

**Briefing to Community Dec. 2004**



---

**LBL Corrective Action Process  
for Cleanup  
Draft Corrective Measures Study Report**

**Iraj Javandel  
Environmental Restoration Program**

# **LBNL Corrective Action Process for Cleanup of Site Legacy Contamination**



**DTSC is the Lead Agency for oversight of the RCRA Corrective Action Process**

**First Steps, already completed:**

- **1991-1992 - facility assessment (RFA) of legacy contamination at site**
- **1992-2000 - facility investigations (RFI) conducted of identified contaminated areas at site**
- **2001-2004 – corrective measures study (CMS) completed to assess risks to human health and the environment and potential corrective measures evaluated and recommended**

# LBNL Corrective Action Process for Cleanup of Site Legacy Contamination - 2



- **TODAY - Draft Corrective Measures Study (CMS) Report is available for review:**
  - **[www.lbl.gov/ehs/erp/html/documents.shtml](http://www.lbl.gov/ehs/erp/html/documents.shtml)**
  - **Berkeley Public Library**
  - **DTSC Berkeley office, with full administrative record**

# LBNL Corrective Action Process for Cleanup of Site Legacy Contamination - 3



## Next Steps:

- **Final Corrective Measure Study**
- **DTSC selection of final remedies**
- **Remedy Implementation**
- **Completion of CMI Report and approval by DTSC**
- **Ongoing operation maintenance and monitoring activities will continue at LBNL**

# Clean-Up Standards – Soil



## Soil:

- **Based on risk: protective of human health**
- **Contamination within a cancer risk range of  $10^{-4}$  to  $10^{-6}$**
- **LBNL goal is for a cancer risk of  $10^{-6}$**

# Clean-Up Standards - Groundwater



## Groundwater:

- **If meets State criteria for potential source of drinking water: cleanup to maximum contaminant level (MCL)**
  - 200 gal/day sustainable yield
  - Total Dissolved Solids (TDS) less than 3,000 mg/liter
- **If does not meet State criteria for potential source of drinking water: based on risk, protective of human health**
  - in the cancer risk range of  $10^{-4}$  to  $10^{-6}$

# Status of the Tritium Plume at LBNL



- Tritium plume is under DOE oversight, and LBNL has prepared reports to DOE on this issue
- The tritium plume is not part of the RCRA process over which DTSC has lead responsibility.
- Ongoing monitoring will continue
- Management Plan will be prepared to address contaminated soil

# Anticipated Outcomes & Results of the Corrective Action Process at LBNL



## September 30, 2006:

- Contaminated soil areas cleaned up
- Groundwater pumping and treatment systems constructed and in operation
- Monitoring systems constructed, installed and in operation

## Post September 2006:

- LBNL will be required to operate & maintain treatment and monitoring systems as part of the Hazardous Waste Permit

# Schedule for the Corrective Action Process at LBNL



Schedule and Milestones																			
Milestones \ Year	1990					1995					2000						2005	2006	2007
DTSC -RFA Completed	10/1/90	11/1/91																	
LBNL - Supplemental RFA Submitted		12/1/91	9/1/92																
LBNL Submitted RFI Workplan			11/1/92		10/1/94	10/1/95													
Public Comment on RFI Report											11/1/00	2/15/01							
DTSC - CMS Workplan Approved													6/1/02						
LBNL - CMS Report Submitted															7/19/04				
Public Comment on CMS Report																	Winter 05		
Public Meeting on CMS Report																	Spring 05		
DTSC Approves CMS Report																	Spring 05		
LBNL - CMI Report Submitted																		Summer 06	
DTSC Approves CMI Report																		Fall 06	