

PERMIT GVA1096

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:

Swiss Water Decaffeinated Coffee Company Inc.
(the "Permittee")

To Authorize:

the discharge of air contaminants to the air from
a Coffee Decaffeination Operation


Located at:

7750 Beedie Way, Delta, BC V4G 0A5

Effective Period:

The terms and conditions set out in the Permit apply to the existing or planned works as of
July 08, 2020 and this Permit will expire on July 31, 2030.

Issued: July 08, 2020


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

METRO VANCOUVER REGIONAL DISTRICT AIR QUALITY MANAGEMENT PERMIT

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 01: Green Bean Dump/Green Bean Silo discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 500 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 4000 h/y

MAXIMUM EMISSION QUALITY:

1. 5 mg/m³ Particulate Matter
2. 5% Opacity

WORKS AND PROCEDURES:

Green bean station, green bean cleaner and green bean storage silos controlled by a Donaldson 108MBT10 Baghouse with Ultra -Web pleated bags and related appurtenances together with good operating practices.

Stack Height: 25.0 m (above ground)
Inside Diameter: 0.81 m
Exit Temperature: 25°C
Orientation: vertical up
No raincap


EMISSION SOURCE 02: L3 - Dryer Exhaust discharging through a Cyclone Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 675 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8400 h/y
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 6.9 GJ/h

MAXIMUM EMISSION QUALITY:

1. 5 mg/m³ Particulate Matter
2. 5% Opacity

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WORKS AND PROCEDURES:

Natural gas fired vibrating bed coffee dryer using low NOx burner technology for 2 drying zones followed by one cooling zone. Each zone is controlled individually by one of three Heuman Environmental Cyclones and related appurtenances together with good operating practices.

Stack Height: 26 m (above ground)

Inside Diameter: 0.90 m

Exit Temperature: 60°C

Orientation: vertical up

No raincap

EMISSION SOURCE 03: Multi Hearth Furnace exhaust discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 67 m³/min

MAXIMUM ANNUAL OPERATING HOURS: 8400 h/y

MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 4.2 GJ/h

MAXIMUM AFTERBURNER INPUT FIRING RATE: 0.6 GJ/h

MAXIMUM EMISSION QUALITY:

1. 5 mg/m³ Particulate Matter
2. 5% Opacity

WORKS AND PROCEDURES:

Multi hearth carbon reactivation furnace, afterburner and wet scrubber system and related appurtenances together with good combustion and operating procedures.

The permit holder shall continuously monitor and record, via a data logger, the furnace and afterburner temperature and keep temperature records as noted in Section 2. The temperature measurement system shall be placed in a convenient and visible location and be calibrated annually using procedures approved by the District Director.

Stack Height: 24.3 m (above ground)

Inside Diameter: 0.46 m

Exit Temperature: 80°C

Orientation: vertical up

No raincap

MINIMUM INCINERATOR EXIT TEMPERATURE: 650 °C

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EMISSION SOURCE 04: Post Process Cleaning discharging through a Baghouse Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 125 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8400 h/y

MAXIMUM EMISSION QUALITY:

1. 5 mg/m³ Particulate Matter
2. 5% Opacity

WORKS AND PROCEDURES:

An Envirotech Camfil Farr Gold Series Dust Collector - GS8 Baghouse and related appurtenances together with good operating practices.

Stack Height: 24.0 m (above ground)
Inside Diameter: 0.46 m
Exit Temperature: 30°C
Orientation: vertical up
No raincap

EMISSION SOURCE 05: Low Pressure Boiler discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 70 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8400 h/y
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 12.7 GJ/h

MAXIMUM EMISSION QUALITY:


1. 5% Opacity

WORKS AND PROCEDURES:

Cleaver-Brooks FLX-1200 Watertube Boiler. The firing of the low NOx technology burners with natural gas using good combustion practices and operating procedures.

Stack Height: 25.0 m (above ground)
Inside Diameter: 0.6 m
Exit Temperature: 200°C
Orientation: vertical up
No raincap

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EMISSION SOURCE 06: Green Bean Transfer discharging through a Cyclone Exhaust(s).

MAXIMUM EMISSION FLOW RATE: 28 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 1400 h/y

MAXIMUM EMISSION QUALITY:

1. 50 mg/m³ Particulate Matter
2. 5% Opacity

WORKS AND PROCEDURES:

Green bean transfer from storage silos to the process feed tank. A cyclone disengagement vessel is used to separate the beans and dust from the pneumatic transfer air.

Stack Height: 22.9 m (above ground)
Inside Diameter: 0.2 m
Exit Temperature: 25°C
Orientation: vertical up
No raincap

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SECTION 2 – GENERAL REQUIREMENTS AND CONDITIONS

A. AUTHORIZED WORKS, PROCEDURES AND SOURCES

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

B. NOTIFICATION OF MONITORING NON-COMPLIANCE

The District Director must be notified immediately of 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. Notification shall be made to Metro Vancouver's 24-hour number: 604-436-6777, or to regulationenforcement@metrovancouver.org.

C. POLLUTION NOT PERMITTED

Notwithstanding any conditions in this permit, no person shall 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.

D. BYPASSES

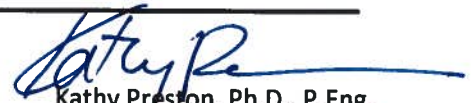
The discharge of air contaminants that have bypassed authorized control works is prohibited unless advance approval has been obtained and confirmed in writing from the District Director.

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 shall:

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 shall be made to Metro Vancouver's 24-hour number: 604-436-6777; and
3. Take appropriate remedial action for the prevention or mitigation of pollution.

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METRO VANCOUVER REGIONAL DISTRICT AIR QUALITY MANAGEMENT PERMIT

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 shall also be reported immediately to the Provincial Emergency Program by telephoning 1-800-663-3456.

F. AMENDMENTS

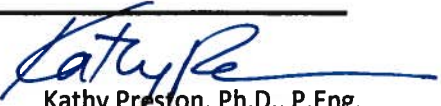
The terms and conditions of this permit may be amended, as authorized by applicable legislation. New works, procedures or sources or alterations to existing works, procedures or sources must receive authorization in advance of operation.

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 content shall not exceed 15 milligrams per kilogram (mg/kg) and emissions during fuel oil firing shall 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.

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Permit GVA1096

METRO VANCOUVER REGIONAL DISTRICT AIR QUALITY MANAGEMENT PERMIT

10. The Canadian Council of Ministers of the Environment (CCME) "Environmental Guidelines for Controlling Emissions of Volatile Organic Compounds from Aboveground Storage Tanks (PN1180)" shall 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

Air contaminants discharged from any natural gas-fired heating, ventilation or air conditioning system for buildings and any internal combustion engine located at the discharge site shall 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 shall 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.

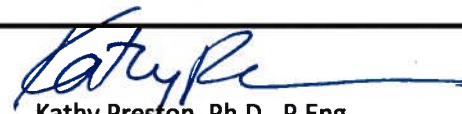
A minimum of 5 working days advance notice must be given prior to taking measurements required by this Monitoring and Sampling Program. Notification must be given to the Metro Vancouver Environmental Regulation & Enforcement Division (phone 604-436-6777, Fax 604-436-6707, email regulationenforcement@metrovancover.org).

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

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

EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	PARAMETER(S)	TEST METHOD	REPORT TYPE
01, 02, 03, 04, 06	June 30, 2021	Every 3 years, on or before June 30 every third year.	Written report detailing the measured discharge rate and concentration of Total Particulate Matter in the emissions.	Particulate Matter	Metro Vancouver AQ02/02/1.00M	Stack

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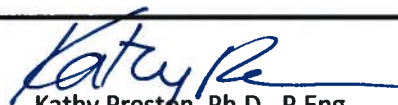
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B. INFORMATION REPORTING REQUIREMENTS

The Permittee shall submit electronic reports containing the required information to the District Director by the dates specified below using a password enabled web based application provided by Metro Vancouver.

EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	REPORT TYPE
01, 04	March 31, 2021	On or before March 31 for each subsequent year.	Written report summarizing frequency and results of all inspections and maintenance carried out on the baghouse(s). The report shall also include any actions, taken or proposed, to solve identified problems.	Baghouse
02	March 31, 2021	On or before March 31 for each subsequent year.	Written report summarizing frequency and results of all inspections and maintenance carried out on the furnace, after burner and scrubber(s). The report shall also include any actions, taken or proposed, to solve identified problems.	Scrubber
Facility	March 31, 2021	On or before March 31 for each subsequent year.	Written report providing details of the types and amounts of principal products produced and principal raw materials used in the preceding calendar year.	Materials and Products
Facility	March 31, 2021	On or before March 31 for each subsequent year.	Written report providing details of the types and amounts of fuel burned in the preceding calendar year.	Fuel Use
Facility	March 31, 2021	On or before March 31 for each subsequent year.	Written report providing details of the total number of hours and days operated in the preceding calendar year.	Operating Period

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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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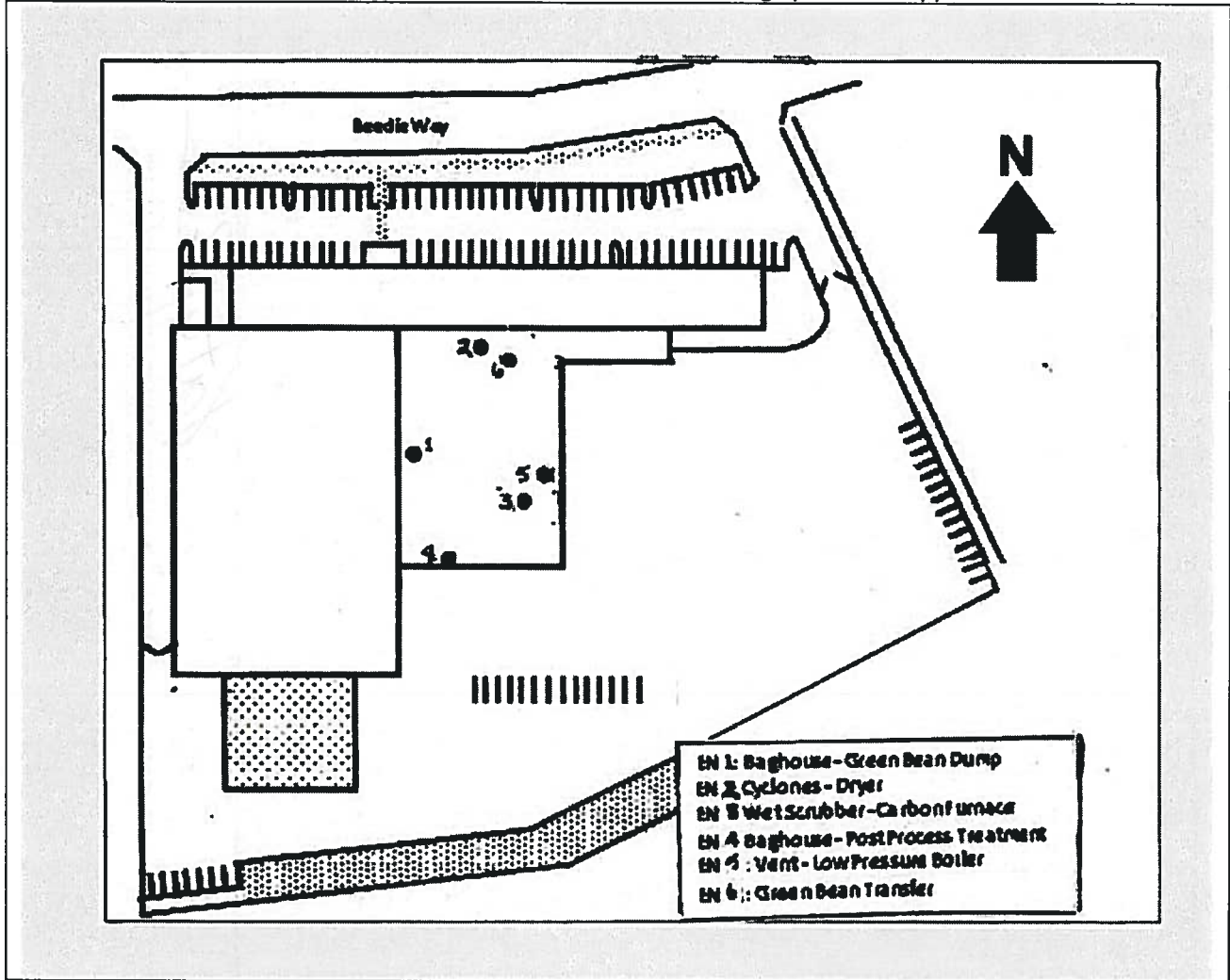
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SECTION 4 – SITE PLAN

LEGAL DESCRIPTION OF DISCHARGE SITE: Lot 7 District Lot 135 Group 2 New Westminster District Plan EPP64822

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



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