

ENVIRONMENTAL PROTECTION NOTICE

TAKE NOTICE THAT Mangrove Water Technologies Ltd. of 7462 Progress Way, Delta, BC V4G 1E1 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.

1. The purpose of this application is to request authorization to discharge air contaminants from a lithium chemical processing facility located at 7462 Progress Way, Delta, BC V4G 1E1.

Mangrove Water Technologies Ltd. operates a processing facility that receives technical grade lithium carbonate solid as feedstock. The feedstock is then processed through reaction, evaporation, filtration, electrolysis, and crystallization steps into battery grade lithium hydroxide solid.

Website for more information: <https://www.mangrovelithium.com/lithium-refining-process/>

2. The legal description of the land or premises where the plant, operation or source and treatment works are or will be located is Parcel A, Plan NWP62758, District Lot 129, Group 2, New Westminster Land District, except Plan BCP19382 PID: 002-269-864.
3. A summary of the emission characteristics for the entire facility is as follows:
 - a. Combustion processes: Primary fuel – Natural Gas; Secondary fuel – N/A;
 - b. Maximum Opacity: 5 Percent;
 - c. Maximum total number of sources: 4
 - d. Maximum duration of discharge of air contaminants: 8,760 hours/year
 - e. Authorization term requested: 10 years

4. 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)*
Ammonia	0.0048
Chlorine	0.39
Coarse Particulate Matter (LiOH·H ₂ O)	0.002
Combustion VOC	0.0543
Fine Particulate Matter	0.075
Methane	0.0229
Nitrogen Oxides	0.4942
Sulphur Oxides	0.0203
Total	1.064

*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.

As per the Environmental Protection Notice, available on our website [here](#), information collected during the comment period and the time following until a decision on the permit application has been made is collected by Metro Vancouver in accordance to s.26(c) of the *Freedom of Information and Protection of Privacy Act*. The information collected will be used for the purpose of making a decision on the permit or approval application and will be forwarded to the permit applicant for response to the District Director. By submitting a public comment, you consent to such disclosure. Also, your submission 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*. Should you have any questions about the collection of this personal information please contact the Privacy Officer at privacy@metrovancover.org.

Metro Vancouver
Attention: District Director
4515 Central Boulevard, Burnaby BC V5H 0C6

Phone: (604) 432-6200

Email: MangroveWaterTechComments@metrovancover.org