

SPECIAL CONDITIONS
August 19, 1999
(3 Special Conditions)

1. The volatile organic compound (VOC) emission rate from the soil vapor extraction (SVE) system, hereinafter "system", shall not exceed 0.56 pound per hour. This condition is necessary to assure compliance with the emission limits which have been established pursuant to Rule 702(a) and 225.
2. Applicant shall monitor and record the flow rate and total VOC concentration of the effluent stream from the SVE on a weekly basis in a manner and with instrumentation acceptable to the Air Quality Division until four valid samples are obtained. Thereafter, the effluent stream from the SVE shall be monitored for these parameters on a monthly basis. As a minimum, VOCs which should be included in determining the total concentration are 1,1-dichloroethylene, trichloroethylene, vinyl chloride, 1,2-dichloroethylene, 1,1,1-trichloroethane. All data, including calculation of VOC emission rates, shall be submitted to the District Supervisor using Appendix A or an approved equivalent method, within 30 days following collection of the initial data, and thereafter within 30 days following the end of the quarter in which the data was collected. Any request for a change in the sampling and/or reporting frequency must be submitted to the District Supervisor, Air Quality Division, for review and approval. This condition is necessary to assure compliance with the emission limits which have been established pursuant to Rules 702(a) and 225.
3. The exhaust gases from the system shall be discharged unobstructed vertically upwards to the ambient air from a stack with a maximum diameter of 4 inches at an exit point not less than 20 feet above ground level. This condition is necessary to assure compliance with Rule 225.

APPENDIX A

**Soil Remediation
 Emission Calculation and Reporting**

Reporting Period _____ to _____

Name of person submitting report _____

Signature _____

Mailing Address _____

City, State, Zip _____

Telephone number (_____) _____ - _____ ext. _____

DATE	Air flow ft ³ /min (A)	Inlet Concentration mg/M ³ (B)	Control Effic.-% (C)	VOC emissions pounds per hour (E)
XX-XX-XXXX	1000	10000	95	1.9

Equations:

$$E = A * B * (100 - C) * 3.74E-8$$