

Overview of the Adequacy of the LEHR Superfund Site Investigation and Remediation: The Public's Perspective, 1999-2000

G. Fred Lee, PhD, MSPH, DEE
Technical Advisor, DSCSOC

G. Fred Lee & Associates
El Macero, CA

Presented at DSCSOC Town Meeting

April 11, 2000

- **Review Major Accomplishments**
- **Discuss Areas of Concern**

Major Accomplishments

Significant Removal of Radioactive Wastes

DOE Removed Soils Contaminated with Radium 226 and Strontium 90 from Waste Disposal Area

UCD Removal of Waste Pit Wastes

Further Definition of Waste Disposal Area Pollution

(Key to Waste Removal)

Waste Disposal Area – Pits/Trenches

Radioactivity along Old Davis Road

Dog Pen Areas

Information Gained on UCD's Efforts to Begin to Remediate Contaminated Groundwaters as Part of IRA

Installation of Additional Groundwater Monitoring Wells

Further define extent of Groundwater Pollution

Areas of Continuing Concern

Full Extent Groundwater Pollution in HSU-2 and HSU-4 Caused by LEHR Site Not Been Defined

Will Need Several More Groundwater Monitoring Wells in HSU-2 and HSU-4 to Define Full Extent of Groundwater Pollution
UCD Still Delaying Properly Addressing This Issue

UCD IRA Has Encountered Problems

- Low Rates of Chloroform Removal
- High TDS and Nitrate in IRA-Pumped Groundwater
- UCD Will Have to Stop Trying to Get by without Properly Treating Pumped Groundwater before Reinjection

No Evaluation of Translocation of Buried Waste to the Environment

Could be Important Source of Wastes to Surface Waters and Environment

Areas of Continuing Concern

UCD and DOE Still Do Not Have Reliable Monitoring Program for Stormwater Runoff from the LEHR Site

Potential Impacts of Mercury and Chlordane in Runoff Still Need to Be Evaluated with Respect to Impact on Putah Creek Water Quality

DOE Still Allowing Contractor to Claim That Unsaturated Zone Groundwater Modeling Is Reliable – Obviously in Error

Even UCD Consultants Conclude That DOE Consultants' Vadose Zone Modeling Conclusion Is in Error

Will Require Groundwater Monitoring to Evaluate Whether Existing Constituents in Soil, Such as at Dog Pens, Are Causing Groundwater Pollution

Areas of Continuing Concern

UCD and DOE Have Not Properly Considered Full Range of Constituents of Concern That Could Be Hazardous to Public Health and the Environment

Considering Only a Limited Number of the Many Thousands of Chemicals and Transformation Products in LEHR Site Wastes That Are a Potential Threat to Public Health and the Environment

UCD's Approach to Remediation/Control of Campus Waste Landfill at LEHR Site Still Not Defined

- Concern that UCD Will Continue to Attempt to Practice Short-Term Stopgap Approaches to Campus Waste Management
- Anything Other Than Full Protection with Proper Monitoring Will Be Vigorously Opposed by DSCSOC

Overall Assessment

Significant Progress Being Made to Define and Remove Contaminated Soils and Residual Wastes from LEHR Site

Extent and Cleanup of Groundwater Pollution Still Not Adequately Addressed

The RPMs (US EPA, DTSC, DHS, & CVRWQCB) Are Doing a Good Job of Protecting the Public Interests at the LEHR Site

For Additional Information:

<http://members.aol.com/dscsoc/dscsoc.htm>

www.gfredlee.com