



PERMIT GVA0278

Pursuant to:

Greater Vancouver Regional District Air Quality Management Bylaw No. 1082, 2008
and the *BC Environmental Management Act*, S.B.C 2003, c.53

Issued to:

Weyerhaeuser Company Limited
(the "Permittee")

To Authorize:

the discharge of air contaminants to the air from
An Engineered Wood Manufacturing Plant

Located at:

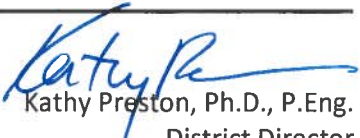
1272 Derwent Way, Delta, BC V3M 5R1

Effective Period:

The terms and conditions set out in the Permit apply to the existing or planned works as of
June 23, 2023 and this Permit will expire on June 01, 2033.

All previous versions of this Permit are invalid.

Issued: November 16, 1992
Amended: June 23, 2023


Kathy Preston, Ph.D., P.Eng.
District Director

SECTION 1 – AUTHORIZED EMISSION SOURCES

Authorization to discharge air contaminants from the authorized Emission Sources and Works listed below is subject to the specified terms and conditions.

Approximate locations of the emission sources are shown on the Site Plan in section 4.

EMISSION SOURCE 05: Three Resin Tanks discharging through a Vent(s).

MAXIMUM EMISSION FLOW RATE: The maximum rate of discharge is that resulting from vapour venting during tank filling, withdrawing and breathing.

MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y

MAXIMUM EMISSION QUALITY:

1. 5% Opacity

WORKS AND PROCEDURES:

Three resin tanks discharging through tank vents. Good operating practices.

EMISSION SOURCE 06: Welding Area discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 400 m³/min

MAXIMUM ANNUAL OPERATING HOURS: 2080 h/y

MAXIMUM EMISSION QUALITY:

1. 50 mg/m³ Particulate Matter
2. 10% Opacity

WORKS AND PROCEDURES:

Welding area discharging through stacks. Good operating practices.

EMISSION SOURCE 13: Natural Gas and/or Woodwaste Fired Furnace discharging through a ESP Exhaust(s).

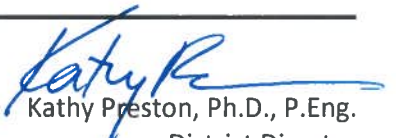
MAXIMUM EMISSION FLOW RATE: 325 m³/min

MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y

MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 17.94 GJ/h

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MAXIMUM EMISSION QUALITY:

1. 6 mg/m³ Formaldehyde
2. 5 mg/m³ Phenol
3. 15 mg/m³ Particulate Matter
4. 10% Opacity

WORKS AND PROCEDURES:

A GeoEnergy E-Tube wet-electrostatic (WESP) and related appurtenances together with good operating practices. The boiler must be fired with natural gas or woodwaste using good combustion practices and operating procedures.

The permittee must continuously monitor and record baseline operating parameters for the WESP. The minimum operating parameters to be monitored must include inlet temperature, WESP outlet temperature, transformer voltage and total power/amperage.

The temperature in the radiant section of the furnace must be continuously monitored and recorded in an accessible and visible location. This temperature measurement system must be calibrated at the discretion of, and in a manner acceptable to the District Director. The continuous record is to be maintained and made available for inspection by Environmental Regulation and Enforcement staff.

EMISSION SOURCE 15: Low Temperature Glue Dryer discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 650 m³/min

MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y

MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 13 GJ/h

MAXIMUM EMISSION QUALITY:

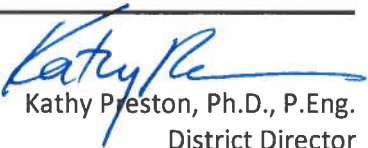
1. 12 mg/m³ Formaldehyde
2. 50 mg/m³ Particulate Matter
3. 10% Opacity
4. Particulate: Includes condensable organics extractable by hexane

WORKS AND PROCEDURES:

Low temperature glue dryer discharging through ten stacks. The firing of the dryer with natural gas using good combustion practices and operating procedures.

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EMISSION SOURCE 16: Woodworking equipment that includes a Resaw Bandmill, Billet Sizer, Billet Cut-off Saw, Grading Station discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 1129 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y

MAXIMUM EMISSION QUALITY:

1. 20 mg/m³ Particulate Matter
2. 10% Opacity

WORKS AND PROCEDURES:

Woodworking equipment that includes a resaw bandmill, billet sizer, billet cut-off saw, grading station discharging through a baghouse exhaust (pulse-jet fabric filter baghouse) and related appurtenances together with good operating practices.

EMISSION SOURCE 19: Press Sample Dryer discharging through a Roof Vent.

MAXIMUM EMISSION FLOW RATE: 4 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y

MAXIMUM EMISSION QUALITY:

1. 50 mg/m³ Particulate Matter
2. Particulate: Includes condensable organics extractable by hexane

WORKS AND PROCEDURES:

Good operating practices.

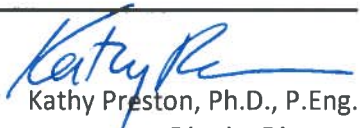
EMISSION SOURCE 21: Fuel Dryer discharging through a Cyclone Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 34 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 1.29 GJ/h

MAXIMUM EMISSION QUALITY:

1. 102 mg/m³ Total Hydrocarbons Expressed as methane.
2. 120 mg/m³ Particulate Matter
3. 10% Opacity

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WORKS AND PROCEDURES:

Cyclone and related appurtenances together with the firing of the dryer with natural gas using good combustion practices and operating procedures.

EMISSION SOURCE 27: Abrasive Planer discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: **991** m³/min
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 50 mg/m³ Particulate Matter
2. 10% Opacity

WORKS AND PROCEDURES:

Baghouse and related appurtenances together with good operating practices.

EMISSION SOURCE 28: Glue Area Ventilation Discharging through a wall exhaust.

MAXIMUM EMISSION FLOW RATE: **85** m³/min
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 5% Opacity

WORKS AND PROCEDURES:

Good operating practices.

EMISSION SOURCE 29: Thermal Oil Heater discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: **7** m³/min
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: **1.58** GJ/h

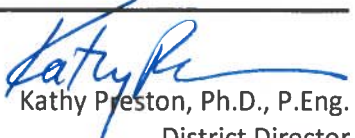
MAXIMUM EMISSION QUALITY:

1. 10% Opacity

WORKS AND PROCEDURES:

The firing of the thermal oil heater with natural gas (low NO_x burner) using good combustion practices and operating procedures.

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EMISSION SOURCE 30: Steam Boiler discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: **34** m³/min

MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM PRIMARY BURNER INPUT FIRING RATE: **1.37** GJ/h

MAXIMUM EMISSION QUALITY:

1. 10% Opacity

WORKS AND PROCEDURES:

The firing of the steam Boiler (low NO_x burner) with natural gas using good combustion practices and operating procedures.

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SECTION 2 – GENERAL REQUIREMENTS AND CONDITIONS

A. POLLUTION NOT PERMITTED

Notwithstanding any conditions in this permit, no person may discharge or allow or cause the discharge of any air contaminant so as to cause pollution as defined in the Greater Vancouver Regional District Air Quality Management Bylaw No. 1082, 2008 and the *Environmental Management Act*.

B. AUTHORIZED WORKS, PROCEDURES AND SOURCES

Works and procedures, which this permit authorizes in order to control the discharge of air contaminants, must be employed during all operating periods of the related sources. The Permittee must regularly inspect and maintain all such works, procedures and sources.

The District Director must be provided with reasonable notice of any changes to or replacement of authorized works, procedures or sources. Any changes to or replacement of authorized works, procedures or sources must be approved by the District Director in advance of operation. For certainty, this does not include routine maintenance or repair.

The discharge criteria described in Section 1 of this permit are applicable on the issued or last amended date of this permit unless specified otherwise. If a date different to the issued or last amended date is specified, the existing works, procedures and sources must be maintained in good operating condition and operated in a manner to minimize emissions.

C. NOTIFICATION OF MONITORING NON-COMPLIANCE

The District Director must be notified immediately of:

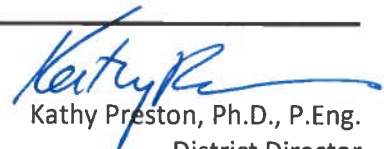
1. Any emission monitoring results, whether from a continuous emissions monitor or periodic testing, which exceed the quantity or quality authorized in Section 1 of this permit;
2. Any (a) interruption, (b) damage or (c) interference to any (i) continuous ambient air analyzer, (ii) meteorological sensor or (iii) related equipment required in Section 1 or Section 3 of this permit that would cause the continuous ambient air analyzer or meteorological sensor to be offline for a period greater than 48 hours; and
3. Any exceedance of a Metro Vancouver ambient air quality objective measured by an ambient monitoring station required in Section 1 or Section 3 of this permit.

Notification must be made to Metro Vancouver's 24-hour number: 604-436-6777, or to ERNotifications@metrovancover.org.

D. BYPASSES

The discharge of air contaminants that have bypassed authorized control works is prohibited unless advance approval has been obtained and confirmed in writing from the District Director.

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E. EMERGENCY PROCEDURES

In the event of an emergency or condition beyond the control of the Permittee that prevents effective operation of the authorized works or procedures or leads to unauthorized discharge, the Permittee must:

1. Comply with all applicable statutory requirements;
2. Immediately notify the District Director of the emergency or condition and of contingency actions invoked or planned to mitigate adverse impacts and restore compliance. Notification must be made to Metro Vancouver's 24-hour number: 604-436-6777 or EREnotifications@metrovanancouver.org; and
3. Take appropriate remedial action for the prevention or mitigation of pollution.

The District Director may specify contingency actions to be implemented to protect human health and the environment while authorized works are being restored and/or corrective actions are being taken to prevent unauthorized discharges.

If an emergency situation results in a "spill" as defined in the *Environmental Management Act* Spill Reporting Regulation, the spill must also be reported immediately to the Provincial Emergency Program by telephoning 1-800-663-3456.

F. AMENDMENTS

The terms and conditions of this permit may be amended, as authorized by applicable legislation. New works, procedures or sources or alterations to existing works, procedures or sources must receive authorization in advance of operation.

G. STANDARD CONDITIONS AND DEFINITIONS

Unless otherwise specified, the following applies to this permit:

1. Gaseous volumes are corrected to standard conditions of 20 degrees Celsius (°C) and 101.325 kilo Pascals (kPa) with zero percent moisture.
2. Contaminant concentrations from the combustion of specific fuel types are corrected to the following Oxygen content, unless specified otherwise:
 - 3% O₂ for natural gas and fuel oil; or
 - 8% O₂ for wood fuel
3. Where compliance testing is required, each contaminant concentration limit in this permit will be assessed for compliance based on a valid test using test methods approved by the District Director.
4. Visual opacity measurements are made at the point of maximum density, nearest the discharge point and exclude the effect of condensed, uncombined water droplets. Compliance determinations are based on a six-minute average in accordance with the United States Environmental Protection Agency (US EPA) Method 9: Visual Determination of the Opacity of Emissions from Stationary Sources. Continuous Emission Monitor System (CEMS) opacity compliance determinations are based on a one-hour average (taken from the top of each hour).
5. If authorized in Section 1 of this permit, standby fuel use is restricted to a maximum of 350 hours per year and to those periods during which the primary authorized fuel is not available. Fuel oil sulphur

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content must not exceed 15 milligrams per kilogram (mg/kg) and emissions during fuel oil firing must not exceed 10% opacity.

6. Definitions in the *Environmental Management Act* and Air Quality Management Bylaw apply to terminology used in this permit.
7. Threshold Limit Values (TLV) refer to the Time Weighted Average (TWA) exposure limits for substances specified in the American Conference of Governmental Industrial Hygienists Threshold Limit Values handbook, current on the latest date that this permit issuance or amendment came into effect.
8. Sulphur Oxides (SO_x) are expressed as Sulphur Dioxide.
9. Nitrogen Oxides (NO_x) are expressed as Nitrogen Dioxide.
10. The Canadian Council of Ministers of the Environment (CCME) "Environmental Guidelines for Controlling Emissions of Volatile Organic Compounds from Aboveground Storage Tanks (PN1180)" must be adhered to for all applicable tanks unless otherwise stated in this permit.
11. Authorized 'Maximum Annual Operating Hours' of 8760 hours per year for an emission source is equivalent to authorization for continuous operation of the emission source for an entire calendar year, including leap years.

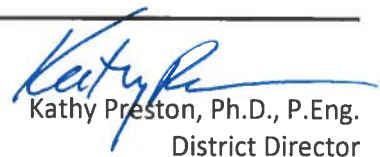
H. RECORDS RETENTION

All records and supporting documentation relating to this permit must be kept for at least three years after the date of preparation or receipt thereof, and be made available for inspection within 48 hours of a request by an Officer.

I. HEATING, VENTILATION, AIR CONDITIONING AND INTERNAL COMBUSTION ENGINES

Any natural gas-fired heating, ventilation or air conditioning system for buildings and any internal combustion engine located at the discharge site must be maintained and operated in a manner prescribed by the manufacturer to ensure good combustion of the fuel with minimum discharge of air contaminants.

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SECTION 3 – REPORTING REQUIREMENTS

A. MONITORING REQUIREMENTS AND REPORTING

Unless otherwise approved in writing by the District Director prior to any sampling or analysis, all measurements must be performed by an independent agency in accordance with Metro Vancouver Air Emissions Sampling Program Manual of Methods and Standard Operating Procedures and the BC Ministry of Environment Field Sampling Manual, as they may be amended from time to time. Any variance from these procedures must receive prior written approval from the District Director.

A minimum of 5 working days advance notice must be given prior to taking measurements required by this Monitoring and Sampling Program. Notification must be given to the Metro Vancouver Environmental Regulation & Enforcement Division (phone 604-436-6777, Fax 604-436-6707, email regulationenforcement@metrovanancouver.org).

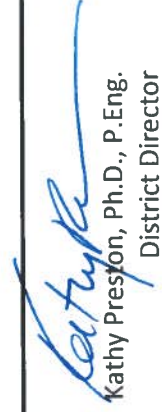
Unless otherwise specified, sampling must be performed under operating conditions representative of or greater than the previous 90 calendar days of operation. All field data and calculations must be submitted with monitoring results and they must be reported in the metric units that are used in this permit. These submissions must include process data relevant to the operation of the source of the emissions and the performance of the emission control works.

Unless otherwise specified or approved in writing by the District Director, stack sampling must not occur more than 120 calendar days prior to the due dates specified below.

The Permittee must conduct the following monitoring and sampling and submit electronic reports of the results to the District Director by the due dates specified in the following table using a password enabled web based application provided by Metro Vancouver.

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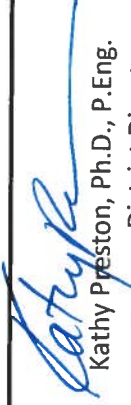
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EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	PARAMETER(S)	TEST METHOD	REPORT TYPE/TITLE
13	September 30, 2023	On or before September 30 for each subsequent year.	Submit a written report detailing the measured discharge rate and concentrations of particulate matter, phenol, formaldehyde and nitrogen oxides in the emissions. Alternative test methods may be considered if a draft test plan, including rationale and proposed test protocols is submitted to Metro Vancouver at least 31 days prior to conducting the stack test.	Formaldehyde, Phenol, Particulate Matter, Nitrogen Oxides	NCASI Test Method CI/WP-98.01, EPA Test Method 7E, EPA Test Method 5	Stack
16, 21	September 30, 2024	Every 5 years, on or before September 30 every fifth year.	Submit a written report detailing the measured discharge rate and concentration of particulate matter in the emissions.	Particulate Matter	EPA Test Method 5	Stack
13	March 31, 2028	Every 5 years, on or before March 31 every fifth year.	Submit a written report detailing the measured discharge rate and concentration of ammonia, methane, and volatile organic compounds in the emission. The report must also detail the GeoEnergy E-Tube wet-electrostatic	Ammonia, Methane, Combustion Volatile Organic Compound	EPA Test Method CTM-027, EPA Test Method CTM-042, EPA Test Method 25A	Stack

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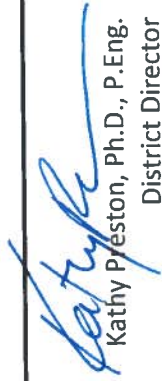

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EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	PARAMETER(S)	TEST METHOD	REPORT TYPE/TITLE
			<p>precipitator operational parameters recorded during the emission survey period.</p> <p>Alternative test methods may be considered if a draft test plan, including rationale and proposed test protocols, is submitted to Metro Vancouver at least 31 days prior to conducting the stack test.</p>			

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B. INFORMATION REPORTING REQUIREMENTS

The Permittee must submit electronic reports containing the required information to the District Director by the due dates specified in the following table using a password enabled web based application provided by Metro Vancouver.

EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	REPORT TYPE/TITLE
13	September 30, 2023	On or before September 30 for each subsequent year.	Submit a written report indicating frequency of inspection, maintenance and monitoring of the wet-electrostatic precipitator. This report must also include any actions taken or proposed to solve any problems detected.	WESP Inspection Information - Other
16, 27	March 31, 2024	On or before March 31 for each subsequent year.	Submit a written report indicating inspection frequency, maintenance and monitoring of the Baghouse. This report must also include any actions taken or proposed to solve any problems detected.	Baghouse
Facility	March 31, 2024	On or before March 31 for each subsequent year.	Submit a written report providing details of the types and amounts of principle products produced and principal raw materials used in the preceding calendar year.	Materials and Products
Facility	March 31, 2024	On or before March 31 for each subsequent year.	Submit a written report providing details of the types, amounts and end use of organic solvents and organic solvent-containing materials used in the preceding calendar year. The report must include details of the organic storage tank capacity, the material stored and the annual throughput for each tank for the preceding calendar year.	Solvent Use
Facility	March 31, 2024	On or before March 31 for each subsequent year.	Submit a written report providing details of the types and amounts of fuel burned in the preceding calendar year.	Fuel Use

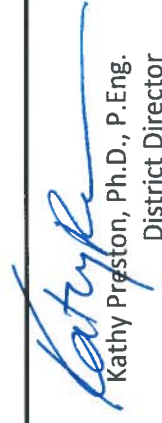

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EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	REPORT TYPE/TITLE
13, 30	March 31, 2024	On or before March 31 for each subsequent year.	Submit a written report providing details of the total number of hours and days operated in the preceding calendar year. Detailed records are to be maintained in a format approved by the District Director.	Operating Period
13	March 31, 2024	On or before March 31 for each subsequent year.	Submit a written report detailing the maintenance and repair record (including the percentage availability) of equipment required to monitor the temperature in the radiant section of the furnace during the previous calendar year.	Furnace Temperature Monitor Information - Other
05, 06, 13, 15, 16, 19, 21, 27, 28, 29, 30, Facility	September 30, 2027	N/A	<p>Submit for review, comment and written approval by the District Director a Technology Assessment Plan for assessing control technologies that will reduce emissions from the facility.</p> <p>A Qualified Professional* with demonstrable experience in engineered wood manufacturing emission control technologies must prepare the plan.</p> <p>The plan must include the proposed scope of the technology assessment, an outline or annotated table of contents for the Technology Assessment Report and the methodologies that will be used to:</p> <ul style="list-style-type: none"> - Identify emission control technology options - Quantify emission reductions - Quantify capital and operating costs 	Technology Assessment Plan Information - Other

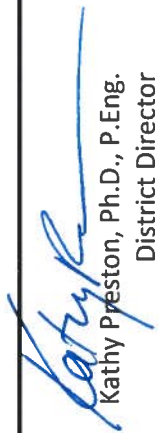

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EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	REPORT TYPE/TITLE
			<ul style="list-style-type: none"> - Assess the feasibility of implementation - Rank the potential control technologies <p>*As submitted by the permit holder using the most recent versions of the "Qualified Professional Declaration of Competency" and "Qualified Professional Conflict of Interest Disclosure Statement" forms, as available on the Metro Vancouver website.</p>	
05, 06, 13, 15, 16, 19, 21, 27, 28, 29, 30, Facility	April 30, 2028	N/A	<p>Submit a written Technology Assessment Report for review, comment and written approval by the District Director. The report must be completed in accordance with the approved Technology Assessment Plan.</p> <p>The report must include:</p> <ul style="list-style-type: none"> - Detailed methodology section including criteria used to assess and rank the control technology options - Review of all emission control technology options that were assessed for each emission source - Detailed discussions on application, performance and limitations - Feasibility: Infrastructure considerations including approximate costs and timelines for implementation - Proposed emission limits based on implementation of the preferred technologies - Implementation plan 	Technology Assessment Report Information - Other


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EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	REPORT TYPE/TITLE
05, 06, 13, 15, 16, 19, 21, 27, 28, 29, 30, Facility	September 30, 2029	N/A	<p>Submit a dispersion modelling plan for review, comment and written approval by the District Director. The plan must be developed using the most recent version of the British Columbia Air Quality Dispersion Modelling Guideline and the most recent version of the Metro Vancouver dispersion model plan template.</p> <p>The plan must include the following air contaminants:</p> <ul style="list-style-type: none"> - Fine particulate matter (PM_{2.5}) - Inhalable particulate matter (PM₁₀) - Nitrogen dioxide (NO₂) - Phenol - Formaldehyde <p>The plan must consider the following scenarios:</p> <ol style="list-style-type: none"> 1) Permitted emission rates 2) Reductions in permitted emissions based on the Technology Assessment Report 3) Scenario where there are no exceedances of any ambient air quality criteria at sensitive receptors 	Dispersion Model Plan


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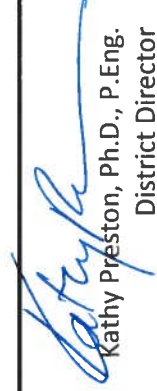
EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	REPORT TYPE/TITLE
05, 06, 13, 15, 16, 19, 21, 27, 28, 29, 30, Facility	April 30, 2030	N/A	Submit for review by Metro Vancouver staff a draft report of the results of a dispersion modelling assessment of the potential cumulative impacts of air contaminants emissions from the facility. The dispersion modelling must be conducted in accordance with the approved Dispersion Model Plan. All modelling files must be made available to Metro Vancouver upon request.	Dispersion Model Draft Report
05, 06, 13, 15, 16, 19, 21, 27, 28, 29, 30, Facility	September 30, 2030	N/A	Submit for approval by the District Director a final report of the results of a dispersion modelling assessment of the potential cumulative impacts of air contaminant emissions from the facility. The final report must address all Metro Vancouver staff comments on the draft dispersion modelling report that must be submitted to Metro Vancouver by April 30, 2030.	Dispersion Model Final Report

C. AMENDED OR ADDITIONAL REQUIREMENTS

Based on the results of the monitoring program, including the stack sampling results or any other information, the District Director may:

1. Amend the monitoring and reporting requirement of any of the information required by this Permit including plans, programs and studies.
2. Require additional investigations, tests, surveys or studies.

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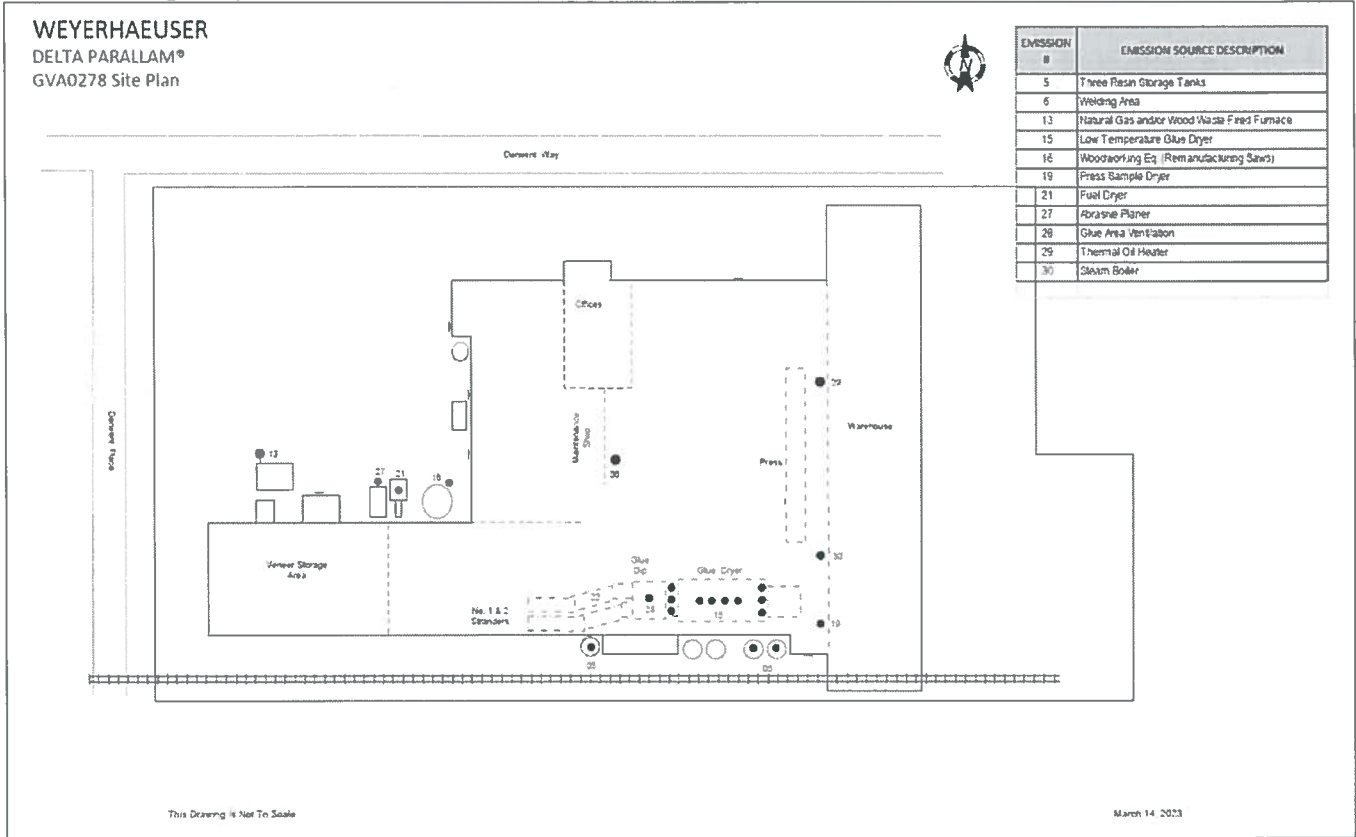
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METRO VANCOUVER REGIONAL DISTRICT AIR QUALITY MANAGEMENT PERMIT

SECTION 4 – SITE PLAN

LEGAL DESCRIPTION OF DISCHARGE SITE: Municipality of Delta, Parcel Identifier: 011-149-124, Lot 204, District Lot 351, Group 1, New Westminster District, Plan 77846.

The following site plan is not to scale and the locations of the discharge points are approximate.



Issued: November 16, 1992
 Amended: June 23, 2023

Kathy Preston
 Kathy Preston, Ph.D., P.Eng.
 District Director

Permit GVA0278