

## PERMIT GVA0137

**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 Process

**Located at:**

3131 Lake City Way, Burnaby, BC V5A 3A3

**Effective Period:**

The terms and conditions set out in the Permit apply to the existing or planned works as of  
September 21, 2016 and this permit will expire on August 31, 2024.

All previous versions of this Permit are hereby rescinded and rendered null and void.

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Issued: November 30, 1992  
Amended: September 21, 2016

  
R.H. (Ray) Robb, P. Eng.  
District Director

**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 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 10: Green coffee beans transfer discharging through a Cyclone Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **17 m<sup>3</sup>/min**  
MAXIMUM ANNUAL OPERATING HOURS: **5376 h/y**

MAXIMUM EMISSION QUALITY:

1. 120 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Probat-Werke cyclone and related appurtenances together with good operating practices.

**EMISSION SOURCE 30: Green bean dump discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **350 m<sup>3</sup>/min**  
MAXIMUM ANNUAL OPERATING HOURS: **5376 h/y**

MAXIMUM EMISSION QUALITY:

1. 25 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Baghouse and related appurtenances together with good operating practices.

**EMISSION SOURCE 31: Green bean transfer discharging through a Baghouse Exhaust(s).**


MAXIMUM EMISSION FLOW RATE: **200 m<sup>3</sup>/min**  
MAXIMUM ANNUAL OPERATING HOURS: **8400 h/y**

MAXIMUM EMISSION QUALITY:

1. 25 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

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**WORKS AND PROCEDURES:**

Baghouse and related appurtenances together with good operating practices.

**EMISSION SOURCE 33: Low Pressure boiler discharging through a Stack(s).**

MAXIMUM EMISSION FLOW RATE: **27** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y  
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: **6.65** GJ/h

**MAXIMUM EMISSION QUALITY:**

1. 10% Opacity.

**WORKS AND PROCEDURES:**

The firing of the boiler with natural gas using good combustion practices and operating procedures.

**EMISSION SOURCE 34: L-1 Multi-hearth furnace (MHF) carbon reactivation furnace discharging through a Stack(s).**

MAXIMUM EMISSION FLOW RATE: **65** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8400** h/y  
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: **2.95** GJ/h  
MAXIMUM AFTERBURNER INPUT FIRING RATE: **1.27** GJ/h

**MAXIMUM EMISSION QUALITY:**

1. 60 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

**WORKS AND PROCEDURES:**


Carbon reactivation furnace, afterburner and impingement tray wet scrubber together with good operating practices.

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

**MINIMUM INCINERATOR EXIT TEMPERATURE: 650 °C**

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**EMISSION SOURCE 35: L-1 Decaffeinated green coffee bean dryer discharging through a Cyclone Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: 450 m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: 8400 h/y  
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 5.8 GJ/h

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.
3. Odorous Air Contaminant(s): None past the plant boundary such that pollution occurs.

WORKS AND PROCEDURES:

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

**EMISSION SOURCE 36: L-1 Coffee bean feed conveyor discharging through a Vent(s).**

MAXIMUM EMISSION FLOW RATE: 340 m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: 8064 h/y

MAXIMUM EMISSION QUALITY:

1. 10% Opacity.
2. Odorous Air Contaminant(s): None past the plant boundary such that pollution occurs.

WORKS AND PROCEDURES:

Good operating practices.

**EMISSION SOURCE 37: L-1 Spent carbon storage tank discharging through a Vent(s).**

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

MAXIMUM EMISSION QUALITY:


1. Odorous Air Contaminant(s): None past the plant boundary such that pollution occurs.

WORKS AND PROCEDURES:

Good operating practices.

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**EMISSION SOURCE 38: L-1 Green bean weigh tank discharging through a Vent(s).**

MAXIMUM EMISSION FLOW RATE: **17** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **4032** h/y

MAXIMUM EMISSION QUALITY:

1. 120 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Good operating practices.

**EMISSION SOURCE 39: L-1 Process pre-cleaning discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **100** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8400** h/y

MAXIMUM EMISSION QUALITY:

1. 25 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Baghouse and related appurtenances together with good operating practices.

**EMISSION SOURCE 40: Quality control lab & cupping lab discharging through a Vent(s).**

MAXIMUM EMISSION FLOW RATE: **75** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **2160** h/y

MAXIMUM EMISSION QUALITY:


1. 120 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Good operating practices.

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**EMISSION SOURCE 41: L-1 Neutralization tank discharging through a Vent(s).**

MAXIMUM EMISSION FLOW RATE: **30** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8064** h/y

MAXIMUM EMISSION QUALITY:

1. Odorous Air Contaminant(s): None past the plant boundary such that pollution occurs.
2. Chemical Contaminants: The maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:

Good operating practices.

**EMISSION SOURCE 42: L-2 Multi-hearth furnace (MHF) discharging through a Stack(s).**

MAXIMUM EMISSION FLOW RATE: **79** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8400** h/y  
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: **7.36** GJ/h  
MAXIMUM AFTERBURNER INPUT FIRING RATE: **1.09** GJ/h

MAXIMUM EMISSION QUALITY:

1. 60 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:


Carbon reactivation furnace, afterburner and impingement tray wet scrubber together with good operating practices.

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

MINIMUM INCINERATOR EXIT TEMPERATURE: **650 °C**

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**EMISSION SOURCE 43: L-2 Dryer discharging through a Cyclone Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: 600 m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: 8400 h/y  
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 6.05 GJ/h

MAXIMUM EMISSION QUALITY:

1. 20 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.
3. Odorous Air Contaminant(s): None past the plant boundary such that pollution occurs.

WORKS AND PROCEDURES:

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

**EMISSION SOURCE 44: L-2 Process line discharging through a Vent(s).**

MAXIMUM EMISSION FLOW RATE: **The maximum rate of discharge is that resulting from vapour venting during tank filling and breathing.**  
MAXIMUM ANNUAL OPERATING HOURS: 8064 h/y

MAXIMUM EMISSION QUALITY:

1. 10% Opacity.
2. Odorous Air Contaminant(s): None past the plant boundary such that pollution occurs.

WORKS AND PROCEDURES:

Good operating practices.

**EMISSION SOURCE 45: L-2 Dryer feed hopper discharging through a Vent(s).**

MAXIMUM EMISSION FLOW RATE: 340 m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: 8064 h/y

MAXIMUM EMISSION QUALITY:

1. 10% Opacity.

WORKS AND PROCEDURES:

Good operating practices.

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**EMISSION SOURCE 46: L-2 Infeed weigh tank discharging through a Vent(s).**

MAXIMUM EMISSION FLOW RATE: 17 m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: 4032 h/y

MAXIMUM EMISSION QUALITY:

1. 60 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Good operating practices.

**EMISSION SOURCE 47: L-2 Process dust collector discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: 340 m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: 8400 h/y

MAXIMUM EMISSION QUALITY:

1. 25 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Baghouse and related appurtenances together with good operating practices.

**EMISSION SOURCE 48: L-2 Excess heat recovery air discharging through a Vent(s).**

MAXIMUM EMISSION FLOW RATE: 476 m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: 8064 h/y

MAXIMUM EMISSION QUALITY:


1. 10% Opacity.

WORKS AND PROCEDURES:

Good operating practices.

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**EMISSION SOURCE 49: L-1 Process dust collector (DC-1) discharging through a Baghouse Exhaust(s).**

MAXIMUM EMISSION FLOW RATE: **200** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8400** h/y

MAXIMUM EMISSION QUALITY:

1. 25 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Post-decaffeinated coffee bean cleaning process baghouse and related appurtenances together with good operating practices.

**EMISSION SOURCE 50: High Pressure Boiler discharging through a Vent(s).**

MAXIMUM EMISSION FLOW RATE: **35** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y  
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: **3.7** GJ/h

MAXIMUM EMISSION QUALITY:


1. 10% Opacity.

WORKS AND PROCEDURES:

Cleaver Brooks FLX-350 Watertube steam boiler. The firing of the low NO<sub>x</sub> technology burners with natural gas using good combustion practices and operating procedures.

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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 modification 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@metrovancover.org](mailto:regulationenforcement@metrovancover.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

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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 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% O<sub>2</sub> for natural gas and fuel oil; or
  - 8% O<sub>2</sub> 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 provincial "Source Testing Code for the Visual Measurement 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<sub>x</sub>) are expressed as Sulphur Dioxide.

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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.
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 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 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](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 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
N/A	N/A	N/A	N/A	N/A	N/A	N/A

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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.

<b>EMISSION SOURCE</b>	<b>INITIAL DUE DATE</b>	<b>SUBSEQUENT DUE DATES</b>	<b>REQUIREMENT</b>	<b>REPORT TYPE</b>
10, 30, 31, 33, 34, 35, 36, 38, 39, 40, 41, 42, 43, 45, 46, 47, 48, 49, 50	March 31, 2017	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. 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
30, 31, 39, 47, 49	March 31, 2017	On or before March 31 for each subsequent year.	Written report indicating inspection frequency, bag condition and action taken or proposed to solve any problems detected for the baghouses described in Section 1 of this Permit.	Baghouse
Facility	March 31, 2017	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, 33, 34, 35, 42, 43, 50	March 31, 2017	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
34, 42	March 31, 2017	On or before March 31 for each subsequent year.	Written report summarizing frequency and results of all inspections and maintenance carried out on the scrubber(s) as described in Section 1. The report shall also include any actions, taken or proposed, to solve identified problems.	Scrubber

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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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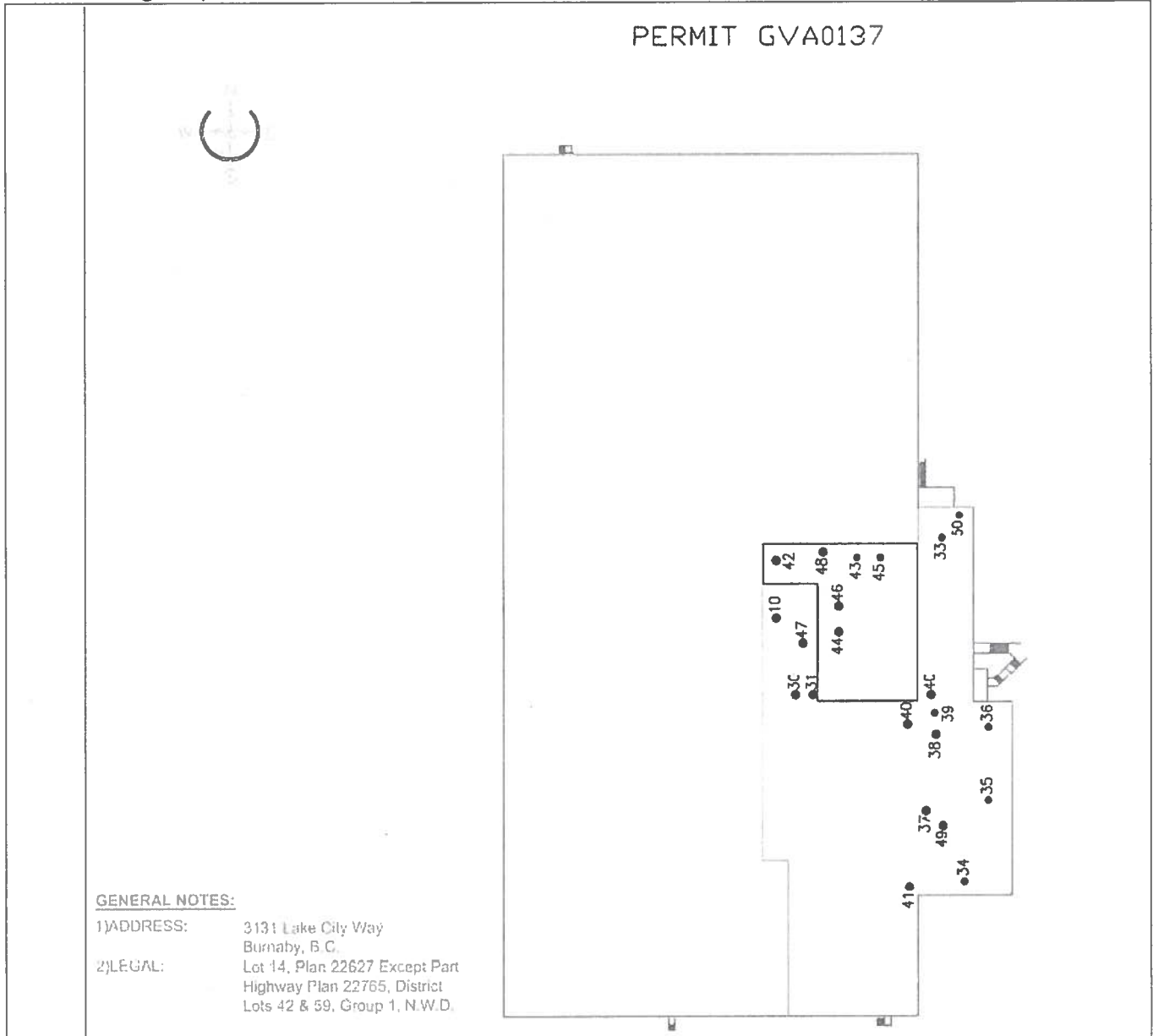
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**SECTION 4 – SITE PLAN**

**LEGAL DESCRIPTION OF DISCHARGE SITE: The land from which the air contaminants are discharged is described as Lot 14 Plan 22627 Except Highway Plan 22765 District Lots 42 & 59, Group 1, NWD,**

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



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