

## PERMIT GVA0614

**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:**

Avcorp Industries Inc.  
(the "Permittee")

**To Authorize:**

the discharge of air contaminants to the air from  
Aircraft Component Manufacturing Plant

**Located at:**

10025 River Way, Delta, BC V4G 1M7


**Effective Period:**

The terms and conditions set out in the Permit apply to the existing or planned works as of  
June 25, 2021 and this Permit will expire on March 31, 2028.

All previous versions of this Permit are invalid.

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Issued: February 19, 1999  
Amended: June 25, 2021

  
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: Waste treatment room discharging through two roof exhausts.**

MAXIMUM EMISSION FLOW RATE: **460** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 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 02: Release film application booth discharging through a roof exhaust.**

MAXIMUM EMISSION FLOW RATE: **225** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 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 03: Passivation tank discharging through a roof exhaust.**

MAXIMUM EMISSION FLOW RATE: **110** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

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MAXIMUM EMISSION QUALITY:

1. 50 mg/m<sup>3</sup> Nitric Acid

WORKS AND PROCEDURES:

Good operating practices.

**EMISSION SOURCE 04: Paint stripping tank discharging through a roof exhaust.**

MAXIMUM EMISSION FLOW RATE: **140** m<sup>3</sup>/min

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

MAXIMUM EMISSION QUALITY:

1. 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 05: Fuel tank wash-down area discharging through a roof exhaust.**

MAXIMUM EMISSION FLOW RATE: **140** m<sup>3</sup>/min

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

MAXIMUM EMISSION QUALITY:

1. 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.

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**EMISSION SOURCE 06:** Phosphoric acid deoxidizing and anodizing tanks discharging through two roof exhausts.

MAXIMUM EMISSION FLOW RATE: **370** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:  
1. 10 mg/m<sup>3</sup> Phosphoric Acid

WORKS AND PROCEDURES:  
Good operating practices.

**EMISSION SOURCE 07:** Chromic acid anodizing tank discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: **240** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:  
1. 0.01 mg/m<sup>3</sup> Chromium Expressed as total chromium.

WORKS AND PROCEDURES:  
Good operating practices which includes the routine monitoring of the anodizing bath surface tension so as not to exceed 45 dynes per centimeter.

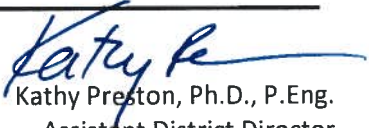
The Permittee shall measure and record the surface tension of the anodizing tank bath once each operational day. The methodology employed to measure surface tension shall be consistent with those in EPA Method 306-B. The surface tension measurements, the frequency of fume suppressant maintenance additions and the amount of fume suppressant added during each maintenance addition are to be recorded. These readings 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.

**EMISSION SOURCE 08:** Boric/sulphuric anodizing tank discharging through a roof exhaust.

MAXIMUM EMISSION FLOW RATE: **185** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

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**MAXIMUM EMISSION QUALITY:**

1. 10 mg/m<sup>3</sup> Sulphuric Acid Includes acid mists.
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 09: General ventilation of the penetrant inspection area and the tooling storage room discharging through two roof exhausts.**

**MAXIMUM EMISSION FLOW RATE: 140 m<sup>3</sup>/min**

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

**MAXIMUM EMISSION QUALITY:**

1. 10% Opacity
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 10: Process tank area discharging through two roof exhausts.**

**MAXIMUM EMISSION FLOW RATE: 560 m<sup>3</sup>/min**

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

**MAXIMUM EMISSION QUALITY:**

1. 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.

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**EMISSION SOURCE 11:** Mechanical testing and wet analysis laboratory fume hoods discharging through four roof exhausts.

MAXIMUM EMISSION FLOW RATE: 145 m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: 6552 h/y

MAXIMUM EMISSION QUALITY:

1. 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 12:** Structural adhesive cutting and sanding booth discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 60 m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: 2340 h/y

MAXIMUM EMISSION QUALITY:

1. 50 mg/m<sup>3</sup> Particulate Matter
2. 10% Opacity

WORKS AND PROCEDURES:

Filters and related appurtenances, together with good operating practices.

**EMISSION SOURCE 15:** Vapour degreasing tank discharging through a Stack(s).


MAXIMUM EMISSION FLOW RATE: 35 m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y

MAXIMUM EMISSION QUALITY:

1. 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.

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**WORKS AND PROCEDURES:**

The enclosed tank and solvent recovery system and related appurtenances, together with good operating practices.

**EMISSION SOURCE 16: Two primer ovens (electric) discharging through two roof exhausts.**

MAXIMUM EMISSION FLOW RATE: **120** m<sup>3</sup>/min

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

**MAXIMUM EMISSION QUALITY:**

1. 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 17: Four paint booths (No. 1, 2, 6 & 7) discharging through six roof exhausts.**

MAXIMUM EMISSION FLOW RATE: **2300** m<sup>3</sup>/min

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

**MAXIMUM EMISSION QUALITY:**

1. 10% Opacity
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:**

Filters and related appurtenances, together with good operating practices.

The Permittee shall continuously measure the pressure drop across the spray booth filter banks with a differential pressure measuring device. The Permittee shall maintain written records of spray booth filter replacement 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.

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**EMISSION SOURCE 18: Paint mixing room discharging through a roof exhaust.**

MAXIMUM EMISSION FLOW RATE: **45** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 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 19: Paint shop oven (electric) discharging through a roof exhaust.**

MAXIMUM EMISSION FLOW RATE: **10** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

1. 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 20: Autoclaves (No. 1, 2 & 3) discharging through a Vent(s).**

MAXIMUM EMISSION FLOW RATE: **15** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

MAXIMUM EMISSION QUALITY:

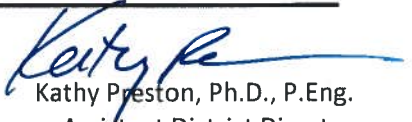
1. Chemical Contaminants: The maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:

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**EMISSION SOURCE 21: Two aging ovens (electric) discharging through two roof exhausts.**

MAXIMUM EMISSION FLOW RATE: 50 m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y

MAXIMUM EMISSION QUALITY:

1. 10% Opacity
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 22: Detail fabrication routers discharging through a wall exhaust.**

MAXIMUM EMISSION FLOW RATE: 127 m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y

MAXIMUM EMISSION QUALITY:

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

Airflow Systems Model DC8 cartridge dust collector and related appurtenances, together with good operating practices.

**EMISSION SOURCE 23: Shot peening cabinets discharging through a roof exhaust.**

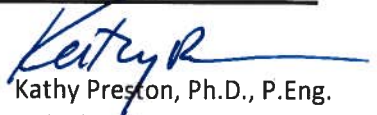
MAXIMUM EMISSION FLOW RATE: 45 m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: 8760 h/y

MAXIMUM EMISSION QUALITY:

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

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**WORKS AND PROCEDURES:**

Universal Model DC500 baghouse and DC100 baghouse (small blast cabinet) and related appurtenances, together with good operating practices.

**EMISSION SOURCE 25: Fuel tank oven (electric) discharging through a roof exhaust.**

MAXIMUM EMISSION FLOW RATE: **35** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y

**MAXIMUM EMISSION QUALITY:**

1. 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 27: Three paint/bake booths (No. 3, 4, & 5) discharging through six roof exhausts.**

MAXIMUM EMISSION FLOW RATE: **2300** m<sup>3</sup>/min  
MAXIMUM ANNUAL OPERATING HOURS: **8760** h/y  
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: **15.67** GJ/h

**MAXIMUM EMISSION QUALITY:**

1. 10% Opacity
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:**


Filters and related appurtenances, together with good operating practices. The paint/bake booths are fired with natural gas, using good combustion practices and operating procedures.

The individual firing rates are 5.08, 5.51 and 5.08 GJ/hr.

The Permittee shall continuously measure the pressure drop across the spray booth filter banks with a differential pressure measuring device. The Permittee shall maintain written records of spray booth

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filter replacement 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.

**EMISSION SOURCE 28: Paint booth storage areas (No. 1 & 2) discharging through a roof exhaust.**

MAXIMUM EMISSION FLOW RATE: **40** m<sup>3</sup>/min

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

MAXIMUM EMISSION QUALITY:

1. 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 29: Aluminum polishing booth discharging through a roof exhaust.**

MAXIMUM EMISSION FLOW RATE: **380** m<sup>3</sup>/min

MAXIMUM ANNUAL OPERATING HOURS: **2912** h/y

MAXIMUM EMISSION QUALITY:

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

Filters and related appurtenances, together with good operating practices.

**EMISSION SOURCE 31: F35 Production Area discharging through a Vent(s).**

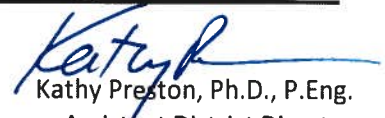
MAXIMUM EMISSION FLOW RATE: **425** m<sup>3</sup>/min

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

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### MAXIMUM EMISSION QUALITY:

1. 2.33 mg/m<sup>3</sup> Total Hazardous Air Pollutants
2. 12.34 mg/m<sup>3</sup> Total Volatile Organic Compounds
3. 10% Opacity

### WORKS AND PROCEDURES:

#### Throughput Limit


The number of units (shipsets) produced in the F35 Production Area must not exceed 36 units in each calendar year.

Exhaust Fans (3) - manufactured by PennBarry Model #FX24B. Exhaust fans run for 8760 hours per year to ensure negative pressure and temperature control in the production area. The three roof mounted exhaust fans are ducted down and around the periphery of the production space. These fans draw through exhaust grilles at both high and low level in the production space. When drilling, the HEPA vacuum is split to collect the majority of the dust and keep it internal. One end is directly connected to the drill motor and the other is held at the drilling location.

Vent Information: Height - 12.4 m; Effective Diameter - 1.20 m; Exit Temperature (°C) - 20 degrees Celsius; circular and vertical discharge.

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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, 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.

**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 must be made to Metro Vancouver's 24-hour number: 604-436-6777, or to [regulationenforcement@metrovancouver.org](mailto:regulationenforcement@metrovancouver.org).

**C. 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.

**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.

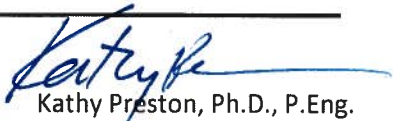
**E. EMERGENCY PROCEDURES**

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 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; and
3. Take appropriate remedial action for the prevention or mitigation of pollution.

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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% 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 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<sub>x</sub>) are expressed as Sulphur Dioxide.
9. Nitrogen Oxides (NO<sub>x</sub>) are expressed as Nitrogen Dioxide.

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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**

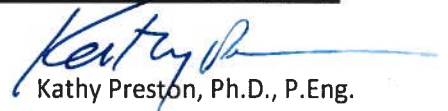
All records and supporting documentation relating to this permit must be kept for at least three years after the date of preparation or receipt thereof, and be made available for inspection within 48 hours of a request by an Officer.

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

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

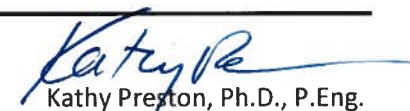
Unless otherwise specified, sampling must be performed under operating conditions representative of the previous 90 calendar days of operation. All field data and calculations must be submitted with monitoring results and they must be reported in the metric units that are used in this permit. These submissions 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.

EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	PARAMETER(S)	TEST METHOD	REPORT TYPE/TITLE
N/A	N/A	N/A	N/A	N/A	N/A	N/A

Issued: February 19, 1999  
Amended: June 25, 2021

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

Permit GVA0614



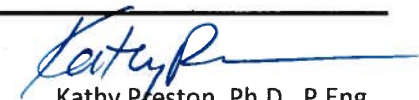
**METRO VANCOUVER REGIONAL DISTRICT AIR QUALITY MANAGEMENT PERMIT**

**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
31	July 31, 2021	Quarterly, on or before April 30, July 31, October 31 and January 31 of each year.	Submit a written report, in a format acceptable to Metro Vancouver staff, detailing the number of F35 shipsets produced during the previous calendar quarter.	F35 Production Area Shipset Throughput Report  Information – Other
27	March 31, 2022	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, 2022	On or before March 31 for each subsequent year.	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.	Solvent Use

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Permit GVA0614

**METRO VANCOUVER REGIONAL DISTRICT AIR QUALITY MANAGEMENT PERMIT**

EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	REPORT TYPE/TITLE
Facility, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 15, 16, 17, 18, 19, 20, 21, 22, 23, 25, 27, 28, 29	March 31, 2022	N/A	<p>The permittee must submit an Emission Characterization Report to the District Director, for review and written approval. The report must include:</p> <ul style="list-style-type: none"> <li>• Emission source description;</li> <li>• Emission source characteristics, including: <ul style="list-style-type: none"> <li>• Stack height</li> <li>• Stack inner diameter or equivalent diameter if non-circular</li> <li>• Horizontal or vertical discharge</li> <li>• Raincap (yes or no)</li> <li>• Stack exit temperature</li> <li>• Stack exit flowrate;</li> </ul> </li> <li>• Emission control works or procedures, including: <ul style="list-style-type: none"> <li>• Description of how emissions are collected and directed to control works</li> <li>• Collection efficiency</li> <li>• Description of control works</li> <li>• Control efficiency</li> <li>• Manufacturer and model name and/or number;</li> </ul> </li> <li>• Process(es) generating the emissions; and,</li> <li>• Air contaminants that are discharged, including: <ul style="list-style-type: none"> <li>• Air contaminant common name</li> <li>• CAS number</li> <li>• Maximum outlet concentrations (mg/m<sup>3</sup>) for point source</li> <li>• Annual mass discharge (tonnes/year) for point and fugitive sources.</li> </ul> </li> </ul>	Emission Characterization Report  Information - Other

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Permit GVA0614

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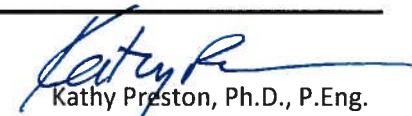
EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	REPORT TYPE/TITLE
			Metro Vancouver's Air Permit Application Form's MVAQ-D2 and MVAQ-D3 can be used to produce the Emissions Characterization Report for each point and fugitive source.	
31	March 31, 2022	On or before March 31 for each subsequent year.	Written report detailing the types, amounts and end use of materials containing volatile organic compounds used in the preceding calendar year.	VOC and VOC Containing Materials Report  Information - Other
Facility	March 31, 2022	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

**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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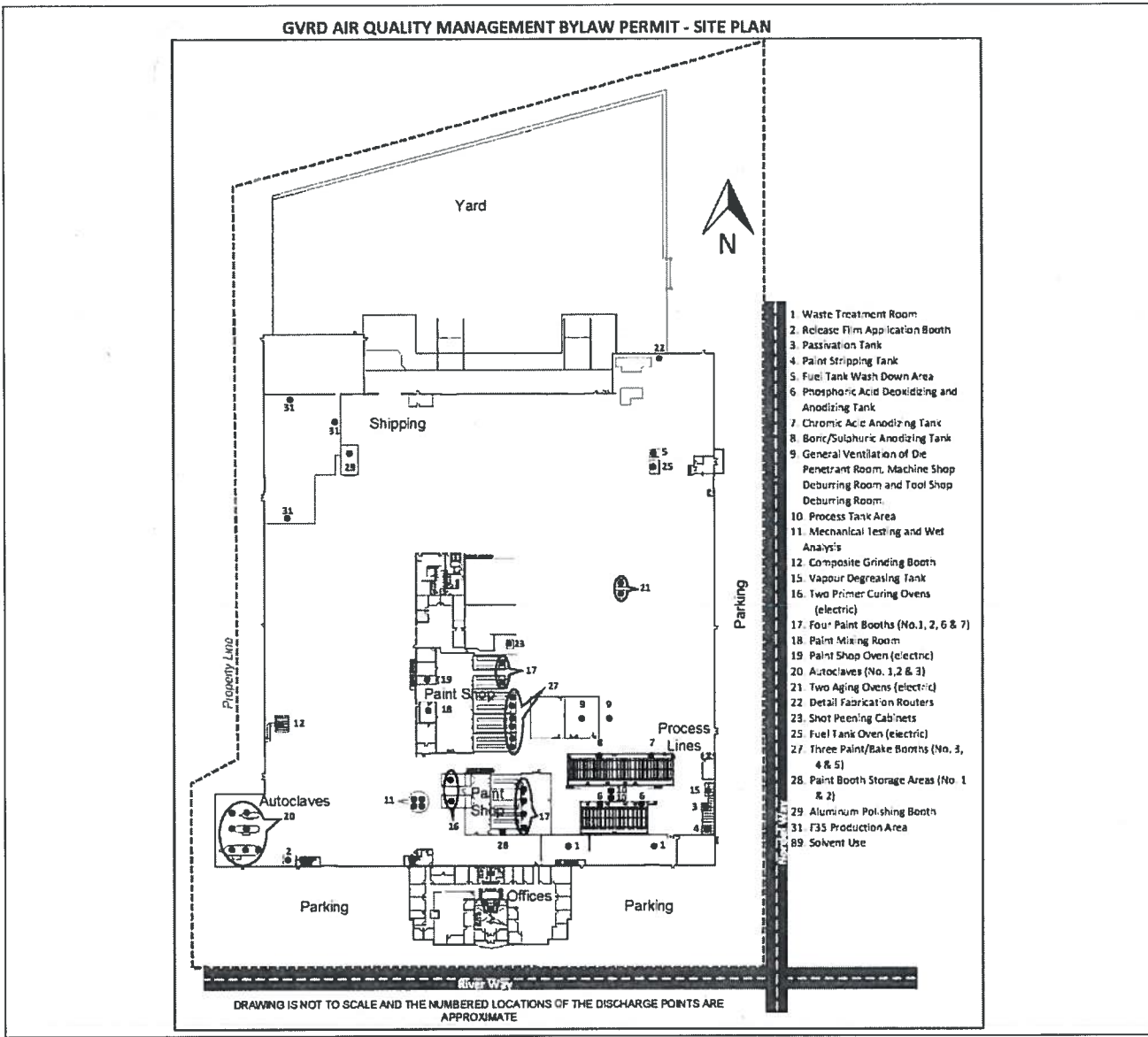
Permit GVA0614

**METRO VANCOUVER REGIONAL DISTRICT AIR QUALITY MANAGEMENT PERMIT**

**SECTION 4 – SITE PLAN**

LEGAL DESCRIPTION OF DISCHARGE SITE: Municipality of Delta Parcel Identifier: 024-045-039 Lot A District Lot 119 Group 2 New Westminster District Plan LMP36384.

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



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