



Los Alamos
NATIONAL LABORATORY
EST. 1943

Environmental Programs
Corrective Actions Project
PO Box 1663, Mail Stop M992
Los Alamos, New Mexico 87545
(505) 667-0819/FAX (505) 665-4747

TA 54



LIBRARY COPY



National Nuclear Security Administration
Los Alamos Site Office, MS A316
Environmental Restoration Program
Los Alamos, New Mexico 87544
(505) 667-7203/FAX (505) 665-4504

Date: July 20, 2006
Refer to: EP2006-0688

Mr. James Bearzi
NMED – Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303



SUBJECT: STATUS OF SOIL VAPOR EXTRACTION PILOT TEST AT MATERIAL DISPOSAL AREA L AT TECHNICAL AREA 54

Dear Mr. Bearzi:

Los Alamos National Laboratory's Corrective Actions Projects has completed the soil vapor extraction (SVE) pilot test at the first of two extraction boreholes at Material Disposal Area L at Technical Area 54. The SVE system ran for 25 days and an estimated 400 pounds of volatile organic compounds were removed. Curves showing the extraction rate are attached.

The SVE system has been moved to the second extraction borehole. We plan to restart the system on Monday, July 17, 2006 and operate for approximately three weeks. Your staff is welcome to observe the test at any time.

If you have any questions about the pilot test, please call John Hopkins at 505-667-9551 (johnhopkins@lanl.gov) or Frank Bosiljevac at 505-845-5746 (fbosiljevac@doeal.gov).

Sincerely,

Andrew Phelps, Associate Director
Environmental Programs
Los Alamos National Security

Sincerely,

David Gregory, Federal Project Director
Department of Energy
Los Alamos Site Office

AP/DG/JH/acm

Enclosure: MDA L SVE-West: Summary as of July 13, 2006



11945

Cy:(w/enc)

P. Reneau, EP-RCRA, MS M992
L. King, EPA Region 6
E. Louderbough, LC-ESH, MS A187
Corrective Actions File, MS M992
RPF, MS M707

Cy:(w/o enc)

A. Dorries, ERSS, MS M992
G. Dover, CAP, MS M992
D. McInroy, CAP, MS M992
C. Mangeng, ADEP, MS J591
A. Phelps, ADEP, MS J591
D. Gregory, DOE-LASO, MS A316
M. Johanson, DOE-LASO, MS 316
T. Skitbiski, NMED-OB
IRM-RMMSO, MS A150

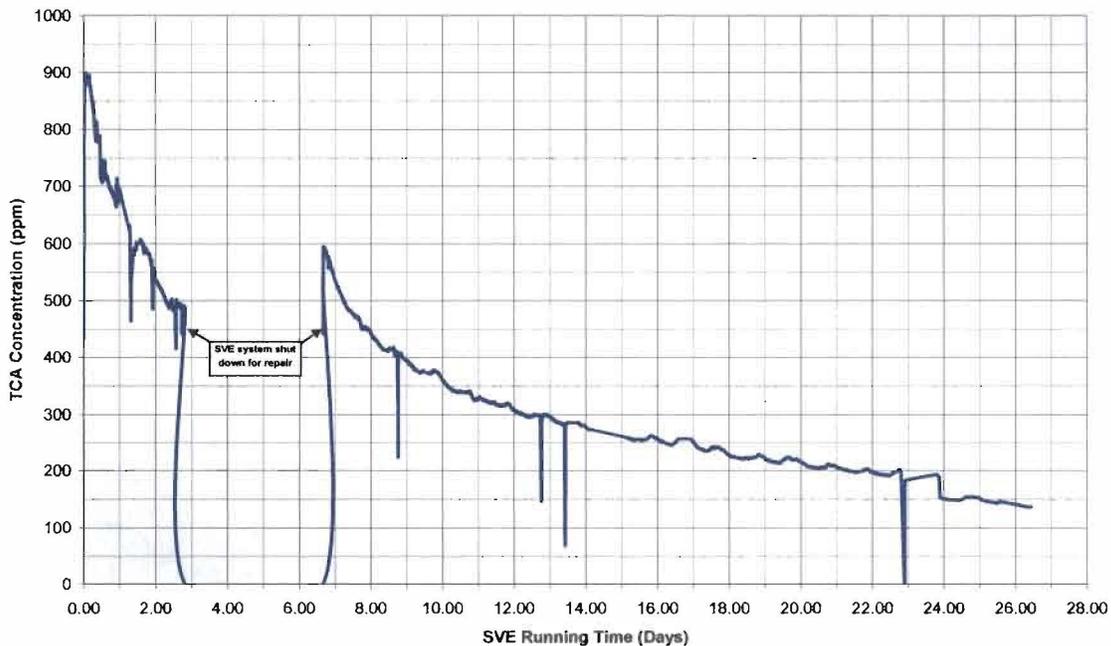
Attachment 1 MDA L SVE-West: Summary as of July 13, 2006

The MDA L Soil Vapor Extraction Pilot Test began at the SVE-West test location on Wednesday, June 14, 2006. The SVE-West test was terminated on Thursday, July 13, 2006. To date, the vacuum blower has operated a total of 25 days - the vacuum blower was shut down from June 17th to Jun 21st to repair a broken pulley wheel on the vacuum blower unit. The blower system was operated from June 14th through July 7th at a vacuum of 3.9 in-Hg, resulting in an airflow of approximately 95 SCFM. On July 7th, the vacuum was raised to approximately 4.5 in-Hg, resulting in an air flow rate of greater than 105 SCFM.

The first chart below shows the TCA (the primary plume contaminant) concentration decline curve. The second chart shows cumulative pounds of VOCs removed. The total VOC estimate is calculated assuming that the sum of the B&K field screening readings for TCA+TCE+Freon+PCE accounts for 85% of the plume by mass. Based on data collected to date, preliminary estimates show that after 25 days of vacuum blower operation, more than 400 lbs of VOCs have been extracted.

Following the completion of the SVE-West test, the SVE system will be moved to the SVE-East location. The SVE-East test is scheduled to begin Monday, July 17, 2006.

**Extraction Well TCA Concentration Decline Curve
July 11, 2006**



Estimated Total VOCs Removed @ 95 SCFM

