

APPROVAL GUV1204

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:

GFL Environmental Inc.
(the "Approval Holder")

To Authorize:

the discharge of air contaminants to the air from
an aerobic composting facility

Located at:

4295 72nd Street, Delta, BC V4K 3N2

Effective Period:

The terms and conditions set out in the Approval apply to the existing or planned works as of
February 08, 2021 and this Approval will expire on May 31, 2021.
All other identified sources are authorized under GVA1090 which remains in full force and effect.

Issued: February 08, 2021


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

METRO VANCOUVER REGIONAL DISTRICT AIR QUALITY MANAGEMENT APPROVAL

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: Aging/Curing Compost Area discharging through Storage Pile(s) approximately as shown in the hatched area on the Site Plan.

MAXIMUM EMISSION FLOW RATE: The authorized rate of discharge is that resulting from the reclaiming operations as well as stockpile wind erosion effects.

MAXIMUM ANNUAL OPERATING HOURS: 24 hours per day, 7 days per week

WORKS AND PROCEDURES:

"Legacy unscreened material" means the 15,000 cubic metres of aged and unscreened material, covered in overs, from the legacy composting operation, located to the west and east sides of ES07 (Stormwater Runoff Pond), as shown on the Site Plan.

The transfer of legacy unscreened materials to anywhere on site other than the Main Processing Building or the Finished Compost Product and Blending Area (ES10) is prohibited. All handling and transfer of legacy unscreened materials must be conducted in a manner that minimizes dust and generation of odours.

Handling, transfer and outdoor screening of legacy unscreened material is prohibited when winds are less than 2 kilometres per hour or when winds are blowing anywhere in the range from East South East to South South East (between 105 and 165 degrees true North) as determined in accordance with a method approved by the District Director.

Legacy unscreened material movement and outdoor screening is prohibited between the hours of 5:00PM and 8:00AM.

The transfer of any legacy unscreened material from west of ES07 to east of ES07 is prohibited.

Legacy unscreened material located west of ES07 must be screened inside the Main Processing Building with all emissions collected and treated using the biofilter (ES08).

Legacy unscreened material located east of ES07 may be screened using no more than one of the trommel screens located at ES10.

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All recently exposed surfaces of the legacy unscreened material piles must be covered with a minimum of 15 centimetres of ground overs, finished compost, cedar or screened middlings at the end of every shift.

The Approval Holder must notify Metro Vancouver at regulationenforcement@metrovancover.org

- (1) On any day prior to the transfer of legacy unscreened material to the Main Processing Building, and
- (2) On any day prior to the transfer of legacy unscreened material to ES10 or the screening of legacy unscreened material using one of the trommel screens located at ES10.

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SECTION 2 – GENERAL REQUIREMENTS AND CONDITIONS

A. AUTHORIZED WORKS, PROCEDURES AND SOURCES

Works and procedures, which this Approval authorizes in order to control the discharge of air contaminants, must be employed during all operating periods of the related sources. The Approval Holder 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 Approval are applicable on the issued or last amended date of this Approval 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 Approval. Notification must 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 Approval, 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 Approval Holder that prevents effective operation of the authorized works or procedures or leads to unauthorized discharge, the Approval Holder 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 Approval 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 Approval:

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 Approval 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 Approval, 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 Approval.
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 Approval 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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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 Approval.
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 Approval 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).

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 Approval. 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, sampling must not occur more than 120 calendar days prior to the due dates specified below.

The Approval Holder 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.

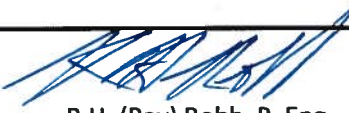
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EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	PARAMETER(S)	TEST METHOD	REPORT TITLE/TYPE
05	March 31, 2021	N/A	<p>Submit a written report including all consultant and laboratory reports detailing the total odorous air contaminant concentration in odour units (OU), hedonic tone, intensity, and flux rate in m³/min.</p> <p>Samples must be taken from a freshly exposed surface of the pile to the west of ES07.</p> <p>Sample collection procedures must follow sections 3.1 and 3.4, including references, of "GFL Emissions Testing Plan - Existing Sources - Rev 4" submitted on behalf of the Approval Holder on June 17, 2019.</p> <p>Sample collection and analysis must be consistent with procedures specified in EN 13725:2003 "Air Quality Determination of Odour Thresholds by Dynamic Dilution Olfactometry". Equivalent methods may be proposed to the District Director at least 30 days prior to sampling.</p>	Odorous Air Contaminants	Those approved by the District Director	Emissions Testing

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B. INFORMATION REPORTING REQUIREMENTS

The Approval Holder 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 TITLE/TYPE
05	March 15, 2021	Monthly, on or before the last day of each month, ending June 15, 2021.	Submit a report of tabulated meteorological data from the on-site meteorological station, including but not limited to temperature, wind direction (relative to true north) and wind speed for each hour of the day for the previous month.	Meteorological Data

C. AMENDED OR ADDITIONAL REQUIREMENTS

Based on the results of the monitoring program, including the 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 Approval including plans, programs and studies.
2. Require additional investigations, tests, surveys or studies.

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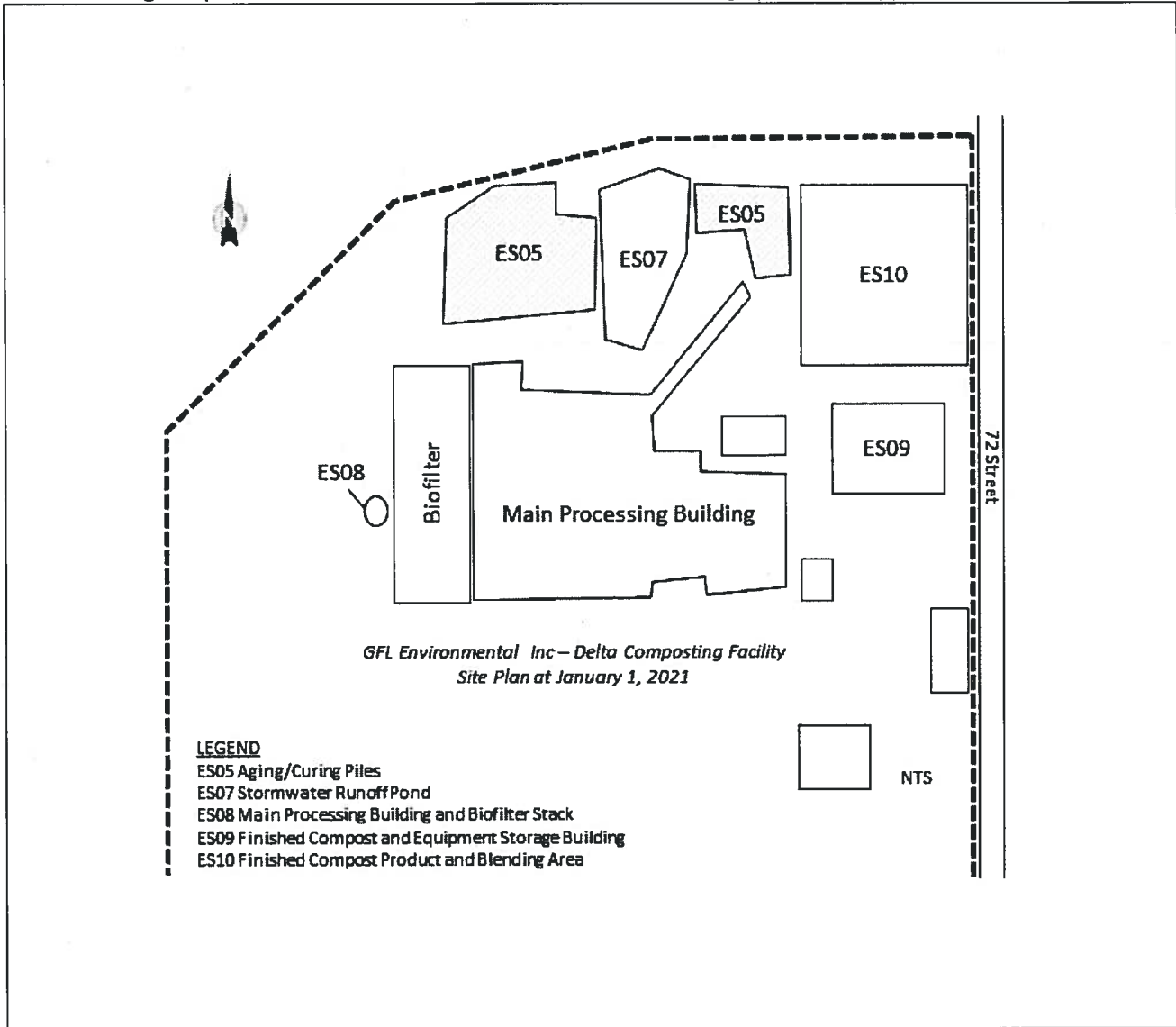
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SECTION 4 – SITE PLAN

LEGAL DESCRIPTION OF DISCHARGE SITE: Lot 1, Plan LMP 43954, DL 179 & 180, Group 2, New Westminster District, PID: 024-632-091

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



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