

### **REQUIREMENTS FOR UNCONTROLLED SOIL AERATION**

1. Any aeration project involving gasoline contaminated soil with an average TPHg concentration of 50 ppm by weight or less or involving 5 cubic yards of soil or less per facility shall be exempt from permit and Best Available Control Technology (BACT) requirements. If elevated benzene concentrations exist in the soil, a public health screening assessment shall be included in order to determine the final status of the proposed soil aeration project.
2. Any soil contamination involving exclusively hydrocarbons with a boiling point of greater than or equal 302° F shall be exempt from the permit and BACT requirements.
3. Those with soil aeration projects that fall under the exemptions are required to notify the SMAQMD of their proposal in writing. Upon approval of the proposal, permission to aerate the soil under the exemption will be granted. A permit shall be required for all other non-exempt soil aeration projects.
4. TPHg and benzene emission rates will be estimated using the following factors:
  1. The average TPHg or benzene concentration found by sampling and analysis of the soil stockpile.
  2. Five days of aeration.
  3. The total volume of soil in cubic yards.
  4. A soil density of 3900 in lb/cy.

The TPHg emission rate for uncontrolled aeration shall not exceed 50 lb/day. If the emission rate is above 50 lb/day or if the public health risk assessment from any carcinogenic compound is unacceptable, then more stringent BACT or TBACT shall be applied (see item 6 for more stringent requirements).

5. A person shall not aerate contaminated soil in excess of that specified in Table 1 for the degree of organic content. The limitations in Table 1 apply to the entire facility, and indicate the volume of contaminated soil that may be aerated uncontrolled. Any more soil to be added to the soil already aerating must receive prior approval from the SMAQMD.

**REQUIREMENTS FOR UNCONTROLLED SOIL AERATION**  
**PAGE TWO**

Table 1

TPHg ppm (weight)	Volume of Soil (cubic yards)
<50	exempt
50 - 99	600
100 - 499	120
500 - 999	60
1000 -1999	30
2000 - 2999	15
3000 - 3999	10
4000 - 4999	8
>5000	0.1

6. Controlled aeration: soil may be aerated at volumes exceeding the limitations in the above table provided emissions of TPHg to the atmosphere are reduced by at least 95% by weight and provided that the results of the public health risk assessment are found to be acceptable.
7. Contaminated soil stockpiles shall be kept completely and securely covered at all times.