



# Puget Sound Clean Air Agency

Notice of  
Construction No. **10645**

Registration No. **25924**

Date  
**MAR 05 2014**

## HEREBY ISSUES AN ORDER OF APPROVAL TO CONSTRUCT, INSTALL, OR ESTABLISH

One Six-Zone Primary Compost Pad using Negative Aeration and a Biofiltration System rated at 130,000 cfm, for yard waste and commercial pre-consumer food waste; one Enclosed Zone 7 Compost Pad and 48,000 cfm biofilter, for yard waste and commercial food waste; 12 Secondary Zones using Negative Aeration and a 66,000 cfm biofilter, for secondary composting of materials from zones 1-7; one In-Vessel Gore Cover Technology Composting System rated at 41,000 tons per year, for yard waste and commercial food waste; one 2,500 gallon Treatment and Holding Tank, for fan condensate; one Tipping Building, controlled by a biofilter rated at 18,000 cfm.; and one building for pre-processing, sorting, and grinding, with it and the tipping building extension controlled by a biofilter rated at 35,300 cfm.

### APPLICANT

**Guy Woodbeck  
Cedar Grove Compost Co  
7343 E Marginal Way S  
Seattle, WA 98108**

### OWNER

**Cedar Grove Compost Co  
7343 E Marginal Way S  
Seattle, WA 98108**

### INSTALLATION ADDRESS

**Cedar Grove Compost Co, 17825 Cedar Grove Rd, Maple Valley, WA, 98038**

### THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.

### Facility Wide Requirements

3. Cedar Grove shall maintain its O&M/EMS plan in accordance with the requirements of Regulation I Section 5.05(c). The plan must address procedures for determining when the Composting Systems, Tipping Building, Grinding Building, and Biofilter Controls are operating properly and the corrective actions that will be taken when they are not.
4. Pursuant to the State Environmental Policy Act, to assure for all the people of Washington safe, healthful, productive, and aesthetically and culturally pleasing surroundings; to attain the widest range of beneficial uses of the environment without degradation, risk to health or safety, or other undesirable and unintended consequences; and based on Puget Sound Clean Air Agency Board Resolution No 565, Section 14 and WAC 197-11-660; Cedar Grove Composting:
  - (a) Shall use water drawn from the Aquifer Three, in accordance with the facility's current water right permit and not use water drawn from Aquifer Three in the preparation of feed stocks, nor for moisture addition at any time during the composting or curing process, and;
  - (b) Shall not discharge to any surface water from its retention ponds, without notification to the Washington Department

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of Ecology as delineated in its NPDES permit.

(c) Prior to first placement of feedstocks on Zone 7, Cedar Grove Composting:

(1) Shall pave the main site access road to reduce fugitive dust; and

(2) Shall submit and receive Puget Sound Clean Air Agency approval for the following changes to the Environmental Management System (EMS) manual:

i. Describe the procedures that will be used to manage and maintain storm water retention capacity during the various seasons, while using published long range precipitation forecasts, so as not to exceed the King County METRO wastewater discharge permit limits, the Cedar Hills Landfill force main discharge allotment, or the NPDES permit discharge limits.

ii. Describe the backup truck pumping and transport procedures for excess storm waters, to be used in the event that the Cedar Hills Landfill force main allotment is reduced or eliminated, and for periods when electricity is lost after a storm event.

5. Cedar Grove shall conduct one daily inspection of the entire material handling system (e.g. conveyor transfer points, air handling system, conveyor covers, access doors, air handling ducting/piping) to determine if the material handling system is damaged and/or not being maintained in good working order. Cedar Grove shall record the date and start time of each daily inspection in a daily log at the time of the inspection, and whether any part of the material handling system is damaged and/or not being maintained in good working order. Each entry shall be initialed by the Cedar Grove employee conducting the inspection. If the material handling system is determined to be damaged and/or not maintained in good working order, Cedar Grove shall record the date and time of discovery and date and time of repair on the inspection log. If the damaged material handling equipment or equipment not maintained in good working order is logged as repaired (or associated processing equipment shut down until corrected) within 180 minutes of discovery, this shall not be a reportable deviation.

6. Cedar Grove shall conduct one daily inspection of its entire facility to observe any visible emissions of fugitive dust. If visible emissions are observed, Cedar Grove shall determine if precautions are being taken to minimize the fugitive dust. In addition, Cedar Grove shall conduct two daily inspections to determine if its dust control equipment (e.g. water spray bars, water truck) is being operated in good working order. Cedar Grove shall record the date and start time of each daily inspection in a daily log at the time of the inspection, and whether any visible dust is observed, precautions are being taken to minimize fugitive dust, and dust control equipment is being operated in good working order. Each entry shall be initialed by the Cedar Grove employee conducting the monitoring. If visible emissions of fugitive dust are observed without precautions taken and/or dust control equipment is not being operated in good working order, Cedar Grove shall record the date and time of discovery and date and time precautions were taken and/or repairs completed on the inspection log. Any visible fugitive dust event where precautions are logged as taken, to minimize dust emissions within 20 minutes of discovery (or associated processing/ heavy equipment shut down until corrected), shall not be a reportable deviation. If any dust control equipment that is not operating in good working order is logged as corrected within 60 minutes of discovery (or the source of dust shut down until corrected), this shall not be a reportable deviation.

7. Cedar Grove shall conduct one daily visual inspection of each biofilter to determine if the biofilters are channeling, rifting, short circuiting or not being maintained or operated in good working order. Cedar Grove shall record the date and start time of each daily inspection in a daily log, and whether any biofilter is channeling, rifting, short circuiting or not being maintained or operated in good working order at the time of the inspection. Each entry shall be initialed by the Cedar

Grove employee conducting the monitoring. If any biofilter is determined to be channeling, rifting, short circuiting or not being maintained or operated in good working order, Cedar Grove shall record the date and time of discovery and date and time of repair on the inspection log. If any biofilter that is channeling, rifting, short circuiting or not being maintained or operated in good working order is logged as corrected by the end of the day of discovery, it shall not be a reportable deviation.

8. Within 90 days of the date of this Order, Cedar Grove shall install and operate continuous parameter monitoring systems on all biofiltration systems. The monitoring systems shall measure and record velocity pressures, static pressures, and temperatures on a one-hour average basis. A continuous parameter monitoring plan that delineates locations and monitoring methods shall be submitted to the Agency for approval prior to installation of the continuous parameter monitoring system. This plan shall be submitted to the Agency no later than 30 days after the approval date of this Order. In addition, until the continuous parameter monitoring systems are installed, Cedar Grove shall measure and record these parameters manually at least once per operating day. Manual velocity measurements shall use EPA Reference Method 2 (Type S Pitot Tube).

9. Cedar Grove shall have the operations of the tipping building, pre-processing/sorting and grinding building, zone 7 building and biofilters reviewed and evaluated by an independent third party quarterly. Each evaluation shall be no less than 75 calendar days since the last evaluation and no more than 105 calendar days since the last evaluation. A copy of the written evaluation report shall be submitted to the Agency no later than 30 days after the evaluation date. The purpose of this evaluation is to review the performance of the emission capture system for these buildings and the biofilter operation. The evaluation shall include, but is not limited to:

- (a) Operational condition and integrity of the exhaust/capture system
- (b) Operational condition and integrity of the biofiltration system
- (c) Adequacy and effectiveness of the system maintenance program and practices
- (d) Repair history and troubleshooting efforts
- (e) Recommendations for continuous improvement of the integrated system operation

10. [RESERVED]

11. Cedar Grove shall maintain all monitoring and recordkeeping records required by this Order at the Maple Valley facility, including all deviations reports, and make them available to the Agency upon request. All documents required under this Order shall be kept for a minimum of two years.

**Pre-Processing/Sorting and Grinding Building**

12. With the exception of stumps, brush, and clean wood, all feed stocks brought on site shall be deposited into the tipping building, where they shall be stored under negative ventilation until processed and placed on a composting system.

13. Cedar Grove shall continuously store and/or handle materials described in Condition No. 12 either inside the tipping building or pre-processing/sorting and grinding building, and not expose the material in any way to ambient air until after being processed in the preprocessing/sorting and grinding building. The tipping building door nearest the grinder intake hopper shall remain closed at all times when grinding is taking place. Additionally, any other access door into the grinding building, excluding the connection tunnel with the operating grinder, shall remain closed at all times when grinding is

taking place, except when delivery trucks are entering or exiting while grinding is taking place.

14. Emissions from the tipping building, and the pre-processing, sorting, and grinding building, shall be captured and passed through the biofilter. Compliance with this requirement shall be determined by the observation of no visible emissions from any open building face during the release of test smoke or other methods specified in an Agency approved test plan.

15. Once each calendar quarter, Cedar Grove shall perform testing for the buildings/enclosures with negative ventilation systems. The test shall be completed with the buildings/enclosures closed to the maximum extent possible during normal operations. Each quarterly test shall be conducted no less than 45 days and no more than 135 days since the last test. Cedar Grove shall record the date and start time of each ventilation test in a monthly log, and the test results (pass or fail). Each entry shall be initialed by the Cedar Grove employee conducting or observing the test. Cedar Grove shall propose the test method to be used for the quarterly test, for Agency approval and possible viewing. Each of these tests shall be recorded in a digital video format to document the results of the test, maintained on site for 2 years, and made available to the Agency upon request. Cedar Grove shall have additional test kits available at the facility, consistent with the currently approved procedures, for use when directed by Agency personnel during inspections. The Agency reserves the right to require modification to the approved test procedures following written notice to Cedar Grove by the Agency.

16. Cedar Grove shall monitor each material load received and record and make entry onto a daily log, whether each material load received was deposited inside or outside the tipping building. Each entry shall be initialed by the Cedar Grove employee conducting the monitoring. Each deviation log entry shall include the time and date of the deviation, customer name, vehicle description (including license plate number), and description of material deposited outside the tipping building.

Primary Zones 1-7 and Secondary Zones 1-12

17. Emissions from Primary Zones 1-7 shall be captured and passed through biofiltration.

18. Secondary Zones 1-12 shall only accept compost for second phase treatment from Primary Zones 1-7.

Gore Cover System

19. Cedar Grove shall conduct one daily visual inspection of the entire Gore cover system to determine if the Gore cover is secured to the ground by use of a weighted device to capture odorous emissions. Cedar Grove shall record the date and start time of each daily inspection in a daily log, and whether the Gore cover system is secured to the ground by use of a weighted device at the time of the inspection. Each entry shall be initialed by the Cedar Grove employee conducting the monitoring. If the Gore system cover is observed to be not secured to the ground by use of a weighted device, Cedar Grove shall record the date and time of discovery and date and time the Gore System cover was secured to the ground by use of a weighted device on the inspection log. If the Gore system cover is secured to the ground by a weighted device within 60 minutes of discovery, this shall not be a reportable deviation.

20. Cedar Grove shall conduct one daily inspection of the entire Gore cover system in use to determine if any Gore cover material has any visible holes or tears. Cedar Grove shall record the date and start time of each daily inspection in a daily log, and whether any holes or tears in the Gore cover system were observed at the time of the inspection. Each entry shall be initialed by the Cedar Grove employee conducting the monitoring. If the Gore system cover is observed to have visible holes or tears, Cedar Grove shall record the date and times of discovery and date and time repairs were completed on the inspection log. If the holes or tears are logged as completely repaired or corrected by the end of the day of discovery, this

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shall not be a reportable deviation.

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## Deviation Reporting

21. Cedar Grove shall prepare monthly compliance deviation reports, on forms prepared or approved by the Agency, and send them to the Agency. Reports shall be received by the Agency within 30 days following the end of the calendar month. Each report shall include a statement of compliance identifying each reportable deviation, and shall be signed by a responsible official of Cedar Grove certifying that the report is truthful and accurate.

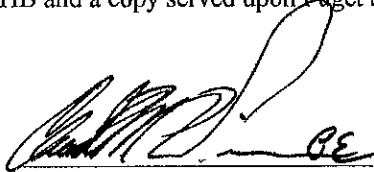
22. Each day a monthly deviation report is not submitted to the Agency, in accordance with this Order, constitutes a separate and distinct reportable deviation. The Agency reserves the right to take additional enforcement action, including but not limited to, seeking injunctive relief in the Superior Court of King County based on information contained within deviation reports or credible information.

## Previous Orders of Approval

23. This Order of Approval hereby cancels and supersedes all previous Orders of Approval for this facility, including Nos. 5136 dated 12/06/1993, 7055 dated 08/15/1997, 7638 dated 11/02/1999, 8213 dated 08/08/2000, 8913, dated 03/19/2004, 10052 dated 12/22/2010, and 10456 dated 3/6/2012.

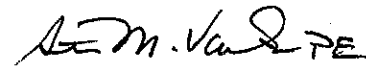
## APPEAL RIGHTS

Pursuant to Puget Sound Clean Air Agency's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within 30 days of the date the applicant receives this Order.



Claude Williams  
Reviewing Engineer

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Steven Van Slyke  
Compliance Manager