City of Port Moody

Climate Action Survey 2016



Public Reporting for the Climate Action Revenue Incentive Program (CARIP)

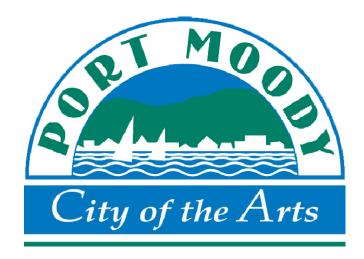
Climate Action Revenue Incentive (CARIP) Public Report for 2016

Local Government: City of Port Moody

Report Submitted by: Name: Winnie Yip

Role: Sustainability and Energy Specialist

Date: May 15, 2017



The City of Port Moody has completed the 2016 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2016 and proposed for 2017 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality.

2016 BROAD PLANNING ACTIONS

Broad Planning Actions

Broad Planning refers to high level planning that sets the stage for GHG emissions reductions, including plans such as Official Community Plans, Integrated Community Sustainability Plans, Climate Action Plans or Community Energy Emissions Plans. Land use planning that focuses on Smart Growth principles (compact, complete, connected, centred) plays an especially important role in energy and GHG reduction.

Cor	Community-Wide Actions Taken in 2016		
	Continued implementation of the City's OCP.		
	Continue work to integrate energy and greenhouse gas emission reduction opportunities into the		
	City's Zoning Bylaw, with expectation of adoption by 2017.		
	Completed review and comments to the Province's Climate Leadership Plan update.		
	Undertook research to better understand sources of community emissions.		
	Initiated development of the Energy Performance Design Guidelines for Part 3 buildings.		
	Initiated development of a Moody-Centre Transit-Oriented Area Plan.		
	Initiated update to the City's Sustainability Checklist.		
	Completed new Master Transportation Plan.		
	Continue development of Coronation Park Neighbourhood plan, which is within the Inlet Centre		
	Transit Oriented Development Area.		
Cor	mmunity-Wide Actions Proposed for 2017		
	Continue implementation of the City's OCP.		
	Adopt new Master Transportation Plan.		
	Adopt Energy Performance Design Guidelines for Part 3 Buildings.		
	Complete Coronation Park Neighbourhood plan, which is within the Inlet Centre Transit Oriented		
	Development Area.		
	Initiate work related to Energy Step Code adoption.		
	Complete update to the sustainability report card.		
	Continue development of a Moody-Centre Transit-Oriented Area Plan.		

Coı	Corporate Actions Taken in 2016	
	Continued implementation of the City's internal corporate carbon inventory system.	
	Continued to advance City's carbon management program in accordance with Council adopted	
	Carbon Neutral Principles.	
	Continued engagement with internal staff during broad planning opportunities (e.g., facilities	
	upgrades, etc.)	
	Explored opportunities for future offset actions.	
	Participated within the BC Hydro Community Energy Management network and Metro Vancouver	
	REAC - Climate Protection Subcommittee.	
Coi	Corporate Actions Proposed for 2017	
	Continue implementation of the City's internal corporate carbon inventory system.	

Continue to advance City's carbon management program in accordance with Council adopted
Carbon Neutral Principles.
Continue engagement with internal staff during broad planning opportunities (e.g., facilities
upgrades, etc.)
Explore opportunities for future offset actions.
Continual participation within the BC Hydro Community Energy Management network and Metro
Vancouver REAC - Climate Protection Subcommittee.

Broad Planning		
What is (are) your current GHG reduction target(s)?	10% below 2007 levels by 2017	
Has your local government used measure progress?	the Community Energy and Emissions Inventory (CEEI) to	Yes
What plans, policies or guidelines community?	govern the implementation of climate mitigation in your	
• Commu	nity Energy and Emissions (CEE) Plan	No
• Climate	Action Plan	No
 Integrat 	ed Community Sustainability Plan	Yes
Official (Community Plan (OCP)	Yes
 Regiona 	Growth Strategy (RGS)	Yes
• Do not h	nave a plan	
• Other:	•	
Does your local government have	a corporate GHG reduction plan?	No
Does your local government have	a climate reserve fund or something similar?	Yes

2016 BUILDINGS AND LIGHTING ACTIONS

Building and Lighting Actions

Low-carbon buildings use the minimum amount of energy needed to provide comfort and safety for their inhabitants and tap into renewable energy sources for heating, cooling and power. These buildings can save money, especially when calculated over the long term. This category also includes reductions realized from energy efficient street lights and lights in parks or other public spaces.

Cor	Community-Wide Actions Taken in 2016	
	Explored development of energy performance design guidelines.	
	Continued implementation of the City's existing policies.	
	Continued implementation of the City's Part 3 Building Energy Compliance Checklist.	
	Continued implementing sections 932 and 936 of the BC Building Code which is intended to increase	
	energy efficiency of newly constructed single and two family dwellings.	
Cor	mmunity-Wide Actions Proposed for 2017	
	Continue implementation of the City's existing policies.	
	Continue implementation of the City's Part 3 Building Energy Compliance Checklist.	
	Continue implementing sections 932 and 936 of the BC Building Code which is intended to increase	
	energy efficiency of newly constructed single and two family dwellings.	
	Explore potential adoption of BC Energy Step Code.	

Cor	orporate Actions Taken in 2016	
	Replaced City Hall Galleria lights with greater efficiency LED lights.	
	Reviewed design options for major envelope renovations at City Hall and the Recreation Center,	
	which are major capital projects that will significantly increase the energy efficiency at the	
	respective buildings.	
	Continued exploration of utility partnership and rebate options.	
	Continued regular conversion to LED lights in appropriate City facilities.	
Cor	porate Actions Proposed for 2017	
	Upgrade lighting throughout the City to obtain the biggest savings while optimizing operational	
	improvement. Facilities has an \$80,000 fund available to do these upgrades which will result in the	
	largest lighting improvement done to date.	
	Continue exploration of utility partnership and rebate options.	
	Continue regular conversion to LED lights in appropriate City facilities.	

2016 ENERGY GENERATION ACTIONS

Energy Generation Actions

A transition to renewable or low-emission energy sources for heating, cooling and power supports large, long-term GHG emissions reductions. Renewable energy including waste heat recovery (e.g. from biogas and biomass), geo-exchange, micro hydroelectric, solar thermal and solar photovoltaic, heat pumps, tidal, wave, and wind energy can be implemented at different scales, e.g. in individual homes, or integrated across neighbourhoods through district energy or co-generation systems.

Community-Wide Actions Taken in 2016

Continued implementation with the City's OCP, which has policies on renewable energy.

Continued implementation of "solar ready" regulation.

Community-Wide Actions Proposed for 2017

Continue actions taken in 2016.

Complete a study on the feasibility of installing photo-voltaic panels on the Recreation Complex and Civic Centre.

Corporate Actions Taken in 2016

Utilized and regularly maintained the geothermal energy generation infrastructure at the City's Police Station building.

Corporate Actions Proposed for 2017

Continue actions taken in 2016.

Energy Generation	
Is your local government developing, or constructing:	
A district energy system	No
A renewable energy system	No
Is your local government operating:	
A district energy system	No
A renewable energy system	Yes
Is your local government connected to a district energy system that is operated by another energy provider?	No
Are you aware of the Integrated Resource Recovery guidance page on the <u>BC Climate Action Toolkit</u> ?	Yes

2016 GREENSPACE/ NATURAL RESOURCE PROTECTION ACTIONS

Greenspace Actions

Greenspace/Natural Resource Protection refers to the creation of parks and greenways, boulevards, community forests, urban agriculture, riparian areas, gardens, recreation/school sites, and other green spaces, such as remediated brownfield/contaminated sites as well as the protection of wetlands, waterways and other naturally occurring features.

Co	ommunity-Wide Actions Taken in 2016	
	Adopted Parks and Recreation Master Plan.	
	Adopted updates to the City's Tree Management on City Lands Policy.	
	Adopted and implement the City's Knotweed Action Plan.	
	Continued implementation of the City's:	
	Environmentally Sensitive Areas management policies,	
	Streamside Protection and Enhancement Areas policies,	
	Tree Bylaw and Policy, and	
	Pesticide Use Control Bylaw.	
	Continued removal and control actions of invasive plants throughout City.	
	Continued supportive and engagement actions to enhance public stewardship of natural areas and	
	assets.	
Co	mmunity-Wide Actions Proposed for 2017	
	Continue implementation of the City's:	
	Environmentally Sensitive Areas management policies,	
	Streamside Protection and Enhancement Areas policies,	
	Tree Bylaw and Policy, and	
	Pesticide Use Control Bylaw.	
	Continue removal and control actions of invasive plants throughout City.	
	Continue supportive and engagement actions to enhance public stewardship of natural areas and	
	assets.	
	Exploring expansion of the City's Knotweed Treatment Program.	
	Development of the Rocky Point Park Master Plan.	
	Development of the Pioneer Park Master Plan.	
	Increase the planting of cold tolerant plants (rated for colder plant zones) to provide extra resiliency	
	for the City's green landscapes to possible harsh winter conditions.	

Со	Corporate Actions Taken in 2016	
	See Community Actions. These Actions also represent Corporate Actions of the City.	
Co	rporate Actions Proposed for 2017	
	See Community Actions. These Actions also represent Corporate Actions of the City.	

Greenspace	
Does your local government have urban forest policies, plans or programs?	Yes

2016 SOLID WASTE ACTIONS

Solid Waste Actions

Reducing, reusing, recycling, recovering and managing the disposal of the residual solid waste minimizes environmental impacts and supports sustainable environmental management, greenhouse gas reductions, and improved air and water quality.

Cor	ommunity-Wide Actions Taken in 2016		
	Initiated the "Let's Clean Up Our Recycling" campaign, with a goal to decrease contamination.		
	Strengthened the City's Solid Waste Bylaw regulatory mechanisms with strategic expansion of		
	services to commercial sectors.		
	Replaced appropriate waste collection equipment to increase servicing efficiency.		
	Increased support, engagement and outreach to Multi-Family and commercial sectors as related to		
	organics and recycling programs.		
	Completed Public Annual Reports to showcase, benchmark and foster future diversion successes.		
	Continued Annual Centralized Recycling Day collection for surplus printed packaging and paper with		
	the addition Styrofoam and plastic films to the eligible drop-off materials.		
	75.6 % of residential waste was diverted from the landfill.		
Cor	nmunity-Wide Actions Proposed for 2017		
	Continue Annual Centralized Recycling Day collection for surplus printed packaging and paper with		
	the addition Styrofoam and plastic films to the eligible drop-off materials – expand to three		
	locations.		
	Increase enforcement of Solid Waste Bylaw to achieve compliance and decrease contamination of		
	recyclable material.		
	Continue outreach at public events for sustainable awareness of environmental endeavors.		

Coi	Corporate Actions Taken in 2016	
	Developed business plan for new solid waste infrastructure within facilities for 5 streams of waste.	
	Expanded Zero Waste Reduction initiative (e.g., add more facilities, designate waste ambassadors,	
	etc.).	
Corporate Actions Proposed for 2017		
	Implement Eco Stations within facilities that generate <3 streams of waste or more.	
	Remove garbage bins from offices to promote proper waste sorting.	

Solid Waste	
Does your local government have construction and demolition waste reduction policies, plans	Yes
or programs?	
Does your local government have organics reduction/diversion policies, plans or programs?	Yes

2016 TRANSPORTATION ACTIONS

Transportation Actions

Transportation actions that increase transportation system efficiency, emphasize the movement of people and goods, and give priority to more efficient modes, e.g. walking, cycling, ridesharing, and public transit, can contribute to reductions in greenhouse gas emissions and more livable communities.

Coi	Community -Wide Actions Taken in 2016		
	Developed the City's Master Transportation Plan.		
	Continued City's support of the expansion of Sky Train system to Port Moody.		
	Promoted Bike to Work Week.		
	Initiated development of a Moody-Centre Transit-Oriented Area Plan.		
	Revised traffic signal coordination timing and implemented a traffic signal operations centre to		
	reduce congestions and corresponding GHG emissions. Continue adjustments to traffic signal		
	crossing times to promote walking and transit (Inlet Centre Area).		
	Completed Evergreen Extension Parking Plan.		
	Continued bus stop accessibility improvements.		
	Participated in the Northeast Sector Area Transit Plan.		
Coı	mmunity-Wide Actions Proposed for 2017		
	Promote Bike to Work Week.		
	Revise traffic signal coordination timing and implemented a traffic signal operations centre to		
	reduce congestions and corresponding GHG emissions. Continue adjustments to traffic signal		
	crossing times to promote walking and transit (St. Johns Area).		
	Adopt the City's Master Transportation Plan.		
	Improve walkability near rapid transit stations.		
	Develop a Parking Management Plan for the Evergreen Extension Parking.		

Cor	Corporate Actions Taken in 2016		
	Continued promotion and use of the MODO car share program for corporate travel.		
	Expanded the MODO car share program within the city to include two more vehicles.		
	Continued promotion of Bike to Work week.		
	Continued use of low-carbon fleet vehicles (e.g, full EVs and hybrid utilities vehicles)		
	Continued use and maintenance of City's 6 public electric vehicle charging stations.		
	Participated in the BC Commuter Challenge.		
Cor	porate Actions Proposed for 2017		
	Continue promotion and use of the MODO car share program for corporate travel.		
	Continue promotion of Bike to Work week.		
	Continue use of low-carbon fleet vehicles (e.g, full EVs and hybrid utilities vehicles)		
	Continue use and maintenance of City's 6 public electric vehicle charging stations.		
	Participate in the BC Commuter Challenge.		

Transportation		
Does your loca	al government have policies, plans or programs to support:	
•	Walking	Yes
•	Cycling	Yes
•	Transit Use	Yes
•	Electric Vehicle Use	Yes
•	Other (please specify)	N/A
•	al government have a transportation demand management (TDM) strategy (e.g. le-vehicle occupancy trips, increase travel options, provide incentives to	Yes
_	ividuals to modify travel behavior)?	
	•	NI.
•	al government have policies, plans or programs to support local food	No
production (th	us reducing transportation emissions)?	

2016 WATER AND WASTEWATER ACTIONS

Water and Wastewater Actions

Managing and reducing water consumption and wastewater is an important aspect of developing a sustainable built environment that supports healthy communities, protects ecological integrity, and reduces greenhouse gas emissions.

Coı	Community-Wide Actions Taken in 2016		
	Participated in the completion of the City's Integrated Stormwater Management Plan for the Chines		
	area.		
	Constructed a new water main in the Glenayre/College Park area to improve the efficiency and		
	control of this section of the water distribution system.		
	Worked with Metro Vancouver to explore measures for improving onsite rainwater management		
	for single lot developments.		
	Continued to enforce Metro Vancouver water restrictions under its Water Shortage Response Plan.		
	Continued the City's rain barrel program.		
Coı	mmunity-Wide Actions Proposed for 2017		
	Continue the City's rain barrel program.		
	Continue to enforce Metro Vancouver water restrictions under its Water Shortage Response Plan.		
	Initiate Northshore Integrated Stormwater Management Plan/Watershed Master Plan		

Cor	Corporate Actions Taken in 2016		
	Harvested non-potable water (e.g., rain water, groundwater, etc.) City irrigation purposes.		
	Participated in regional Municipal Water Conservation coordinator's meetings.		
	Implemented water conservation pads under the plants as they are planted to reduce the fr	equency	
	of watering and provide additional resiliency for the plants during drought conditions.		
	Increased the planting of drought tolerant plants to provide extra resiliency for the City's green		
	landscapes to possible drought conditions.		
Cor	Corporate Actions Proposed for 2017		
	Continue infrastructure/sewer planning for Northshore/loco Rd.		
	Continue revision of the City's Leak Detection Program.		
	Grant funding for water/sewer replacement project – Glenayre neighbourhood.		
	Continue implementation of water conservation pads under the plants as they are planted to		
	reduce the frequency of watering and provide additional resiliency for the plants during dro	ught	
	conditions.		
	Continue to increase the planting of drought tolerant plants to provide extra resiliency for t	he City's	
	green landscapes to possible drought conditions.		
Wa	ter Conservation		
Doe	es your local government have water conservation policies, plans or programs?	Yes	

2016 CLIMATE CHANGE ADAPTATION ACTIONS

Climate Change Adaptation Actions

For local governments, adaptation to a changing climate can take the form of changes in policy, management, technology and behaviour that minimize negative impacts or exploit opportunities. It can involve both "hard" and "soft" solutions, including: changes in infrastructure engineering, planning, zoning, bylaws, and public education.

Clin	Climate Change Adaptation Actions Taken in 2016		
Cili			
	Continued implementation of OCP, which includes climate change and energy policies.		
	Participated on the Fraser Basin Council's Joint Flood Management Program Committee.		
	Explored opportunities to integrate climate change adaptation into new developments.		
	Explored opportunities to integrate climate change adaptation into storm management planning		
	and other strategic plans.		
	Increased the planting of drought tolerant plants to provide extra resiliency for the City's green		
	landscapes to possible drought conditions.		
Cli	Climate Change Adaptation Actions Proposed for 2017		
	Increase the planting of cold tolerant plants (rated for colder plant zones) to provide extra resiliency		
	for the City's green landscapes to possible harsh winter conditions.		
	Continue to increase the planting of drought tolerant plants to provide extra resiliency for the City's		
	green landscapes to possible drought conditions		
	Continue implementation of OCP, which includes climate change and energy policies.		
	Continue participation on the Fraser Basin Council's Joint Flood Management Program Committee.		
	Explore opportunities to integrate climate change adaptation into new developments.		
	Explore opportunities to integrate climate change adaptation into storm management planning and		
	other strategic plans.		
	Explore actions to contribute towards the Metro Vancouver Regional Food System Action Plan.		

In 2016 did you consider climate change impacts in any of the following areas? (check if yes)	
Risk reduction strategies	Yes
Risk and Vulnerability assessment	Yes
Asset management	Yes
Infrastructure upgrades (e.g. stormwater system upgrades)	Yes
Cross-department working groups	No
Emergency response planning	No
Land-use policy changes (eg. OCP, DPA)	Yes
Economic diversification initiatives	No
Ecosystem-based approaches (incl. shorelines)	Yes
Incentives (e.g. property owner reducing stormwater run-off)	No
Public education and awareness	Yes
Research (e.g.mapping, participation in studies)	Yes

INNOVATION AND PEER-TO-PEER LEARNING

Programs, Partnerships and Funding Opportunities

Local governments often rely on programs, partnerships and funding opportunities to achieve their climate action goals. Please share the names of programs and organizations that have supported your local government's climate actions by listing each entry in the box below.

Programs and Funding
The City received funding support from BC Hydro's Sustainable Communities Program.

2016 CARBON NEUTRAL REPORTING

Local governments are required to report on their progress in achieving their carbon neutral goal under the Climate Action Charter. Working with B.C. local governments, the joint Provincial-UBCM Green Communities Committee (GCC) has established a common approach to determining carbon neutrality for the purposes of the Climate Action Charter, including a Carbon Neutral Framework and supporting guidance for local governments on how to become carbon neutral.

Prior to completing this survey, please ensure that you are familiar with guidance available on the B.C. Climate Action Toolkit website, especially Becoming Carbon Neutral: A Guide for Local Governments in British Columbia.

Reporting Emissions

Did you measure your local government's corporate GHG emissions in 2016?	Yes
If your local government measured 2016 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from services delivered directly by your local government:	1,669 tCO2e
If your local government measured 2016 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from contracted services:	158 tCO2e
TOTAL A: CORPORATE GHG EMISSIONS FOR 2016	1,827 tCO2e

Reporting Reductions and Offsets

To be carbon neutral, a local government must balance their TOTAL corporate GHG emissions by one or a combination of the following actions:

- undertake GCC-supported Option 1 Projects
- undertake GCC-supported Option 2 Projects (community GHG emissions reduction projects that meet project eligibility requirements)
- purchase carbon offsets from a credible offset provider

If applicable, please report the 2016 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO2e)) being claimed from Option 1 GHG Reduction Projects:

OPTION 1 PROJECTS	REDUCTIONS
Household Organic Waste Composting	603 tCO2e
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2016	603 tCO2e

Corporate GHG Emissions Balance for 2016

Your local government's Corporate GHG Emissions Balance is the difference between total corporate GHG emissions (direct + contracted emissions) and the GHG emissions reduced through GCC Option 1 and Option 2 projects and/or the purchase of offsets.

CORPORATE GHG EMISSIONS BALANCE FOR 2016 = 1224 tCO2e

GCC CLIMATE ACTION RECOGNITION PROGRAM

Green Communities Committee (GCC) Climate Action Recognition Program

The joint Provincial-UBCM Green Communities Committee (GCC) is pleased to be continuing the Climate Action Recognition Program again this year. This multi-level program provides the GCC with an opportunity to review and publicly recognize the progress and achievements of each Climate Action Charter (Charter) signatory.

This year a new recognition level has been added – **Level 3: Accelerating Progress on Charter Commitments**–. Recognition is provided on an annual basis to local governments who demonstrate progress on their Charter commitments, according to the following:

Level 1 – Demonstrating Progress on Charter Commitments: for local governments who demonstrate progress on fulfilling one or more of their Charter commitments

Level 2 – Measuring GHG Emissions: for local governments that achieve level 1, and who have measured their Corporate GHG Emissions for the reporting year and demonstrate that they are familiar with the Community Energy and Emissions Inventory (CEEI)

Level 3 – Accelerating Progress on Charter Commitments: for those local governments who have achieved level 1 and 2 and have demonstrated undertaking significant action (corporately or community wide) to reduce GHG emissions in the reporting year (ie: through undertaking a GHG reduction project, purchasing offsets, establishing a reserve fund).

Level 4 - Achievement of Carbon Neutrality: for local governments who achieve carbon neutrality in the reporting year.

For purposes of Level 3 recognition, if applicable, please identify any new or ongoing corporate or community wide GHG reduction projects (other than an Option 1 or Option 2 project) undertaken by your local government that reflects a significant investment of time or financial resources and is intended to result in significant GHG reductions:

PROJECT NAME:

Building Energy Performance Design Guidelines.

BC Step Code Adoption and Implementation.

Moody Centre Transit-Oriented Development Neighbourhood Plan.

Master Transportation Plan Implementation (with significant mode shift targets).

Solid waste reduction and diversion program.

Based on your local government's 2016 CARIP Climate Action/Carbon Neutral Progress Survey, please check the GCC Climate Action Recognition Program level that best applies:

Level 1 – Demonstrating Progress on Charter Commitments	
Level 2 – Measuring GHG Emissions	1
Level 3 – Accelerating Progress on Charter Commitments	✓
Level 4 - Achievement of Carbon Neutrality	1
Not Sure	i

Appendix D: Sample Contracted Emissions Template

Reporting Year:	2016	
reporting real.	CALL SOMEONIA CONTROLS AND THE STREET	

This form is also available online at http://www.toolkit.bc.ca/carbon-neutral-government. Local governments may choose alternate formats to the templates provided; however the substance must be the same as those provided in the sample templates.

Name of local government	City of Port Moody				
Designate Appointed to Sign Off on Estimation Template	Provide the name, phone and e-mail of the having the legal capacity to sign off on the Paul Rockwood Name	is Template (e.g., CAO	•		
	CFO (General Manager, Financial Services and Technology) Title				
	604-469-4504				
	Phone				
	PRockwood@portmoody.ca				
	Email				
Estimation Methodo	logy Information				
Rationale for Applying an	Describe why an estimation methodology emissions data as provided by the contra		an reporting actual		
Estimation	commoderne data de provided by the contra	ICIOI			
Estimation	Estimation methodology is used for some		nited access to actua		
Estimation			nited access to actua		
	Estimation methodology is used for som fuel consumption information.		nited access to actua		
Estimation Methodology Contracted Emission For each contract, ir	Estimation methodology is used for som fuel consumption information.	e contractors due to lim	ethodology option(s)		
Estimation Methodology Contracted Emission For each contract, ir used, and (3) the esservice area. Estimation Methodo Option 1: Ask Your (Option 2: Proxy Fue	Estimation methodology is used for some fuel consumption information. This indicate (1) the name and value of the contraction and the contraction	e contractors due to lime act (2) the estimation meach contract, organize	ethodology option(s)		
Estimation Methodology Contracted Emission For each contract, ir used, and (3) the esservice area. Estimation Methodo Option 1: Ask Your (Option 2: Proxy Fue	Estimation methodology is used for some fuel consumption information. Instruction and value of the contraction and the contraction are contracted and the contraction and the contraction are contracted and the contra	e contractors due to lime act (2) the estimation meach contract, organize	ethodology option(s)		

	TOTAL ANNUAL CONTRACTED EMISS TRADITIONAL SERVICE AREA	SIONS FOR	6.1
Solid Waste Collection,	CONTRACT NAME	ESTIMATION OPTION USED	ESTIMATED ANNUAL GHGS
Transportation and Diversion	Progressive Waste Solutions Canada	Option 2	11.3
	Harvest Fraser Richmond Organics*	Option 1*	71.2
	*Previous years fuel % estimate is		
	used to prevent unrealistically low		
	GHG estimates based on average.		,
	TOTAL ANNUAL CONTRACTED EMISSIONS FOR TRADTIONAL SERVICE AREA		82.5
Roads and Traffic Operations	CONTRACT NAME	ESTIMATION OPTION USED	ESTIMATED ANNUAL GHGS
	Scottish Line Painting	Option 1	6.4
	Mainroad Lower Mainland Contracting	Option 1	0.5
	Winvan Paving Ltd	Option 2	7.3
	Cobra Electric	Option 1	3.4
	CMDT Concrete Ltd	Option 2	28.7
	TOTAL ANNUAL CONTRACTED EMISSIONS FOR TRADITIONAL SERVICE AREA		46.3
Arts, Recreation and Cultural Services	CONTRACT NAME	ESTIMATION OPTION USED	ESTIMATED ANNUAL GHGS
	Treeko Contracting Ltd	Option 1	5.1
	Tree-Mendous Arb Care	Option 2	15.8
	Standard Electric BC Ltd	Option 1	1.0
	TOTAL ANNUAL CONTRACTED EMISSIONS FOR TRADITIONAL SERVICE AREA		21.9
Fire Protection	CONTRACT NAME	ESTIMATION OPTION USED	ESTIMATED ANNUAL GHGS
	A.W. Fireguard Supplies (1991) Ltd	Option 1	1.3
	TOTAL ANNUAL CONTRACTED EMISSIONS FOR TRADITIONAL SERVICE AREA		1.3

The information provided in this Contracted Emissions template is to the best of my knowledge correct and complete.

Designate Signature

General Manager, Financial Services and Technology (CFO)

Title

Date MAY 15, 2017