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## **Engineering And Design Soil Vapor**

The design of soil  
vapor extraction (SVE)  
systems is largely  
empirical due to the  
great number of

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parameters and  
mechanisms involved.  
Accordingly, the  
commissioning of each  
SVE system should be  
preceded by an  
involved screening  
process, which  
transitions into a pilot-  
scale test at the site of  
interest.

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2004). Once in soil gas, deep in the soil and absent any natural or anthropogenic preferential flow conditions, diffusion dominates the soil vapor transport process; but near the building, advective flow is the dominant mechanism. The building's zone of influence arises from two

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remediating  
contaminated soil and  
describes design and  
operational  
considerations for  
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## **Soil Vapor Extraction - CLU-IN**

SVE Design Vapor  
transport in the  
subsurface  $q_a =$   
airflow per unit area  
[L/T] (specific  
discharge)  $k_a =$   
apparent permeability  
of soil [L<sup>2</sup>]  $\mu_a =$  air

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viscosity [M/L/T] =  $1.8 \times 10^{-4}$  g/cm-s = 0.018 cP  
 $\nabla P$  = pressure gradient [(M/L/T<sup>2</sup>)/L] = [M/L<sup>2</sup>/T<sup>2</sup>]  
 $\rho$  = density of air [M/L<sup>3</sup>]  $\approx 0.0012$  g/cm<sup>3</sup>  
 $g$  = gravitational acceleration [L/T<sup>2</sup>]  
 $\mu$  =

## **LECTURE 11 SVE & AIR SPARGING DESIGN, PERMEABLE REACTIVE ...**

Soil Vapor Extraction (SVE) is a proven, economical

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remediation  
technology for volatile  
compounds with vapor  
pressures greater than  
0.5 mm Hg from soils  
with intrinsic  
permeabilities greater  
than  $10^{-8}$  cm<sup>2</sup>. Pilot  
studies are usually  
conducted to  
determine the ideal  
flow rate and zone of  
influence.

**Soil Vapor  
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Soil vapor extraction (SVE) is a physical treatment process for in situ remediation of volatile contaminants in vadose zone (unsaturated) soils (EPA, 2012). SVE (also referred to as in situ soil venting or vacuum extraction) is based on mass transfer of contaminant from the solid (sorbed) and liquid (aqueous or non-aqueous) phases into the gas phase, with

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subsequent collection  
of the gas phase ...

**Soil vapor extraction  
- Wikipedia**

This 2002 manual  
provides practical  
guidance for the design  
and operation of soil  
vapor extraction (SVE)  
and bioventing (BV)  
systems. It is intended  
for use by engineers,  
geologists,  
hydrogeologists, soil  
scientists, chemists,  
project managers, and

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others who possess a  
technical education  
and some  
design experience but  
only the broadest  
familiarity with SVE or  
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manual provides  
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current practices for  
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site characterization,  
system design, and  
system startup and  
operations.

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also known as soil  
vapor extraction, in  
situ volatilization, in  
situ vapor extraction,

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in situ air stripping, ...  
geology and basic  
engineering to design  
an optimal system. A  
basic knowledge of  
chemistry is also  
necessary to develop a  
quality sampling and  
monitoring plan.

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Soil vapor extraction.  
... assuming similar  
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increase in  
contaminant And  
concentration after  
initial decrease due to  
desorption from soil, ...  
hazard to living  
organisms makes its  
clean-up from  
contaminated sites one  
of the hardest tasks in  
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Pinnacle's senior engineering staff has been addressing soil vapor intrusion issues for clients for over 15 years under a variety of regulatory environments, including several U.S. states and European countries. Pinnacle can evaluate soil vapor results and provide a risk management strategy in line with the client's best interests.

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