

ENVIRONMENTAL PROTECTION NOTICE

TAKE NOTICE THAT University of British Columbia (UBC) of 2329 West Mall, Vancouver, BC V6T 1Z4 applies to the Metro Vancouver Regional District (“Metro Vancouver”) pursuant to the Greater Vancouver Regional District Air Quality Management Bylaw 1082, 2008 for a Permit.

- The purpose of this application is to request changes to the authorized discharge of air contaminants from UBC’s combined heating and power facility located at 2337 Lower Mall, Vancouver, BC V6T 1Z4. UBC is currently operating under permit GVA1047.

The facility uses renewable & conventional natural gas and clean wood waste (biomass) to generate electricity and thermal energy to heat campus buildings. The request is to remove biomass use from an internal combustion engine (ES03) and replace with natural gas/renewable natural gas mix for better operability and to remove a biomass dryer. In addition to the above, UBC is adding a new 12 MW biomass boiler to provide additional heat and reduce greenhouse gas emissions, which they propose be regulated under MVRD Boiler and Heaters Regulation Bylaw No. 1087.

While the requested emissions under permit GVA1047 decrease, the total proposed facility emissions increase when the 12 MW biomass boiler is included. The potential effects of the proposed emissions on ambient air quality were assessed using a dispersion model in accordance with an approved model plan. The results of this assessment can be found on this website: <https://energy.ubc.ca/brdf-permit>

- The legal description of the land or premises where the plant, operation or source and treatment works are or will be located is Parcel Identified: 015-891-909, District Lot 3044 Group 1 New Westminster District Except Firstly: Part on plan 6147, Secondly: part on plan 9301, Thirdly: Part on Plan BCP6556, Fourthly: Part on plan BCP23719.

- A summary of the emission characteristics for the entire facility is as follow:

	<u>Primary</u>	<u>Secondary</u>
a. Combustion processes:	Biomass (Boilers)	Natural Gas (Boilers)
	Natural Gas (Engine)	
	<u>Current</u>	<u>Requested</u>
b. Maximum opacity:	5 Percent	5 Percent
c. Maximum annual operating hours:	8,000	8,500
d. Maximum total number of sources:	3	2
e. Expiry date:	N/A	2030-11-06

- The mass of material to be discharged, emitted or stored (per specific time period) is as follows:

Total Emissions from All Sources Based on Requested Limits and or Estimates*

Contaminant	Emissions (tonnes/ year)*			
	Authorized by Permit		Authorized by Regulation	Total Authorized
	Current Permit	Requested	Proposed Boiler	Requested
Particulate Matter	10.32	1.80	1.56	3.36
Volatile Organic Compounds	7.12	1.55	3.14	4.29
Nitrogen Oxides	44.16	32.92	27.38	60.3
Sulfur Dioxide	N/A	1.14	4.42	3.56
Total	61.60	37.41	36.5	71.51

*Detailed methods for calculating emissions are contained in the full application document.

This Notice is published pursuant to the *Environmental Management Act*, the Public Notification Regulation, and the Greater Vancouver Regional District Air Quality Management Bylaw 1082, 2008. A person who may be adversely affected by the granting or amending of the permit described in this notice may, within 30 days of its publication, notify Metro Vancouver’s District Director in writing stating how that person is affected. When making a decision on the permit or approval application, the District Director will consider the application, comments submitted and any responses provided by the applicant. Information collected during the comment period and the time following until a decision on the permit application has been made is collected under the authority of the **Freedom of Information and Protection of Privacy Act**. Your personal information and comment will be forwarded to the permit applicant for response to the District Director. By submitting a public comment, you consent to such disclosure.

Please note that submissions in response to this notice may be made available to the public as part of the public record, subject to the provisions of the *Freedom of Information and Protection of Privacy Act*.

Metro Vancouver
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