



August 30, 2016

Tracking Number: 351443

Authorization Number: 108476

X- reference: OMRR Notification No.: 18055

REGISTERED MAIL

Enviro-Smart Organics Ltd.
4295 72nd Street
Delta, B.C. V4K 3N2

Dear Permittee:

Enclosed is Permit 108476 issued under the provisions of the *Environmental Management Act*. Your attention is respectfully directed to the terms and conditions outlined in the permit. An annual fee will be determined according to the Permit Fees Regulation.

This permit 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 Permittee. This permit is issued pursuant to the provisions of the *Environmental Management Act* to ensure compliance with Section 120(3) of that statute, which makes it an offence to discharge waste, from a prescribed industry or activity, without proper authorization. It is also the responsibility of the permittee 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.

The Greater Vancouver Regional District (Metro Vancouver) has delegated authority under *Environmental Management Act* in relation to the discharge of air contaminants. Requirements related to the discharge of any air contaminants are not included within this permit. The permittee is advised to be aware of this authority and the need to obtain other authorizations from Metro Vancouver, if required.

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.

It is the responsibility of the permittee to minimize contaminants in the compost process by separation of packaging materials and non-compostables, and to recycle and dispose of the packaging materials and non-compostables in accordance with applicable legislation.

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 may be sent to the Director or designated Officer via to the Environmental Reporting Mailbox address EnvironmentalReporting@gov.bc.ca.

Yours truly,



C. Meays, PhD., R.P.Bio., P.Ag.
For Director, *Environmental Management Act*

Enclosure

cc: Environment Canada, registry.pyr@ec.gc.ca

**MINISTRY OF
ENVIRONMENT**

PERMIT

108476

Under the Provisions of the Environmental Management Act

**Enviro-Smart Organics Ltd.
4295 72nd Street
Delta, B.C. V4K 3N2**

is authorized to discharge compostable materials consisting of food waste, greenhouse cuttings, fruit waste, vegetable waste, yard waste, brewery waste/winery waste, untreated and unprocessed wood residuals, whey, horse manure, and sawdust to ground at a composting facility located in Delta, British Columbia, subject to the requirements listed below. Contravention of any of these requirements is a violation of the *Environmental Management Act* and may lead to prosecution.

Unless otherwise defined in this authorization, terms used in this authorization have the same meaning as those defined in the *Environmental Management Act* and Organic Matter Recycling Regulation.

1. AUTHORIZED DISCHARGES

1.1. Authorized Source

This section applies to the discharge of compostable materials at the following facility: 4295 72nd Street, Delta, BC. The site reference number for the compost facility is E306588.

- 1.1.1. The maximum annual volume of compostable materials to be discharged is 150,000 wet tonnes per year.
- 1.1.2. The discharge is authorized to occur at the authorized works as described as follows:
 - (a) asphalt paved surfaces including the truck marshalling areas and secondary curing areas;
 - (b) one primary receiving building;
 - (c) one bentonite clay-lined leachate pond;
 - (d) one freshwater storage pond;
 - (e) one construction water pond;
 - (f) two engineered fermentation buildings. The buildings include temperature control, leachate management, and aeration systems;

- (g) one biofilter with four zones; and
- (h) pipes, gutters, roof leaders, and sump.

These authorized works and related appurtenances approximately located as shown in Figure 2 – Site Layout (August 25, 2016 revised version), attached.

- 1.1.3. The permittee must not discharge under this authorization unless the authorized works are complete and fully operational.
- 1.1.4. The location of the facilities from which the discharge is authorized to originate and the authorized point of discharge is Lot 1, Plan LMP 43954, DL 179 & 180, Group 2, New Westminster District; PID: 024-632-091.

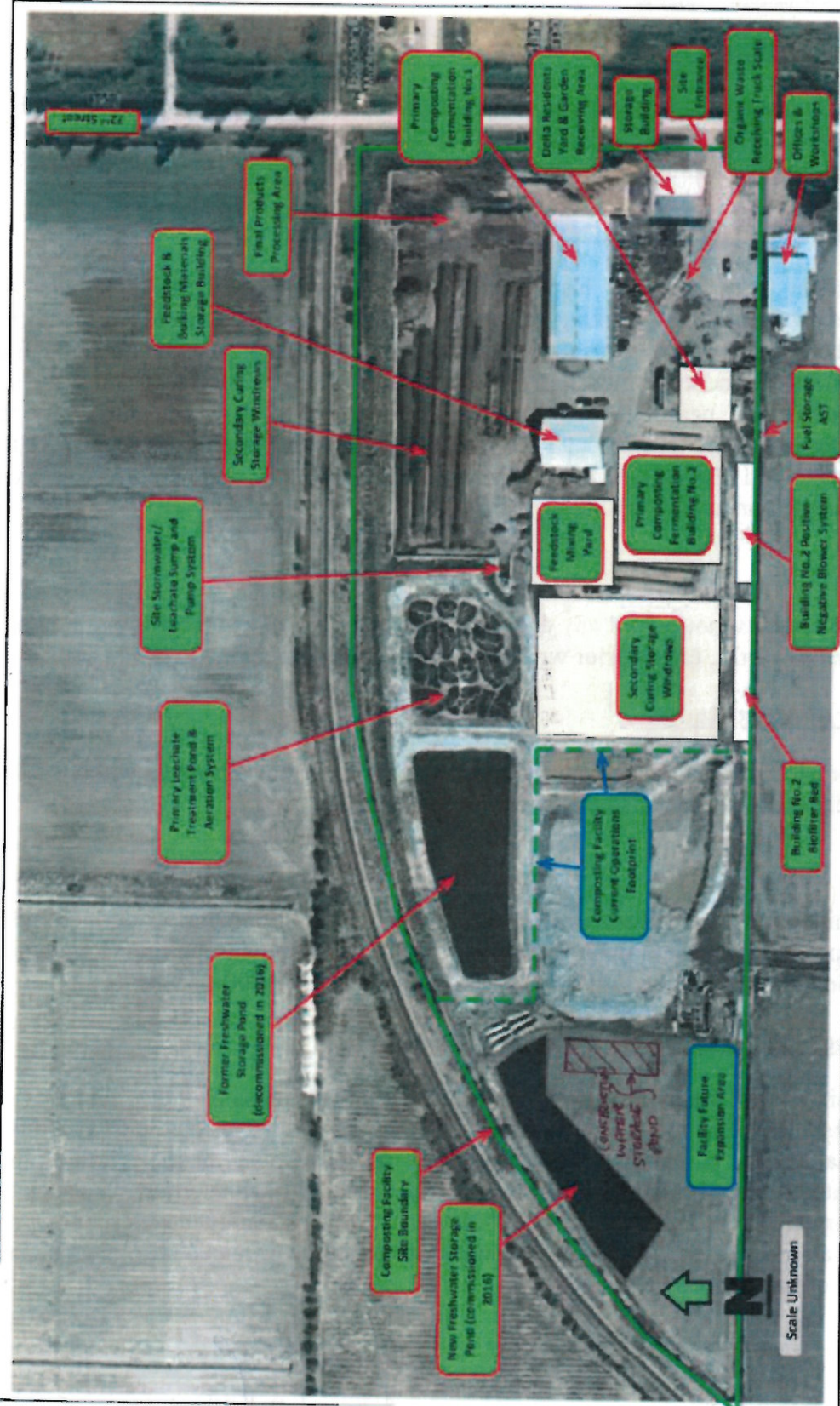


Figure 2. Site Layout – Enviro-Smart Recycling, 4295-72nd Street, Delta, BC
Revised: Aug 25, 2016 Add Construction water storage pond

Lyndy May

C. Mcays, PhD., R.P. Bio., P. Ag
For Director, Environmental Management Act
PR 108476

2. GENERAL REQUIREMENTS

2.1. Future Upgrading of Works

The director may require the permittee 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 permittee must regularly inspect the authorized works and must maintain the authorized works in good working order. In the event of an emergency or condition beyond the control of the permittee including, but not limited to, unauthorized fires arising from spontaneous combustion or other causes, or detection of leachate at the site of the facility, the permittee must take appropriate remedial action and notify the director immediately. The director may reduce or suspend operations to protect the environment until the authorized works have been restored, and/or corrective steps taken to prevent unauthorized discharges.

2.3. Bypasses

The permittee must not permit any discharge authorized by this authorization to bypass the authorized works, unless prior written approval from a director.

2.4. Transfer of Authorization

A transfer of this authorization by the permittee to any other person is without effect unless a director has consented in writing to the transfer.

2.5. Spills

The permittee must immediately report all spills to the environment (as defined in the Spill Reporting Regulation) in accordance with the Spill Reporting Regulation. Notification must be via the Emergency Management BC at 1-800-663-3456.

2.6. Emergency Response Plan (fire and spills)

The permittee must prepare and maintain an emergency response plan that describes the procedures to be taken to prevent or mitigate any deposit of deleterious substance out of the normal course of events. The emergency response plan must be immediately implemented if there is a deposit, or any risk of a deposit, of a deleterious substance out of the normal course of events. In addition, an up-dated emergency response plan, including a report on any emergency responses, taken in the previous year, must be kept available, on site for inspection.

2.7. Financial Security

The director may require the permittee to provide security in the amount and form, and subject to the conditions, specified by the director.

2.8. Signage

The permittee must ensure that at all times the facility has a sign posted at the entrance to the facility which clearly identifies the name and address of the facility, owner and operator, contact phone number, emergency phone number, hours of operation, and information on materials accepted and not accepted at the facility. The sign must be of a size and have print that is easily readable from the entrance to the facility.

2.9. Qualified Professionals

All documents submitted to the director by a qualified professional must be signed by the author(s).

2.10. Litter Control

The permittee must clean up any litter scattered into the neighbouring property, along access roads, in drainage ditches, along litter control fences, into surrounding trees or elsewhere on the site. The director may determine the frequency of clean-up and other additional requirements for litter scatter control.

2.11. Wheel Rinsing

Effective November 15, 2016, the permittee must ensure, before any vehicle transporting compostable materials leaves the site, that the wheels of the vehicle are rinsed to remove all compostable materials. Compostable materials removed must be managed in accordance with this authorization. Rinse water must be directed to the leachate management system. These requirements must be included in the design and operating plan.

The permittee must ensure that all leachate from the truck marshalling area is directed to the leachate management system.

2.12. Access Security

The permittee must provide adequate security for the facility and restrict access to authorized personnel.

2.13. Non-Compliance

The permittee must immediately report any non-compliance with the requirements of this authorization, including but not limited to, unauthorized bypasses, malfunctions, emergency conditions, authorization exceedances, and toxicity test failures.

The permittee must submit all non-compliance reports electronically to EnvironmentalNonCompliance@gov.bc.ca.

The permittee must report any event that will result in direct impact to human health, animal kills and/or immediate and significant impact to the environment 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>.

2.14. Additional Information Requirements

The director may require investigations, surveys, and the construction of additional facilities or works. The director may also amend any information requirements of this authorization.

3. REQUIREMENTS FOR COMPOST FACILITIES

3.1. Environmental Impact Study

The permittee 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 permittee must submit to the director for approval an updated design and operating plan by December 1, 2016. The plan must be prepared by a qualified professional. The plan must address, but is not limited to, the design, operation, acceptable materials and/or discharges, leachate management, monitoring, reporting, closure and post-closure care, security, liability and performance requirements for the facility. The permittee must operate the facility in accordance with the approved design and operating plan, and any requirements which the director may attach to the design and operating plan as a condition of approval.

The director may request additional information with respect to the design and operation plan and specifications 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.

3.3. Leachate Management

The permittee must ensure that all leachate generated from the composting operation, buildings, paved open surface areas, outdoor curing areas, and finished compost storage areas is collected and directed to the on-site leachate collection system. The permittee must ensure that all leachate generated from composting operations is directed to the leachate collection system. The permittee 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 permittee must control and treat leachate generated on the site within a closed system. Leachate must not be discharged to the surrounding environment. This authorization does not authorize any leachate discharge to the environment.

The permittee must construct and maintain surface water diversion works to prevent surface water from entering or leaving active composting areas.

The director may request additional information with respect to leachate management and specifications 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.

3.4. Changes to Plans

The permittee 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.

3.5. Compost Operations

The permittee must ensure the following requirements are met:

- (a) 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.
- (b) At least half of the compost stored at 4295 72nd Street, Delta, B.C. must be removed annually (calendar year) from the facility.
- (c) Residuals from the composting process must be stored so as to prevent vector attraction, and be disposed of on a regular basis in accordance the *Environmental Management Act*.

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

3.6. Closure of the Facility

Before closure of the facility, the permittee 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. MONITORING AND SAMPLING

4.1. Future Monitoring

The director may require the permittee to conduct monitoring, and may specify procedures for monitoring and analysis, and procedures or requirements respecting the handling, treatment, transportation, composting or storage of materials. The director may, in writing, change and amend these monitoring requirements. The permittee is required to implement such specifications, changes or amendments in accordance with the requirements of the director.

4.2. Future Impact Assessment

The director may require the permittee to conduct studies and report information in accordance with the specifications of the director.

4.3. Sampling Procedures

The permittee must 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, 2003 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

4.4. Analytical Procedures

The permittee must carry out analyses in accordance with the procedures described in the "British Columbia Laboratory Manual (2009 Permittee Edition)", or the most current edition, or by suitable 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. REPORTING REQUIREMENTS

5.1. Construction Water Pond

The permittee must not use construction water, vacuum truck wash water or any other water sourced from off-site (except municipal water, precipitation generated at the site, and water from nearby ditches) in the composting process, unless it has been tested and meets the limits specified in this section.

The permittee must not mix water from the construction water pond with water contained in the freshwater pond unless it has been tested and meets the limits specified in this section.

At a minimum, the permittee must collect quarterly representative samples of water from the construction water pond and assess water quality for pH, total metals and total extractable hydrocarbons. Analytical results must be included in the annual report and made available for inspection. Contaminant concentrations of the construction water pond, to be used in the composting process, must not exceed the following:

- (a) Total extractable hydrocarbons: 15 ppm;

- (b) Total Metals concentrations: 50 percent of the Class A Compost Quality Criteria, expressed as mg/L, as outlined in OMRR Schedule 4.1 as follows:

Arsenic	6.5 mg/L
Cadmium	1.5 mg/L
Chromium	50 mg/L
Cobalt	17 mg/L
Copper	200 mg/L
Lead	75 mg/L
Mercury	1 mg/L
Molybdenum	2.5 mg/L
Nickel	31 mg/L
Selenium	1 mg/L
Zinc	250 mg/L

- (c) and must not result in the compost quality itself exceeding Schedule 4.1; and

- (d) pH: 6:0 – 9.0.

The permittee must not receive vacuum truck wash water if it is at or above Hazardous Waste levels.

5.2. Annual Reporting

The permittee must submit an annual report to the director on or before March 31 each year for the previous calendar year. The report must include but is not limited to the following information:

- (a) The quantity and type of compostable materials received for the proceeding calendar year;
- (b) Occurrences or observations of wildlife vectors (including vermin) at the facility;
- (c) 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; and
- (d) A letter prepared and signed by a qualified professional whose area of professional specialty includes composting confirming that the facility is operating as designed and required by this authorization.

Annual reports are to be submitted to EnvironmentalReporting@gov.bc.ca.

5.3. Maintenance of Records

The permittee must maintain all records and plans required by this authorization and produce them for inspection by an officer when requested.

6. LICENCE TO PUBLISH DOCUMENTS.

6.1 Subject to section 6.2, the permittee authorizes Her Majesty the Queen in right of British Columbia (the "Province") to publish on the Ministry of Environment website the entirety of any document that the permittee 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 permittee that is related to the facility described in this authorization or the discharge of waste from that facility (a "Regulatory Document").

6.2 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.

6.3 The permittee 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.

7. GLOSSARY

For the purpose of this authorization:

7.1. "Qualified Professional" means:

an applied scientist or technologist specializing in an applied science or technology applicable to the duty or function, including, if applicable and without limiting this, agrology, biology, chemistry, engineering, geology or hydrogeology and who:

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

An air quality specialist must have suitable education, experience, accreditation and/or knowledge acceptable to the director.