

Final

August 17, 2011

**Review of Leaking Underground
Storage Tank Cases
Not in Cleanup Fund and Open
Over 15 Years**

El Dorado County Local Oversight Program

**Prepared as in-kind task as part of Cooperative Agreement
LS-97952501-2 between U.S. EPA Region 9 and the California State
Water Resources Control Board**

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Executive Summary

The Draft version of this report was submitted on July 30, 2010, with a request for a follow-up meeting and input from El Dorado County Local Oversight Program (LOP) into the “Next Steps for Agency” column of the case cleanup status spreadsheet.

El Dorado County LOP met with Sullivan International Group, Inc. staff in a conference call on April 5, 2011 to discuss the draft report and their next steps for each case. The agency largely agreed with the assessment contained in the report and concurred that both cases reviewed are on track.

In an email dated April 6, 2011 agency staff returned a copy of the Case Summary table and indicated in the “Next Steps for Agency” that both cases are to continue their current remediation until low risk closure criteria are met.

El Dorado County LOP

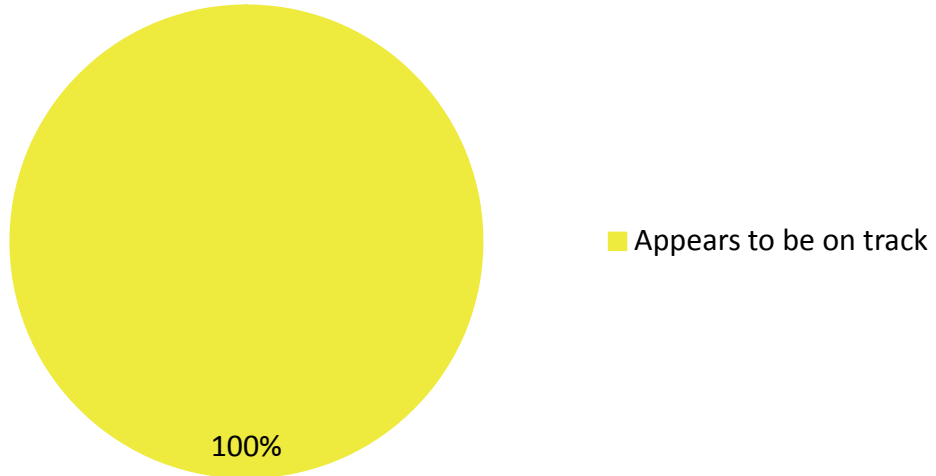
Apparent Case Status: Initial and After

TOTAL NUMBER OF CASES REVIEWED = 2
 NUMBER OF ACTIVE LUST CASES ON NOVEMBER 1, 2010 = 25 CASES
 DRAFT REVIEW REPORT PREPARED AND SENT TO AGENCY ON JULY 30, 2010
 MEETING WITH AGENCY ON APRIL 5, 2011

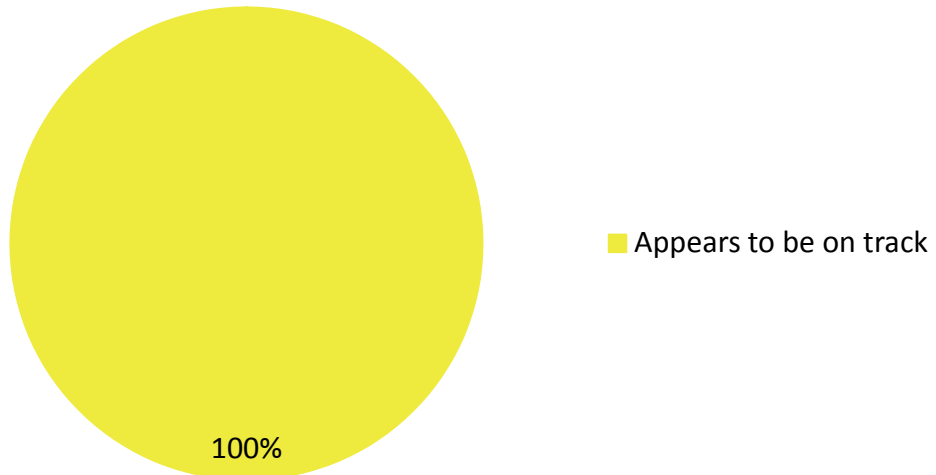
APPARENT STATUS OF CASES REVIEWED – INITIAL REVIEW AND AFTER MEETING TO DISCUSS CASES

Apparent Case Status	Initial Assessment Number of Cases (10-4-2010)	Post Meeting Assessment Number of Cases (06-21-2011)
CASE CLOSED	0	0
Appears close to completion	0	0
Appears near completion within 1-year	0	0
Appears to be on track	2	2
Appears NOT to be on track	0	0
Appears to be stuck	0	0
Unable to determine (Insufficient information in GeoTracker)	0	0
NOT FEDERAL UST CASE	0	0
OTHERS - Not Non-CUF, Older than 15-years Case	0	0

**Initial Assessment Percentage of Cases
(7-30-2010)**



Post Meeting Assessment Percentage of Cases (04-05-2011)



CASE REVIEW SUMMARY TABLE
EL DORADO COUNTY LOP

ESTIMATED STATUS IN THE CLEANUP PIPELINE?	CHANGE IN STATUS IN THE CLEANUP PIPELINE (BASED ON MEETING/CALL WITH AGENCY) ON 04/05/2011	SITE NAME (CASE LEAD AGENCY: EL DORADO COUNTY LOP)	CITY	GLOBAL ID	CASE WORKER	APPARENT TYPE OF RP	RELEASE DATE	DISCUSSION NOTES FROM MEETING/CALL (04-05-2011)	NEXT STEPS FOR AGENCY
Appears to be on track	Appears to be on track	Union Oil Bulk Plant #300588	Placerville	T0601700002	RL	Z - Major Oil Company	4/30/1987	Case remains on track, Additional assessment planned	Continue current remediation until low-risk criteria is met
Appears to be on track	Appears to be on track	Former Exxon 7-0280	Cameron Park	T0601700053	RL	Z - Major Oil Company	3/10/1993	Case remains on track, Remediation system has been shut down, verification monitoring continues	Continue current remediation until low-risk criteria is met

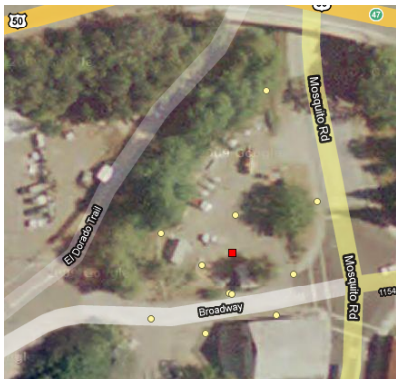
Attachment 1:

Case Review Power Point Slides from Draft Report

The contents of this attachment are provided in electronic format only.

UNION OIL BULK PLANT #300588 (T0601700002)

1145 BROADWAY, PLACERVILLE, CA 95667



Case Age: 23 years
Primary COC: Gasoline
RP Identified by Regulator: Unocal
Current Land Use: Sporting Goods Store
(site being redeveloped as of March 2010)

OPEN - ASSESSMENT & INTERIM REMEDIAL ACTION

CLEANUP OVERSIGHT AGENCIES

EL DORADO COUNTY LOP (LEAD) - CASE #: 00002

CASEWORKER: [ROBERT LAURITZEN](#) - SUPERVISOR: Dave Johnston

CENTRAL VALLEY RWQCB (REGION 5S) - CASE #: 090002

CASEWORKER: [PETER MNKEL](#) - SUPERVISOR: Joe Mello

Possible Reasons Why This Case Is So Old

- Case dates back to 1978 with a release from UST Vapor Lines. Product recovery system in operation in 1978 of to recover 1000 gallons of product lost from the UST.
- Petroleum Hydrocarbons have potential to impact the adjacent creek, and Hangtown Creek.
- Separate phase hydrocarbons historically reported in the subsurface, but has not been reported since 2006
- Consultant recommends additional site remediation including hydrogen peroxide injections



NOTE: Data queried from GeoTracker and reviewed in July 2010

Activities Conducted to Date Based on GeoTracker Info (T0601700002)

Assessment last 5 years

- Offsite assessment conducted 4th Quarter 2009, 3 monitoring wells installed.
- Soil Vapor assessment conducted in 2007
- Periodic groundwater monitoring has been on going since 1988
- Adjacent surface waters periodically sampled

Remediation last 5 years

- DPE remedial event conducted at the site in 2006
- A Hydrogen Peroxide Pilot test was conducted in 2008
- Additional hydrogen peroxide injections were conducted in 2009

Assessment older than 5 years

- Monitoring wells installed on site in 1978
- Soil Vapor survey conducted in 1987
- Soil borings were advanced and Monitoring wells were installed in 1987
- Adjacent surface water was first sampled in 1987, monitoring is ongoing
- Additional monitoring wells were installed in 1988
- Five additional monitoring wells were installed between 1990 and 1996
- Soil Samples were taken during UST removal activities in 1996
- Additional soil borings were advanced in 1997
- Additional wells installed in 2000

Remediation older than 5 years

- The UST was repaired at the site in September 1987, during repair activities approximately 1 foot of free product was observed in the tank pit.
- A GWE system was installed at the site in 1990 and operated until 1996
- The UST was removed from the site, and the tank pit overexcavated in 1996.
- Air Sparge/Bioventing system installed in 2000. The system was in operation from 2001 to 2004
- Over excavation was conducted as part of the AS/BV system installation.

IMPEDIMENTS TO CLOSURE (T0601700002)

as reported by regulatory agency

SITE ASSESSMENT INCOMPLETE

- Extent of Contamination Has Not Been Determined - *additional wells proposed for further plume definition, former bulk storage facility.*

UNACCEPTABLE RISK

- Unacceptable Risk from Soil Contaminants Entering Surface Runoff - *additional monitoring and assessment for impact on nearby creek.* Unacceptable Risk from Contaminated Groundwater Day Lighting to Surface Water - *as mentioned above, groundwater less than 10 below grade during wet season*

BENEFITS OF ADDITIONAL WORK

- Verify Remedial Action Effectiveness - *recent land use change - new building and parking lot covering most of site, re-install of destroyed wells*

SENSITIVE RECEPTORS LIKELY TO BE IMPACTED AND TIME FRAME FOR IMPACT

- Groundwater Already Impacted monitor for future MNA and closure.
- Surface Water (Bay, Estuary, Stream, Lake) Undetermined to be determined

Review Conclusions T0601700002

- Site is currently being redeveloped as a retail store
- The site consisted of seven ASTs and a single UST. The UST reportedly contained Fuel Oil and Kerosene.
- The first documented release is dated to 1978 and was UST related.
- A separate release associated with the ASTs is suspected to have occurred at some time prior to 2004
- Up to two feet of separate phase hydrocarbons have historically been present at the site.
- The site has been extensively characterized and remediated, however, the site still presents a risk to human health and the environment due to the shallow nature of the groundwater at the site and the proximity of surface water.
- *Discussion: Site appears to be on a path to closure, however, additional remediation and monitoring may be necessary*

FORMER EXXON 7-0280 (T0601700053)

4051 CAMERON PARK DR., CAMERON PARK, CA 95682



Case Age: 17 years
Primary COC: Gasoline
RP Identified by Regulator: Exxon Co.
Current Land Use: Gas Station

OPEN - REMEDIATION

CLEANUP OVERSIGHT AGENCIES

EL DORADO COUNTY LOP (LEAD) - CASE #: 00053

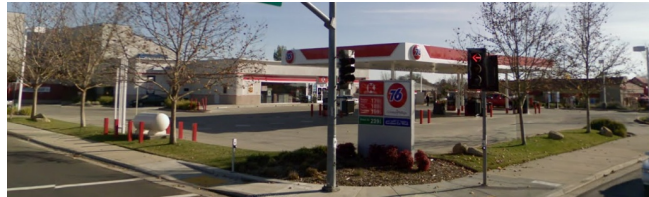
CASEWORKER: [ROBERT LAURITZEN](#) - SUPERVISOR: Dave Johnston

CENTRAL VALLEY RWQCB (REGION 5S) - CASE #: 090071

CASEWORKER: [PETER MINKEL](#) - SUPERVISOR: Joe Mello

Possible Reasons Why This Case Is So Old

- Source mass still remains in the subsurface. The treatment systems will need to operate for an additional 1 to 3 years to reach asymptotic conditions.
- Offsite wells currently being decommissioned as there have been no detections in them since 2008



NOTE: Data queried from GeoTracker and reviewed in July 2010

Activities Conducted to Date Based on GeoTracker Info (T0601700053)

Assessment last 5 years

- Groundwater Monitoring is ongoing
- Workplan for offsite well destruction submitted, but not approved

Remediation last 5 years

- AS/SVE system has been in operation since 2000
- Pump and Treat system has been in operation since 2001

Assessment older than 5 years

- Multiple phases of assessment were conducted between 1991 through 2002, including the advancement of 31 soil borings, and 15 monitoring wells

Remediation older than 5 years

- The USTs were replaced in 1993, over-excavation of contaminated soil was performed at this time.
- AS/SVE system installed in 1999, and began operation in 2000
- A waste oil UST was removed in 2000
- Pump and treat system installed in 2001

IMPEDIMENTS TO CLOSURE (T0601700053)

as reported by regulatory agency

INADEQUATE SOURCE CONTROL

- Remaining Source Poses Threat to Groundwater - *gw treatment system currently operating.*

BENEFITS OF ADDITIONAL WORK

- Remove / Reduce Source Mass - *gw treatment system currently operating.*

SENSITIVE RECEPTORS LIKELY TO BE IMPACTED AND TIME FRAME FOR IMPACT

- TIME FRAME FOR IMPACT COMMENTS Groundwater Already Impacted

Review Conclusions T0601700053

- The site has been actively managed and remediated, and appears to be on a path to closure
- Prior to 7/2/2008 the site was managed by the RWQCB
- It has been estimated by the site consultant that the remediation systems operating at the site will need to operate until 2011 to 2013 in order to reach asymptotic conditions, at which time verification monitoring will need to be conducted. Site is potentially ready for closure 2013-2015
- Offsite monitoring wells are ready for abandonment, plume is stable, and decreasing.
- *Discussion: Site is still undergoing remediation, and appears to be on path to closure in next 3-5 years.*