APPENDIX A

Part 2 Population and Demographic Base Case Forecast

1 INTRODUCTION

This appendix summarizes the methodology used to estimate base case (future growth) population forecast without the Project. The purpose of this appendix is to support Volume 4 Section 28 Population and Demographics of the Site C Clean Energy Project EIS.

2 BASE CASE POPULATION FORECAST

BC Stats (BC Ministry of Citizens' Services and Open Government) prepares public forecasts for future population growth for local health areas (LHAs) in B.C. The Peace River Regional District (PRRD) is the Local Assessment Area (LAA) for the Population and Demographic VC in the EIS and is composed of the Peace River South and North LHAs.

BC Stats latest available population projection (PEOPLE 36) of the two LHAs was adopted to estimate future population growth of the LAA (BC Stats 2011b). The method forecasts the population from the latest base year estimate by forecasting births, deaths and migration. BC Stats indicated that the publically available forecasts for the two LHAs included migration associated with the Project construction phase as well as several large projects announced for the region. The Project assumptions were based on preliminary Project information with an indicated construction start date of 2012. The migration estimate is the number of persons (Project and non-Project workers plus dependents) that would take up residence in the LAA, excluding the worker camp population.

The Project migration values assumed by BC Stats and embedded in the public forecasts are shown in Table 1.

Table 1 Project population contribution in PEOPLE 36 population forecast for local health areas in the local assessment area

(Peace River South)	(Peace River North)
2012 = +113	2012 = +225
2013 = +113	2013 = +225
2014 = +113	2014 = +225
2015 = +113	2015 = +225
2016 = -113	2016 = -225
2017 = -113	2017 = -225
2018 = -113	2018 = -225
2019 = -68	2019 = -135
After 2019 = 0	After 2019 = +90[a]

NOTE:
[a] The addition of 90 persons is a one-time, continuous impact
SOURCE:
BC Ministry of Labour, Citizens' Services and Open government, Director (2011 pers.comm.)

The publically released population forecasts of the two LHAs were reduced by the respective values shown in Table 1 to yield a population projection that excludes the population effects of the Project. The resulting Base Case population projection is presented in Table 2.

The Project population presented in the effects assessment is added to the Base Case population to estimate the LAA's total population for each year of the construction phase.

Table 2 Base case population forecast (excludes Project)

Year	(Peace River South	(Peace River North)	LAA	B.C.
2011	27,779	35,972	63,751	4,573,300 ~~1,853,634~~
2012	28,051	36,541	64,592	4,615,100 ~~1,885,479~~
2013	28,476	37,414	65,890	4,663,600 ~~1,919,986~~
2014	28,912	38,320	67,232	4,715,400 ~~1,956,297~~
2015	29,356	39,254	68,610	4,770,600 ~~1,993,680~~
2016	29,777	40,176	69,953	4,827,600 ~~2,031,741~~
2017	29,964	40,624	70,588	4,886,900 ~~2,063,360~~
2018	30,137	41,053	71,190	4,947,800 ~~2,093,669~~
2019	30,310	41,470	71,780	5,008,900 ~~2,123,629~~
2020	30,428	41,835	72,263	5,070,000 ~~2,153,364~~
2021	30,656	42,437	73,093	5,130,600 ~~2,182,120~~
2022	30,862	43,057	73,919	5,190,800 ~~2,209,929~~
2023	31,054	43,670	74,724	5,250,700 ~~2,238,217~~
2024	31,237	44,269	75,506	5,310,000 ~~2,266,089~~
2025	31,415	44,879	76,294	5,368,500 ~~2,293,725~~

Year	(Peace River South	(Peace River North)	LAA	B.C.
2026	31,581	45,477	77,058	5,426,200 ~~2,321,145~~
2027	31,739	46,085	77,824	5,482,700 ~~2,348,634~~
2028	31,907	46,680	78,587	5,538,000 ~~2,375,937~~
2029	32,065	47,273	79,338	5,592,000 ~~2,403,483~~
2030	32,232	47,852	80,084	5,644,600 ~~2,430,669~~
2031	32,394	48,442	80,836	5,696,000 ~~2,457,986~~
2032	32,555	49,042	81,597	5,746,600 ~~2,485,146~~
2033	32,406	49,628	82,034	5,796,300 ~~2,512,139~~
2034	32,864	50,234	83,098	5,845,200 ~~2,538,931~~
2035	33,008	50,831	83,839	5,893,500 ~~2,565,588~~
2036	33,152	51,430	84,582	5,941,200 ~~2,591,783~~

NOTE:

[a] Population values are from People Run 36 for local health area (BC Stats 2011b) less the corresponding value reported in Table 1

SOURCE:

Modified from BC Stats (2011b); BC Stats (2012)

3 REFERENCES

3.1 Literature Cited

BC Stats. 2011a. *British Columbia Population Distribution Peace River RD for 2011.* Prepared by BC Stats with source data from Statistics Canada 2011 Census. Victoria, BC.

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3.2 Personal Communications

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