

CHEVRON SUNOL PIPELINE R02892
MEETING SIGN-IN SHEET
MAY 26, 2006

Date and Time: May 26, 2006 1:30 pm

Attendees:

Name	Company/Agency
DONNA DROGOS	ACEH, donna.drogos@acgov.org
ARIU LEVI	" ARIU.LEVI@ALGOV.ORG
Joe Morgan	URS, Joe_Morgan@URS.COM
Greg White	URS, greg-white@urscorp.com
Angela Liang	URS, angela.liang@urscorp.com
Jenny Wrotham	ACEH jenny.wrotham@acgov.org

AGENDA
Meeting with Alameda County Environmental Health Staff
Chevron Sunol Pipeline
May 26, 2006

- **Introduction**
 - Introductions
 - Opening statement and purpose of meeting – Jeff Cosgray
 - Discuss progress to date
 - Discuss recent response letter
 - Discuss remediation objectives and goals

- **Presentation of Work Completed to Date**
 - Project Timeline
 - Previous Reports
 - Proactive approach details

- **Discussion of Latest/Upcoming Work**
 - 2nd Quarter Groundwater Sampling – Week of June 5
 - Evaluation of additional MNA and bioremediation parameters
 - Confirm non low-flow sampling at MW-6 and MW-7 due to slow recovery
 - Surface water sample added from unnamed creek
 - Continue free-product monitoring
 - Latest round of groundwater levels (May 18-19) – no free product
 - Plans to resume SVE system operation
 - Possibly install plastic sheeting to enhance performance

- **URS responses to May 9, 2006 ACEH comments:**

URS has backup information supporting our letter posted to the County's website on May 5, 2006 which we would be happy to provide. We maintain that our conclusions are valid.

 - Discuss search for available drilling contractors who can conduct horizontal and limited access vertical drilling. Discuss conversation with ClearHeart Drilling regarding site conditions and options for the SVE wells on slope.
 - SVE trench issues – Access, trench depth limitations, slope stability, tree roots, and impacts to re-seeding efforts.
 - Percent slope verification – 84% - field measurement with inclinometer below release point (August 25, 2005)
 - Restate safety and access issues
 - Present additional pictures of site

- **Where to go from here**
 - Additional proposed SVE activities and discussion of downslope SVE expansion as requested in ACEH March 14, 2006 letter to Chevron
 - Thoughts on closure requirements / end state vision.

TIMELINE
Summary of Activities to Date
Chevron Sunol Pipeline
May 26, 2006

- **August 14, 2005:** Pipeline release occurs due to third party road-grading activities
- **Week of August 14, 2005:** Chevron Pipe Line emergency remediation activities (pipeline rupture was repaired, 152 tons of soil and debris were excavated, and Calaveras Road was repaved).
- **August 16, 2005:** Chevron retains URS to assist in environmental remediation efforts and biological resource impact assessment.
- **August 16-17, 2005:** URS conducts initial site visits.
- **August 18, 2005:** URS submits proposal for first phase of the subsurface investigation.
- **August 24, 2005:** URS' Workplan outlining initial investigation activities is approved by ACEH.
- **August 25, 2005:** URS conducts a biological resource impact assessment onsite.
- **August 25-29, 2005:** URS conducts first phase of subsurface initial investigation. This work included advancing 10 direct-push borings below the release along Calaveras Road, characterizing soils, and collecting samples for analysis. A total of 83 soil samples were analyzed from the 10 boring locations.
- **September 15, 2005:** URS submits proposal for second and third phases of subsurface investigation.
- **October 10, 2005:** URS submits Biological Resource Impact Assessment memo to Chevron.
- **October 10, 2005:** URS conducts the third phase of the initial investigation. This work included advancing 2 HSA borings in the Valley Crest Tree Company Property in search of groundwater. Groundwater was not encountered in sufficient quantities to sample. A total of 12 soil samples were analyzed from the 2 boring locations.
- **October 11-25, 2005:** URS conducts second phase of initial investigation. This work included advancing 9 direct-push soil boring and 9 hand augered borings on SFPUC property on the hillside in the vicinity of the release location. Site soils were characterized at each location and a total of 93 soil samples and four groundwater samples were collected during this phase of the investigation.
- **October 18, 2005:** URS submits proposal for fourth phase of the subsurface investigation.
- **October 18-21, 2005:** URS conducts forth phase of initial investigation. This work included advancing 4 borings with an ARCH rig and installing three groundwater monitoring wells. In total three grab groundwater samples and three soil samples were collected during this phase of the investigation.
- **October 27, 2005:** URS and Chevron conduct site visit to discuss investigation efforts and interim remediation plans. Develop monitoring wells MW-1 and MW-2.
- **October 31, 2005:** Survey all field points associated with initial subsurface investigation.
- **November 5 & 8, 2005:** Install 4 SVE wells along dirt road on hillside.
- **November 7, 2005:** Set up SVE system on-site.
- **November 8-12, 2005:** SVE pilot test.
- **November 8, 2005 – February 13, 2006:** Operate SVE system, collect weekly air samples, and continue to monitor MWs for groundwater levels and possible measurable free-product.
- **December 2, 2005:** URS submits Erosion & Revegetation Plan to Chevron.

- **December 7, 2005:** URS completes initial erosion control and revegetation efforts at the site. The work included installing straw wattles and hydroseeding the hillside.
- **December 15, 2005:** URS submits Subsurface Investigation Report to ACEH on Chevron's behalf.
- **December 30, 2005:** ACEH submits comment letter to Chevron regarding SIR. Letter requests the following:
 - Additional soil and groundwater characterization.
 - Additional free-product evaluation.
 - Improved soil sampling techniques.
 - Development of a Work Plan incorporating requests above by February 23, 2006.
 - Reporting of SVE results by March 2, 2006.
 - Initiation of a quarterly groundwater sampling program with results by April 15, 2006.
- **January 10, 2006:** Develop groundwater well MW-3.
- **January 19, 2006:** URS submits Work Plan for additional investigation to ACEH.
- **January 20, 2006:** ACEH approves Work Plan. Requests the following:
 - Additional cross-sections in additional subsurface investigation report.
 - Requests Additional Subsurface Investigation Report by May 22, 2006.
- **January 17-31, 2006:** URS conducts the fifth phase of additional investigation activities outlined in the Work Plan. Activities included advancing 4 boring using a sonic drill rig and installing a groundwater monitoring well at each location. Three wells were installed along the east side of Calaveras Road and one well was installed in the tree nursery to the west of the road. A total of 2 grab groundwater samples and 11 soil samples were collected as part of the additional investigation activities.
- **February 13, 2006:** Remove SVE system from the site.
- **February 14-15, 2006:** Develop groundwater wells MW-4 through MW-7. Survey 4 SVE wells and 4 additional groundwater monitoring wells.
- **February 21-22, 2006:** Conduct first groundwater quarterly sampling event on the seven groundwater monitoring wells.
- **March 1, 2006:** URS submits Interim Remediation Report to ACEH on Chevron's behalf. The report details the success of the SVE system from November 8, 2005 to February 13, 2006 and suggests additional SVE operation.
- **March 14, 2006:** ACEH submits comment letter to Chevron regarding IRR and requests the following:
 - Expansion of SVE system downslope in the vicinity of SB-19.
 - Work Plan for SVE expansion by May 10, 2006.
- **April 3-4, 2006:** Waste disposal activities onsite.
- **April 13, 2006:** URS submits First Quarter Groundwater Sampling Report to ACEH on behalf of Chevron.
- **May 4, 2006:** URS submits memorandum discussing SVE system expansion downslope of the release location and proposes increasing the system operation time rather than attempting to install new wells in unsafe locations.
- **May 9, 2006:** ACEH submits comments to Chevron in response to SVE expansion memo and requests the following:
 - Submittal of an Independent Engineering Evaluation including a further discussion of horizontal drilling options, limited access drilling options, SVE trench installation options, and verification of the slope of the hillside.
- **May 19, 2006:** Site visit to check water levels. Measurable free-product is not present at any of the wells.

- **May 22, 2006:** URS submits additional subsurface investigation report to ACEH on behalf of Chevron.
- **May 26, 2006:** Meet with ACEH to discuss project progress and May 9, 2006 ACEH letter.

**Summary of Activities
In 8 months since release**

- 5 phases of subsurface investigation
 - 40 soil borings advanced using four drilling methods
 - 7 groundwater monitoring wells installed
 - 4 SVE wells installed
 - 202 soil samples collected and analyzed
 - 18 groundwater samples collected and analyzed
- 1 phase of erosion control and revegetation
 - 1,500 linear feet of straw wattles installed
 - 3,000 pounds/acre of hydroseed mulch
- 3 months of SVE system operation
 - 1,041 gallons of gasoline removed
 - 59 air samples collected and analyzed
- 4 reports submitted to ACEH
 - 2 subsurface investigation reports
 - 1 interim remediation report
 - 1 quarterly groundwater monitoring report
- 175 tons of emergency response and investigation derived waste disposed
 - 152 tons of soil and debris disposed of as part of emergency remedial actions
 - 10 tons of soil disposed of as part of subsurface investigation activities
 - 13 tons of liquid disposed of as part of subsurface investigation, development, and sampling activities