

EMISSIONS ACTIVITY CATEGORY FORM LANDFILLS

This form is to be completed for any solid waste or construction and demolition debris landfill. State/Federal regulations which may apply to landfills are listed in the instructions. Note that there may be other regulations which apply to this emissions unit which are not included in this list.

1. Reason this form is being submitted (Check one)

New Permit Renewal or Modification of Air Permit Number(s) (e.g. F001)_____

2. Maximum Operating Schedule: _____ hours per day; _____ days per year

If the schedule is less than 24 hours/day or 365 days/year, what limits the schedule to less than maximum? See instructions for examples. _____

3. Name of the Landfill: _____

4. What type of landfill does this form refer to (check all that apply):

- Sanitary Landfill for Municipal Solid Waste (MSW)
- Sanitary Landfill for Residual Waste
- Sanitary Landfill for Asbestos Containing Waste Materials
- Construction and Demolition Debris Landfill (C&DD)

5. Date the landfill plans to first receive waste or date the landfill first received waste:

When did the facility obtain it's initial Permit to Install from the Ohio EPA, Division of Air Pollution (if obtained) and what was the annual amount of waste allowed to be received (in tons or cubic meters)?

When did the facility obtain any additional Permits to Install from the Ohio EPA, Division of Air Pollution (if any were obtained) to increase the annual amount of waste allowed to be received and what was the allowable increase (in tons or cubic meters)?

6. For sanitary landfills, when did the facility obtain its current Permit to Install from the Ohio EPA, Division of Solid and Infectious Waste Management (if obtained) and what was the Authorized Maximum Daily Waste Receipt (AMDWR, tons per day) and final capacity allowed (cubic meters)?

For sanitary landfills, has the facility applied to receive a Permit to Install from the Ohio EPA, Division of Solid and Infectious Waste Management to increase the AMDWR and, if so, what increase in the AMDWR (tons per day) is being requested?

For sanitary landfills, has the facility applied to receive a Permit to Install from the Ohio EPA, Division of Solid and Infectious Waste Management to increase the final capacity and, if so, what increase in the final capacity (mass in million megagrams or volume in cubic meters) is being requested?

7. Estimated final landfill capacity: _____ tons of compacted waste.

If the landfill is in operation, estimate remaining landfill capacity:
_____ tons of compacted waste.

If the landfill is in operation, indicate the tons of solid waste accepted each year (tons/year and year) since solid waste was accepted.

Expected remaining useful life of the landfill _____ years

Assume a waste density of 1000 lb/yd³ (589 kg/m³) or indicate an alternate density used to calculate the capacity: Alternate density _____ lb/yd³.

If an alternate density is used document how the alternate density was determined.

8. What control methods will or does the facility use to control odors which may contribute to an air pollution public nuisance? In what circumstances will or does the facility apply such control measures?

9. For landfills which are subject to the federal regulations under 40 CFR Part 60 subpart WWW, or subject to the federal regulations under 40 CFR Part 60 subpart Cc, or subject to OAC 3745-76, what is the current design capacity of the landfill in million megagrams by mass or in million cubic meters by volume (see 60.752(a))?

10. Waste material information:

Waste Material Description	Silt Content, Percent	Moisture Content, Percent	Volume Dumped per Year, Cubic Yds Per Year
Unprocessed community solid waste	NA	NA	
Shredded community solid waste	NA	NA	
Unprocessed commercial solid waste	NA	NA	
Shredded commercial solid waste	NA	NA	
Construction and demolition debris	NA	NA	
Industrial solid waste, non-hazardous			
Hazardous solid waste			
Mining waste			
Agricultural waste			
Regulated Asbestos Containing Material	NA	NA	
Incinerator residue			
Fly ash			
Sludge (type _____)			
Other (specify _____)			

11. Landfill operation:

Daily waste received: Average _____ tons/day;
 Maximum _____ tons/day

12. Attach a simple drawing of the landfill site. The drawing should include approximate property lines, fences, asbestos warning signs, access roadways, existing and future on-site roadways, buildings, permanent storage piles, existing and planned cell locations, the type of waste in each cell, borrow areas, asbestos waste areas, and direction of prevailing wind.

Attachment ID: _____

FUGITIVE DUST EMISSIONS INFORMATION

13. Attach a detailed description of techniques used to control fugitive dust emissions during the construction of the landfill, and during the operation of the landfill, including the dumping, transfer, compaction and covering of waste material, but not including the control of fugitive dust emissions from plant roadways and parking areas. Refer to the instructions for this form for additional information.

Attachment ID: _____

ASBESTOS WASTE DISPOSAL

14. Will the landfill accept asbestos-containing waste material as defined in 40 CFR 61.141?

- yes (complete items 15 through 21 of this form)
 no (do not complete items 15 through 21 of this form)

15. Minimum amount of cover applied within 24 hours of deposition of asbestos waste: _____ inches

16. Describe the cover material to be used for asbestos waste:

17. On an attached sheet, describe the control techniques used to comply with 40 CFR 61, Subpart M: National Emission Standard for Asbestos. State the procedures to be followed for accepting asbestos wastes, preparation of deposition site, unloading, covering and compaction. Please include which compliance options (40 CFR 61.154 (a) or 40 CFR 61.154 (c) or (d)) will be used to meet the requirements of 40 CFR 61.154.

Attachment ID: _____

18. The permit for a landfill which disposes of asbestos waste will contain or contains terms and conditions which require an Asbestos Spill Contingency Plan to protect workers and control asbestos emissions in the event of an asbestos spill. Attach a copy of the Asbestos Spill Contingency Plan.

Attachment ID: _____

19. On an attached sheet, describe record keeping procedures used to document the delivery of asbestos wastes, the origination, hauler, and amount and condition of the load. Describe procedures to record the location of deposited asbestos wastes. Indicate the attachment ID.

Attachment ID: _____

20. On an attached sheet, describe the final closure techniques to be used on areas where asbestos wastes are deposited.

Attachment ID: _____

INSTRUCTIONS FOR COMPLETION OF THE EMISSIONS ACTIVITY CATEGORY FORM FOR LANDFILLS

GENERAL INSTRUCTIONS: Provide complete responses to all applicable questions. If an item does not apply to the emissions unit, write in "Not Applicable" or "NA." If the answer is not known, write in "Not Known" or "NK." If you need assistance in understanding a question after reading the instructions below, contact your Ohio EPA District Office or Local Air Agency for assistance. Submittal of an incomplete application will delay application review and processing. In addition, the application may be returned as incomplete if all applicable questions are not answered appropriately.

This emissions activity category form is a technical information form which addresses air contaminant emissions from landfills. An EAC form for Roadways and Parking Areas should accompany this form. This EAC form is not intended to satisfy the permit to install application requirements for a sanitary landfill required under OAC 3745-27-06.

For the purpose of this form, a "landfill" is defined as a land disposal site where solid waste materials, semi-solid waste materials, construction and demolition debris, or asbestos-containing waste materials are accepted for disposal. OAC 3745-76 (Control of NMOC Emissions from Existing Landfills), specifically 3745-76-01 (B) (12), defines a landfill as "an engineered facility in which wastes are placed for permanent disposal in accordance with Chapters 3745-27 and 3745-37 of the Administrative Code".

"Asbestos-containing waste materials" means mill tailings or any waste that contains commercial asbestos and is generated by a source (emissions unit) subject to the provisions of 40 CFR 61, Subpart M: National Emission Standard for Asbestos. This term includes filters from control devices, friable asbestos waste material, and bags or other similar packaging contaminated with commercial asbestos. As applied to demolition and renovation operations, this term also includes regulated asbestos-containing material waste and materials contaminated with asbestos including disposable equipment and clothing (terms are defined in 40 CFR 61.141).

APPLICABLE REGULATIONS:

The following State and Federal Regulations may be applicable to landfills. Note that there may be other regulations which apply to this emissions unit which are not included in this list.

Federal: 40 CFR 60, (NSPS) Subpart A, (General Requirements),
40 CFR 60, (NSPS) Subpart WWW (Standards of Performance for Municipal Solid Waste Landfills)
40 CFR 60, (NSPS) Subpart Cc (Emissions Guidelines and Compliance Times for Municipal Solid Waste Landfills)

State: OAC rule 3745-31-02 (Permit to Install)
OAC rule 3745-35-02 (Permit to Operate)
OAC rule 3745-15-07 (Air Pollution Nuisances)
OAC rule 3745-17-07 (Visible Particulate Emissions)
OAC rule 3745-17-08 (Restrictions of Emission of Fugitive Dust)
OAC rule 3745-27 (Solid Waste Regulations)
OAC rule 3745-29 (Industrial Solid waste Regulations)
OAC rule 3745-30 (Residual Solid Waste Regulations)
OAC rule 3745-31-05 (Best Available Technology (BAT) Requirements)
OAC rule 3745-76 (Control of NMOC Emissions from Existing Landfills)

OAC rule 3745-400 (Construction and Demolition Debris Regulations)

If you would like a copy of these regulations, contact your Ohio EPA District Office or Local Air Agency. State regulations may also be viewed and downloaded from the Ohio EPA website at <http://www.epa.state.oh.us/dapc/regs/regs.html>. Federal regulations may be viewed and downloaded at <http://www.epa.gov/docs/epacfr40/chapt-I.info/subch-C.htm>.

CALCULATING EMISSIONS:

USEPA has developed emission factors for many types of emissions units and published them in a document titled "Compilation of Air Pollutant Emission Factors, AP-42", available from the following website: <http://www.epa.gov/ttn/chief/ap42/index.html>

Estimation software for landfills (Landfill Gas Emissions Model) is available from the following USEPA website:

<http://www.epa.gov/ttn/catc/products.html#software>

SPECIFIC INSTRUCTIONS:

1. Indicate whether this is an application for a new permit or an application for permit renewal. If applying for a permit renewal, provide the 4-character OEPA emissions unit identification number.
2. Provide the maximum number of hours per day and days per year the landfill is expected to operate. The following are examples of why the maximum number of hours per day may be less than 24 or the maximum number of days per year may be less than 365 (this list is not all-inclusive):
 - The facility can only operate during daylight hours.
 - The process can only operate within a certain range of ambient temperatures.
 - The process is limited by another operation (i.e., a bottleneck).
7. Indicate the planned final capacity of the landfill in tons of compacted waste. For landfills already in operation, also indicate the remaining capacity to be filled in tons of compacted waste. The cover material should not be included in these calculations. Use an average waste density of 1,000 pounds per cubic yard (589 kg/m³), or indicate the actual density used in pounds per cubic yard, and document the method of determination on a separate sheet.
10. If any waste material will not be accepted, indicate this by entering "none" in the column next to the waste type.

The silt content (percent fines) for each waste type accepted is entered into the appropriate column next to the name of the waste material. Similarly, the moisture content (percent weight water), and the volume (in cubic yards) which is typically dumped in one year are entered into their appropriate columns.

Types of material (refer to the appropriate sections of the OAC or the federal regulations for the definitions of the material types):

- Unprocessed community solid waste: Directly from residential sources.
- Shredded community solid waste: Refuse from residential sources that has been processed through a shredder.

- Unprocessed commercial solid waste: General refuse from stores, restaurants, offices, light industries.
- Shredded commercial solid waste: Above waste that has been processed through a shredder.
- Construction and demolition debris: Waste material from the construction or demolition of houses, buildings or other facilities.
- Industrial solid waste (non-hazardous): Waste material from industrial sources not classified as "hazardous".
- Hazardous solid waste: Waste material defined by the Resource Conservation and Recovery Act (RCRA) to be "hazardous."
- Mining waste: Waste material generated by a mining operation.
- Agricultural waste: Waste material generated from farming or other agricultural activity.
- Regulated Asbestos Containing Material: Wastes containing asbestos as defined in the federal Asbestos NESHAP regulation.
- Incinerator residue: Residue and ashes from incinerators that are not hazardous under RCRA.
- Fly ash: Air pollution collector wastes from fuel-burning equipment.
- Sludge: Any liquid/solid suspension. Specify the origin of the sludge (for example, POTW, industrial pre-treatment, water softening, air pollution scrubber).
- Other: Specify type of waste material if none of the above apply.

Fugitive Dust:

Items (13) and (14) refer to fugitive dust emissions from the operation of the landfill.

13. Describe in detail on a separate sheet all control measures to be used to control fugitive dust emissions during land filling operations. The description should cover waste dumping, transfer, compaction, excavation of cover material, and covering of waste. Roadway dust emissions are addressed in the emissions activity category form for roadways and parking areas which is required to be completed for all landfills. Fugitive emission control techniques include spraying or wetting the area, the erection of wind barriers, more frequent covering or other special handling. Indicate the frequency of application and application rate along with an estimated control efficiency, if known.

Asbestos Waste Disposal:

Items (14) through (20) refer to the waste disposal of asbestos-containing waste materials.

18. Attach a copy of the permit required Asbestos Spill Contingency Plan. The plan must address

broken or open bags in delivery trucks, bag spillage during unloading, and bag breakage during covering. Recognition of hazards and proper response to spills must be stressed. The plan must include initial training of all employees that contact asbestos, training of new employees and periodic review of procedures. The OSHA standards for worker exposure, 29 CFR 1910.1001, must be followed. Indicate the attachment ID.