



**metrovancover**

Greater Vancouver Regional District • Greater Vancouver Water District

Greater Vancouver Sewerage and Drainage District • Metro Vancouver Housing Corporation

4330 Kingsway, Burnaby, BC, Canada V5H 4G8 604-432-6200 www.metrovancover.org

*Policy & Planning Department, Regulation & Enforcement Division, Telephone: 604-432-6200 Fax: 604-436-6707*

## PERMIT GVA0176

Pursuant to  
Greater Vancouver Regional District Air Quality Management Bylaw No. 1082, 2008  
and BC Environmental Management Act

### **Molson Canada 2005**

located at  
**1550 Burrard Street, Vancouver, British Columbia V6J 3G5**

is authorized to discharge air contaminants to the air from a  
**Brewery**

located at the above address, subject to the requirements in this Permit.

Contravention of any of these requirements is a violation of the bylaw  
and may result in enforcement action.

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Date Issued: November 30, 1992  
Date Ammended: **NOV 30 2010**  
(most recent)

Silvano Padovan, Assistant District Director  
Permit GVA0176

**GREATER 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 are subject to the specified terms and conditions.

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

**EMISSION SOURCE 02: No. 1 and No. 2 natural gas fired power boilers (#2 oil standby) discharging through a Stack(s).**

MAXIMUM EMISSION FLOW RATE: **397** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** hrs/yr  
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: **75.9** GJ/hr  
MAXIMUM FUEL USE: **664446** GJ

MAXIMUM EMISSION QUALITY:

1. 5% Opacity.

WORKS AND PROCEDURES:

Firing of the boilers with natural gas using good operating procedures. Operation is restricted to one boiler at a time. Standby fuel is authorized subject to conditions specified in section 2.C.5.

**EMISSION SOURCE 03: Brew kettle, cereal cooker, lauter tun, mash tun and hot wort tank discharging through a Stack(s).**

MAXIMUM EMISSION FLOW RATE: **538** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **6240** hrs/yr

MAXIMUM EMISSION QUALITY:


1. 50 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.
3. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.

WORKS AND PROCEDURES:

Packed tower water scrubber and related appurtenances.

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**EMISSION SOURCE 04: Grain handling discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **77** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **4680** hrs/yr

MAXIMUM EMISSION QUALITY:

1. 50 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.
3. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.

WORKS AND PROCEDURES:

Baghouse and related appurtenances.

**EMISSION SOURCE 05: Grain vacuum unloading discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **45** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **3120** hrs/yr

MAXIMUM EMISSION QUALITY:

1. 50 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.
3. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.

WORKS AND PROCEDURES:

Baghouse and related appurtenances.

**EMISSION SOURCE 06: Keg washer discharging through a Stack(s).**

MAXIMUM EMISSION FLOW RATE: **37** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **3120** hrs/yr

MAXIMUM EMISSION QUALITY:

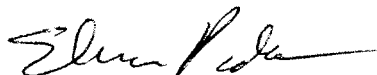
1. 20 mg/m<sup>3</sup> Sodium Hydroxide
2. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.

WORKS AND PROCEDURES:

Good operating practices.

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**EMISSION SOURCE 07: Canline Pasteurizer discharging through a Stack(s).**

MAXIMUM EMISSION FLOW RATE: **28** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **4860** hrs/yr

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Sodium Hydroxide
2. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.

WORKS AND PROCEDURES:

Good operating practices

**EMISSION SOURCE 08: Spent grains tank and spent yeast tank discharging through a Vent(s).**

MAXIMUM EMISSION FLOW RATE: **13** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** hrs/yr

MAXIMUM EMISSION QUALITY:

1. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.

WORKS AND PROCEDURES:

Good operating practices

**EMISSION SOURCE 09: Bottle washer discharging through a Vent(s).**

MAXIMUM EMISSION FLOW RATE: **57** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **6240** hrs/yr

MAXIMUM EMISSION QUALITY:

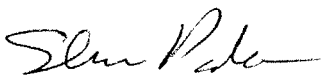
1. 20 mg/m<sup>3</sup> Sodium Hydroxide
2. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.

WORKS AND PROCEDURES:

Good operating practices.

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**EMISSION SOURCE 10: Caustic reclaimer discharging through a Vent(s).**

MAXIMUM EMISSION FLOW RATE: **394** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** hrs/yr

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Sodium Hydroxide
2. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.

WORKS AND PROCEDURES:

Good operating practices.

**EMISSION SOURCE 11: Bottle Pasteurizer discharging through a Vent(s).**

MAXIMUM EMISSION FLOW RATE: **2266** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **4680** hrs/yr

MAXIMUM EMISSION QUALITY:

1. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.

WORKS AND PROCEDURES:

Good operating practices.

**EMISSION SOURCE 12: Yeast storage tank #1 (MFY-1), yeast storage tank #2 (MFY-2), yeast storage tank #4 (MFY-4), propagation tank (MFY-P) and Inoculation tank (MFY-3). discharging through a Vent(s).**

MAXIMUM EMISSION FLOW RATE: **The rate of discharge is that resulting from vapour venting during tank filling and breathing.**  
MAXIMUM ANNUAL OPERATING HOURS: **8760** hrs/yr

MAXIMUM EMISSION QUALITY:


1. Odour: None past the plant boundary such that the District Director determines that pollution has occurred.

WORKS AND PROCEDURES:

Good operating practices.

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**EMISSION SOURCE 13: Cardboard Saws Dust Collector discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **68** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **6240** hrs/yr

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Baghouse and related appurtenances.

**EMISSION SOURCE 14: Ingredients Dust Collector discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **40** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **104** hrs/yr

MAXIMUM EMISSION QUALITY:


1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Baghouse and related appurtenances.

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# GREATER VANCOUVER REGIONAL DISTRICT AIR QUALITY MANAGEMENT PERMIT

## **SECTION 2 – GENERAL REQUIREMENTS AND CONDITIONS**

### **A. AMENDMENTS**

The terms and conditions of this permit may be amended, as authorized by applicable legislation. New and modified sources must receive authorization prior to start-up.

### **B. POLLUTION**


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.

### **C. STANDARD CONDITIONS AND DEFINITIONS**

Unless otherwise specified, the following applies to this permit:

1. Gaseous volumes are corrected to standard conditions of 20° Celsius & 101.325 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% O<sub>2</sub> for natural gas and fuel oil;
  - 8% O<sub>2</sub> for wood fuel.
  - 15% O<sub>2</sub> for turbines
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. Visual opacity compliance determinations are based on a 6 minute average in accordance with the provincial "Source Testing Code for the Visual Measurement of The Opacity of Emissions from Stationary Sources".
5. If authorized in section 1 of this permit, standby fuel use is restricted to a maximum of 350 hrs/yr and to those periods during which the primary authorized fuel is not available. Fuel oil sulphur content shall not exceed 15 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<sub>x</sub>) are expressed as Sulphur Dioxide.
9. Nitrogen Oxides (NO<sub>x</sub>) 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 (June 1995, CCME-EPC-87E)" shall be adhered to for all applicable tanks unless otherwise stated in this permit.

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11. Authorized 'Maximum Annual Operating Hours' of 8760 hrs/yr for an emission source is equivalent to authorization for continuous operation of the emission source for an entire calendar year, including leap years.

## **D. HEATING, VENTILATION, AIR CONDITIONING AND INTERNAL COMBUSTION ENGINES**

Air contaminants discharged from any natural gas-fired heating, ventilation or air conditioning systems for buildings and any internal combustion engines 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.

## **E. AUTHORIZED WORKS AND PROCEDURES**

Works and procedures, which this permit authorizes to control the discharge of air contaminants, shall be employed during all operating periods of the related facilities. The permit holder shall regularly inspect and maintain all such works in good repair.

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

## **F. BYPASSES**

The discharge of contaminants which have bypassed authorized control works during non-emergency conditions are prohibited unless approval has been obtained in writing from the District Director.

## **G. EMERGENCY PROCEDURES**

In the event of an emergency that prevents compliance with a requirement(s) of this permit, that requirement(s) shall be suspended for such time as the emergency continues or until otherwise directed by the District Director, provided that:


1. Due diligence was exercised in relation to the process, operation or event that caused the emergency and that the emergency occurred notwithstanding this exercise of due diligence; and,
2. The District Director is notified at the first available opportunity of the emergency 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. Due diligence is exercised in shutting down related processes and/or taking action to restore compliance in the shortest possible time frame, unless specified otherwise in this permit or by written notice from the District Director.

Notwithstanding 1, 2 and 3 above, the District Director may specify contingency actions to be implemented to protect human health and the environment while authorized works and/or standard operating procedures are being restored.

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.

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**SECTION 3 – REPORTING REQUIREMENTS**

**A. MONITORING REQUIREMENTS AND REPORTING**

Unless otherwise approved 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 approval from the District Director.

A minimum of 3 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, Regulation & Enforcement Division (phone 604-436-6777, Fax 604-436-6707, email [regulationenforcement@metrovancover.org](mailto: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 permit holder shall conduct the following monitoring and sampling and submit written and/or electronic reports of the results to the District Director by the dates specified below.

SOURCE	DUE DATE	FREQUENCY	REQUIREMENT	PARAMETER(S)	TEST METHOD	REPORT TYPE
N/A	N/A	N/A	N/A	N/A	N/A	N/A

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**B. INFORMATION REPORTING REQUIREMENTS**

The Permit holder shall submit written and/or electronic reports containing the required information to the District Director by the dates specified below.

<b>EMISSION SOURCE</b>	<b>DUE DATE</b>	<b>FREQUENCY</b>	<b>REQUIREMENT</b>	<b>REPORT TYPE</b>
Facility	March 31, 2011	Yearly	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, 2011	Yearly	Written report providing details of the types and amounts of fuel burned in the preceding calendar year.	Fuel Use
03, 04, 05, 06, 07, 09, 10, 13, 14	March 31, 2011	Yearly	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 written bound log or other format approved by the District Director and made available for inspection by Metro Vancouver staff for a minimum period of three years.	Operating Period

**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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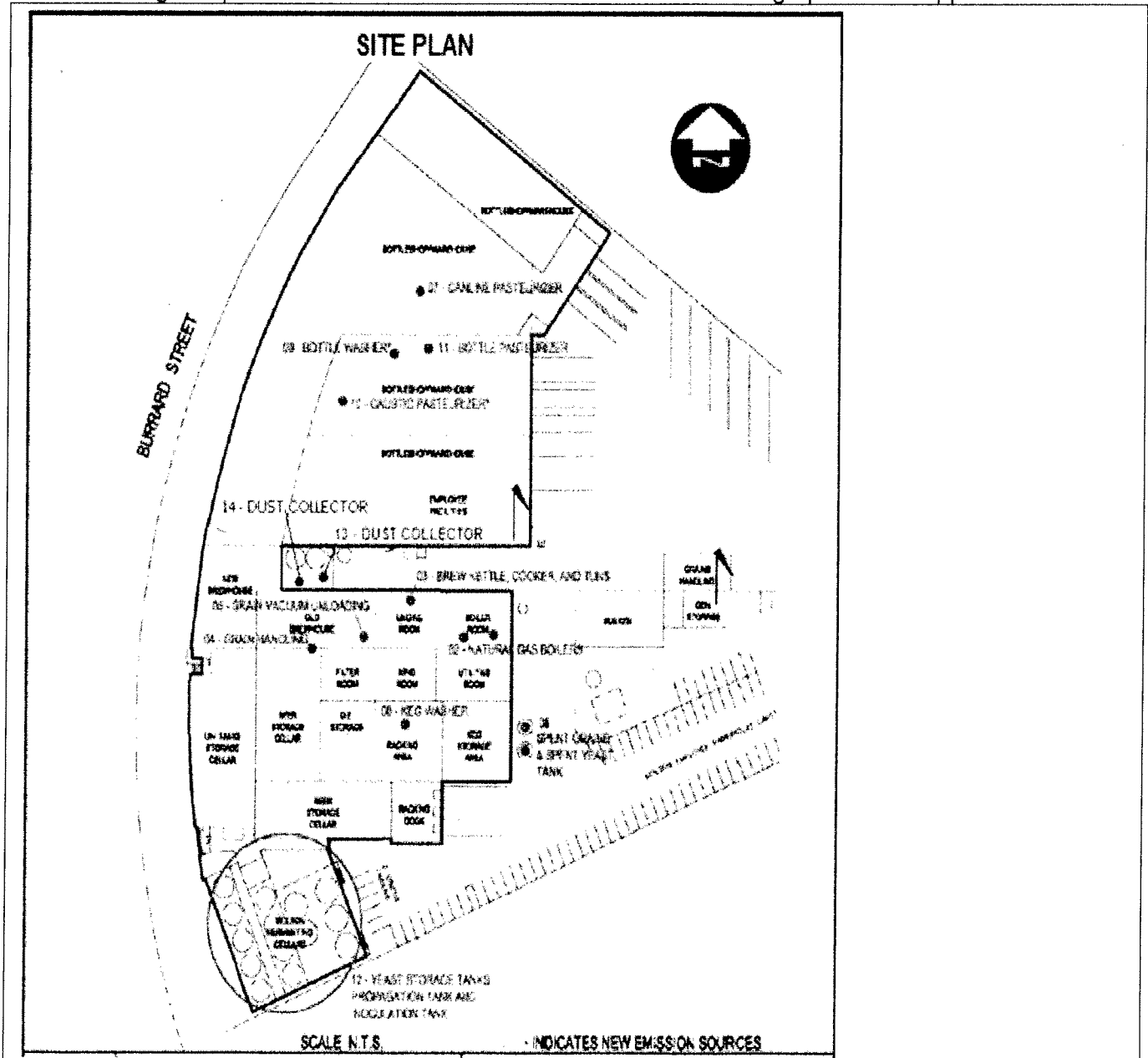
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**SECTION 4 – SITE PLAN**

LEGAL DESCRIPTION OF DISCHARGE SITE: City of Vancouver Parcel Identifier : 007-960-646  
 Lot 2 Block D District Lot 3610 Plan 13996

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



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