have a positive impact on the community overall.

One of LCP's major community sponsorships this year was the Labrador Winter Games. In March, LCP was a platinum sponsor of the games and several staff volunteered at various events.

8.0 Definitions

Term	Definition
Benefits Strategy	Lower Churchill Construction Project Benefits Strategy as agreed by the Province of Newfoundland and Labrador and LCP.
Expenditures	Expenditures for the month are defined as those expenditures from invoices which have been approved for payment during the month.
Incurred Costs	Value of work performed during the period (month) regardless of it being paid during the current period or at some point in the future.
Industry Category	Based on the North American Industry Classification System (NAICS) and used to categorize companies for expenditure reporting.
Island or NF	Refers to the residency of employees, the location of work completed or the location of a company; includes residents from, work done on or companies located on the island portion of NL.
NOC Code	Occupational codes from the National Occupational Classification system, which is the standard system for classifying jobs in Canada. It is a hierarchical structure with four levels of classifications. Both the 2-digit and 4-digit classifications are used in this report.
Person Hours	Hours worked by individuals on the project.
Persons Employed	Any person who has worked at any time on the Project during the time period referenced.
Project to Date	Cumulative totals for the period from March 1, 2013 up to the end of the current month.
Residents	Residents of Newfoundland and Labrador who meet the requirements as defined in the Benefits Strategy.

9.0 Abbreviations and Acronyms

Abbreviation/Acronym	Definition
AES	Advanced Education and Skills
BMRS	Benefits Monitoring and Reporting System
C&A	Construction and Assembly
CEC	Conduit End Connection
CLC	Community Liaison Committee
CNA	College of the North Atlantic
CTD	Centre Transition Dam
DG3	Decision gate 3
E&D	Engineering and Design
EMC	Environmental Management Committee
EMS	Environmental Management System
ERC	Environment and Regulatory Compliance
FAT	Factory Acceptance Testing
GIS	Geographical Information System
HDD	Horizontal Directional Drilling
HVac	High voltage AC transmission
HVdc	High voltage DC transmission
IBA	Impacts and Benefits Agreement
ICS	Integrated Cover Structure
INT	International (Location of Work or Company)
kV	Kilovolt
LATP	Labrador-Aboriginal Training Partnership
LCP	Lower Churchill Project
LHAFA	Labrador Hunting and Fishing Association
LITL	Labrador-Island Transmission Link
LTA	Labrador Transmission Assets
MFG	Muskrat Falls Hydroelectric Generation Facility
MW	Megawatt
NLOWE	Newfoundland and Labrador Organization of Women Entrepreneurs
OAWA	Office to Advance Women Apprentices
OC	Other Canada
OSEM	On-site Environmental Monitor
PM	Project Management
Res	Residents of Newfoundland and Labrador
RFP	Request for Proposal
ROW	Right of Way
SOBI	Strait of Belle Isle
WRDC	Women in Resource Development Corporation

10.0 Employment Benefits

All information on employment is provided by both person hours and the number of persons employed for the following categories:

- Total employment
- Employment by NOC Code
- Employment by Location of Work
- Employment by Aboriginal Affiliation
- Employment by Gender

10.1 Total Employment

Tables 2 through 4 break out the project employment in both person hours and persons employed by location of work and residency.

Table 2 - Person Hours of Employment by Location of Work and Residency – March 2016

	Residency								Total
	Island		Labrador		Other Canada		Non-Canadian		
Work Location	at Location	% of Total	at Location	% of Total	at Location	% of Total	at Location	% of Total	
Island	98,154	78.4%	3,135	2.5%	22,052	17.6%	1,777	1.4%	125,118
Labrador	235,868	54.1%	103,870	23.8%	89,612	20.5%	7,036	1.6%	436,386
Other Canada	-	0.0%	-	0.0%	2,298	93.3%	165	6.7%	2,463
International	-	0.0%	-	0.0%	144	20.0%	576	80.0%	720
Total	334,022	59.2%	107,005	18.9%	114,105	20.2%	9,554	1.7%	564,687

Table 3 - Person Hours of Employment by Location of Work and Residency – Project to Date

	Residency								Total
	Island		Labrador		Other Canada		Non-Canadian		
Work Location	at Location	% of Total	at Location	% of Total	at Location	% of Total	at Location	% of Total	
Island	2,513,300	76.6%	96,165	2.9%	607,970	18.5%	61,592	1.9%	3,279,027
Labrador	7,635,215	51.8%	4,568,636	31.0%	2,384,117	16.2%	164,159	1.1%	14,752,126
Other Canada	3,351	1.7%	-	0.0%	183,564	95.3%	5,633	2.9%	192,547
International	-	0.0%	-	0.0%	3,043	14.0%	18,661	86.0%	21,704
Total	10,151,865	55.6%	4,664,801	25.6%	3,178,693	17.4%	250,045	1.4%	18,245,404

Table 4 - Number of Persons Employed by Location of Work and Residency – March 2016

	Residency								Total
	Island		Labrador		Other Canada		Non-Canadian		
Work Location	at Location	% of Total	at Location	% of Total	at Location	% of Total	at Location	% of Total	
Island	690	81.9%	19	2.3%	122	14.5%	12	1.4%	843
Labrador	1,633	55.7%	784	26.7%	479	16.3%	38	1.3%	2,934
Other Canada	-	0.0%	-	0.0%	27	96.4%	1	3.6%	28
International	-	0.0%	-	0.0%	1	14.3%	6	85.7%	7
Total	2,323	60.9%	803	21.1%	629	16.5%	57	1.5%	3,812

10.2 Employment by NOC Code

Tables 5 and 6 summarize project employment by 2-digit NOC Code. Appendix A contains an overview of the methodology used to capture employment by job title and how that information is converted to NOC codes. In addition, occupational information by 4-digit NOC code as well as information on employment by NOC code and gender, Aboriginal affiliation and for residents of Labrador is also provided in Appendix A.

Table 5 - Person Hours of Employment by 2-Digit NOC Code – March 2016 and Project to Date

2-Digit NOC Code	Current Month				Project to Date			
	C&A	E&D	PM	Total	C&A	E&D	PM	Total
00 - Senior management occupations	1,877	-	622	2,499	58,336	8,004	27,516	93,856
01-05 - Specialized middle management occupations	7,011	1,020	6,184	14,214	261,980	86,469	220,384	568,833
07-09 - Middle management occupations in trades, transportation, production and utilities	12,040	-	4,597	16,637	229,721	12,249	101,733	343,703
11 - Professional occupations in business and finance	3,180	192	4,710	8,082	94,258	18,300	137,751	250,308
12 - Administrative and financial supervisors and administrative occupations	8,695	2,076	9,858	20,629	271,752	144,266	301,875	717,892
13 - Finance, insurance and related business administrative occupations	543	181	2,005	2,729	24,191	10,830	66,767	101,787
14 - Office support occupations	4,537	-	-	4,537	161,296	72	2,137	163,505
21 - Professional occupations in natural and applied sciences	28,325	9,169	24,356	61,849	765,563	473,215	662,909	1,901,687
22 - Technical occupations related to natural and applied sciences	18,073	4,532	10,112	32,717	518,043	276,925	253,816	1,048,784
32 - Technical occupations in health	5,262	-	-	5,262	130,232	-	2,212	132,444
41 - Professional occupations in law and social, community and government services	1,985	1,733	2,872	6,590	126,604	67,666	76,598	270,867
43 - Occupations in front-line public protection services	42	-	-	42	2,584	-	321	2,905
63 - Service supervisors and specialized service occupations	3,200	-	-	3,200	128,124	-	6,224	134,347
65 - Service representatives and other customer and personal services occupations	5,819	210	-	6,029	262,232	6,052	6,556	274,840
67 - Service support and other service occupations, n.e.c.	18,011	-	-	18,011	663,374	-	4,112	667,486
72 - Industrial, electrical and construction trades	137,063	230	1,063	138,356	4,201,402	4,563	95,328	4,301,293
73 - Maintenance and equipment operation trades	30,077	-	233	30,310	1,084,805	1,984	10,047	1,096,836
74 - Other installers, repairers and servicers and material handlers	3,835	-	647	4,482	109,328	48	15,296	124,673
75 - Transport and heavy equipment operation and related maintenance occupations	80,266	-	887	81,152	2,786,062	1,363	53,586	2,841,010
76 - Trades helpers, construction labourers and related occupations	91,918	-	443	92,361	2,651,170	3,373	41,324	2,695,867
82 - Supervisors and technical occupations in natural resources, agriculture and related production	13,193	-	-	13,193	431,558	-	6,481	438,039
86 - Harvesting, landscaping and natural resources labourers	1,218	-	145	1,363	57,128	60	3,973	61,161
92 - Processing, manufacturing and utilities supervisors and central control operators	447	-	-	447	13,186	-	97	13,282
All Occupation Categories	476,614	19,342	68,730	564,687	15,032,927	1,115,437	2,097,039	18,245,403

Table 6 – Residents Hired by 2-Digit NOC Code – March 2016

2-Digit NOC	C&A			E&D			PM			Total		
	Res	Total Persons	Res as % of Total	Res	Total Persons	Res as % of Total	Res	Total Persons	Res as % of Total	Res	Total Persons	Res as % of Total
00 - Senior management occupations	3	12	25%	-	-	0%	7	7	100%	10	19	53%
01-05 - Specialized middle management occupations	30	48	63%	2	6	33%	32	43	74%	64	97	66%
07-09 - Middle management occupations in trades, transportation, production and utilities	33	62	53%	-	-	0%	13	28	46%	46	90	51%
11 - Professional occupations in business and finance	17	23	74%	1	1	100%	33	35	94%	51	59	86%
12 - Administrative and financial supervisors and administrative occupations	30	53	57%	10	13	77%	52	64	81%	92	130	71%
13 - Finance, insurance and related business administrative occupations	3	4	75%	1	1	100%	15	15	100%	19	20	95%
14 - Office support occupations	30	30	100%	-	-	0%	-	-	0%	30	30	100%
21 - Professional occupations in natural and applied sciences	106	183	58%	16	56	29%	158	178	89%	280	417	67%
22 - Technical occupations related to natural and applied sciences	69	111	62%	20	33	61%	67	76	88%	156	220	71%
32 - Technical occupations in health	32	32	100%	-	-	0%	-	-	0%	32	32	100%
41 - Professional occupations in law and social, community and government services	11	18	61%	5	8	63%	22	23	96%	38	49	78%
43 - Occupations in front-line public protection services	2	2	100%	-	-	0%	-	-	0%	2	2	100%
63 - Service supervisors and specialized service occupations	17	18	94%	-	-	0%	-	-	0%	17	18	94%
65 - Service representatives and other customer and personal services occupations	44	47	94%	1	1	100%	-	-	0%	45	48	94%
67 - Service support and other service occupations, n.e.c.	148	148	100%	-	-	0%	-	-	0%	148	148	100%
72 - Industrial, electrical and construction trades	857	986	87%	1	1	100%	16	20	80%	874	1,007	87%
73 - Maintenance and equipment operation trades	128	185	69%	-	-	0%	-	1	0%	128	186	69%
74 - Other installers, repairers and servicers and material handlers	24	28	86%	-	-	0%	4	4	100%	28	32	88%
75 - Transport and heavy equipment operation and related maintenance occupations	416	485	86%	-	-	0%	6	6	100%	422	491	86%
76 - Trades helpers, construction labourers and related occupations	546	616	89%	-	-	0%	4	4	100%	550	620	89%
82 - Supervisors and technical occupations in natural resources, agriculture and related production	84	86	98%	-	-	0%	-	-	0%	84	86	98%
86 - Harvesting, landscaping and natural resources labourers	6	7	86%	-	-	0%	1	1	100%	7	8	88%
92 - Processing, manufacturing and utilities supervisors and central control operators	3	3	100%	-	-	0%	-	-	0%	3	3	100%
All Occupation Categories	2,639	3,187	83%	57	120	48%	430	505	85%	3,126	3,812	82%

10.3 Employment by Location of Work

Tables 7 and 8 summarize employment by location of work.

Table 7 - Person Hours of Employment by Location of Work – March 2016 and Project to Date

Work Location	Current Period				Project to Date			
	C&A	E&D	PM	Total	C&A	E&D	PM	Total
NL								
Island	70,070	13,431	41,618	125,118	1,208,444	788,311	1,282,271	3,279,027
Labrador	404,893	4,854	26,639	436,386	13,730,890	222,305	799,152	14,752,347
Total NL	474,963	18,285	68,256	561,504	14,939,335	1,010,617	2,081,423	18,031,374
Other Canada	1,212	1,057	194	2,463	79,975	104,711	7,640	192,326
Total Canada	476,174	19,342	68,450	563,967	15,019,310	1,115,327	2,089,063	18,223,700
International	440	-	280	720	13,618	109	7,977	21,704
All Locations	476,614	19,342	68,730	564,687	15,032,928	1,115,436	2,097,040	18,245,404

Table 8 – Residents Hired by Location of Work – March 2016

Work Location	C&A			E&D			PM			Total		
	Res	Total Persons	Res as % of Total	Res	Total Persons	Res as % of Total	Res	Total Persons	Res as % of Total	Res	Total Persons	Res as % of Total
NL												
Island	357	426	84%	40	81	49%	312	336	93%	709	843	84%
Labrador	2,282	2,744	83%	17	24	71%	118	166	71%	2,417	2,934	82%
Total NL	2,639	3,170	83%	57	105	54%	430	502	86%	3,126	3,777	83%
Other Canada	-	12	0%	-	15	0%	-	1	0%	-	28	0%
Total Canada	2,639	3,182	83%	57	120	48%	430	503	85%	3,126	3,805	82%
International	-	5	0%	-	-	0%	-	2	0%	-	7	0%
Total	2,639	3,187	83%	57	120	48%	430	505	85%	3,126	3,812	82%

10.4 Employment by Aboriginal Affiliation

Tables 9 through 13 summarize employment by Aboriginal Affiliation.

Table 9 - Person Hours of Employment by Aboriginal Affiliation – March 2016 and Project to Date

Aboriginal Group	Current Period				Project to Date			
	C&A	E&D	PM	Total	C&A	E&D	PM	Total
Labrador Innu ^(a)	15,401	-	363	15,764	728,398	-	12,485	740,882
Nunatsiavut ^(a)	10,139	220	466	10,825	493,565	18,332	17,988	529,885
NunatuKavut ^(a)	14,717	180	541	15,438	574,488	6,945	19,376	600,809
Other NL Aboriginal ^(a)	6,967	-	578	7,545	225,820	-	9,997	235,817
Aboriginal - Other Canada	4,527	-	-	4,527	103,070	-	2,362	105,432
Non-Aboriginal ^(b)	424,864	18,942	66,782	510,588	12,980,890	1,090,411	1,961,277	16,032,577
All Groups	476,614	19,342	68,730	564,687	15,106,232	1,115,688	2,023,483	18,245,403

^(a) Also NL residents

^(b) Includes residents and non-residents

Table 10 – Persons Employed by Aboriginal Affiliation – March 2016

Aboriginal Group	C&A		E&D		PM		Total	
	Persons	%	Persons	%	Persons	%	Persons	%
Residents								
Labrador Innu	138	5.2%	-	0.0%	2	0.5%	140	4.5%
Nunatsiavut	78	3.0%	1	1.8%	3	0.7%	82	2.6%
NunatuKavut	106	4.0%	1	1.8%	3	0.7%	110	3.5%
Other Aboriginal	49	1.9%	-	0.0%	3	0.7%	52	1.7%
All Aboriginal	371	14.1%	2	3.5%	11	2.6%	384	12.3%
Non-Aboriginal	2,268	85.9%	55	96.5%	419	97.4%	2,742	87.7%
Total	2,639	100%	57	100%	430	100%	3,126	100%
Non Residents								
Aboriginal – Canada	27	4.9%	-	0.0%	-	0.0%	27	3.9%
Non-Aboriginal	521	95.1%	63	100.0%	75	100.0%	659	96.1%
Total	548	100%	63	100%	75	100%	686	100%
Summary								
Aboriginal	398	12.5%	2	1.7%	11	2.2%	411	10.8%
Non-Aboriginal	2,789	87.5%	118	98.3%	494	97.8%	3,401	89.2%
Total	3,187	100%	120	100%	505	100%	3,812	100%

Tables 11 through 13 summarize the employment of Aboriginal people and non-Aboriginal people both in terms of hours worked and persons employed by location of work during the month and for the Project to Date.

Table 11 - Person Hours of Employment by Location of Work and Aboriginal Affiliation- March 2016

Work Location	Labrador Innu		NunatuKavut		Nunatsiavut		Other Aboriginal		Non-Aboriginal		Total
	At Location	%	At Location	%	At Location	%	At Location	%	At Location	%	
Island	-	0.0%	1,630	1.3%	157	0.1%	1,129	0.9%	122,204	97.7%	125,118
Labrador	15,764	3.6%	13,808	3.2%	10,669	2.4%	10,943	2.5%	385,202	88.3%	436,386
Other Canada	-	0.0%	-	0.0%	-	0.0%	-	0.0%	2,463	100.0%	2,463
International	-	0.0%	-	0.0%	-	0.0%	-	0.0%	720	100.0%	720
All Locations	15,764	2.8%	15,438	2.7%	10,825	1.9%	12,072	2.1%	510,588	90.4%	564,687

Table 12 - Person Hours of Employment by Location of Work and Aboriginal Affiliation- Project to Date

Work Location	Labrador Innu		NunatuKavut		Nunatsiavut		Other Aboriginal		Non-Aboriginal		Total
	At Location	%	At Location	%	At Location	%	At Location	%	At Location	%	
Island	118	0.0%	34,600	1.1%	6,842	0.2%	33,853	1.0%	3,203,613	97.7%	3,279,027
Labrador	740,764	5.0%	566,209	3.8%	523,043	3.5%	307,383	2.1%	12,614,727	85.5%	14,752,126
Other Canada	-	0.0%	-	0.0%	-	0.0%	13	0.0%	192,534	100.0%	192,547
International	-	0.0%	-	0.0%	-	0.0%	-	0.0%	21,704	100.0%	21,704
All Locations	740,882	4.1%	600,809	3.3%	529,885	2.9%	341,249	1.9%	16,032,578	87.9%	18,245,404

Table 13 – Number of Persons Employed by Location of Work and Aboriginal Affiliation- March 2016

Work Location	Labrador Innu		NunatuKavut		Nunatsiavut		Other Aboriginal		Non-Aboriginal		Total
	At Location	%	At Location	%	At Location	%	At Location	%	At Location	%	
Island	-	0.0%	9	1.1%	1	0.1%	8	0.9%	825	97.9%	843
Labrador	140	4.8%	101	3.4%	81	2.8%	71	2.4%	2,541	86.6%	2,934
Other Canada	-	0.0%	-	0.0%	-	0.0%	-	0.0%	28	100.0%	28
International	-	0.0%	-	0.0%	-	0.0%	-	0.0%	7	100.0%	7
All Locations	140	3.7%	110	2.9%	82	2.2%	79	2.1%	3,401	89.2%	3,812

10.5 Employment by Gender

Tables 14 and 15 summarize employment by gender.

Table 14 - Person Hours of Employment by Gender – March 2016 and Project to Date

Gender	Current Period				Project to Date			
	C&A	E&D	PM	Total	C&A	E&D	PM	Total
Female	43,348	2,443	14,763	60,554	1,615,046	171,601	460,446	2,247,094
Male	433,266	16,899	53,967	504,132	13,491,186	944,087	1,563,037	15,998,310
Total	476,614	19,342	68,730	564,687	15,106,232	1,115,688	2,023,483	18,245,403

Table 15 – Persons Employed by Gender – March 2016

Gender	C&A		E&D		PM		Total	
	Persons	%	Persons	%	Persons	%	Persons	%
Residents								
Female	308	11.7%	14	24.6%	110	25.6%	432	13.8%
Male	2,331	88.3%	43	75.4%	320	74.4%	2,694	86.2%
Total	2,639	100%	57	100%	430	100%	3,126	100%
Non Residents								
Female	28	5.1%	2	3.2%	3	4.0%	33	4.8%
Male	520	94.9%	61	96.8%	72	96.0%	653	95.2%
Total	548	100%	63	100%	75	100%	686	100%
Summary								
Female	336	10.5%	16	13.3%	113	22.4%	465	12.2%
Male	2,851	89.5%	104	86.7%	392	77.6%	3,347	87.8%
Total	3,187	100%	120	100%	505	100%	3,812	100%

11.0 Expenditures and Procurement

Expenditures are captured through direct enter of expenditure breakdowns by contractors which enter directly into the benefits system. For all other contractors, a listing of payments approved during the month from the project's financial accounting system is used. In all cases, expenditure totals are those that are approved for payment during the month.

11.1 Expenditures by Location of Company and Industry Category

Table 16 below summarizes the project expenditures made during March 2016 by industry and company location.

Table 16 – Total Value of Expenditures by Location of Company and Industry Category (\$CDN) - March 2016

Industry	Labrador	Newfoundland	Other Canada	Non-Canadian	Totals
Accommodation and Food Services	2,900	2,751,477	752	-	2,755,129
Administrative and Support, Waste Management and Remediation Services	12,028	2,499	-	-	14,527
Agriculture, Forestry, Fishing and Hunting	-	2,243,487	-	-	2,243,487
Arts, Entertainment and Recreation	1,050	-	-	-	1,050
Construction	6,902,594	14,597,411	71,924,072	70,933	93,495,010
Educational Services	-	-	276,725	-	276,725
Finance and Insurance	-	13,522	1,353	149,580	164,456
Health Care and Social Assistance	-	2,622	-	-	2,622
Information and Cultural Industries	-	16,657	42,184	-	58,840
Management of Companies and Enterprises	-	-	-	-	-
Manufacturing	-	2,412	28,431,546	4,057,494	32,491,452
Mining, Quarrying, and Oil and Gas Extraction	-	-	-	-	-
Other Services, Including Maintenance and Repair	5,561	1,236,002	6,085	-	1,247,648
Professional, Scientific and Technical Services	27,684	4,051,984	3,346,261	365,894	7,791,822
Public Administration	411,539	4,860	-	-	416,399
Real Estate, Rental and Leasing	-	5,821	-	-	5,821
Retail Trade	4,862	231,186	14,413	-	250,460
Transportation and Warehousing	294,353	207,975	3,142,400	-	3,644,728
Utilities	-	1,443,578	60,622	-	1,504,200
Wholesale Trade	1,750	94,664	23,037	159,394	278,846
Grand Total	7,664,320	26,906,156	107,269,449	4,803,296	146,643,220

Table 17 below summarizes the project expenditures made for the Project to Date by industry and company location.

Table 17 – Total Value of Expenditures by Location of Company and Industry Category (\$CDN) – Project to Date

Industry	Labrador	Newfoundland	Other Canada	Non-Canadian	Totals
Accommodation and Food Services	1,653,087	90,027,536	7,300,047	7,898	98,988,568
Administrative and Support, Waste Management and Remediation Services	664,665	10,568,849	273,909	-	11,507,422
Agriculture, Forestry, Fishing and Hunting	15,240	44,666,396	3,284,195	-	47,965,832
Arts, Entertainment and Recreation	121,574	41,197	6,203	22,611	191,586
Construction	211,416,582	495,917,306	1,270,967,156	29,770,340	2,008,071,383
Educational Services	139,474	353,696	3,930,425	15,580	4,439,175
Finance and Insurance	193,142	25,086,567	28,622,426	2,087,992	55,990,127
Health Care and Social Assistance	4,000	4,133,304	11,910	-	4,149,214
Information and Cultural Industries	44,921	889,295	2,031,765	723,609	3,689,590
Management of Companies and Enterprises	-	-	-	-	-
Manufacturing	7,569,544	17,915,413	366,023,001	152,819,769	544,327,726
Mining, Quarrying, and Oil and Gas Extraction	9,000	1,410,746	24,147,562	1,200	25,568,508
Other Services, Including Maintenance and Repair	890,966	45,175,319	5,944,310	278,222	52,288,817
Professional, Scientific and Technical Services	5,567,609	149,689,595	278,483,546	11,953,287	445,694,037
Public Administration	12,949,401	2,594,856	1,447,299	1,330	16,992,886
Real Estate, Rental and Leasing	346,376	522,826	23,908	-	893,110
Retail Trade	1,105,736	8,482,855	464,681	9,966	10,063,239
Transportation and Warehousing	12,199,635	20,650,729	41,467,890	411,056	74,729,311
Utilities	734,642	81,477,581	6,534,373	5,188	88,751,784
Wholesale Trade	5,232,359	2,411,988	2,072,529	16,077,076	25,793,952
Totals	260,857,953	1,002,016,055	2,043,037,134	214,185,123	3,520,096,265

11.2 Procurement

Tables 18 and 19 provide details on procurement activities for all components of the Muskrat Falls Project. Table 18 lists the contracts awarded during March. Appendix B contains a list of all contracts awarded to date since Project Sanction.

Table 18 – Contracts Awarded During March, 2016

Package #	Package Title	Award Date	Successful Bidder(s)
CD0501-004	Transition Compounds – Civil Works	2-Mar-16	Pennecon Heavy Civil Limited
CD0501-001	Supply and Install Permanent Communication Systems, Optical Transport Network (OTN)	21-Mar-16	Bell Aliant Regional Communications, L.P.

Table 19 lists the contract packages for which the RFPs have been issued but the packages have yet to be awarded as of March, 2016.

Table 19 – Request for Proposals Issued

Package #	Package Title	RFP Issue Status	Qualified Bidders
CH0031	Supply and Install of Mechanical & Electrical Auxiliaries (MF)	Issued	Black & McDonald Limited Cahill-Ganotec Joint Venture Groupe Plombaction Inc. Joint Venture Aecon Industrial, a Division of Aecon Group Inc. Pennecon Energy Ltd. Andritz Hydro Canada Inc.
CH0049-003	Fabrication and Supply of Debris, Ice, Safety Boom	Issued	Griffin Engineered Systems / Solutions Cahill Fabrication Cherubini DFB Fabrication RothLochston Pennecon Energy M&M Offshore Ltd. Burse Manufacturing Inc.
CH0049-004	Installation of Debris, Ice, Safety Boom	Issued	Johnson's Construction Ltd. M. Sullivan & Son Limited Pennecon Heavy Civil Limited SPG Hydro International Inc
CT0327-024	350 kV HVdc Long Range Mountains (LRM)-Access and Clearing	Issued	C&T Enterprises Ltd. Johnson's Construction Ltd. Mike Kelly & Sons Ltd. Pennecon Heavy Civil Springdale Forest Resources Inc. H.J. O'Connell Construction Ltd. Dexter Construction
CT0327-051	ROW Clearing – Blocks 17 & 18	Issued	Asplundh Tree Service Inc. C&T Enterprises Ltd. Johnson's Construction Ltd. Major's Logging Limited Springdale Forest Resources Inc.

Table 20 lists the upcoming RFPs that are expected to be issued.

Table 20 – Upcoming Request for Proposals (RFPs)

Package #	Package Title	Forecasted Bidder Selection Start	Forecasted RFP Issue Date
CH0029	Construction of Site restoration at Muskrat Falls	Q1' 2017	Q2' 2017
SD0536	Provision of Integrated Commissioning Support Services	Q3' 2016	Q4' 2016

Appendix A – Employment by 4-Digit NOC Code

Table 21 – Person Hours of Employment by 4-Digit NOC Code

4-Digit NOC Code	Current Month				Project to Date			
	C&A	E&D	PM	Total	C&A	E&D	PM	Total
0016 - Senior Managers - Goods Production, Utilities, Transportation and Construction	1,877	-	622	2,499	58,336	8,004	27,516	93,856
0111 - Financial Managers	-	-	338	338	3,457	-	12,666	16,123
0112 - Human Resources Managers	2,978	184	895	4,056	119,362	11,610	29,816	160,788
0113 - Purchasing Managers	248	-	344	592	6,608	9,932	12,884	29,424
0114 - Other Administrative Services Managers	1,872	-	781	2,653	80,905	3,023	22,380	106,308
0124 - Advertising, marketing and public relations managers	-	-	-	-	35	-	47	82
0125 - Other Business Services Managers	273	-	873	1,146	13,775	-	31,609	45,384
0211 - Engineering Managers	1,525	644	2,148	4,316	35,679	55,190	92,268	183,136
0213 - Computer and Information Systems Managers	116	192	806	1,114	2,159	6,715	18,715	27,588
0711 - Construction Managers	12,040	-	4,597	16,637	229,721	12,249	101,733	343,703
1111 - Financial Auditors and Accountants	434	-	332	766	15,382	1,658	16,983	34,022
1114 - Other Financial Officers	200	-	2,004	2,204	3,336	3,073	24,270	30,679
1121 - Human Resources professionals	1,781	192	1,989	3,962	58,985	13,539	67,269	139,792
1122 - Professional Occupations in Business management consulting	-	-	-	-	-	-	-	-
1123 - Professional occupations in advertising, marketing and public relations	766	-	385	1,151	16,556	31	29,230	45,816
1221 - Administrative Officers	702	1,316	837	2,855	23,777	49,339	25,277	98,392
1223 - Human resources and Recruitment Officers	-	-	478	478	3,058	3,741	11,541	18,339
1225 - Purchasing Agents and Officers	2,701	384	6,423	9,507	68,971	60,938	183,347	313,255
1241 - Administrative Assistants	5,293	376	2,121	7,790	175,946	30,249	81,711	287,906
1311 - Accounting technicians and bookkeepers	543	181	2,005	2,729	24,191	10,830	66,767	101,787
1411 - General Office support workers	4,537	-	-	4,537	159,971	72	131	160,174
1431 - Accounting and Related Clerks	-	-	-	-	1,325	-	2,006	3,330
2113 - Geologists, Geochemists and Geophysicists	2	-	196	198	7,611	10,207	7,252	25,070
2131 - Civil Engineers	8,540	2,940	5,265	16,744	200,358	163,353	108,311	472,023
2132 - Mechanical Engineers	1,336	582	1,341	3,259	21,155	45,853	54,566	121,574
2133 - Electrical and Electronics Engineers	755	2,814	3,032	6,600	11,331	133,822	92,421	237,573
2141 - Industrial and Manufacturing Engineers	7,990	397	4,885	13,272	195,737	17,969	110,126	323,832
2144 - Geological Engineers	-	703	210	913	3,304	14,159	3,288	20,750
2147 - Computer Engineers (Except Software Engineers and Designers)	98	184	-	282	2,595	6,010	160	8,764
2148 - Other Professional Engineers, n.e.c.	3,301	1,214	5,648	10,163	119,480	63,300	179,040	361,820
2151 – Architects	-	-	-	-	-	1,895	-	1,895
2153 - Urban and Land Use Planners	200	144	1,277	1,621	3,918	6,560	37,331	47,808
2154 - Land Surveyors	5,581	-	1,063	6,644	181,081	-	31,934	213,014
2171 - Information Systems Analysts and Consultants	523	192	1,441	2,156	18,994	10,089	38,482	67,564
2221 - Biological Technologists and Technicians	-	-	-	-	-	-	-	-

4-Digit NOC Code	Current Month				Project to Date			
	C&A	E&D	PM	Total	C&A	E&D	PM	Total
2231 - Civil Engineering Technologists and Technicians	2,904	594	1,030	4,527	124,346	75,902	36,356	236,604
2232 - Mechanical Engineering Technologists and Technicians	938	1	-	939	24,468	15,649	3,024	43,141
2234 - Construction Estimators	583	418	331	1,332	14,552	19,678	13,399	47,629
2241 - Electrical and Electronics Engineering Technologists and Technicians	1,036	144	1,508	2,688	21,670	26,735	44,912	93,316
2243 - Industrial Instrument Technicians and Mechanics	270	-	350	620	10,382	-	3,531	13,913
2251 - Architectural Technologists and Technicians	-	-	-	-	125	4,159	300	4,583
2253 - Drafting Technologists and Technicians	2,491	1,224	426	4,140	81,864	49,867	9,200	140,931
2263 - Inspectors in Public and Environmental Health and Occupational Health and Safety	8,198	1,502	3,211	12,911	216,664	56,436	60,278	333,378
2264 - Construction Inspectors	1,656	650	3,256	5,562	23,912	28,500	82,694	135,106
2271 - Air Pilots, Flight Engineers and Flying Instructors	-	-	-	-	60	-	125	185
3234 - Paramedical Occupations	5,262	-	-	5,262	130,232	-	2,212	132,444
4112 - Lawyers and Quebec Notaries	-	-	14	14	258	-	3,173	3,431
4161 - Natural and Applied Science Policy Researchers, Consultants and Program Officers	1,444	1,733	2,545	5,722	111,097	67,666	60,322	239,084
4162 - Economists and Economic Policy Researchers and Analysts	-	-	314	314	420	-	13,063	13,482
4169 - Other Professional Occupations in Social Science, n.e.c.	541	-	-	541	14,830	-	41	14,871
4312 - Firefighters	42	-	-	42	2,584	-	321	2,905
6313 - Accommodation, travel, tourism and related services supervisors	1,549	-	-	1,549	52,216	-	4,470	56,686
6321 - Chefs	-	-	-	-	596	-	-	596
6322 - Cooks	1,651	-	-	1,651	75,312	-	1,754	77,065
6541 - Security Guards and Related security service Occupations	5,819	210	-	6,029	262,232	6,052	6,556	274,840
6711 - Food Counter Attendants, Kitchen Helpers and Related support Occupations	18,011	-	-	18,011	663,374	-	4,112	667,486
7201 - Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations	4,641	-	-	4,641	155,835	-	2,441	158,276
7202 - Contractors and Supervisors, Electrical Trades and Telecommunications Occupations	2,994	-	-	2,994	47,348	-	1,477	48,825
7203 - Contractors and Supervisors, Pipefitting Trades	404	-	-	404	16,578	-	705	17,283
7204 - Contractors and Supervisors, Carpentry Trades	4,372	-	390	4,762	207,071	-	10,702	217,773
7205 - Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers	9,804	230	414	10,448	403,418	4,371	14,666	422,456
7233 - Sheet Metal Workers	163	-	-	163	73,920	-	1,825	75,745
7234 - Boilermakers	-	-	-	-	1,870	-	-	1,870
7236 - Ironworkers	26,705	-	-	26,705	707,133	-	3,464	710,597
7237 - Welders and Related Machine Operators	5,942	-	-	5,942	112,357	192	808	113,357
7242 - Industrial Electricians	8,060	-	171	8,231	288,426	-	11,655	300,081
7244 - Electrical Power Line and Cable Workers	18,010	-	88	18,098	230,042	-	4,866	234,908
7251 - Plumbers	1,045	-	-	1,045	46,229	-	2,203	48,432
7252 - Steamfitters, Pipefitters and Sprinkler System Installers	2,669	-	-	2,669	51,735	-	-	51,735

4-Digit NOC Code	Current Month				Project to Date			
	C&A	E&D	PM	Total	C&A	E&D	PM	Total
7271 – Carpenters	51,628	-	-	51,628	1,769,509	-	40,380	1,809,889
7281 – Bricklayers	341	-	-	341	76,748	-	-	76,748
7293 – Insulators	-	-	-	-	8,540	-	-	8,540
7294 - Painters and Decorators (except interior decorators)	286	-	-	286	4,643	-	137	4,780
7301 - Contractors and supervisors, mechanic trades	1,559	-	-	1,559	48,084	-	358	48,442
7302 - Contractors and supervisors, heavy equipment operator crews	5,281	-	-	5,281	190,066	-	3,780	193,846
7311 - Construction Millwrights and Industrial Mechanics	1,682	-	-	1,682	21,128	-	141	21,269
7312 - Heavy- Duty Equipment Mechanics	11,679	-	-	11,679	360,240	824	1,820	362,884
7371 - Crane Operators	9,527	-	233	9,760	275,877	-	3,767	279,645
7372 - Drillers and Blasters - Surface Mining, Quarrying and Construction	329	-	-	329	176,693	1,160	182	178,034
7384 - Other Trades and Related Occupations, n.e.c.	22	-	-	22	12,716	-	-	12,716
7452 - Material Handlers	3,835	-	647	4,482	109,328	48	15,296	124,673
7511 - Transport Truck Drivers	16,068	-	4	16,072	940,879	318	14,613	955,811
7512 - Bus Drivers, Subway Operators and Other Transit Operators	2,970	-	-	2,970	110,108	-	370	110,478
7521 - Heavy Equipment Operators (Except Crane)	61,228	-	883	62,111	1,735,034	1,045	38,603	1,774,682
7533 - Boat and Cable Ferry Operators and Related Occupations	-	-	-	-	40	-	-	40
7611 - Construction Trades Helpers and Labourers	22,332	-	-	22,332	493,806	-	23,717	517,523
7612 - Other Trades Helpers and Labourers	69,585	-	443	70,028	2,157,364	3,373	17,607	2,178,344
8211 - Supervisors, Logging and Forestry	1,014	-	-	1,014	41,461	-	700	42,161
8241 - Logging Machinery Operators	12,180	-	-	12,180	390,097	-	5,781	395,877
8616 - Logging and Forestry Labourers	1,218	-	145	1,363	57,128	60	3,973	61,161
9241 - Power Engineers and power system operators	447	-	-	447	13,186	-	97	13,282
All Occupation Codes	476,614	19,342	68,730	564,687	15,032,927	1,115,437	2,097,039	18,245,403

Table 22 – Residents Hired by 4-Digit NOC Code – March 2016

4-Digit NOC Code	C&A			E&D			PM			Total		
	Res	Total Persons	Res as % of Total	Res	Total Persons	Res as % of Total	Res	Total Persons	Res as % of Total	Res	Total Persons	Res as % of Total
0016 - Senior Managers - Goods Production, Utilities, Transportation and Construction	3	12	25%	-	-	0%	7	7	100%	10	19	53%
0111 - Financial Managers	-	-	0%	-	-	0%	2	3	67%	2	3	67%
0112 - Human Resources Managers	13	18	72%	1	1	100%	6	7	86%	20	26	77%
0113 - Purchasing Managers	1	1	100%	-	-	0%	1	2	50%	2	3	67%
0114 - Other Administrative Services Managers	4	10	40%	-	-	0%	3	5	60%	7	15	47%
0124 - Advertising, marketing and public relations managers	-	-	0%	-	-	0%	-	-	0%	-	-	0%
0125 - Other Business Services Managers	3	3	100%	-	-	0%	5	6	83%	8	9	89%
0211 - Engineering Managers	8	15	53%	-	4	0%	11	15	73%	19	34	56%
0213 - Computer and Information Systems Managers	1	1	100%	1	1	100%	4	5	80%	6	7	86%
0711 - Construction Managers	33	62	53%	-	-	0%	13	28	46%	46	90	51%
1111 - Financial Auditors and Accountants	1	3	33%	-	-	0%	3	3	100%	4	6	67%
1114 - Other Financial Officers	1	1	100%	-	-	0%	12	14	86%	13	15	87%
1121 - Human Resources professionals	12	14	86%	1	1	100%	12	12	100%	25	27	93%
1122 - Professional Occupations in Business management consulting	-	-	0%	-	-	0%	-	-	0%	-	-	0%
1123 - Professional occupations in advertising, marketing and public relations	3	5	60%	-	-	0%	6	6	100%	9	11	82%
1221 - Administrative Officers	3	5	60%	7	7	100%	6	6	100%	16	18	89%
1223 - Human resources and Recruitment Officers	-	-	0%	-	-	0%	4	4	100%	4	4	100%
1225 - Purchasing Agents and Officers	10	18	56%	1	2	50%	26	38	68%	37	58	64%
1241 - Administrative Assistants	17	30	57%	2	4	50%	16	16	100%	35	50	70%
1311 - Accounting technicians and bookkeepers	3	4	75%	1	1	100%	15	15	100%	19	20	95%
1411 - General Office support workers	30	30	100%	-	-	0%	-	-	0%	30	30	100%
1431 - Accounting and Related Clerks	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2113 - Geologists, Geochemists and Geophysicists	1	1	100%	-	-	0%	1	1	100%	2	2	100%
2131 - Civil Engineers	25	49	51%	6	21	29%	35	38	92%	66	108	61%
2132 - Mechanical Engineers	3	7	43%	1	3	33%	10	10	100%	14	20	70%
2133 - Electrical and Electronics Engineers	-	4	0%	2	16	13%	23	26	88%	25	46	54%
2141 - Industrial and Manufacturing Engineers	23	47	49%	1	2	50%	21	28	75%	45	77	58%
2144 - Geological Engineers	-	-	0%	2	3	67%	1	1	100%	3	4	75%
2147 - Computer Engineers (Except Software Engineers and Designers)	5	6	83%	1	1	100%	-	-	0%	6	7	86%
2148 - Other Professional Engineers, n.e.c.	9	23	39%	1	8	13%	43	48	90%	53	79	67%

4-Digit NOC Code	C&A			E&D			PM			Total		
	Res	Total Persons	Res as % of Total	Res	Total Persons	Res as % of Total	Res	Total Persons	Res as % of Total	Res	Total Persons	Res as % of Total
	2151 - Architects	-	-	0%	-	-	0%	-	-	0%	-	-
2153 - Urban and Land Use Planners	-	1	0%	1	1	100%	6	8	75%	7	10	70%
2154 - Land Surveyors	37	41	90%	-	-	0%	6	6	100%	43	47	91%
2171 - Information Systems Analysts and Consultants	3	4	75%	1	1	100%	12	12	100%	16	17	94%
2221 - Biological Technologists and Technicians	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2231 - Civil Engineering Technologists and Technicians	17	21	81%	4	8	50%	6	8	75%	27	37	73%
2232 - Mechanical Engineering Technologists and Technicians	4	5	80%	-	1	0%	-	-	0%	4	6	67%
2234 - Construction Estimators	-	3	0%	-	2	0%	2	2	100%	2	7	29%
2241 - Electrical and Electronics Engineering Technologists and Technicians	2	5	40%	1	1	100%	23	25	92%	26	31	84%
2243 - Industrial Instrument Technicians and Mechanics	-	2	0%	-	-	0%	2	2	100%	2	4	50%
2251 - Architectural Technologists and Technicians	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2253 - Drafting Technologists and Technicians	6	16	38%	3	9	33%	4	4	100%	13	29	45%
2263 - Inspectors in Public and Environmental Health and Occupational Health and Safety	39	51	76%	9	9	100%	15	17	88%	63	77	82%
2264 - Construction Inspectors	1	8	13%	3	3	100%	15	18	83%	19	29	66%
2271 - Air Pilots, Flight Engineers and Flying Instructors	-	-	0%	-	-	0%	-	-	0%	-	-	0%
3234 - Paramedical Occupations	32	32	100%	-	-	0%	-	-	0%	32	32	100%
4112 - Lawyers and Quebec Notaries	-	-	0%	-	-	0%	3	3	100%	3	3	100%
4161 - Natural and Applied Science Policy Researchers, Consultants and Program Officers	8	13	62%	5	8	63%	16	17	94%	29	38	76%
4162 - Economists and Economic Policy Researchers and Analysts	-	-	0%	-	-	0%	3	3	100%	3	3	100%
4169 - Other Professional Occupations in Social Science, n.e.c.	3	5	60%	-	-	0%	-	-	0%	3	5	60%
4312 - Firefighters	2	2	100%	-	-	0%	-	-	0%	2	2	100%
6313 - Accommodation, travel, tourism and related services supervisors	7	8	88%	-	-	0%	-	-	0%	7	8	88%
6321 - Chefs	-	-	0%	-	-	0%	-	-	0%	-	-	0%
6322 - Cooks	10	10	100%	-	-	0%	-	-	0%	10	10	100%
6541 - Security Guards and Related security service Occupations	44	47	94%	1	1	100%	-	-	0%	45	48	94%
6711 - Food Counter Attendants, Kitchen Helpers and Related support Occupations	148	148	100%	-	-	0%	-	-	0%	148	148	100%
7201 - Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations	20	26	77%	-	-	0%	-	-	0%	20	26	77%

4-Digit NOC Code	C&A			E&D			PM			Total		
	Res	Total Persons	Res as % of Total	Res	Total Persons	Res as % of Total	Res	Total Persons	Res as % of Total	Res	Total Persons	Res as % of Total
	7202 - Contractors and Supervisors, Electrical Trades and Telecommunications Occupations	10	17	59%	-	-	0%	-	-	0%	10	17
7203 - Contractors and Supervisors, Pipefitting Trades	3	3	100%	-	-	0%	-	-	0%	3	3	100%
7204 - Contractors and Supervisors, Carpentry Trades	32	32	100%	-	-	0%	-	2	0%	32	34	94%
7205 - Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers	27	57	47%	1	1	100%	1	2	50%	29	60	48%
7233 - Sheet Metal Workers	1	1	100%	-	-	0%	-	-	0%	1	1	100%
7234 - Boilermakers	-	-	0%	-	-	0%	-	-	0%	-	-	0%
7236 - Ironworkers	168	185	91%	-	-	0%	-	1	0%	168	186	90%
7237 - Welders and Related Machine Operators	27	34	79%	-	-	0%	-	-	0%	27	34	79%
7242 - Industrial Electricians	61	63	97%	-	-	0%	4	4	100%	65	67	97%
7244 - Electrical Power Line and Cable Workers	36	90	40%	-	-	0%	11	11	100%	47	101	47%
7251 - Plumbers	7	7	100%	-	-	0%	-	-	0%	7	7	100%
7252 - Steamfitters, Pipefitters and Sprinkler System Installers	21	21	100%	-	-	0%	-	-	0%	21	21	100%
7271 - Carpenters	440	446	99%	-	-	0%	-	-	0%	440	446	99%
7281 - Bricklayers	2	2	100%	-	-	0%	-	-	0%	2	2	100%
7293 - Insulators	-	-	0%	-	-	0%	-	-	0%	-	-	0%
7294 - Painters and Decorators (except interior decorators)	2	2	100%	-	-	0%	-	-	0%	2	2	100%
7301 - Contractors and supervisors, mechanic trades	4	9	44%	-	-	0%	-	-	0%	4	9	44%
7302 - Contractors and supervisors, heavy equipment operator crews	10	30	33%	-	-	0%	-	-	0%	10	30	33%
7311 - Construction Millwrights and Industrial Mechanics	8	11	73%	-	-	0%	-	-	0%	8	11	73%
7312 - Heavy- Duty Equipment Mechanics	57	75	76%	-	-	0%	-	-	0%	57	75	76%
7371 - Crane Operators	45	56	80%	-	-	0%	-	1	0%	45	57	79%
7372 - Drillers and Blasters - Surface Mining, Quarrying and Construction	3	4	75%	-	-	0%	-	-	0%	3	4	75%
7384 - Other Trades and Related Occupations, n.e.c.	1	-	0%	-	-	0%	-	-	0%	1	-	0%
7452 - Material Handlers	24	28	86%	-	-	0%	4	4	100%	28	32	88%
7511 - Transport Truck Drivers	97	104	93%	-	-	0%	1	1	100%	98	105	93%
7512 - Bus Drivers, Subway Operators and Other Transit Operators	21	21	100%	-	-	0%	-	-	0%	21	21	100%
7521 - Heavy Equipment Operators (Except Crane)	298	360	83%	-	-	0%	5	5	100%	303	365	83%
7533 - Boat and Cable Ferry Operators and Related Occupations	-	-	0%	-	-	0%	-	-	0%	-	-	0%
7611 - Construction Trades Helpers and Labourers	116	131	89%	-	-	0%	-	-	0%	116	131	89%
7612 - Other Trades Helpers and Labourers	430	485	89%	-	-	0%	4	4	100%	434	489	89%

4-Digit NOC Code	C&A			E&D			PM			Total		
	Res	Total Persons	Res as % of Total	Res	Total Persons	Res as % of Total	Res	Total Persons	Res as % of Total	Res	Total Persons	Res as % of Total
8211 - Supervisors, Logging and Forestry	3	5	60%	-	-	0%	-	-	0%	3	5	60%
8241 - Logging Machinery Operators	81	81	100%	-	-	0%	-	-	0%	81	81	100%
8616 - Logging and Forestry Labourers	6	7	86%	-	-	0%	1	1	100%	7	8	88%
9241 - Power Engineers and power system operators	3	3	100%	-	-	0%	-	-	0%	3	3	100%
Totals	2,639	3,187	83%	57	120	48%	430	505	85%	3,126	3,812	82%

Table 23 – Female Workers Hired by 4-Digit NOC Code – March 2016

4-Digit NOC Code	C&A			E&D			PM			Total		
	Females	Total Persons	Females as % of Total	Females	Total Persons	Females as % of Total	Females	Total Persons	Females as % of Total	Females	Total Persons	Females as % of Total
0016 - Senior Managers - Goods Production, Utilities, Transportation and Construction	2	12	17%	-	-	0%	-	7	0%	2	19	11%
0111 - Financial Managers	-	-	0%	-	-	0%	1	3	33%	1	3	33%
0112 - Human Resources Managers	5	18	28%	-	1	0%	3	7	43%	8	26	31%
0113 - Purchasing Managers	-	1	0%	-	-	0%	-	2	0%	-	3	0%
0114 - Other Administrative Services Managers	1	10	10%	-	-	0%	1	5	20%	2	15	13%
0124 - Advertising, marketing and public relations managers	-	-	0%	-	-	0%	-	-	0%	-	-	0%
0125 - Other Business Services Managers	2	3	67%	-	-	0%	2	6	33%	4	9	44%
0211 - Engineering Managers	1	15	7%	-	4	0%	-	15	0%	1	34	3%
0213 - Computer and Information Systems Managers	-	1	0%	-	1	0%	-	5	0%	-	7	0%
0711 - Construction Managers	-	62	0%	-	-	0%	-	28	0%	-	90	0%
1111 - Financial Auditors and Accountants	1	3	33%	-	-	0%	-	3	0%	1	6	17%
1114 - Other Financial Officers	1	1	100%	-	-	0%	8	14	57%	9	15	60%
1121 - Human Resources professionals	11	14	79%	1	1	100%	6	12	50%	18	27	67%
1122 - Professional Occupations in Business management consulting	-	-	0%	-	-	0%	-	-	0%	-	-	0%
1123 - Professional occupations in advertising, marketing and public relations	1	5	20%	-	-	0%	5	6	83%	6	11	55%
1221 - Administrative Officers	3	5	60%	7	7	100%	5	6	83%	15	18	83%
1223 - Human resources and Recruitment Officers	-	-	0%	-	-	0%	2	4	50%	2	4	50%
1225 - Purchasing Agents and Officers	9	18	50%	-	2	0%	13	38	34%	22	58	38%
1241 - Administrative Assistants	21	30	70%	4	4	100%	14	16	88%	39	50	78%
1311 - Accounting technicians and bookkeepers	1	4	25%	-	1	0%	12	15	80%	13	20	65%
1411 - General Office support workers	28	30	93%	-	-	0%	-	-	0%	28	30	93%
1431 - Accounting and Related Clerks	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2113 - Geologists, Geochemists and Geophysicists	1	1	100%	-	-	0%	-	1	0%	1	2	50%
2131 - Civil Engineers	7	49	14%	1	21	5%	4	38	11%	12	108	11%
2132 - Mechanical Engineers	-	7	0%	-	3	0%	2	10	20%	2	20	10%
2133 - Electrical and Electronics Engineers	-	4	0%	-	16	0%	6	26	23%	6	46	13%
2141 - Industrial and Manufacturing Engineers	8	47	17%	-	2	0%	2	28	7%	10	77	13%
2144 - Geological Engineers	-	-	0%	1	3	33%	-	1	0%	1	4	25%
2147 - Computer Engineers (Except Software Engineers and Designers)	3	6	50%	-	1	0%	-	-	0%	3	7	43%
2148 - Other Professional Engineers, n.e.c.	-	23	0%	1	8	13%	6	48	13%	7	79	9%

4-Digit NOC Code	C&A			E&D			PM			Total		
	Females	Total Persons	Females as % of Total	Females	Total Persons	Females as % of Total	Females	Total Persons	Females as % of Total	Females	Total Persons	Females as % of Total
2151 - Architects	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2153 - Urban and Land Use Planners	-	1	0%	-	1	0%	1	8	13%	1	10	10%
2154 - Land Surveyors	2	41	5%	-	-	0%	-	6	0%	2	47	4%
2171 - Information Systems Analysts and Consultants	1	4	25%	-	1	0%	3	12	25%	4	17	24%
2221 - Biological Technologists and Technicians	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2231 - Civil Engineering Technologists and Technicians	1	21	5%	1	8	13%	-	8	0%	2	37	5%
2232 - Mechanical Engineering Technologists and Technicians	-	5	0%	-	1	0%	-	-	0%	-	6	0%
2234 - Construction Estimators	-	3	0%	-	2	0%	-	2	0%	-	7	0%
2241 - Electrical and Electronics Engineering Technologists and Technicians	-	5	0%	-	1	0%	1	25	4%	1	31	3%
2243 - Industrial Instrument Technicians and Mechanics	-	2	0%	-	-	0%	-	2	0%	-	4	0%
2251 - Architectural Technologists and Technicians	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2253 - Drafting Technologists and Technicians	2	16	13%	-	9	0%	1	4	25%	3	29	10%
2263 - Inspectors in Public and Environmental Health and Occupational Health and Safety	14	51	27%	-	9	0%	2	17	12%	16	77	21%
2264 - Construction Inspectors	1	8	13%	-	3	0%	-	18	0%	1	29	3%
2271 - Air Pilots, Flight Engineers and Flying Instructors	-	-	0%	-	-	0%	-	-	0%	-	-	0%
3234 - Paramedical Occupations	13	32	41%	-	-	0%	-	-	0%	13	32	41%
4112 - Lawyers and Quebec Notaries	-	-	0%	-	-	0%	-	3	0%	-	3	0%
4161 - Natural and Applied Science Policy Researchers, Consultants and Program Officers	5	13	38%	-	8	0%	10	17	59%	15	38	39%
4162 - Economists and Economic Policy Researchers and Analysts	-	-	0%	-	-	0%	1	3	33%	1	3	33%
4169 - Other Professional Occupations in Social Science, n.e.c.	1	5	20%	-	-	0%	-	-	0%	1	5	20%
4312 - Firefighters	-	2	0%	-	-	0%	-	-	0%	-	2	0%
6313 - Accommodation, travel, tourism and related services supervisors	2	8	25%	-	-	0%	-	-	0%	2	8	25%
6321 - Chefs	-	-	0%	-	-	0%	-	-	0%	-	-	0%
6322 - Cooks	2	10	20%	-	-	0%	-	-	0%	2	10	20%
6541 - Security Guards and Related security service Occupations	9	47	19%	-	1	0%	-	-	0%	9	48	19%
6711 - Food Counter Attendants, Kitchen Helpers and Related support Occupations	90	148	61%	-	-	0%	-	-	0%	90	148	61%

4-Digit NOC Code	C&A			E&D			PM			Total		
	Females	Total Persons	Females as % of Total	Females	Total Persons	Females as % of Total	Females	Total Persons	Females as % of Total	Females	Total Persons	Females as % of Total
7201 - Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations	-	26	0%	-	-	0%	-	-	0%	-	26	0%
7202 - Contractors and Supervisors, Electrical Trades and Telecommunications Occupations	-	17	0%	-	-	0%	-	-	0%	-	17	0%
7203 - Contractors and Supervisors, Pipefitting Trades	-	3	0%	-	-	0%	-	-	0%	-	3	0%
7204 - Contractors and Supervisors, Carpentry Trades	-	32	0%	-	-	0%	-	2	0%	-	34	0%
7205 - Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers	1	57	2%	-	1	0%	-	2	0%	1	60	2%
7233 - Sheet Metal Workers	-	1	0%	-	-	0%	-	-	0%	-	1	0%
7234 - Boilermakers	-	-	0%	-	-	0%	-	-	0%	-	-	0%
7236 - Ironworkers	7	185	4%	-	-	0%	-	1	0%	7	186	4%
7237 - Welders and Related Machine Operators	1	34	3%	-	-	0%	-	-	0%	1	34	3%
7242 - Industrial Electricians	2	63	3%	-	-	0%	-	4	0%	2	67	3%
7244 - Electrical Power Line and Cable Workers	1	90	1%	-	-	0%	1	11	9%	2	101	2%
7251 - Plumbers	-	7	0%	-	-	0%	-	-	0%	-	7	0%
7252 - Steamfitters, Pipefitters and Sprinkler System Installers	-	21	0%	-	-	0%	-	-	0%	-	21	0%
7271 - Carpenters	13	446	3%	-	-	0%	-	-	0%	13	446	3%
7281 - Bricklayers	-	2	0%	-	-	0%	-	-	0%	-	2	0%
7293 - Insulators	-	-	0%	-	-	0%	-	-	0%	-	-	0%
7294 - Painters and Decorators (except interior decorators)	-	2	0%	-	-	0%	-	-	0%	-	2	0%
7301 - Contractors and supervisors, mechanic trades	-	9	0%	-	-	0%	-	-	0%	-	9	0%
7302 - Contractors and supervisors, heavy equipment operator crews	-	30	0%	-	-	0%	-	-	0%	-	30	0%
7311 - Construction Millwrights and Industrial Mechanics	-	11	0%	-	-	0%	-	-	0%	-	11	0%
7312 - Heavy- Duty Equipment Mechanics	2	75	3%	-	-	0%	-	-	0%	2	75	3%
7371 - Crane Operators	4	56	7%	-	-	0%	-	1	0%	4	57	7%
7372 - Drillers and Blasters - Surface Mining, Quarrying and Construction	-	4	0%	-	-	0%	-	-	0%	-	4	0%
7384 - Other Trades and Related Occupations, n.e.c.	-	-	0%	-	-	0%	-	-	0%	-	-	0%
7452 - Material Handlers	2	28	7%	-	-	0%	-	4	0%	2	32	6%
7511 - Transport Truck Drivers	3	104	3%	-	-	0%	-	1	0%	3	105	3%
7512 - Bus Drivers, Subway Operators and Other Transit Operators	-	21	0%	-	-	0%	-	-	0%	-	21	0%
7521 - Heavy Equipment Operators (Except Crane)	6	360	2%	-	-	0%	-	5	0%	6	365	2%

4-Digit NOC Code	C&A			E&D			PM			Total		
	Females	Total Persons	Females as % of Total	Females	Total Persons	Females as % of Total	Females	Total Persons	Females as % of Total	Females	Total Persons	Females as % of Total
7533 - Boat and Cable Ferry Operators and Related Occupations	-	-	0%	-	-	0%	-	-	0%	-	-	0%
7611 - Construction Trades Helpers and Labourers	6	131	5%	-	-	0%	-	-	0%	6	131	5%
7612 - Other Trades Helpers and Labourers	37	485	8%	-	-	0%	1	4	25%	38	489	8%
8211 - Supervisors, Logging and Forestry	-	5	0%	-	-	0%	-	-	0%	-	5	0%
8241 - Logging Machinery Operators	2	81	2%	-	-	0%	-	-	0%	2	81	2%
8616 - Logging and Forestry Labourers	-	7	0%	-	-	0%	-	1	0%	-	8	0%
9241 - Power Engineers and power system operators	-	3	0%	-	-	0%	-	-	0%	-	3	0%
Totals	336	3,187	11%	16	120	13%	113	505	22%	465	3,812	12%

Table 24 – Aboriginal Workers by 4-Digit NOC Code – March 2016

4-Digit NOC Code	C&A			E&D			PM			Total		
	Aboriginals	Total Persons	Aboriginals as % of Total	Aboriginals	Total Persons	Aboriginals as % of Total	Aboriginals	Total Persons	Aboriginals as % of Total	Aboriginals	Total Persons	Aboriginals as % of Total
0016 - Senior Managers - Goods Production, Utilities, Transportation and Construction	-	12	0%	-	-	0%	-	7	0%	-	19	0%
0111 - Financial Managers	-	-	0%	-	-	0%	-	3	0%	-	3	0%
0112 - Human Resources Managers	1	18	6%	-	1	0%	-	7	0%	1	26	4%
0113 - Purchasing Managers	-	1	0%	-	-	0%	-	2	0%	-	3	0%
0114 - Other Administrative Services Managers	-	10	0%	-	-	0%	-	5	0%	-	15	0%
0124 - Advertising, marketing and public relations managers	-	-	0%	-	-	0%	-	-	0%	-	-	0%
0125 - Other Business Services Managers	2	3	67%	-	-	0%	-	6	0%	2	9	22%
0211 - Engineering Managers	-	15	0%	-	4	0%	-	15	0%	-	34	0%
0213 - Computer and Information Systems Managers	-	1	0%	-	1	0%	-	5	0%	-	7	0%
0711 - Construction Managers	-	62	0%	-	-	0%	-	28	0%	-	90	0%
1111 - Financial Auditors and Accountants	-	3	0%	-	-	0%	-	3	0%	-	6	0%
1114 - Other Financial Officers	-	1	0%	-	-	0%	-	14	0%	-	15	0%
1121 - Human Resources professionals	5	14	36%	-	1	0%	3	12	25%	8	27	30%
1122 - Professional Occupations in Business management consulting	-	-	0%	-	-	0%	-	-	0%	-	-	0%
1123 - Professional occupations in advertising, marketing and public relations	2	5	40%	-	-	0%	-	6	0%	2	11	18%
1221 - Administrative Officers	2	5	40%	-	7	0%	-	6	0%	2	18	11%
1223 - Human resources and Recruitment Officers	-	-	0%	-	-	0%	-	4	0%	-	4	0%
1225 - Purchasing Agents and Officers	1	18	6%	-	2	0%	-	38	0%	1	58	2%
1241 - Administrative Assistants	4	30	13%	-	4	0%	-	16	0%	4	50	8%
1311 - Accounting technicians and bookkeepers	1	4	25%	-	1	0%	1	15	7%	2	20	10%
1411 - General Office support workers	16	30	53%	-	-	0%	-	-	0%	16	30	53%
1431 - Accounting and Related Clerks	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2113 - Geologists, Geochemists and Geophysicists	-	1	0%	-	-	0%	-	1	0%	-	2	0%
2131 - Civil Engineers	1	49	2%	-	21	0%	-	38	0%	1	108	1%
2132 - Mechanical Engineers	-	7	0%	1	3	33%	-	10	0%	1	20	5%
2133 - Electrical and Electronics Engineers	-	4	0%	-	16	0%	-	26	0%	-	46	0%
2141 - Industrial and Manufacturing Engineers	1	47	2%	-	2	0%	2	28	7%	3	77	4%
2144 - Geological Engineers	-	-	0%	-	3	0%	-	1	0%	-	4	0%

4-Digit NOC Code	C&A			E&D			PM			Total		
	Aboriginals	Total Persons	Aboriginals as % of Total	Aboriginals	Total Persons	Aboriginals as % of Total	Aboriginals	Total Persons	Aboriginals as % of Total	Aboriginals	Total Persons	Aboriginals as % of Total
2147 - Computer Engineers (Except Software Engineers and Designers)	-	6	0%	-	1	0%	-	-	0%	-	7	0%
2148 - Other Professional Engineers, n.e.c.	-	23	0%	-	8	0%	-	48	0%	-	79	0%
2151 - Architects	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2153 - Urban and Land Use Planners	-	1	0%	-	1	0%	-	8	0%	-	10	0%
2154 - Land Surveyors	4	41	10%	-	-	0%	-	6	0%	4	47	9%
2171 - Information Systems Analysts and Consultants	1	4	25%	-	1	0%	-	12	0%	1	17	6%
2221 - Biological Technologists and Technicians	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2231 - Civil Engineering Technologists and Technicians	-	21	0%	-	8	0%	1	8	13%	1	37	3%
2232 - Mechanical Engineering Technologists and Technicians	1	5	20%	-	1	0%	-	-	0%	1	6	17%
2234 - Construction Estimators	-	3	0%	-	2	0%	-	2	0%	-	7	0%
2241 - Electrical and Electronics Engineering Technologists and Technicians	1	5	20%	-	1	0%	-	25	0%	1	31	3%
2243 - Industrial Instrument Technicians and Mechanics	-	2	0%	-	-	0%	-	2	0%	-	4	0%
2251 - Architectural Technologists and Technicians	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2253 - Drafting Technologists and Technicians	-	16	0%	-	9	0%	-	4	0%	-	29	0%
2263 - Inspectors in Public and Environmental Health and Occupational Health and Safety	-	51	0%	-	9	0%	2	17	12%	2	77	3%
2264 - Construction Inspectors	-	8	0%	-	3	0%	-	18	0%	-	29	0%
2271 - Air Pilots, Flight Engineers and Flying Instructors	-	-	0%	-	-	0%	-	-	0%	-	-	0%
3234 - Paramedical Occupations	-	32	0%	-	-	0%	-	-	0%	-	32	0%
4112 - Lawyers and Quebec Notaries	-	-	0%	-	-	0%	-	3	0%	-	3	0%
4161 - Natural and Applied Science Policy Researchers, Consultants and Program Officers	1	13	8%	1	8	13%	2	17	12%	4	38	11%
4162 - Economists and Economic Policy Researchers and Analysts	-	-	0%	-	-	0%	-	3	0%	-	3	0%
4169 - Other Professional Occupations in Social Science, n.e.c.	-	5	0%	-	-	0%	-	-	0%	-	5	0%
4312 - Firefighters	-	2	0%	-	-	0%	-	-	0%	-	2	0%
6313 - Accommodation, travel, tourism and related services supervisors	2	8	25%	-	-	0%	-	-	0%	2	8	25%
6321 - Chefs	-	-	0%	-	-	0%	-	-	0%	-	-	0%
6322 - Cooks	1	10	10%	-	-	0%	-	-	0%	1	10	10%

4-Digit NOC Code	C&A			E&D			PM			Total		
	Aboriginals	Total Persons	Aboriginals as % of Total	Aboriginals	Total Persons	Aboriginals as % of Total	Aboriginals	Total Persons	Aboriginals as % of Total	Aboriginals	Total Persons	Aboriginals as % of Total
6541 - Security Guards and Related security service Occupations	5	47	11%	-	1	0%	-	-	0%	5	48	10%
6711 - Food Counter Attendants, Kitchen Helpers and Related support Occupations	53	148	36%	-	-	0%	-	-	0%	53	148	36%
7201 - Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations	3	26	12%	-	-	0%	-	-	0%	3	26	12%
7202 - Contractors and Supervisors, Electrical Trades and Telecommunications Occupations	-	17	0%	-	-	0%	-	-	0%	-	17	0%
7203 - Contractors and Supervisors, Pipefitting Trades	-	3	0%	-	-	0%	-	-	0%	-	3	0%
7204 - Contractors and Supervisors, Carpentry Trades	2	32	6%	-	-	0%	-	2	0%	2	34	6%
7205 - Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicicers	7	57	12%	-	1	0%	-	2	0%	7	60	12%
7233 - Sheet Metal Workers	-	1	0%	-	-	0%	-	-	0%	-	1	0%
7234 - Boilermakers	-	-	0%	-	-	0%	-	-	0%	-	-	0%
7236 - Ironworkers	6	185	3%	-	-	0%	-	1	0%	6	186	3%
7237 - Welders and Related Machine Operators	1	34	3%	-	-	0%	-	-	0%	1	34	3%
7242 - Industrial Electricians	6	63	10%	-	-	0%	-	4	0%	6	67	9%
7244 - Electrical Power Line and Cable Workers	4	90	4%	-	-	0%	-	11	0%	4	101	4%
7251 - Plumbers	-	7	0%	-	-	0%	-	-	0%	-	7	0%
7252 - Steamfitters, Pipefitters and Sprinkler System Installers	4	21	19%	-	-	0%	-	-	0%	4	21	19%
7271 - Carpenters	38	446	9%	-	-	0%	-	-	0%	38	446	9%
7281 - Bricklayers	-	2	0%	-	-	0%	-	-	0%	-	2	0%
7293 - Insulators	-	-	0%	-	-	0%	-	-	0%	-	-	0%
7294 - Painters and Decorators (except interior decorators)	2	2	100%	-	-	0%	-	-	0%	2	2	100%
7301 - Contractors and supervisors, mechanic trades	-	9	0%	-	-	0%	-	-	0%	-	9	0%
7302 - Contractors and supervisors, heavy equipment operator crews	1	30	3%	-	-	0%	-	-	0%	1	30	3%
7311 - Construction Millwrights and Industrial Mechanics	2	11	18%	-	-	0%	-	-	0%	2	11	18%
7312 - Heavy- Duty Equipment Mechanics	10	75	13%	-	-	0%	-	-	0%	10	75	13%
7371 - Crane Operators	4	56	7%	-	-	0%	-	1	0%	4	57	7%
7372 - Drillers and Blasters - Surface Mining, Quarrying and Construction	1	4	25%	-	-	0%	-	-	0%	1	4	25%

4-Digit NOC Code	C&A			E&D			PM			Total		
	Aboriginals	Total Persons	Aboriginals as % of Total	Aboriginals	Total Persons	Aboriginals as % of Total	Aboriginals	Total Persons	Aboriginals as % of Total	Aboriginals	Total Persons	Aboriginals as % of Total
7384 - Other Trades and Related Occupations, n.e.c.	-	-	0%	-	-	0%	-	-	0%	-	-	0%
7452 - Material Handlers	7	28	25%	-	-	0%	-	4	0%	7	32	22%
7511 - Transport Truck Drivers	18	104	17%	-	-	0%	-	1	0%	18	105	17%
7512 - Bus Drivers, Subway Operators and Other Transit Operators	5	21	24%	-	-	0%	-	-	0%	5	21	24%
7521 - Heavy Equipment Operators (Except Crane)	31	360	9%	-	-	0%	-	5	0%	31	365	8%
7533 - Boat and Cable Ferry Operators and Related Occupations	-	-	0%	-	-	0%	-	-	0%	-	-	0%
7611 - Construction Trades Helpers and Labourers	14	131	11%	-	-	0%	-	-	0%	14	131	11%
7612 - Other Trades Helpers and Labourers	120	485	25%	-	-	0%	-	4	0%	120	489	25%
8211 - Supervisors, Logging and Forestry	-	5	0%	-	-	0%	-	-	0%	-	5	0%
8241 - Logging Machinery Operators	7	81	9%	-	-	0%	-	-	0%	7	81	9%
8616 - Logging and Forestry Labourers	-	7	0%	-	-	0%	-	1	0%	-	8	0%
9241 - Power Engineers and power system operators	-	3	0%	-	-	0%	-	-	0%	-	3	0%
Totals	398	3,187	12%	2	120	2%	11	505	2%	411	3,812	11%

Table 25 – Labrador Residents by 4-Digit NOC Code – March 2016

4-Digit NOC Code	C&A			E&D			PM			Total		
	Lab Residents	Total Persons	Lab Residents as % of Total	Lab Residents	Total Persons	Lab Residents as % of Total	Lab Residents	Total Persons	Lab Residents as % of Total	Lab Residents	Total Persons	Lab Residents as % of Total
0016 - Senior Managers - Goods Production, Utilities, Transportation and Construction	-	12	0%	-	-	0%	-	7	0%	-	19	0%
0111 - Financial Managers	-	-	0%	-	-	0%	-	3	0%	-	3	0%
0112 - Human Resources Managers	2	18	11%	-	1	0%	1	7	14%	3	26	12%
0113 - Purchasing Managers	-	1	0%	-	-	0%	-	2	0%	-	3	0%
0114 - Other Administrative Services Managers	3	10	30%	-	-	0%	1	5	20%	4	15	27%
0124 - Advertising, marketing and public relations managers	-	-	0%	-	-	0%	-	-	0%	-	-	0%
0125 - Other Business Services Managers	1	3	33%	-	-	0%	-	6	0%	1	9	11%
0211 - Engineering Managers	-	15	0%	-	4	0%	1	15	7%	1	34	3%
0213 - Computer and Information Systems Managers	-	1	0%	-	1	0%	-	5	0%	-	7	0%
0711 - Construction Managers	1	62	2%	-	-	0%	-	28	0%	1	90	1%
1111 - Financial Auditors and Accountants	-	3	0%	-	-	0%	-	3	0%	-	6	0%
1114 - Other Financial Officers	-	1	0%	-	-	0%	-	14	0%	-	15	0%
1121 - Human Resources professionals	6	14	43%	-	1	0%	3	12	25%	9	27	33%
1122 - Professional Occupations in Business management consulting	-	-	0%	-	-	0%	-	-	0%	-	-	0%
1123 - Professional occupations in advertising, marketing and public relations	18	5	360%	-	-	0%	-	6	0%	18	11	164%
1221 - Administrative Officers	2	5	40%	-	7	0%	2	6	33%	4	18	22%
1223 - Human resources and Recruitment Officers	-	-	0%	-	-	0%	-	4	0%	-	4	0%
1225 - Purchasing Agents and Officers	4	18	22%	-	2	0%	-	38	0%	4	58	7%
1241 - Administrative Assistants	2	30	7%	-	4	0%	-	16	0%	2	50	4%
1311 - Accounting technicians and bookkeepers	1	4	25%	-	1	0%	1	15	7%	2	20	10%
1411 - General Office support workers	2	30	7%	-	-	0%	1	-	0%	3	30	10%
1431 - Accounting and Related Clerks	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2113 - Geologists, Geochemists and Geophysicists	-	1	0%	-	-	0%	-	1	0%	-	2	0%
2131 - Civil Engineers	1	49	2%	-	21	0%	-	38	0%	1	108	1%
2132 - Mechanical Engineers	-	7	0%	1	3	33%	-	10	0%	1	20	5%
2133 - Electrical and Electronics Engineers	-	4	0%	-	16	0%	2	26	8%	2	46	4%
2141 - Industrial and Manufacturing Engineers	-	47	0%	-	2	0%	3	28	11%	3	77	4%
2144 - Geological Engineers	-	-	0%	-	3	0%	-	1	0%	-	4	0%

4-Digit NOC Code	C&A			E&D			PM			Total		
	Lab Residents	Total Persons	Lab Residents as % of Total	Lab Residents	Total Persons	Lab Residents as % of Total	Lab Residents	Total Persons	Lab Residents as % of Total	Lab Residents	Total Persons	Lab Residents as % of Total
2147 - Computer Engineers (Except Software Engineers and Designers)	-	6	0%	-	1	0%	-	-	0%	-	7	0%
2148 - Other Professional Engineers, n.e.c.	-	23	0%	-	8	0%	-	48	0%	-	79	0%
2151 - Architects	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2153 - Urban and Land Use Planners	-	1	0%	-	1	0%	-	8	0%	-	10	0%
2154 - Land Surveyors	8	41	20%	-	-	0%	-	6	0%	8	47	17%
2171 - Information Systems Analysts and Consultants	2	4	50%	-	1	0%	1	12	8%	3	17	18%
2221 - Biological Technologists and Technicians	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2231 - Civil Engineering Technologists and Technicians	-	21	0%	-	8	0%	-	8	0%	-	37	0%
2232 - Mechanical Engineering Technologists and Technicians	2	5	40%	-	1	0%	-	-	0%	2	6	33%
2234 - Construction Estimators	-	3	0%	-	2	0%	-	2	0%	-	7	0%
2241 - Electrical and Electronics Engineering Technologists and Technicians	1	5	20%	-	1	0%	4	25	16%	5	31	16%
2243 - Industrial Instrument Technicians and Mechanics	-	2	0%	-	-	0%	-	2	0%	-	4	0%
2251 - Architectural Technologists and Technicians	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2253 - Drafting Technologists and Technicians	4	16	25%	-	9	0%	-	4	0%	4	29	14%
2263 - Inspectors in Public and Environmental Health and Occupational Health and Safety	5	51	10%	2	9	22%	2	17	12%	9	77	12%
2264 - Construction Inspectors	-	8	0%	-	3	0%	-	18	0%	-	29	0%
2271 - Air Pilots, Flight Engineers and Flying Instructors	-	-	0%	-	-	0%	-	-	0%	-	-	0%
3234 - Paramedical Occupations	7	32	22%	-	-	0%	-	-	0%	7	32	22%
4112 - Lawyers and Quebec Notaries	-	-	0%	-	-	0%	-	3	0%	-	3	0%
4161 - Natural and Applied Science Policy Researchers, Consultants and Program Officers	2	13	15%	1	8	13%	2	17	12%	5	38	13%
4162 - Economists and Economic Policy Researchers and Analysts	-	-	0%	-	-	0%	-	3	0%	-	3	0%
4169 - Other Professional Occupations in Social Science, n.e.c.	20	5	400%	-	-	0%	-	-	0%	20	5	400%
4312 - Firefighters	-	2	0%	-	-	0%	-	-	0%	-	2	0%
6313 - Accommodation, travel, tourism and related services supervisors	107	8	1338%	-	-	0%	-	-	0%	107	8	1338%
6321 - Chefs	-	-	0%	-	-	0%	-	-	0%	-	-	0%
6322 - Cooks	11	10	110%	-	-	0%	-	-	0%	11	10	110%

4-Digit NOC Code	C&A			E&D			PM			Total		
	Lab Residents	Total Persons	Lab Residents as % of Total	Lab Residents	Total Persons	Lab Residents as % of Total	Lab Residents	Total Persons	Lab Residents as % of Total	Lab Residents	Total Persons	Lab Residents as % of Total
6541 - Security Guards and Related security service Occupations	24	47	51%	1	1	100%	-	-	0%	25	48	52%
6711 - Food Counter Attendants, Kitchen Helpers and Related support Occupations	70	148	47%	-	-	0%	-	-	0%	70	148	47%
7201 - Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations	7	26	27%	-	-	0%	-	-	0%	7	26	27%
7202 - Contractors and Supervisors, Electrical Trades and Telecommunications Occupations	-	17	0%	-	-	0%	-	-	0%	-	17	0%
7203 - Contractors and Supervisors, Pipefitting Trades	1	3	33%	-	-	0%	-	-	0%	1	3	33%
7204 - Contractors and Supervisors, Carpentry Trades	47	32	147%	-	-	0%	-	2	0%	47	34	138%
7205 - Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers	8	57	14%	-	1	0%	2	2	100%	10	60	17%
7233 - Sheet Metal Workers	-	1	0%	-	-	0%	-	-	0%	-	1	0%
7234 - Boilermakers	-	-	0%	-	-	0%	-	-	0%	-	-	0%
7236 - Ironworkers	21	185	11%	-	-	0%	-	1	0%	21	186	11%
7237 - Welders and Related Machine Operators	5	34	15%	-	-	0%	-	-	0%	5	34	15%
7242 - Industrial Electricians	12	63	19%	-	-	0%	2	4	50%	14	67	21%
7244 - Electrical Power Line and Cable Workers	5	90	6%	-	-	0%	5	11	45%	10	101	10%
7251 - Plumbers	1	7	14%	-	-	0%	-	-	0%	1	7	14%
7252 - Steamfitters, Pipefitters and Sprinkler System Installers	6	21	29%	-	-	0%	-	-	0%	6	21	29%
7271 - Carpenters	3	446	1%	-	-	0%	-	-	0%	3	446	1%
7281 - Bricklayers	-	2	0%	-	-	0%	-	-	0%	-	2	0%
7293 - Insulators	-	-	0%	-	-	0%	-	-	0%	-	-	0%
7294 - Painters and Decorators (except interior decorators)	2	2	100%	-	-	0%	-	-	0%	2	2	100%
7301 - Contractors and supervisors, mechanic trades	2	9	22%	-	-	0%	-	-	0%	2	9	22%
7302 - Contractors and supervisors, heavy equipment operator crews	2	30	7%	-	-	0%	-	-	0%	2	30	7%
7311 - Construction Millwrights and Industrial Mechanics	2	11	18%	-	-	0%	-	-	0%	2	11	18%
7312 - Heavy- Duty Equipment Mechanics	12	75	16%	-	-	0%	-	-	0%	12	75	16%
7371 - Crane Operators	1	56	2%	-	-	0%	-	1	0%	1	57	2%
7372 - Drillers and Blasters - Surface Mining, Quarrying and Construction	-	4	0%	-	-	0%	-	-	0%	-	4	0%

4-Digit NOC Code	C&A			E&D			PM			Total		
	Lab Residents	Total Persons	Lab Residents as % of Total	Lab Residents	Total Persons	Lab Residents as % of Total	Lab Residents	Total Persons	Lab Residents as % of Total	Lab Residents	Total Persons	Lab Residents as % of Total
7384 - Other Trades and Related Occupations, n.e.c.	-	-	0%	-	-	0%	-	-	0%	-	-	0%
7452 - Material Handlers	15	28	54%	-	-	0%	4	4	100%	19	32	59%
7511 - Transport Truck Drivers	52	104	50%	-	-	0%	1	1	100%	53	105	50%
7512 - Bus Drivers, Subway Operators and Other Transit Operators	3	21	14%	-	-	0%	-	-	0%	3	21	14%
7521 - Heavy Equipment Operators (Except Crane)	40	360	11%	-	-	0%	5	5	100%	45	365	12%
7533 - Boat and Cable Ferry Operators and Related Occupations	-	-	0%	-	-	0%	-	-	0%	-	-	0%
7611 - Construction Trades Helpers and Labourers	1	131	1%	-	-	0%	-	-	0%	1	131	1%
7612 - Other Trades Helpers and Labourers	195	485	40%	-	-	0%	4	4	100%	199	489	41%
8211 - Supervisors, Logging and Forestry	-	5	0%	-	-	0%	-	-	0%	-	5	0%
8241 - Logging Machinery Operators	1	81	1%	-	-	0%	-	-	0%	1	81	1%
8616 - Logging and Forestry Labourers	1	7	14%	-	-	0%	-	1	0%	1	8	13%
9241 - Power Engineers and power system operators	-	3	0%	-	-	0%	-	-	0%	-	3	0%
Totals	751	3,187	24%	5	120	4%	47	505	9%	803	3,812	21%

Table 25.1 – Labrador Residents Working in Labrador by 4-Digit NOC Code – March 2016

4-Digit NOC Code	C&A			E&D			PM			Total		
	Lab Residents	Total Persons Working in Lab	Lab Residents as % of Total	Lab Residents	Total Persons Working in Lab	Lab Residents as % of Total	Lab Residents	Total Persons Working in Lab	Lab Residents as % of Total	Lab Residents	Total Persons Working in Lab	Lab Residents as % of Total
0016 - Senior Managers - Goods Production, Utilities, Transportation and Construction	-	7	0%	-	-	0%	-	-	0%	-	7	0%
0111 - Financial Managers	-	-	0%	-	-	0%	-	-	0%	-	-	0%
0112 - Human Resources Managers	2	14	14%	-	-	0%	1	2	50%	3	16	19%
0113 - Purchasing Managers	-	1	0%	-	-	0%	-	-	0%	-	1	0%
0114 - Other Administrative Services Managers	-	9	0%	-	-	0%	-	2	0%	-	11	0%
0124 - Advertising, marketing and public relations managers	-	-	0%	-	-	0%	-	-	0%	-	-	0%
0125 - Other Business Services Managers	3	3	100%	-	-	0%	-	1	0%	3	4	75%
0211 - Engineering Managers	-	7	0%	-	-	0%	-	1	0%	-	8	0%
0213 - Computer and Information Systems Managers	-	1	0%	-	-	0%	-	1	0%	-	2	0%
0711 - Construction Managers	1	53	2%	-	-	0%	2	23	9%	3	76	4%
1111 - Financial Auditors and Accountants	-	3	0%	-	-	0%	-	-	0%	-	3	0%
1114 - Other Financial Officers	-	-	0%	-	-	0%	-	5	0%	-	5	0%
1121 - Human Resources professionals	5	11	45%	-	-	0%	3	4	75%	8	15	53%
1122 - Professional Occupations in Business management consulting	-	-	0%	-	-	0%	-	-	0%	-	-	0%
1123 - Professional occupations in advertising, marketing and public relations	2	5	40%	-	-	0%	1	1	100%	3	6	50%
1221 - Administrative Officers	2	4	50%	-	-	0%	2	2	100%	4	6	67%
1223 - Human resources and Recruitment Officers	-	-	0%	-	-	0%	-	-	0%	-	-	0%
1225 - Purchasing Agents and Officers	1	16	6%	-	-	0%	-	12	0%	1	28	4%
1241 - Administrative Assistants	3	20	15%	-	-	0%	1	3	33%	4	23	17%
1311 - Accounting technicians and bookkeepers	1	3	33%	-	-	0%	1	1	100%	2	4	50%
1411 - General Office support workers	26	30	87%	-	-	0%	-	-	0%	26	30	87%
1431 - Accounting and Related Clerks	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2113 - Geologists, Geochemists and Geophysicists	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2131 - Civil Engineers	1	33	3%	-	2	0%	-	6	0%	1	41	2%
2132 - Mechanical Engineers	-	6	0%	-	-	0%	-	-	0%	-	6	0%
2133 - Electrical and Electronics Engineers	-	4	0%	-	-	0%	2	4	50%	2	8	25%
2141 - Industrial and Manufacturing Engineers	-	41	0%	-	-	0%	3	18	17%	3	59	5%
2144 - Geological Engineers	-	-	0%	-	2	0%	-	1	0%	-	3	0%

4-Digit NOC Code	C&A			E&D			PM			Total		
	Lab Residents	Total Persons Working in Lab	Lab Residents as % of Total	Lab Residents	Total Persons Working in Lab	Lab Residents as % of Total	Lab Residents	Total Persons Working in Lab	Lab Residents as % of Total	Lab Residents	Total Persons Working in Lab	Lab Residents as % of Total
2147 - Computer Engineers (Except Software Engineers and Designers)	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2148 - Other Professional Engineers, n.e.c.	-	16	0%	-	-	0%	1	6	17%	1	22	5%
2151 - Architects	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2153 - Urban and Land Use Planners	-	1	0%	-	1	0%	-	2	0%	-	4	0%
2154 - Land Surveyors	8	32	25%	-	-	0%	-	2	0%	8	34	24%
2171 - Information Systems Analysts and Consultants	2	4	50%	-	-	0%	1	3	33%	3	7	43%
2221 - Biological Technologists and Technicians	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2231 - Civil Engineering Technologists and Technicians	-	17	0%	-	2	0%	-	2	0%	-	21	0%
2232 - Mechanical Engineering Technologists and Technicians	2	5	40%	-	-	0%	-	-	0%	2	5	40%
2234 - Construction Estimators	-	3	0%	-	1	0%	-	-	0%	-	4	0%
2241 - Electrical and Electronics Engineering Technologists and Technicians	1	5	20%	-	-	0%	4	6	67%	5	11	45%
2243 - Industrial Instrument Technicians and Mechanics	-	2	0%	-	-	0%	-	1	0%	-	3	0%
2251 - Architectural Technologists and Technicians	-	-	0%	-	-	0%	-	-	0%	-	-	0%
2253 - Drafting Technologists and Technicians	1	13	8%	-	-	0%	-	-	0%	1	13	8%
2263 - Inspectors in Public and Environmental Health and Occupational Health and Safety	4	45	9%	2	7	29%	2	11	18%	8	63	13%
2264 - Construction Inspectors	-	3	0%	-	3	0%	-	14	0%	-	20	0%
2271 - Air Pilots, Flight Engineers and Flying Instructors	-	-	0%	-	-	0%	-	-	0%	-	-	0%
3234 - Paramedical Occupations	7	30	23%	-	-	0%	-	-	0%	7	30	23%
4112 - Lawyers and Quebec Notaries	-	-	0%	-	-	0%	-	-	0%	-	-	0%
4161 - Natural and Applied Science Policy Researchers, Consultants and Program Officers	1	9	11%	1	4	25%	2	7	29%	4	20	20%
4162 - Economists and Economic Policy Researchers and Analysts	-	-	0%	-	-	0%	-	-	0%	-	-	0%
4169 - Other Professional Occupations in Social Science, n.e.c.	2	4	50%	-	-	0%	-	-	0%	2	4	50%
4312 - Firefighters	-	2	0%	-	-	0%	-	-	0%	-	2	0%
6313 - Accommodation, travel, tourism and related services supervisors	4	8	50%	-	-	0%	-	-	0%	4	8	50%
6321 - Chefs	-	-	0%	-	-	0%	-	-	0%	-	-	0%
6322 - Cooks	3	10	30%	-	-	0%	-	-	0%	3	10	30%

4-Digit NOC Code	C&A			E&D			PM			Total		
	Lab Residents	Total Persons Working in Lab	Lab Residents as % of Total	Lab Residents	Total Persons Working in Lab	Lab Residents as % of Total	Lab Residents	Total Persons Working in Lab	Lab Residents as % of Total	Lab Residents	Total Persons Working in Lab	Lab Residents as % of Total
6541 - Security Guards and Related security service Occupations	24	44	55%	1	1	100%	-	-	0%	25	45	56%
6711 - Food Counter Attendants, Kitchen Helpers and Related support Occupations	107	146	73%	-	-	0%	-	-	0%	107	146	73%
7201 - Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations	7	26	27%	-	-	0%	-	-	0%	7	26	27%
7202 - Contractors and Supervisors, Electrical Trades and Telecommunications Occupations	-	13	0%	-	-	0%	-	-	0%	-	13	0%
7203 - Contractors and Supervisors, Pipefitting Trades	1	3	33%	-	-	0%	-	-	0%	1	3	33%
7204 - Contractors and Supervisors, Carpentry Trades	3	31	10%	-	-	0%	-	2	0%	3	33	9%
7205 - Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers	8	48	17%	-	1	0%	-	1	0%	8	50	16%
7233 - Sheet Metal Workers	-	1	0%	-	-	0%	-	-	0%	-	1	0%
7234 - Boilermakers	-	-	0%	-	-	0%	-	-	0%	-	-	0%
7236 - Ironworkers	21	185	11%	-	-	0%	-	1	0%	21	186	11%
7237 - Welders and Related Machine Operators	5	32	16%	-	-	0%	-	-	0%	5	32	16%
7242 - Industrial Electricians	12	63	19%	-	-	0%	2	2	100%	14	65	22%
7244 - Electrical Power Line and Cable Workers	5	76	7%	-	-	0%	5	5	100%	10	81	12%
7251 - Plumbers	1	7	14%	-	-	0%	-	-	0%	1	7	14%
7252 - Steamfitters, Pipefitters and Sprinkler System Installers	6	21	29%	-	-	0%	-	-	0%	6	21	29%
7271 - Carpenters	87	413	21%	-	-	0%	-	-	0%	87	413	21%
7281 - Bricklayers	-	2	0%	-	-	0%	-	-	0%	-	2	0%
7293 - Insulators	-	-	0%	-	-	0%	-	-	0%	-	-	0%
7294 - Painters and Decorators (except interior decorators)	2	2	100%	-	-	0%	-	-	0%	2	2	100%
7301 - Contractors and supervisors, mechanic trades	2	8	25%	-	-	0%	-	-	0%	2	8	25%
7302 - Contractors and supervisors, heavy equipment operator crews	2	26	8%	-	-	0%	-	-	0%	2	26	8%
7311 - Construction Millwrights and Industrial Mechanics	2	11	18%	-	-	0%	-	-	0%	2	11	18%
7312 - Heavy- Duty Equipment Mechanics	12	66	18%	-	-	0%	-	-	0%	12	66	18%
7371 - Crane Operators	11	54	20%	-	-	0%	-	-	0%	11	54	20%
7372 - Drillers and Blasters - Surface Mining, Quarrying and Construction	-	3	0%	-	-	0%	-	-	0%	-	3	0%

4-Digit NOC Code	C&A			E&D			PM			Total		
	Lab Residents	Total Persons Working in Lab	Lab Residents as % of Total	Lab Residents	Total Persons Working in Lab	Lab Residents as % of Total	Lab Residents	Total Persons Working in Lab	Lab Residents as % of Total	Lab Residents	Total Persons Working in Lab	Lab Residents as % of Total
7384 - Other Trades and Related Occupations, n.e.c.	1	1	100%	-	-	0%	-	-	0%	1	1	100%
7452 - Material Handlers	15	28	54%	-	-	0%	4	4	100%	19	32	59%
7511 - Transport Truck Drivers	52	100	52%	-	-	0%	1	1	100%	53	101	52%
7512 - Bus Drivers, Subway Operators and Other Transit Operators	20	21	95%	-	-	0%	-	-	0%	20	21	95%
7521 - Heavy Equipment Operators (Except Crane)	37	242	15%	-	-	0%	5	5	100%	42	247	17%
7533 - Boat and Cable Ferry Operators and Related Occupations	-	-	0%	-	-	0%	-	-	0%	-	-	0%
7611 - Construction Trades Helpers and Labourers	14	57	25%	-	-	0%	-	-	0%	14	57	25%
7612 - Other Trades Helpers and Labourers	192	457	42%	-	-	0%	4	4	100%	196	461	43%
8211 - Supervisors, Logging and Forestry	-	3	0%	-	-	0%	-	-	0%	-	3	0%
8241 - Logging Machinery Operators	1	69	1%	-	-	0%	-	-	0%	1	69	1%
8616 - Logging and Forestry Labourers	1	2	50%	-	-	0%	-	-	0%	1	2	50%
9241 - Power Engineers and power system operators	-	3	0%	-	-	0%	-	-	0%	-	3	0%
Totals	733	2,744	27%	4	24	17%	47	166	28%	784	2,934	27%

Appendix B – Contracts Awarded Since Project Sanction

Table 26 – Contracts Awarded Since Project Sanction

Package #	Package Title	Award Date	Successful Bidder(s)
SM0700-024	Transportation of Transmission Line Material (Island of Newfoundland)	07-Jan-2016	Hunt's Transport PTL Services / CSL Services Christopher's Trucking Akita Equipment & Auto Transport
CD510-002	Supply and Install Permanent Communications Systems-Prefabricated Buildings	06-Jan-2016	Talon Energy Services Inc
CT0327-017	HVdc Clearing and Access – Blocks 15 & 16	18-Sep-15	Springdale Forest Resources
CH0009-001	Construction of North and South Dams	14-Aug-15	Barnard Pennecon Limited Partnership
CT0342-002	Transmission Line Construction (HVac 230kV Modifications and NL Electrode Line	11-Aug-15	Locke's Electrical Limited
CD0508	Supply and Install Electrode Sites	02-Mar-15	H.J.O' Connell Construction Ltd.
CT0327-015	HVdc Clearing and Access – Section 1 (Blocks Nos. 9, 10, 11, and 12)	09-Jan-15	Johnson's Construction Limited
CH0008	North Spur Stabilization Works	23-Dec-14	Gilbert Newfoundland & Labrador Contracting Limited
CT0327-014	HVdc Clearing and Access – Section 1 (Blocks Nos. 13 & 14)	19-Dec-14	Springdale Forest Resources Inc.
CT0327-011	HVdc Clearing and Access – Section 1 (Blocks Nos. 7 & Partial 6)	23-Sep-14	C&T Enterprises Ltd.
CT0327-013	HVdc Clearing and Access-Section 1 (Blocks 4, 5 and 6)	2-Sep-14	Johnson's Construction Limited
CD0502	Construction of AC Substations	22-Aug-14	Alstom Grid Canada, Inc.
CT0342	Construction of AC Transmission Lines – Island	19-Aug-14	Locke's Electrical Limited
CD0534	Supply & Install Synchronous Condensers at Soldiers Pond	15-Aug-14	ALSTOM Renewable Power Canada Inc.
CT0327	Construction of 350kV HVdc Transmission Line	8-Aug-14	Valard Construction LP
PH0015	Supply of Isolated Phase Bus	25-Jul-14	Alfa Standard s.p.a
CT0327-010	HVdc Clearing and Access-Section 1	22-Jul-14	Springdale Forest Resources
CD0501	Supply & Install Converters and Cable Transition Compounds	19-Jun-14	Alstom Grid Canada Inc.
PT0331	Supply of Tower Hardware 450 kV HVdc	28-Sep-14	Slacan Industries Performed Line Products Limited
CH0034	Supply & Install Powerhouse Elevator	29-Apr-14	Thyssen Krupp Elevator
PT0353	Supply of Optical ground Wire (OPGW) 350 kV HVdc	16-Apr-14	Suzhou Furukawa Power Optic Cable Co.
PT0334	Supply of Steel Wires – 350 kV HVdc	14-Apr-14	Wire Rope Industries Ltd.
SD0564	Provision of Camp Services (CF)	8-Apr-14	Labrador Catering Ltd. Partnership
SH0041	Provision of Ground Transportation Services (HVGB-MF)	14-Mar-14	PENCAL Supplies Ltd & SBH Enterprises Inc., A Joint Venture
LC-SB-011	Subsea Rock Protection Design, Supply and Installation	7-Mar-14	Tideway (Luxembourg) S.A.
SM0709	Provision of Air Transportation	10-Feb-14	Innu Mikun Ltd. Partnership and PAL Airlines
SM0705	Provision of Laboratory Services	10-Feb-14	AMEC Americas Limited
PH0014	Supply of Generator Step-Up Transformers	10-Feb-14	ABB Inc.

Package #	Package Title	Award Date	Successful Bidder(s)
PD0537	Supply of Power Transformers, AC Substations at CF, MF and SP	10-Feb-14	ABB Inc.
SH0040	Provision of Garbage Removal and Disposal Services (MF)	23-Jan-14	Pardy's Waste Management & Industrial Services
PH0016	Supply of Generator Circuit Breakers	17-Jan-14	ABB Inc.
PT0328	Supply of Transmission Line Conductors-350 kV HVdc	2-Jan-14	General Cable Company Ltd. and Midal Cables Ltd.
PT0356	Stockbridge Dampers	20-Dec-13	Performed Line Products (Canada) Ltd.
PT0308	Supply of Steel Tower Foundations 350kV HVdc	20-Dec-13	Locweld Inc.
CH0032	Supply & Install Powerhouse & Spillway Hydro-Mechanical Equipment	19-Dec-13	Andritz Hydro Canada Inc.
PT0352	Supply of Anchor Materials 350 kV HVdc	18-Dec-13	Williams Form Hardware & Rockbolt (Canada) Ltd.
CT0319	AC Transmission Line Construction	17-Dec-13	Valard Construction LP
SH0018	Camp Catering, Housekeeping and Janitorial Services	16-Dec-13	Labrador Catering Limited Partnership
LC-SB-034	Conduit End Exit Verification	13-Dec-13	DOF Subsea Canada
CH0033	Supply & Install Powerhouse Cranes	9-Dec-13	Groupe LAR Inc.
LC-SB-027	Supply of Casing	4-Dec-13	East Coast Tubulars Ltd.
CH0007	Construction of Intake and Powerhouse Spillway and Transition Dams	29-Nov-13	Astaldi S.p.A
SH0022	Provision of Fuel Supply & Dispensing Services	18-Nov-13	Woodward's Oil Limited and Utapan Fuels Limited, a Joint Venture
CT0341	Clearing of Right Of Way for 315kV HVac Transmission Line (MF to CF)	15-Nov-13	Great Western Forestry Inc.
LC-SB-026	Drill Bits and Tooling	14-Nov-13	HALLIBURTON Dreco Energy Baker Hughes Canada Smith Bits A Schlumberger Company
LC-SB-036	Conduit End Connection	12-Nov-13	Kongsberg Oil and Gas Technologies
CD0503-002	Construction of Earthworks at Soldier's Pond	18-Oct-13	H.J. O'Connell
PT0330	Supply of Steel Towers-350 kV HVdc	10-Oct-13	Jyoti Amercias LLC
SM0700	Provision of Freight Forwarding Services	3-Oct-13	Panalpina Inc., Panprojects Division
LC-SB-023	Drilling Fluids Services for HDD Program	6-Sep-13	M-I SWACO, a Division of Schlumberger Canada Limited
LC-SB-024	Directional Services for HDD Program	6-Sep-13	Baker Hughes Canada Company
CD0503-001	Construction of Earthworks at Churchill Falls	5-Sep-13	Johnson's Construction Limited
LC-SB-021	Civil Works-SOBI	22-Aug-13	C&T Enterprises Limited
PH0058	Supply of 600 V Switchgear	25-Jul-13	ABB Inc.
PT0329	Supply of Insulators 350 kV HVdc	22-Jul-13	Seves Canada Inc.
CH0003	Supply and Install Administrative Buildings	19-Jul-13	Opron Construction Inc.
LC-SB-022	Provision of Drilling Rig and Surface Spread for HDD Program	19-Jul-13	Direct Horizontal Drilling Inc.
CT0354	HVAC Marshalling Yard Civil and Electrical Works	17-Jul-13	Johnson's Construction Limited

Package #	Package Title	Award Date	Successful Bidder(s)
ST0311	Provision of Survey Services (315) kV HVac	10-Jul-13	MMM Group Limited & N.E. Parrott Surveys Limited, a joint venture
SM0704	Provision of Surveying Services	14-Jun-13	Edwards & Associates Ltd.
SD0565	Provision of Geotech Investigation Shoreline Pond Electrodes	6-Jun-13	Stantec Consulting Ltd.
PT0335	Supply of Anchor Materials – 315 kV HVac	22-Oct-13	Williams Form Hardware & Rockbolt (Canada) Ltd.
CH0024	Construction of Reservoir Clearing North Bank	25-Apr-13	Johnson Construction Ltd.
PT0303	Supply of Hardware 315 kV HVac	17-Apr-13	Mosdorfer GmbH (Austria)
PT0300	Supply of Transmission Line Conductors 315 kV HVac	5-Apr-13	Midal Cables Ltd.
SM0713	Provision of Geotechnical Investigation Services	27-Mar-13	AMEC Environment & Infrastructure
SM0701	Provision of 3rd Party Quality Surveillance and Inspection Services	18-Mar-13	SGS Canada Inc. Killick Group Ltd. GL Noble Denton Canada Ltd Moody International Ltd.
PT0307	Supply of Tower Foundations-315 kV HVac	5-Mar-13	Fabrimet
PT0302	Tower Steels for AC Lines	6-Feb-13	ŞA-RA Energy, Construction, Trade and Industry Inc.
PT0326	Supply of Steel Wires-315 kV HVac	28-Jan-13	Graybar Canada
PT0304	Optical Ground Wire Conductors (OPGW) 315 kV HVac	25-Jan-13	PT0304-001 Mosdorfer North Caroline Inc. PT0304--002 Suzhou Furukawa Power Optic Canada Inc.
PT0301	Supply of Insulators 315 kV HVac	18-Jan-13	Seves Canada Inc.
SH0054	Temporary Site Services	10-Jan-13	Labrador Catering Limited Partnership
CH0030	Turbines and Generators	2-Jan-13	Andritz Hydro Canada Inc.
LC-SB-003	Submarine Cable Design, Supply and Install	29-Nov-12	Nexans Norway AS
LC-SB-018	Provision of Third Party Equipment, Manufacturing, Supply, and Installation Surveillance Service	27-Nov-12	Lloyd's Register North America Spectrol Group
CH0006	Bulk Excavation Works	6-Nov-12	IKC-ONE Earthworks Constructors, a Partnership
SH0019	Provision of Security Services	1-Nov-12	Speuata Security Inc.
SH0020	Provision of Medical Services	1-Nov-12	Innu - Med Inc.
CH0002	Supply and Install Accommodations Complex Buildings	22-Oct-12	Liannu Limited Partnership
PH0038	Supply of Emergency Diesel Generator	12-Oct-12	Toromont CAT, a division of Toromont industries Ltd
LC-SB-017	Ocean Characteristic Monitoring and MetOcean Report	13-Sep-12	AMEC Environment & Infrastructure A Division of AMEC Americas
PH0036	Supply of Auxiliary Transformers	13-Aug-12	MVA Power

Package #	Package Title	Award Date	Successful Bidder(s)
CD0512	Construction Contract for Construction Power	20-Jun-12	G.J. Cahill & Company Ltd.
CH0004	Southside Access Road	25-Oct-12	Liannu
CH0048	Site Clearing Access Road & Ancillary Areas	20-Apr-12	Nukum Forestry Ltd
PD0522	Pre-Fabricated Control Room Building	11-Apr-12	Automatisation Grimard Inc.
PD0531	MV Instrument Transformer (Combined CT&PT Unit)	19-Mar-12	ABB Inc.
PD0515	138 kV and 25 kV Disconnect Switches (with and without ground switches)	13-Feb-12	Alstom Grid
PD0514	135 kV and 25 kV Circuit Breakers (dead tank type)	6-Feb-12	Alstom Grid Via Power Systems Consulting
PD0518	138 kV Capacitor Voltage Transformers (CVTs)	6-Feb-12	Alstom Grid Via Power Systems Consulting
PD0519	25 kV Vacuum Interrupters	6-Feb-12	Siemens Canada Limited
PD0520	25 kV 6x4 MVAR Capacitor Banks	6-Feb-12	ABB
PD0529	25 kV Reclosers	6-Feb-12	Siemens Canada Limited
PD0530	138 kV and 25 kV Class Surge Arresters	6-Feb-12	Graybar Canada
PD0523	Substation Service Transformers	19-Jan-12	Carte International Inc
LCP 00728	Web-Based Employment and Expenditure Tracking and Reporting Software	22-Aug-11	SCI Resource Software Inc.
LC-SB-002	Iceberg Tracking Program	19-Aug-11	Provincial Aerospace LTD. (PAL)
LC-SB-007	2011 HDD Pilot Bore Field Investigation Program	19-Aug-11	Mears Canada Corp.