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Tracking Number:

Authorization Number: 108541

REGISTERED MAIL

CITY OF SURREY
13450 104 Avenue
Surrey BC V3T 1V8

Dear Operational Certificate Holder:

Enclosed is Operational Certificate 108541 issued under the provisions of the *Environmental Management Act*. Your attention is respectfully directed to the terms and conditions outlined in the operational certificate. An annual fee will be determined according to the Permit Fees Regulation.

This operational certificate does not authorize entry upon, crossing over, or use for any purpose of private or Crown lands or works, unless and except as authorized by the owner of such lands or works. The responsibility for obtaining such authority rests with the operational certificate holder. It is also the responsibility of the operational certificate holder to ensure that all activities conducted under this authorization are carried out with regard to the rights of third parties, and comply with other applicable legislation that may be in force.

This decision may be appealed to the Environmental Appeal Board in accordance with Part 8 of the *Environmental Management Act*. An appeal must be delivered within 30 days from the date that notice of this decision is given. For further information, please contact the Environmental Appeal Board at (250) 387-3464.

Administration of this permit will be carried out by staff from the Environmental Protection Division's Regional Operations Branch. Plans, data and reports pertinent to the permit are to be submitted by email or electronic transfer to the Director, designated Officer, or as further instructed.

Yours truly,

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for Director, *Environmental Management Act*
Authorizations - South Region

Enclosure

cc: Environment Canada

DRAFT



MINISTRY OF ENVIRONMENT

OPERATIONAL CERTIFICATE

108541

Under the Provisions of the Environmental Management Act

CITY OF SURREY

**13450 104 Avenue
Surrey BC V3T 1V8**

is authorized to discharge compostable materials and is authorized to discharge contaminants to the air at a compost facility located in Surrey, British Columbia, subject to the conditions listed below. Contravention of any of these conditions is a violation of the Environmental Management Act and may result in prosecution.

1. AUTHORIZED DISCHARGES

1.1 Authorized Source

This section applies to the discharge of emissions from an Air Discharge Stack. The site reference number for this discharge is E307544.

- 1.1.1 The maximum rate of discharge is 210000 cubic metres per hour.
- 1.1.2 The authorized discharge period is continuous.
- 1.1.3 The characteristics of the discharge are that of typical emissions through an odour abatement system.
- 1.1.4 The authorized works are acid scrubber, cooling coil, humidifier, biofilters, stack and related appurtenances approximately located as shown on Site Plan A.
- 1.1.5 The authorized works must be complete and in operation while discharging.

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- 1.1.6 The location of the facilities from which the discharge originates and the point of discharge is LT 3, LD 387A, Group 2 BCP3186.

1.2 **Authorized Source**

This section applies to the discharge of emissions from a low quality biogas flare. The site reference number for this discharge is E307526.

- 1.2.1 The maximum rate of discharge is 600 cubic metres per hour.
- 1.2.2 The maximum authorized discharge period is 75 hours per month.
- 1.2.3 The characteristics of the discharge shall be the combustion products of methane gas.
- 1.2.4 The authorized works are flare, flame arrestor and related appurtenances approximately located as shown on Site Plan A.
- 1.2.5 The authorized works must be complete and in operation while discharging.
- 1.2.6 The location of the facilities from which the discharge originates and the point of discharge is LT 3, LD 387A, Group 2 BCP3186.

1.3 **Authorized Source**

This section applies to the discharge of compostable materials. The site reference number for this discharge is E307546.

- 1.3.1 The maximum annual volume of compostable materials to be discharged is 33,000 dry tonnes per year.
- 1.3.2 The discharged is authorized to occur at the authorized works described as the Surrey Biofuel Facility located at 9752 – 192nd Street.
- 1.3.3 The authorized works must be complete and in operation while discharging.
- 1.3.4 The location of the facilities from which the discharge originates and the point of discharge is LT 3, LD 387A, Group 2 BCP3186.

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2. GENERAL REQUIREMENTS

2.1 Future Upgrading of Works

The Director may require the Operational Certificate holder to repair, alter, remove, improve or add to existing works or to construct new works, and to submit plans and specification for works specified in this authorization.

2.2 Maintenance of Works and Emergency Procedures

The Operational Certificate holder must regularly inspect the authorized works and must maintain them in good working order. In the event of an emergency or condition beyond the control of the Operational Certificate holder which prevents effective operation of the Authorized Work or leads to an unauthorized discharge, the Operational Certificate holder must take remedial action to restore the effective operation of the Authorized Works and to prevent any unauthorized discharges. The Operational Certificate holder must immediately report the emergency or condition and the remedial action that has and will be taken to the RAPP line (1-877-952-7277, #7272 from mobile phone) or electronically at this link: <http://www.env.gov.bc.ca/cos/rapp/form.htm>

The Director may require the Operational Certificate holder to reduce or suspend operations until the Authorized Works have been restored, and/or corrective steps taken to prevent unauthorized discharges.

2.3 Bypasses

The Operational Certificate holder must not permit any discharge authorized by this authorization to bypass the authorized works, except with the prior written approval of the Director.

2.4 Spills

The Operational Certificate holder must immediately report all spills to the environment (as defined in the Spill Reporting Regulation) in accordance with the Spill Reporting Regulation, which among other things, requires notification to the Provincial Emergency Program at 1-800-663-3456.

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2.5 **Emergency Response Plan (fire and spills)**

The Operational Certificate holder must prepare within 30 days of receiving this authorization, maintain and update annually an Emergency Response Plan that describes the procedures that have or will be taken by the Operational Certificate holder to prevent or mitigate any deposit to the receiving environment by the facility of any deleterious substance to the environment. The Operational Certificate holder must implement the Emergency Response Plan immediately if there is a deposit, or any risk of a deposit, of a deleterious substance. In addition, an up-dated Emergency Response Plan, including a report on any emergency responses taken by the Operational Certificate holder in the previous year, must be kept available on site for inspection by Ministry staff. The Operational Certificate holder must also prepare, update annually and keep available for inspection by Ministry staff, a remedial plan describing procedures to be taken by the Operational Certificate holder to eliminate all unauthorized deposits of deleterious substances into the environment.

2.6 **Emergency Discharges**

In the event of an emergency or for the purpose of undertaking maintenance of the biogas purification system, the Operational Certificate holder may discharge methane gas to the “good gas” flare and flame arrestor.

2.7 **Signage**

The Operational Certificate holder must erect a sign at the main entrance to the site which identifies the following: site name, owner and operator, contact phone number and address, hours of operation and information on materials accepted and not accepted at the facility. The lettering on the sign must be such that it is clearly readable from a distance of 3 meters by the public when they approach the entrance to the facility.

2.8 **Litter Control**

The Operational Certificate holder must use the best practical means available to prevent the scatter of litter at the site. The Director may require the Operational Certificate holder to implement a specified frequency of clean-up and other additional requirements for litter scatter control

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2.9 **Wheel Rinsing**

The Director may require the Operational Certificate holder, if necessary, to undertake wheel rinsing before any vehicle transporting compostable materials leaves the site. Compostable materials removed by wheel rinsing must be managed in accordance with this authorization and rinse water must be directed to the leachate management system. If required, provisions for wheel rinsing must be included in the design and operating plan.

2.10 **Access Security**

The Operational Certificate holder must provide adequate security for the facility and restrict access to authorized personnel.

2.11 **Auxiliary Power**

The Operational Certificate holder must provide auxiliary power facilities to ensure continuous operation of the process monitoring system, gas emission monitoring sensors and the emission control system during power outages.

2.12 **Non-Compliance**

The Operational Certificate holder must immediately notify the Director or designate by email at EnvironmentalCompliance@gov.bc.ca of any non-compliance with the requirements of this authorization or the Organic Matter Recycling Regulation by the Operational Certificate holder and take remedial action to remedy any effects of such non-compliance.

2.13 **Additional Information Requirements**

The director may require the Operational Certificate holder to conduct investigations, surveys, and the construction of additional facilities or works. The director may also amend any information requirements set out in this authorization.

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3. **REQUIREMENTS FOR COMPOST FACILITIES**

3.1 **Environmental Impact Study**

The Operational Certificate holder must retain on site a copy of the most recently submitted environmental impact study for inspection.

The director may request additional information with respect to the environmental impact study that he or she considers necessary for the protection of human health and the environment, and may specify particular concerns or questions that the impact study must address.

3.2 **Design and Operating Plan**

The Operational Certificate holder must cause a qualified professional to prepare a Design and Operating Plan which addresses, but is not limited to, the design, operation, acceptable materials and/or discharges, leachate management, odour management, monitoring, reporting, closure and post-closure care, and performance requirements for the facility. The Operational Certificate holder must operate the facility in accordance with the Design and Operating Plan, and any requirement which the Director may attach to the Design and Operating Plan as a condition of approval.

3.2 **Odour Management Plan**

The Operational Certificate holder must ensure the odour management plan contains all of the following:

- Identification of all odour generating areas at the facility including, but not limited to the following: receiving, mixing, anaerobic digestion, composting, curing, screening, leachate collection system, aeration system, biofilters, grinding, storage and waste collection/storage.
- Identification of appropriate mitigating strategies employed for each odour generating area and inclusion of a table in the plan summarizing the mitigation strategies.
- An outline of all best management practices and emission control technologies aimed at reducing odour generation being employed at the facility.
- Identification of other best management practices and emission control

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technologies that could potentially be used on site to further reduce and control odour.

- A complaint management process, which includes a compliant form and a process for taking investigation and mitigation actions in response to a compliant.

The Operational Certificate holder must operate the facility in accordance with the submitted odour management plan and in accordance with any additional requirements specified by the Director as a condition of approval.

The Operational Certificate holder must provide the Director with additional information as requested by the Director with respect to odour management at the facility. The Director may specify particular concerns or questions that the facility must address, which the Operational Certificate holder must incorporate into the plan in accordance with the specification of the Director.

3.3 **Leachate Management**

The Operational Certificate holder must ensure that all leachate generated from the composting operation, buildings, paved open surface areas, and finished compost storage areas is collected and directed to the on-site leachate collection system. The Operational Certificate holder must ensure that all leachate generated from composting operations is directed to the leachate collection system. The Operational Certificate holder must maintain all collection channels, catch basins, and the sump area to ensure proper drainage. The sump pump must be maintained in good working condition.

The Operational Certificate holder must control and treat leachate generated on the site within a closed system. Leachate must not be discharged to the surrounding environment. All leachate must be disposed of to an Authorized facility.

The director may request additional information with respect to leachate management and specification that he or she considers necessary for the protection of human health and the environment, and may specify particular concerns or questions that the plans and specifications must address.

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3.4 Changes to Plans

The Operational Certificate holder must keep the design and operating plan up to date and must notify the director of any changes to the plan within 30 days of the change.

3.1 Compost Operations

The Operational Certificate holder must ensure the following requirements are met:

Class A compost must meet the requirements of pathogen reduction processes, vector attraction reduction, pathogen reduction limits, quality criteria, sampling and analysis – protocols and frequency, and record keeping as outlined in the Organic Matter Recycling Regulation.

Residuals from the composting process must be stored so as to prevent vector attraction, and be disposed of on a regular basis in accordance with the *Environmental Management Act*.

Residuals that are stored at a compost facility must not at any time exceed 15 cubic meters in total.

3.4 Closure of the Facility

Before closure of the facility, the Operational Certificate holder must apply or distribute all compost in accordance with the Organic Matter Recycling Regulation, and all unprocessed organic matter must be removed from the facility and dealt with in accordance with the *Environmental Management Act*.

A final closure plan for the compost facility must be submitted 90 days prior to deactivation of the site to the director for review and approval. The final closure plan and associated engineered closure works must be compatible with the planned end-use of the compost facility.

4. DISCHARGE REQUIREMENTS

4.2 Odours

Should objectionable odours, attributable to the operation of the Facility, occur beyond the property on which the Facility is located, the Operational Certificate

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holder must undertake measures or additional works to reduce odour to acceptable levels.

5. **MONITORING AND SAMPLING REQUIREMENTS**

5.1 **Future Monitoring**

The Director may require the Operational Certificate holder to conduct monitoring, and may specify procedures for monitoring and analysis, and procedures or requirements respecting the handling, treatment, transportation, discharge or storage of waste.

The Director may amend any requirements under this section, including requiring increased or decreased monitoring based on data submitted by the Operational Certificate holder and any other data gathered in connection with this authorization.

5.2 **Sampling Procedures**

The Operational Certificate holder is required to carry out sampling in accordance with the procedures described in the “British Columbia Field Sampling Manual for Continuous Monitoring and the Collection of Air, Air-Emission, Water, Wastewater, Soil, Sediment, and Biological Samples, 2014 Edition (Permittee)”, or the most recent edition, or by alternative procedures as authorized by the Director.

A copy of the above manual is available on the Ministry web page at www.env.gov.bc.ca/epd/wamr/labsys/lab_meth_manual.html.

5.3 **Analytical Procedures**

The Operational Certificate holder must carry out analyses in accordance with procedures described in the “British Columbia Laboratory Manual (2015 Permittee Edition)”, or the most recent edition, or by alternative procedures as authorized by the Director.

A copy of the above manual is available on the Ministry web page at www.env.gov.bc.ca/epd/wamr/labsys/lab_meth_manual.html

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6. **REPORTING REQUIREMENTS**

6.1 **Annual Reporting**

The Operational Certificate holder must prepare and submit an annual report to the Director each year. Annual reports must contain the following information:

- 1) The quantity and type of compostable materials received for the proceeding calendar year;
- 2) The results of all monitoring programs as specified in this authorization. Data interpretation and trend analysis, as well as an evaluation of the impacts of the discharges on the receiving environment in the previous calendar year must be carried out by a Qualified Professional;
- 3) A summary and analysis of all complaints received in the previous calendar year; and
- 4) Any improvements made to the facility or operations.

Annual reports are due each year on January 30 and are to be submitted to EnvAuthorizationsReporting@gov.bc.ca

6.2 **Maintenance of Records**

The Operational Certificate holder must collect and maintain all records and plans required under this authorization and under the Organic Matter Recycling Regulation for inspection when requested by Ministry staff.

7. **LICENCE TO PUBLISH DOCUMENTS**

- 7.1 Subject to section 7.2, the Operational Certificate holder authorizes the Province to publish on the Ministry of Environment website the entirety of any Regulatory Document.
- 7.2 The Province will not publish any information that could not, if it were subject to a request under section 5 of the *Freedom of Information and Protection of Privacy Act*, be disclosed under that Act.

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- 7.3 The Operational Certificate holder will indemnify and save harmless the Province and the Province’s employees and agents from any claim for infringement of copyright or other intellectual property rights that the Province or any of the Province’s employees or agents may sustain, incur, suffer or be put to at any time that arise from the publication of a Regulatory Document.

8. GLOSSARY

For the purpose of this authorization:

“**Facility**” means biofuel facility at 9752 – 192nd Street, Surrey, British Columbia.

“**Province**” means Her Majesty the Queen in right of British Columbia.

“**Qualified Professional**” means an applied scientist or technologist specializing in an applied science or technology applicable to the duty or function, including, if applicable, if applicable and with out limiting this, agrology, biology, chemistry, engineering, geology or hydrogeology and who

i) is registered with the appropriate professional organization, is acting under that organization’s code of ethics and is subject to disciplinary action by that organization, and

ii) through suitable education, experience, accreditation and/or knowledge, may be reasonably relied on to provide advice within their area of expertise.

All documents submitted to the Director by a Qualified Professional must be signed by the author(s).

“**Regulatory Document**” means any document that the Operational Certificate holder is required to provide to the Director or the Province pursuant to (i) this authorization; (ii) any regulation made under the *Environmental Management Act* that regulates the facility described in this authorization or the discharge of waste from that facility; or (iii) any order issued under the *Environmental Management Act* directed against the Operational Certificate holder that is related to the facility described in this authorization or the discharge of waste from that facility.

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