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CH2M HILL Hanford Group, Inc.  
Vadose Zone Project

9/13/2006

**MEETING MINUTES**

**Annual Meeting Between the U.S Department of Energy, Office of River Protection (ORP) and State of Washington, Department of Ecology (Ecology) to Discuss Interim Measures for Fiscal Year 2007**

Meeting Date: September 5, 2006

Location: 2440 Stevens Center, Room 1770

Purpose: Fulfill Hanford Federal Facility and Consent Order commitment M-45-56 "to meet yearly ... for the establishment of Additional Agreement Interim Measures."

Attendees: John Kristofzski (CH2M HILL) Rob Yasek (ORP)  
Frank Anderson (CH2M HILL) Jeff Lyon (Ecology)  
Tony Knepp (YAHSGS) Joseph Caggiano (Ecology)  
Bob Lober (ORP) Les Fort (Ecology)

Discussion: The discussion focused on two contaminated areas that could be remediated by the installation of interim surface barriers: 241-T-106 tank leak site and the ER-311 tank leak site. The status of contamination at each site and the details to how an interim barrier would be installed at each site were discussed. The agenda and meeting materials are enclosed to this meeting summary.

Agreement (1) The installation of an interim barrier at the 241-T-106 tank leak site as described in the enclosure should proceed immediately. Ecology will continue to participate in the planning and execution of this work by attendance at project meetings.

Agreement (2) The installation of an interim barrier at the ER-311 site will be deferred until additional information is developed to better define the approach. Ecology reserves the right to request the placement of an interim measure and the other remedial activities at a later date.

Enclosure (1): Agenda and Presentation Material

Agreed to by:

*Robert W. Lober*  
Robert W. Lober  
U.S. Department of Energy  
Office of River Protection

*Joseph Caggiano*  
Joseph Caggiano  
State of Washington  
Department of Ecology

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CORRESPONDENCE CONTROL

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EDMC



**INTERIM BARRIER DEMONSTRATION**  
For Locations  
**ER-311 and T Farm**  
Department of Ecology Briefing

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**CH2M HILL Hanford Group Inc.**

**Frank Anderson**

September 2006



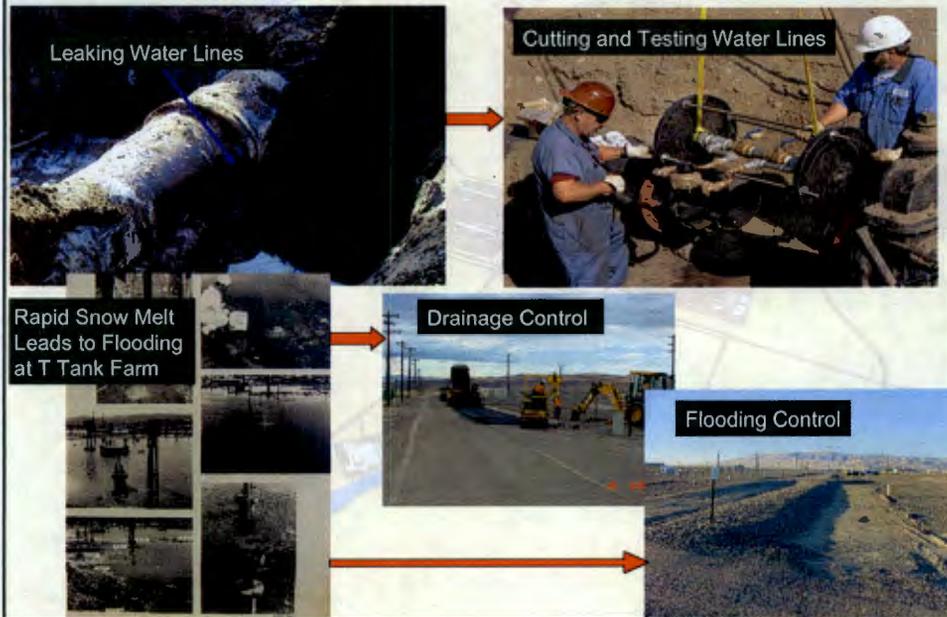
# AGENDA

- Introduction
  - Purpose of Meeting
    - Fulfill a commitment to meet annually to discuss the need for interim measures (M-45-56)
    - Discussion of Planned Interim Measures for T Farm and ER-311
    - Obtain Ecology Approval
      - Confirm Ecology's level of involvement
- Interim Measures
  - Concern over past leaks impacting groundwater
  - Interim Measures
- Approach
  - T-106
  - ER-311
- Tentative Schedule

# TPA M-45-56

ECOLOGY AND DOE AGREE, AT A MINIMUM, TO MEET YEARLY (BY JULY OR AS NEEDED TO SUPPORT ANNUAL BUDGETING) FOR THE SPECIFIC PURPOSE OF ASSESSING THE ADEQUACY OF INFORMATION, AND THE NEED FOR THE ESTABLISHMENT OF ADDITIONAL AGREEMENT INTERIM MEASURES. ADDITIONAL AGREEMENT INTERIM MEASURES SHALL BE DOCUMENTED THROUGH ESTABLISHMENT OF INTERIM MILESTONES AND ASSOCIATED TARGET DATES AS AGREED NECESSARY BY THE PARTIES.

## Interim Measures Implemented at the Single Shell Tank Farms to Reduce Groundwater Impacts



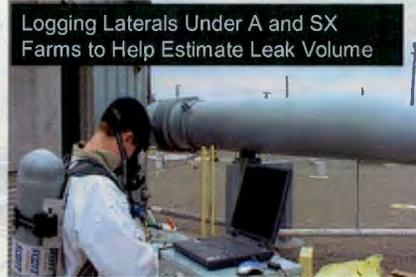
## Current Activities

Field Investigations Continue Using New Technologies  
Surface Geophysical Exploration (SGE), Lateral Logging, Direct Push

Surface Geophysics to  
explore extent of past leaks



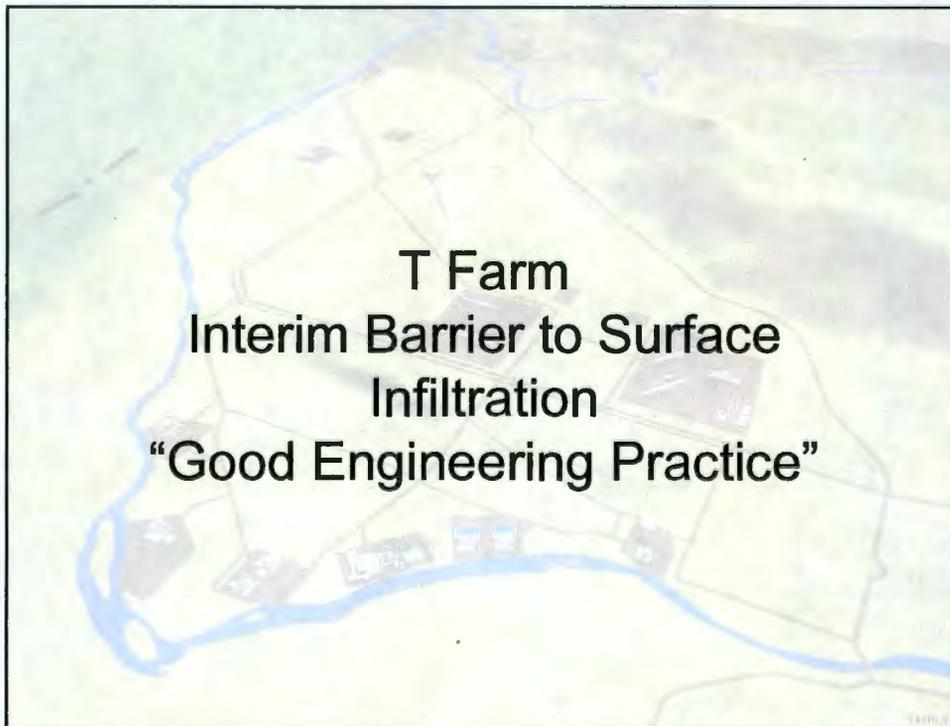
Logging Laterals Under A and SX  
Farms to Help Estimate Leak Volume



Investigation around a shallow past spill in C Tank Farm

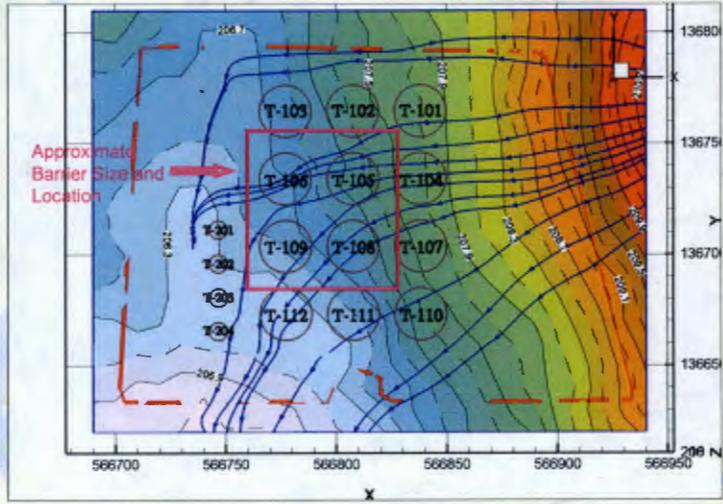


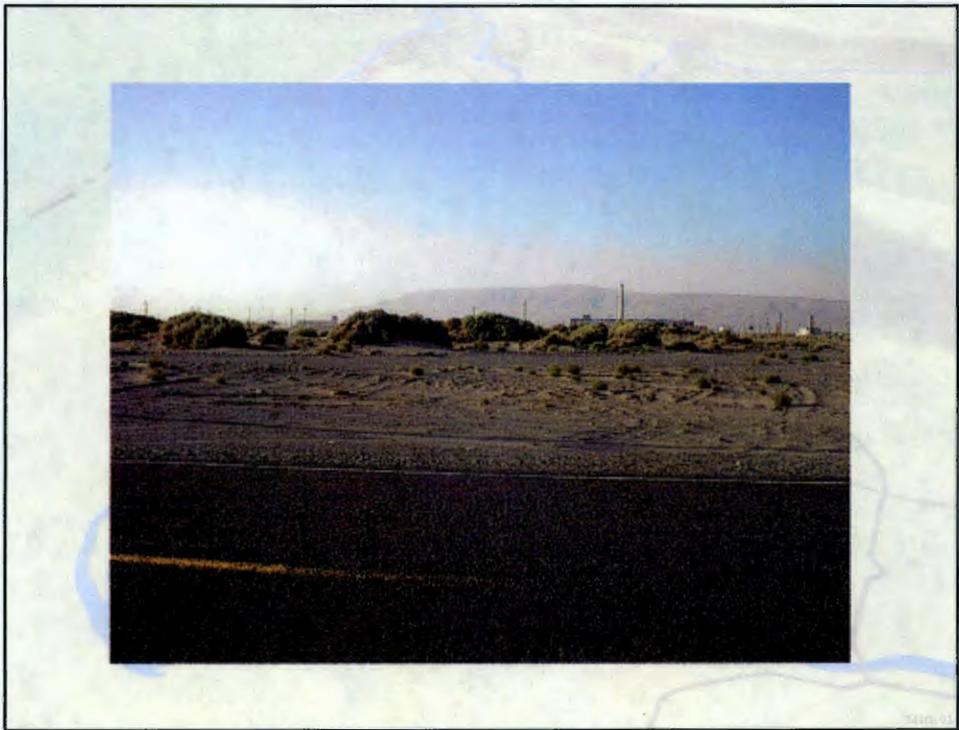
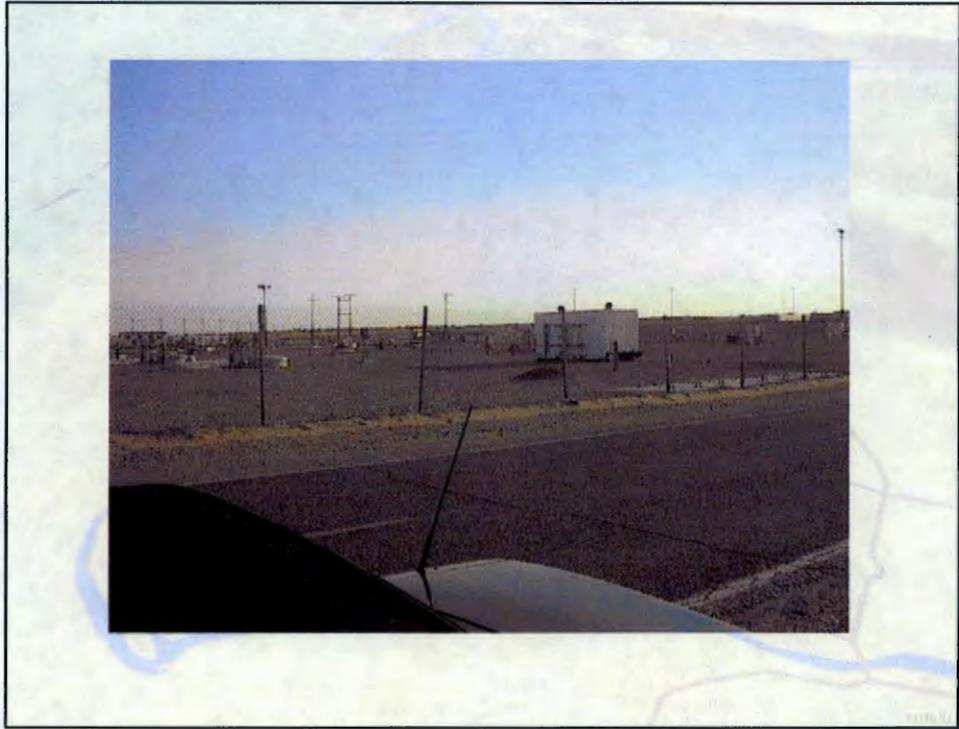
T Farm  
Interim Barrier to Surface  
Infiltration  
“Good Engineering Practice”





### Existing T Farm Drainage





ER - 311

