SPECIAL CONDITIONS
May 16, 2001

Emission Unit Identification

Emission Unit	Emission Unit Description	Stack Identification
EUSOILVAP	Soil vapor extraction (SVE) system consisting of 18 vertical SVE wells and a blower. There is no add-on control equipment.	SV-SOILVAP
EUGROUND WATER	Groundwater remediation system consisting of 18 air sparging wells located throughout a specific area at this particular contaminated site.	SV-GROUNDWATER

Emission Limits

	Pollutant	Equipment	Limit	Time Period	Compliance Method	UAR(s)
1.	Volatile Organic Compounds (VOC's)	EUSOIL	0.14 pound per hour	Not Applicable	S.C. No. 2	**R 336.1702(a)**

Monitoring

2. Applicant shall monitor and record the flow rate and total VOC concentration of the exhaust gas discharge stream from EUSOIL on a quarterly basis in a manner and with instrumentation acceptable to the Air Quality Division. As a minimum, VOC's which should be included in determining the total concentration are benzene, 1,1-dichloroethylene, and trichloroethylene. All data, including calculation of VOC emission rates, shall be submitted to the District Supervisor using Appendix A or approved equivalent method, within 30 days following collection of the initial data, and thereafter within 30 days following the end of the semi-annual cycle in which the data were 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. **[R 336.1225, R 336.1702(a)]**

Stack and Vent Conditions

	Stack/Vent ID	Maximum Stack Diameter (inches)	Minimum Height Above Ground Level (feet)	Applicable Requirement(s)
3.	SV-SOILVAP	4.0	55.0	**R 336.1225, 40 CFR 52.21(c)]**
All exhaust gases shall be discharged vertically upwards to the ambient air.				

APPENDIX A - SOIL REMEDIATION
EMISSION CALCULATION AND RECORDKEEPING

PERMITTEE (SOURCE NAME)	CONTACT PERSON	
LOCATION	COUNTY	
RECORDKEEPING PERIOD: Start Date: End Date:	PERMIT TO INSTALL NUMBER	POLLUTANT(S)

DATE	AIR VOLUME FLOW RATE (cubic feet/ minute) **(V)**	INLET CONCENTRATION (milligrams/cubic meter)* **(C)**	CONTROL EFFICIENCY (Percent) **(E_S)**	EMISSIONS** (pounds/hour) **(P_S)**
EXAMPLE	*1,000*	*10,000*	*95*	*1.9*

*parts per million in air is *by volume* and **does not equal** milligrams per liter
**Identify which pollutant the emissions are being calculated for.

BASIC EQUATION TO CALCULATE EMISSIONS:

$$P_S = V \frac{ft^3}{min} * C \frac{mg}{m^3} * \frac{(100 - E_S)}{100} * \frac{m^3}{35.31\ ft^3} * \frac{g}{1000\ mg} * \frac{lb}{453.6\ g} * \frac{60\ min}{hour}$$

Signature:	Date:
	Telephone No.