

FINAL

California Impacted Municipal and Domestic Wells

***Evaluation of Municipal and Domestic Wells Identified as
Impacted and an Impediment to Closure in Resolution
2009-0042 Closure Review***

This report was created by Sullivan International Group, Inc. on behalf
of the California State Water Resources Control Board



Service Disabled Veteran Owned (SDVO) Small Business

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Introduction:

In May 2009, the State Water Resources Control Board (SWRCB) passed Resolution 2009-0042. As part of the resolution, Regional Water Quality Control Board (RWQCB) and Local Oversight Program (LOP) regulators were required to review their Leaking Underground Fuel Tank (LUFT) cases and determine whether each LUFT case was eligible for closure. For the cases determined to be “Not Yet Ready for Closure – Final,” the regulator was required to specify 1) the impediments to closure, 2) the existing sensitive receptors that were likely to be impacted, including domestic and municipal wells, and 3) the time frame for impact of each release. The closure reviews for the cases were recorded in GeoTracker under the Closure Review page for each case. Additionally, two (2) reports summarizing the information entered in the closure reviews for each case, entitled “Closure Review Status Summary Report” and “Closure Review Detail Report,” are available in the Reports section of GeoTracker and were used in generating this report.

During the first quarter of 2012, Sullivan International Group, Inc. (Sullivan) conducted a brief review of cases in GeoTracker that met the following criteria:

- 1) Determined to be “Not Yet Ready for Closure – Final”;
- 2) Indicated as having a municipal or domestic well impact as an impediment to closure; and/or
- 3) Identified a municipal or domestic well as a sensitive receptor that had already been impacted by the release.

More in-depth details of the process are provided within the next section, “Methodology.”

Methodology:

First, several GeoTracker reports were exported. They are listed below:

- 1) Closure Review Detail Report: “Well Impacts – Municipal Wells Impacted” (12 exports for each Regional Board division).
- 2) Closure Review Detail Report: “Sensitive Receptors – Municipal Well – Already Impacted” (12 exports for each Regional Board division).
- 3) Closure Review Detail Report: “Well Impacts – Domestic Wells Impacted” (12 exports for each Regional Board division).
- 4) Closure Review Detail Report: “Sensitive Receptors – Domestic Well – Already Impacted” (12 exports for each Regional Board division).

Second, the 48 separate Closure Review Detail Report exports were compiled into separate municipal-well and domestic-well master spreadsheets, with LUFT cases which appeared on multiple exports being noted and consolidated into one entry. This resulted in a list containing a total of 91 LUFT cases impacting municipal wells and 145 LUFT cases impacting domestic wells.

Third, additional GeoTracker reports were reviewed to obtain more information on the final list of LUFT cases impacting municipal wells. The other GeoTracker reports included: 1) “Total Sites Export”; 2) “Advanced Case Reporting Tool”; 3) “ESI Compliance Reports”; and 4) “LUST Info Summary Report.” Additional data gathered from these reports included ESI compliance information, submittal information, latitude and longitude, media impacted, substance(s) released, etc. This step was not conducted for the domestic wells portion of the project.

Fourth, after additional information was obtained and the master spreadsheet populated, the final list of LUFT cases impacting municipal well(s) was divided into separate tabs by Regional Board boundary. Each LUFT case impacting municipal well(s) was reviewed in GeoTracker to create each separate Regional Board Boundary Report. During this step, there was increased “drilling down” into the data. The information that was being sought during this step included:

- The actual number of impacted wells and the well name(s)
- Site condition(s)
- Analytical results for impacted wells, with a focus on concentrations of benzene, ethylbenzene, toluene, xylenes (BTEX), methyl tert-butyl ether (MTBE), and other volatile organic compounds (VOCs)
- The date of the closure review for each case
- The number of regulatory actions / submittals and responsible party submittals / correspondences since the date of the closure review
- The nature of the impact to the municipal well
- Additional information that could assist in making the determination as to whether the well is currently, historically, potentially, or not yet impacted by the release
- Whether multiple cases affected the same well in the same geographical location
- Distance and direction the impacted well(s) is/are from the site (note: these data were obtained using a combination of information available in GeoTracker and information and tools from Google Earth Pro).

This step was not conducted for the domestic wells portion of the project.

Fifth, draft versions of the Impacted Municipal Well Report and the Impacted Domestic Well Report were sent to the regulators providing oversight to the LUFT cases reported as impacting wells on July 18, 2012, with continual correspondence occurring until December 4, 2012. The purpose of the regulators’ review was two-fold: 1) To verify that the information reported in the Draft Municipal Well Report was accurate; and 2) to provide additional information on the reported impacted domestic wells. Sullivan staff contacted the agencies to obtain accurate and additional information on the LUFT cases, impacted municipal wells, and impacted domestic wells. This Final Report summarizes the information that was obtained from discussions or written responses from the regulators.

Summary of Findings:

Impacted Municipal Wells

There were 91 LUFT cases that were reported as impacting municipal wells within the Closure Review page of GeoTracker during the creation of the Draft Report. Based on information provided by the oversight regulators, it has been determined that there are 45 LUFT cases that are currently impacting municipal drinking-water wells throughout the State of California, which is slightly less than 50% of those that were reported in GeoTracker. Those 45 cases are impacting a total of 27 municipal wells, which is indicative of many LUFT cases impacting the same municipal well(s). Two-thirds of the LUFT cases impacting municipal wells are located within the Los Angeles Regional Water Quality Control Board (Region 4) boundary and the San Diego Regional Water Quality Control Board (Region 9) boundary, with 20 cases being in Region 4 and 10 cases in Region 9. The last one-third (15) of the cases was spread amongst six (6) remaining Regional Boards—the San Francisco Regional Board (Region 2) did not have any impacted municipal wells. Note that three LUFT cases classified as currently impacting a municipal well (two in Region 1 and one in Region 4) have only non-petroleum hydrocarbon constituents, so the total number of wells from a petroleum hydrocarbon perspective is 42. Approximately 85% of the currently impacted wells were reported to be impacted by MTBE.

It was concluded that 38 LUFT cases were potentially impacting 29 municipal wells. Of the 38 LUFT cases, 34 fell within the Colorado River Basin Regional Board (Region 7). As discussed in the Draft Report, language within the Closure Review page in GeoTracker for these cases states the following: “No known production wells are currently or immediately threatened by the release.” The 38 LUFT cases potentially impact 21 wells; however, this number may not be accurate, as Region 7 stated there are no current or immediate threats associated with their 34 cases. No additional information was provided by Region 7.

There were 16 LUFT cases that were concluded to have historically impacted 15 municipal well(s). Region 4 and the Central Valley Regional Board (Region 5) provided oversight for almost 70% (11) of these cases.

The status for the LUFT cases that are currently impacting municipal wells is as follows: approximately 49% are in Open-Remediation (22 cases), 23% are in Open-Site Assessment (10 cases), 20% are in Open-Verification Monitoring (9 cases), 6% are in Open-Assessment and Interim Remedial Action (3 cases), and 2% are in Open-Inactive status (1 case).

Impacted Domestic Wells

There were 145 LUFT cases that were reported as impacting domestic wells within the Closure Review page of GeoTracker during the creation of the Draft Report. Based on follow-up information provided by the oversight regulators during 2012, it has been concluded that there are 34 LUFT cases (less than 25% of the 145 LUFT Cases which were originally reported) currently impacting domestic wells throughout the State of California. The breakdown of the evaluation of the impacted domestic wells follows.

There are 54 domestic wells that have been confirmed by the regulators to be currently impacted by the 34 LUFT cases. Of those 54 cases, there are 48 supply wells, 3 irrigation wells, and 3 unknown wells. For some of the LUFT cases impacting domestic wells, regulators have indicated that the number of impacted domestic wells is “unknown”; therefore, it is assumed that there are actually more than 52 domestic wells impacted. More than 50% of the impacted domestic wells are located in Region 5. There are 2 LUFT cases that do not have petroleum hydrocarbon constituents of concern but are impacted by Tetrachloroethylene (PCE) (overseen by Sonoma County LOP). From a petroleum perspective, this would reduce the total amount of LUFT cases currently impacting domestic wells to 32. Approximately 61% of the currently impacted domestic wells are reported to be impacted by MTBE. Additional constituents reported in currently impacted domestic wells by regulators include: 1,2-Dichloroethane (1,2-DCA) (1 well in Region 5), tert-Amyl methyl ether (TAME) (1 well overseen by Region 5 and 1 well overseen by Sonoma County LOP), and benzene (1 well in Region 5). For 1 well in Region 8, all of the following constituents were reported above reporting limits: benzene, toluene, ethylbenzene, xylenes, Total Petroleum Hydrocarbons as gasoline, Methyl tert-butyl ether (MTBE), TAME, tertiary butyl alcohol (TBA), and o-xylene.

The majority of the domestic wells that are currently impacted have well-head treatment systems on them or, if they do not and the well is a supply well for resident(s), an alternative source of water is being used by the residents. There is one domestic well in Region 8 (with multiple COCs above RLs) where the landowner reported to the regulator that the well smelled like gasoline. There is no treatment system on this well; the regulator told the landowner that he could not use this well for landscaping purposes or, indeed, any purpose. This well is impacted by two LUFT cases.

There were 100 LUFT cases that were classified as potentially or historically impacting domestic wells. Forty-nine LUFT cases potentially impacted 92 domestic wells, and 51 LUFT cases have historically impacted 95 domestic wells. Almost 70% of the LUFT cases potentially impacting domestic wells fell under the oversight of Region 1; however, it should be noted that additional information on the domestic wells was not provided by Region 1 so the timeframe for impact has not been confirmed. The remaining 30% of the LUFT cases potentially impacting domestic wells were spread amongst the remaining 19 oversight agencies. Sonoma County provides oversight to over 25% of the LUFT cases that have had historical impacts to domestic wells.

The status for the LUFT cases that are currently impacting domestic wells is as follows: approximately 66% are in Open-Remediation (22 cases), 17% are in Open-Site Assessment (6 cases), and 17% are in Open-Verification Monitoring (6 cases).

Conclusions

It was determined that less than 50% of the original LUFT cases reported in the Closure Review pages in GeoTracker as having current impacts to a municipal well actually had current impacts. Additionally, less than 25% of the LUFT cases reported as impacting domestic wells had current impacts.

MTBE is a constituent of concern in 85% of the impacted municipal wells, whereas it is reported as impacting approximately 61% of impacted domestic wells. The lower percentage for the impacted domestic wells could be due to the lack of additional information for some of the impacted domestic wells. Oversight agencies differed in the amount of additional information they provided for the purposes of this report. Additional information for the impacted domestic wells could be useful in further evaluating the impacts to domestic wells.

Cases that have current impacts to municipal and domestic wells and which are still in the Open-Site Assessment or Open-Inactive stages should be prioritized and actively managed.

Tables 1 and 2 below provide a summary of impacted municipal wells and domestic wells throughout the State of California based on the evaluation conducted for this impacted well study. Additionally, more detail-specific tables are provided for each of the oversight agencies that include additional data which the regulators provided on the LUFT cases and impacted wells. The detail-specific municipal well tables are presented by Regional Board boundary and include LUFT cases overseen by some LOP agencies, whereas the detail-specific domestic well tables are presented by oversight agency. Note that the Central Coast Regional Board (Region 3) was not able to respond to requests for additional information; all other agencies provided additional information or approved the draft tables as-is.

State of California Leaking Underground Storage Tank Cases Impact to Municipal and Domestic Wells Evaluation

Table 1: California Impacted Municipal Wells Evaluation Presented by RWQCB Boundaries

Table 2: California Impacted Domestic Wells Evaluation Presented by Oversight Agency

Table 1: California Impacted Municipal Wells Evaluation Presented by RWQCB Boundaries

RWQCB BOUNDARY	STATEWIDE	NORTH COAST RWQCB (REGION 1)	SAN FRANCISCO BAY RWQCB (REGION 2)	CENTRAL COAST RWQCB (REGION 3)	LOS ANGELES RWQCB (REGION 4)	CENTRAL VALLEY RWQCB (REGION 5)	LAHONTAN RWQCB (REGION 6)	COLORADO RIVER BASIN RWQCB (REGION 7)	SANTA ANA RWQCB (REGION 8)	SAN DIEGO RWQCB (REGION 9)
Number of LUFT Cases Determined to Have a Currently Impacted Municipal Well(s)	45	2	0	4	20	5	1	1	2	10
Number of Municipal Wells Determined as Currently Impacted	27	2	0	1	7	5	1	1	1	9
Number of LUFT Cases Determined to Have Potentially Impacted Well(s)	38	0	0	0	0	0	1	34	1	2
Number of Municipal Wells Determined as Potentially Impacted	29	0	0	0	0	0	2	21	2	4
Number of LUFT Cases Determined to Have Historically Impacted Well(s)	16	0	0	0	5	6	2	1	0	2
Number of Municipal Wells Determined as Historically Impacted	15	0	0	0	5	6	1	1	0	2
Percentage of Currently Impacted Wells Impacted by MTBE	85%	0%	NA	100%	100%	100%	100%	Unknown	Unknown	100%
LUFT Cases where Described Well Impacts are only from Non-Petroleum Hydrocarbon Constituents of Concern	3	2	0	0	1	0	0	0	0	0

NOTES:
 Due to some cases impacting multiple wells that may have different timeframes for impact (current, historical, potential), the total number of cases with municipal well impacts determined to be current, potential, or historical will not equal the total number of cases reviewed.
 "Unknown" means that there are not sufficient data provided to make a determination.

Table 2: California Impacted Domestic Wells Evaluation Presented by Oversight Agency

Oversight Agency	Number of LUFT Cases Determined to Have a Currently Impacted Domestic Well(s)	Number of Domestic Wells Determined as Currently Impacted	Number of LUFT Cases Determined to Have Potentially Impacted Domestic Well(s)	Number of Domestic Wells Determined as Potentially Impacted	Number of LUFT Cases Determined to Have Historically Impacted Domestic Well(s)	Number of Domestic Wells Determined as Historically Impacted	Percentage of Currently Impacted Domestic Wells known to be impacted by MTBE	LUFT Cases where Current Well Impacts are only from Non-Petroleum Hydrocarbon Constituents of Concern
STATEWIDE [±]	34	54+ (48 supply, 3 irrigation & 3 Unknown wells)	49	92 (3 supply, 3 irrigation, 86 unknown)	51	95 (33 supply, 24 irrigation, 37 unknown, 1 fire protection)	61%	2
NORTH COAST RWQCB (REGION 1) ^a	0	0	34	77 (unknown wells)	0	0	NA	NA
SAN FRANCISCO BAY RWQCB (REGION 2)	1	1 (irrigation well)	1	Unknown	1	5 (irrigation wells)	100%	0
CENTRAL COAST RWQCB (REGION 3) ^a	0	0	2	2 (unknown wells)	0	0	NA	NA
LOS ANGELES RWQCB (REGION 4)	0	0	0	0	0	0	NA	NA
CENTRAL VALLEY RWQCB (REGION 5) [¥]	16	31 (30 supply & 1 irrigation wells)	2	1+ (supply well)	11	15 (all supply wells)	58%	0
LAHONTAN RWQCB (REGION 6)	1	2 (supply wells)	0	0	1	Unknown	100%	0
COLORADO RIVER BASIN RWQCB (REGION 7)	0	0	3	4 (1 supply, 1 irrigation, and 2 unknown)	3	3 (all supply wells)	NA	NA

Table 2: California Impacted Domestic Wells Evaluation Presented by Oversight Agency (Continued)

Oversight Agency	Number of LUFT Cases Determined to Have a Currently Impacted Domestic Well(s)	Number of Domestic Wells Determined as Currently Impacted	Number of LUFT Cases Determined to Have Potentially Impacted Domestic Well(s)	Number of Domestic Wells Determined as Potentially Impacted	Number of LUFT Cases Determined to Have Historically Impacted Domestic Well(s)	Number of Domestic Wells Determined as Historically Impacted	Percentage of Currently Impacted Domestic Wells known to be impacted by MTBE	LUFT Cases where Current Well Impacts are only from Non-Petroleum Hydrocarbon Constituents of Concern
SANTA ANA RWQCB (REGION 8)	2	1 (irrigation well)	2	1 (unknown)	0	0	100%	0
SAN DIEGO RWQCB (REGION 9)	0	0	0	0	1	4 (All supply wells, 3 used for municipal uses, and 1 used at a bakery)	NA	NA
ALAMEDA COUNTY LOP	2	2 (1 supply & 1 unknown)	3	5 (2 irrigation, 3 unknown)	5	20 (16 irrigation, 4 unknown)	50%	0
EL DORADO COUNTY LOP	0	0	0	0	1	1 (irrigation well)	NA	NA
MERCED COUNTY LOP	0	0	0	0	1	3 (unknown)	NA	NA
NAPA COUNTY LOP	0	0	0	0	2	3 (all supply wells)	NA	NA
ORANGE COUNTY LOP	0	0	0	0	0	0	NA	NA
SACRAMENTO COUNTY LOP ^a	1	5 (supply wells)	0	0	1	1 (supply well)	Unknown	0
SAN DIEGO COUNTY LOP	4	Unknown (3 supply wells confirmed impacted)	0	0	0	0	100%	0
SAN JOAQUIN COUNTY LOP ^a	0	0	1	1 (unknown)	4	12 (3 supply, 1 irrigation, 8 unknown)	NA	NA

Table 2: California Impacted Domestic Wells Evaluation Presented by Oversight Agency (Continued)

Oversight Agency	Number of LUFT Cases Determined to Have a Currently Impacted Domestic Well(s)	Number of Domestic Wells Determined as Currently Impacted	Number of LUFT Cases Determined to Have Potentially Impacted Domestic Well(s)	Number of Domestic Wells Determined as Potentially Impacted	Number of LUFT Cases Determined to Have Historically Impacted Domestic Well(s)	Number of Domestic Wells Determined as Historically Impacted	Percentage of Currently Impacted Domestic Wells known to be impacted by MTBE	LUFT Cases where Current Well Impacts are only from Non-Petroleum Hydrocarbon Constituents of Concern
SAN MATEO COUNTY LOP	2	Unknown (irrigation wells only)	0	0	0	0	NA	0
SONOMA COUNTY LOP	5	9 (7 supply & 2 unknown)	1	1 (supply well)	14	20 (4 supply, 1 fire protection, 1 irrigation, 14 unknown)	78%	2
TULARE COUNTY LOP	0	0	0	0	6	8 (unknown wells)	NA	NA

NOTES:

Due to some cases impacting multiple wells that may have different timeframes for impact (current, historical, potential), the total number of cases with municipal well impacts determined to be current, potential, or historical will not equal the total number of cases reviewed.

"Unknown" means that there are not sufficient data provided to make a determination.

NA Not applicable because there are no currently impacted wells

± Fifty-two domestic wells have been confirmed to have current impacts by regulators. The "+" indicates that, most likely, there are more than 52 wells impacted because for some of the LUFT cases impacting domestic wells regulators indicated that the number of impacted domestic wells is "unknown."

a Wells that had an "unknown" timeframe for impact were classified as "potential" for the purposes of this table because no additional information was available.

¥ 1 supply well has been confirmed to have potential impact by regulators. The "+" represents that most likely there is more than 1 well impacted because for some of the LUFT cases impacting domestic wells regulators indicated that the number of impacted domestic wells is "unknown."

North Coast Regional Water Quality Control Board (Region 1)

Table R1-1: North Coast RWQCB LUFT Cases Impacting Municipal Wells Evaluation

Table R1-2: North Coast RWQCB LUFT Cases Impacting Domestic Wells Evaluation

Table R1-1: North Coast RWQCB LUFT Cases Impacting Municipal Wells Evaluation

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	Notes (Post Regulator review)
SEBASTOPOL, CITY OF (SEBASTOPOL) WELL 04	4910011-008	ACTIVE TREATED	2,285	7,750	CURRENT	ALLIANCE SERVICE STATION - SEBASTOPOL	T0609700011	0.4 mi E	PCE	Aquifer used for drinking water supply	NORTH COAST RWQCB (REGION 1)	Open - Remediation	Closure review indicates a municipal well has already been impacted with 1,2-DCA; however, no water quality data for this well have been reported to the Department of Health Services. Regulator indicated that PCE is being detected in the raw water and treated water. The last sampling event conducted in October 2012 reported PCE at concentrations of 0.48 ug/l in the raw water and 0.35 ug/l in the treated water. The RPs for the old dry cleaner site have been requested to define the extent of the plume and conduct interim remedial actions to abate the PCE in this City Well no. 04. A well-head treatment system has been installed at the wellhead.
						OLD DRY CLEANERS/ TALMADGE WOOD	T0609793302 (Cleanup Program Site)	0.4 mi S	PCE	Well used for drinking water supply	NORTH COAST RWQCB (REGION 1)	Open - Assessment & Interim Remedial Action	Regulator indicated that this case is also impacting Well 04.
SEBASTOPOL, CITY OF (SEBASTOPOL) WELL 05						OLD DRY CLEANERS/ TALMADGE WOOD	T0609793302 (Cleanup Program Site)	0.2 mi E	PCE	Well used for drinking water supply	NORTH COAST RWQCB (REGION 1)	Open - Assessment & Interim Remedial Action	Regulator indicated that this case is the case that is impacting municipal well no. 5. The notes below were previously in the notes section for EM's CHEVRON. The GeoTracker Well Report for Well No. 5 shows no impacts from MTBE or BTEX. As of the Third Quarter 2011 Groundwater Monitoring Report dated September 24, 2011, TPHg, BTEX, MTBE, and HVOCs had been below detection limits in all quarterly groundwater samples taken from City Well 05 since March 26, 2009, when 0.27 µg/L of PCE was detected. Per the results presented in the monitoring report, the highest reported detected of PCE in City Well 05 was 3.9 µg/L in November 2003. No other analytes have been reported above detection limits in City Well 05.

NOTES:
EM's Chevron (T0609793430) was previously listed in the Draft report as impacting the Sebastopol, City of (Sebastopol) Well 05. The regulator indicated that EM's Chevron is not impacting Well 05; instead, the Old Dry Cleaners/ Talmadge Wood case is. The "Closure Review Page" within GeoTracker still has an erroneous entry indicating that this site is impacting a municipal well.

- Region 1 requested that this case be added to the list of LUFT cases impacting municipal wells

Table R1-2: North Coast RWQCB LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
JUKIC PROPERTY	SL0601586079	1	Open - Verification Monitoring	NORTH COAST RWQCB (REGION 1)	-124.151741	41.801775	Unknown	No additional information is available at this time.
SCHULTZ, NANCY	T0601500045	Unknown	Open - Site Assessment	NORTH COAST RWQCB (REGION 1)	-123.972959	41.845651	Unknown	No additional information is available at this time.
MENDOCINO FOREST PRODUCTS	T0604500076	2	Open - Remediation	NORTH COAST RWQCB (REGION 1)	-123.805815	39.383052	Unknown	No additional information is available at this time.
ULTRAMAR #1-621	T0604500060	1	Open - Assessment & Interim Remedial Action	NORTH COAST RWQCB (REGION 1)	-123.808113	39.411943	Unknown	No additional information is available at this time.
ANDERSON VALLEY US BUS BARN	T0604500221	3	Open - Remediation	NORTH COAST RWQCB (REGION 1)	-123.387977	39.028961	Unknown	No additional information is available at this time.
BP, PHILO	T0604500142	1	Open - Remediation	NORTH COAST RWQCB (REGION 1)	-123.442109	39.065961	Unknown	No additional information is available at this time.
CHEVRON, JEFF	T0604500045	1	Open - Assessment & Interim Remedial Action	NORTH COAST RWQCB (REGION 1)	-123.364781	39.006863	Unknown	No additional information is available at this time.
HOPPERS CORNER STORE	T0604500249	2	Open - Remediation	NORTH COAST RWQCB (REGION 1)	-123.098878	39.322044	Unknown	No additional information is available at this time.
POTTER VALLEY STORE	T0604500325	3	Open - Site Assessment	NORTH COAST RWQCB (REGION 1)	-123.109408	39.321701	Unknown	No additional information is available at this time.
REDWOOD VALLEY SHOPPING CENTER	T0604500280	1	Open - Site Assessment	NORTH COAST RWQCB (REGION 1)	-123.204269	39.264992	Unknown	No additional information is available at this time.
TEXACO	T0609700161	13	Open - Remediation	NORTH COAST RWQCB (REGION 1)	-122.876072	38.625957	Unknown	No additional information is available at this time.
VINTAGE II STATION	T0609700124	1	Open - Remediation	NORTH COAST RWQCB (REGION 1)	-122.873122	38.625823	Unknown	No additional information is available at this time.
ZIMMERMAN TRUCKING	T0609700299	13	Open - Verification Monitoring	NORTH COAST RWQCB (REGION 1)	-122.876447	38.626946	Unknown	No additional information is available at this time.
A. F. O'CONNOR STATION	T0609700695	3	Open - Assessment & Interim Remedial Action	NORTH COAST RWQCB (REGION 1)	-122.702179	38.447001	Unknown	No additional information is available at this time.
AM/PM MINI MART	T0609700647	1	Open - Remediation	NORTH COAST RWQCB (REGION 1)	-122.717747	38.414207	Unknown	No additional information is available at this time.

Table R1-2: North Coast RWQCB LUFT Cases Impacting Domestic Wells Evaluation (Continued)

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
BAKERS SERVICE STATION - 0273	T0609700019	2	Open - Remediation	NORTH COAST RWQCB (REGION 1)	-122.869286	38.436170	Unknown	No additional information is available at this time.
EXXON #7-3035	T0609700734	1	Open - Assessment & Interim Remedial Action	NORTH COAST RWQCB (REGION 1)	-122.675119	38.458169	Unknown	No additional information is available at this time.
FOURTH STREET COMMINGLED PLUME	T10000001773	Unknown	Open - Assessment & Interim Remedial Action	NORTH COAST RWQCB (REGION 1)	-122.701783	38.446531	Unknown	No additional information is available at this time.
HULSMAN TRANSPORTATION COMPANY	T0609700572	2	Open - Site Assessment	NORTH COAST RWQCB (REGION 1)	-122.711985	38.413467	Unknown	No additional information is available at this time.
JAMES SOLDATI ESTATE	T0609707190	1	Open - Assessment & Interim Remedial Action	NORTH COAST RWQCB (REGION 1)	-122.853820	38.312392	Unknown	No additional information is available at this time.
LEISER, JACK	T0609791118	Unknown	Open - Verification Monitoring	NORTH COAST RWQCB (REGION 1)	-122.709968	38.423252	Unknown	No additional information is available at this time.
MALM METAL - YOLANDA GAS SPILL	T0609700703	2	Open - Remediation	NORTH COAST RWQCB (REGION 1)	-122.713058	38.412946	Unknown	No additional information is available at this time.
REDWOOD OIL #114	T0609700601	3	Open - Remediation	NORTH COAST RWQCB (REGION 1)	-122.750165	38.452669	Unknown	No additional information is available at this time.
REDWOOD OIL #141 (BULK PLANT)	T0609700708	2	Open - Remediation	NORTH COAST RWQCB (REGION 1)	-122.710268	38.413585	Unknown	No additional information is available at this time.
RIDDELL, JOHN	T0609700318	3	Open - Assessment & Interim Remedial Action	NORTH COAST RWQCB (REGION 1)	-122.777849	38.347155	Unknown	No additional information is available at this time.
SHELL	T0609700103	1	Open - Verification Monitoring	NORTH COAST RWQCB (REGION 1)	-122.717597	38.414424	Unknown	No additional information is available at this time.
SHELL	T0609700723	3	Open - Verification Monitoring	NORTH COAST RWQCB (REGION 1)	-122.751617	38.452917	Unknown	No additional information is available at this time.
SHELL SERVICE STATION - DUTTON AVENUE	T0609700053	2	Open - Verification Monitoring	NORTH COAST RWQCB (REGION 1)	-122.725851	38.432535	Unknown	No additional information is available at this time.
Turner's Automotive	T0609700435	1	Open - Remediation	NORTH COAST RWQCB (REGION 1)	-122.868038	38.436262	Unknown	No additional information is available at this time.

Table R1-2: North Coast RWQCB LUFT Cases Impacting Domestic Wells Evaluation (Continued)

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
UNOCAL #3312	T0609700657	4	Open - Remediation	NORTH COAST RWQCB (REGION 1)	-122.702501	38.446665	Unknown	No additional information is available at this time.
UNOCAL #4935	T0609700612	2	Open - Site Assessment	NORTH COAST RWQCB (REGION 1)	-122.717064	38.461310	Unknown	No additional information is available at this time.
BEACON, M&M	T0604500196	2	Open - Remediation	NORTH COAST RWQCB (REGION 1)	-123.714949	39.864697	Unknown	No additional information is available at this time.
LAUBACHER RANCH (FORMER)	T0609300084	Unknown	Open - Site Assessment	NORTH COAST RWQCB (REGION 1)	-122.191958	41.982575	Unknown	No additional information is available at this time.
POLI PROPERTY	T0604591115	Unknown	Open - Site Assessment	NORTH COAST RWQCB (REGION 1)	-123.248164	39.794116	Unknown	No additional information is available at this time.

San Francisco Bay Regional Water Quality Control Board (Region 2)

Table R2-1: North Coast RWQCB LUFT Cases Impacting Domestic Wells Evaluation

*There were no LUFT cases impacting municipal wells in Region 2; therefore, a Municipal Well Evaluation table is not included.

Table R2-1: San Francisco Bay RWQCB LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
BEACON	T0601300680	6 (all irrigation wells)	Open - Remediation	SAN FRANCISCO BAY RWQCB (REGION 2)	-122.041946	37.989666	Current (1) & Historical (5)	The impacted domestic wells are irrigation/backyard wells. Active remediation has been conducted and the regulator is awaiting the results of groundwater monitoring and sampling. Regulator provided the 2010 GW monitoring document and Sullivan extracted the following information from the report: Six residential wells sampled in 2010. Depth to groundwater in the residential wells ranged from 7.74-11.04 ft. All gasoline oxygenates, lead scavengers, and ethanol were below lab RLs. TPHg and BTEX were below lab RLs for all samples. MTBE was detected at 0.82 ug/L in residential well at 2825 Courtland Drive. MTBE was below lab RLs for all other residential wells. The addresses for the six residential wells that were sampled for TPHg, BTEX, and MTBE in 2010 are: 1) 2813 Courtland Dr.; 2) 2825 Courtland Dr.; 3) 2786 Broadmoor Ave.; 4) 2755 Argyll Ave.; 5) 2736 Kay Ave.; and 6) 2700 Mayfair Ave. Only one well currently impacted with detection above lab RLs but significantly below ESL. *Regulator noted that it is "unknown whether anyone consumes water from the impacted irrigation wells."
SHELL	T0601329788	Unknown	Open - Site Assessment	SAN FRANCISCO BAY RWQCB (REGION 2)	-122.097368	37.902114	Potential	There is a residential area downgradient of the gas station with possible irrigation/backyard wells that could be potentially impacted and the MTBE plume is not defined. Based on site knowledge and conversations the regulator has had with Contra Costa County personnel, unpermitted wells may be present on residential lots to the east (downgradient) of the site. Shell has not conducted a door-to-door well survey. It was discussed with the regulator that the Closure Review Page in GeoTracker had "Domestic Wells Impacted" selected instead of "Domestic Wells Potentially Impacted" and the regulator changed the selection in GeoTracker to "Domestic Wells Potentially Impacted".

Central Coast Regional Water Quality Control Board (Region 3)

Table R3-1: Central Coast RWQCB LUFT Cases Impacting Municipal Wells Evaluation

Table R3-2: Central Coast RWQCB LUFT Cases Impacting Domestic Wells Evaluation

Table R3-1: Central Coast RWQCB LUFT Cases Impacting Municipal Wells Evaluation

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	NOTES
MANANA WOODS WELL	N/A	N/A	N/A	N/A	CURRENT	BP #11239	T0608700049	0.3 mi to NW	Gasoline	Aquifer used for drinking water supply	CENTRAL COAST RWQCB (REGION 3)	Open - Site Assessment	<p>These cases comprise the Camp Evers Study Area. The impacted well for this area is described as Manana Woods Well #2. Manana Woods Well #1 is located in the same vicinity but is reported to be inactive as of at least 2008. Impacts to the Manana Woods Well #2 are documented in the file for these cases as far back as July 1994.</p> <p>Many of the submittals for Shell Station, Tosco - Facility #6153 and Chevron Station 9-1337 made since the time of the closure review were National Pollutant Discharge Elimination System (NPDES) Permit reports and wastewater discharge reports dating back to 2005, and uploaded in December 2009.</p> <p>Although these cases are assigned to Region 3, oversight appears to be handled by County of Santa Cruz Health Services Agency (CSCHSA).</p> <p>The Manana Woods Well #2 is described in the closure review for Chevron Station 9-1337 as part of the Scotts Valley Water District. Information present in GeoTracker for other wells used by this water district indicate that 11,301 people are served by 3,585 connections. However, in the 4th Quarter 2011 Semi-Annual Groundwater Monitoring Report it is described as part of the San Lorenzo Valley Water District, which services 19,000 people through 5,847 connections.</p> <p>The Manana Woods Well #2 is undergoing well-head treatment. Per the 4th Quarter 2011 Semi-Annual Groundwater Monitoring Report, the total volume of water treated from the Manana Woods Well #2 between July 2011 and December 22, 2011 was "approximately 5,600,000 gallons, equivalent to approximately 32,000 gallons per day, or about 22 gallons per minute." Benzene was detected in the influent stream between July 13, 2011, and November 30, 2011, at values ranging from 0.3 to 1.4 µg/L, and MTBE was detected at values ranging from 0.9 to 5.5 µg/L. TBA concentrations ranged from below the reporting limit to 1.4 µg/L.</p> <p>A separate groundwater extraction and treatment (GWE&T) facility was operated by two of the responsible parties (Shell and Conoco Phillips) from 2002 until 2010. Since 2010, the study area has been undergoing monitored natural attenuation.</p> <p>In a petition for closure dated September 13, 2011, the consultant for the BP site stated that they had requested closure three separate times and been denied by the Central Coast Regional Water Quality Control Board (CCRWQCB) with the stated reason being that the CCRWQCB will not consider closure for any of the sites in the Camp Evers Study Area separately. However, in a response letter from CSCHSA dated November 8, 2011, the agency stated that its primary concern with the BP site was the need for additional soil and soil vapor review and possible investigation. Notes present in the GeoTracker petition page indicate that the regional board supports closure of the BP case as of 2/16/2012.</p>
						CHEVRON STATION 9-1337	T0608700065	0.3 mi to NW	Gasoline	Aquifer used for drinking water supply	CENTRAL COAST RWQCB (REGION 3)	Open - Remediation	
						TOSCO - FACILITY #6153	T0608700248	0.3 mi to NW	Gasoline	Aquifer used for drinking water supply	CENTRAL COAST RWQCB (REGION 3)	Open - Remediation	
						SHELL STATION	T0608700282	0.4 mi to NW	Gasoline	Aquifer used for drinking water supply	CENTRAL COAST RWQCB (REGION 3)	Open - Remediation	

NOTES:

"NA" stands for Not Available. In most cases, this is because well data are not available in GeoTracker, or the impacted well is not identified in GeoTracker.

Table R3-2: Central Coast RWQCB LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
BONNY DOON SCHOOL (GASOLINE RELEASE)	T10000003685	1	Open - Assessment & Interim Remedial Action	CENTRAL COAST RWQCB (REGION 3)	-122.148646	37.061119	Unknown	No additional information is available at this time.
NORTH SIDE HWY 46 @ JACK RANCH	T0607900150	1	Open - Remediation	CENTRAL COAST RWQCB (REGION 3)	-120.296924	35.723303	Unknown	No additional information is available at this time.

Los Angeles Regional Water Quality Control Board (Region 4)

Table R4-1: Los Angeles RWQCB LUFT Cases Impacting Municipal Wells Evaluation

Table R4-2: Los Angeles RWQCB LUFT Cases Impacting Domestic Wells Evaluation

Table R4-1: Los Angeles RWQCB LUFT Cases Impacting Municipal Wells Evaluation

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	Notes (Post Regulator review)
City of Santa Monica Charnock Well Field: Charnock Wells 13, 15, 16, 18 and 19	NA	NA	NA	NA	CURRENT	CHARNOCK AREA WIDE INVESTIGATION	T0603701211	NA	Gasoline	Aquifer used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Site Assessment	This is not a separate release, but rather an area-wide investigation. In the absence of pumping in the Charnock Well field, the regional flow direction has historically been described as toward the Southeast.
						CHARNOCK WELLS	T0603701212	NA	Gasoline	Aquifer used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Remediation	This is not a separate release. Appears to have been intended as an area-wide investigation, but no documents have been uploaded to this file to date.
						EXXON #7-9477 (FORMER)	T0603703278	0.5 mi SE	Gasoline	Well used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Remediation	The City of Santa Monica (COSM) Charnock Wells 13, 15, 16, 18 and 19 are all located on the same parcel and are treated as a single well in this table. Distance measurements were made to the nearest well.
						MOBIL #18-FX5 (FORMER 11-FX5)	T0603703268	0.5 mi ESE	Gasoline	Well used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Verification Monitoring	In the fall of 1995, MTBE contamination was detected in the five COSM Charnock production wells as a result of the release of gasoline from nearby service stations and other underground storage tanks. All of the production wells were shut down by June 13, 1996. No data for the COSM wells are available in the CDPH data present in GeoTracker. Two Golden State Water Company (GSWC) wells appear to have been impacted by the same releases, but are not mentioned in the closure reviews for these sites, and fall outside the scope of this report. Data for the GSWC wells are present in GeoTracker.
						SHELL #204-1944-0100	T0603703277	0.5 mi ESE	Gasoline	Well used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Remediation	After contamination was detected in the COSM and GSWC wells, an area-wide investigation was begun and nearby LUFT cases were designated as potentially responsible parties (PRPs). As the investigation progressed PRPs were ruled out and some (15) cases progressed to closure. These are the remaining cases identified in GeoTracker as impacting these production wells. Three other cases named as PRPs for the Charnock Well Field remain open, but did not have municipal well impacts listed as an impediment to closure, and are outside the scope of this report.
						THRIFTY #247/CHEVRON (FORMER)	T0603700861	.2 mi W	Gasoline	Well used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Remediation	Since the well field was shut down, the City of Santa Monica has constructed a treatment plant and has once again restarted production at the Charnock Well Field. The renewed production at the well field has begun to affect the groundwater flow patterns in this area, and resulted in the shutdown of a pump and treat remediation system located at the Unocal #3016 site in December 2011.
						UNOCAL #3016	T0603703280	0.8 mi SE	Gasoline	Well used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Remediation	

Table R4-1: Los Angeles RWQCB LUFT Cases Impacting Municipal Wells Evaluation (Continued)

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	Notes (Post Regulator review)
POMONA - CITY, WATER DEPT. (POMONA) WELL 29	1910126-029	ACTIVE RAW	29,464	149,058	CURRENT	ARCO #5550	T0603725445	0.1 mi to SE	Gasoline and Fuel Oxygenates	Well used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Verification Monitoring	Three zones of low-permeability clays are present at approximately 107 ft to 115 ft bgs, 128 to 143 ft bgs, and 158 to 160 ft bgs (based on one deep on-site boring log, for MW-6). The affected aquifer has screen intervals of 248-267' bgs, 314-324' bgs, and 327-352' bgs. MTBE concentrations have historically been reported at up to 37 mg/kg in soil at this site, but only low levels of MTBE (0.68 µg/L maximum) have been detected in the perched aquifer present at the site. No MTBE has been detected in the deeper zone below 100 feet bgs (MW-6), although detections of toluene, ethylbenzene, and xylenes in MW-6 in 2010 indicate some impacts to the deeper aquifer may have occurred. SVE pilot testing was conducted in early 2012. During the testing, MTBE concentrations in soil vapor were detected in one of five sampling locations (SVE-2B, screen interval 45-75' bgs), at a concentration of 11 ppmv. The location where MTBE was detected in soil vapor is near the current USTs, where soil sampling has identified MTBE at depth from 25 to 90 feet bgs in three separate borings.
						76 STATION NO 9095487979	T0603734964	0.2 mi to NE	None Known	Well used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Site Assessment	This gasoline station was not constructed and opened until 2003, after MTBE use was not allowed, so no directives have been issued by RWQCB-LA.
						ANHEUSER BUSCH (FORMER FOOTHILL BEVERAGE CO. FACILITY)	T0603762149	0.2 mi to NE	Gasoline	Well used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Site Assessment	Soil and groundwater sampling was performed from 2009 to 2011. Soil impacts from petroleum hydrocarbons were identified, but primarily at depths to 50 feet bgs; no groundwater impacts were identified (depth to water 135 feet bgs), and MTBE was not detected in either soil or groundwater. A No Further Action Letter, but not formal closure, was issued for this site on March 29, 2012. Closure will not be granted until "... the Pomona Well 29 MTBE investigation is complete, or the MTBE source impacting Well 29 has been clearly identified."
						MCGEE ELECTRIC, INC.	T0603710005	0.2 mi to S	Fuel Oxygenates	Well used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Verification Monitoring	Soil and groundwater sampling was performed from 2007 to 2008. No groundwater impacts were identified (depth to water 160 feet bgs). Gasoline constituents, including MTBE, were not detected in any soil or groundwater samples from 2007-2008. A No Further Action Letter, but not formal closure, was issued for this site on April 22, 2009. Closure will not be considered until the Pomona Well 29 MTBE investigation is complete.
						FDS MANUFACTURING	T0603768998	0.3 mi to S	Fuel Oxygenates	Well used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Site Assessment	Historical documents provided by FDS Manufacturing identified potential UST sources (two diesel USTs, one former gasoline UST), but the history of UST contents and usage and three soil samples in 2002 did not support the need for RWQCB-LA to issue any directive letter thru the current time.
						OSTERKAMP TRUCKING	T0603705153	0.4 mi to S	Diesel	Well used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Site Assessment	Only slight diesel impacts were found in soil, but no contaminants were detected in groundwater in 2008-2009. A No Further Action Letter, but not formal closure, was issued for this site on July 14, 2009. Case closure will not be considered until the Pomona Well 29 investigation is complete, or the source of MTBE in Pomona Well 29 has been clearly identified.
						RUGBY FACILITY (FORMER)	T0603721645	0.4 mi to NE	Diesel	Well used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Site Assessment	A diesel UST was removed in 2001. Soil sampling in Feb 2008 directly beneath the former UST showed no MTBE detections, with only low levels of diesel detected. The depth of soil sampling was to 180 feet bgs and groundwater was not encountered to that depth.
						ARCO STATION	T0603781463	0.6 mi to SSE	Gasoline	Well used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Verification Monitoring	In 2008-2009, no MTBE was detected in either soil or groundwater samples. TPH-gasoline was detected in only one of 34 soil samples and no gasoline constituents were detected in any groundwater samples. A No Further Action Letter, but not formal closure, was issued for this site on November 19, 2009. Closure will not be considered until the Pomona Well 29 MTBE investigation is complete.

Table R4-1: Los Angeles RWQCB LUFT Cases Impacting Municipal Wells Evaluation (Continued)

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	Notes (Post Regulator review)
City of Oxnard Well #19, #24, and #25	NA	ABANDONED	NA	NA	HISTORICAL	SHELL SS - ROSE	T061119012	NA	Benzene, Gasoline, Fuel Oxygenates	Other Groundwater (uses other than drinking water)	VENTURA COUNTY LOP	Open - Verification Monitoring	The affected wells have been destroyed.
CRESCENTA VALLEY CWD (LA CRESCENTA) WELL 02	1910028-003	INACTIVE RAW	8,170	35,000	HISTORICAL	CRESCENTA VALLEY TOW	T0603703854	1.2 mi WNW	Gasoline	Aquifer used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Remediation	<p>Crescenta Valley Tow and Wortmann Oil were granted commingled plume status in September 2009. Both sites have been designated as a potential responsible party (PRP) for MTBE contamination detected in the Crescenta Valley Water District's (CVWD11) production well 05. A total of 22 sites were designated as PRPs for the contamination detected in this well. These sites are currently undergoing AS/SVE12 remediation. During the third quarter 2011 groundwater monitoring event conducted in August 2011, TPHg was not detected in any wells above the laboratory reporting limit of 50 µg/L, and MTBE was detected ranging from 1.1 µg/L to 41 µg/L. As of August 2011, the SVE system influent source concentrations for TPHg and MTBE were reported at 4,100 and 180 ppmv, respectively. MTBE has been detected in off-site downgradient monitoring well CMW-6; however, it has not been detected in monitoring well CMW-8, which is located downgradient of CMW-6, since its installation in May 2010, indicating that the southern edge of the plume has been defined. The AS/SVE system appears to be effective for this site. MTBE concentrations in off-site monitoring well CMW-6 have decreased by 2 orders of magnitude since the previous monitoring event.</p> <p>Remediation by AS/SVE is currently ongoing at this site. Concentrations of MTBE have fallen from as high as 33,000 µg/L, in March of 2007, to 520 µg/L in monitoring well MW-1 during the fourth quarter 2011 groundwater monitoring event. Additionally, during the fourth quarter 2011 groundwater monitoring event, monitoring well MW-1 had detections of TPHg at 520 µg/L, and TAME at 7,200 µg/L. Benzene was also detected in well MW-1 at 1.6 µg/L; however, this detection was J-flagged¹⁵. No other monitoring wells associated with this site had detections of petroleum constituents.</p> <p>Groundwater flow direction at this site was reported to be to the southwest as of November 2011.</p>
						WORTMANN OIL CO	T0603704785	1.2 mi WNW	Aviation	Aquifer used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Remediation	
						UNOCAL #6180	T0603795941	2.3 mi WNW	Gasoline	Aquifer used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Remediation	

Table R4-1: Los Angeles RWQCB LUFT Cases Impacting Municipal Wells Evaluation (Continued)

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	Notes (Post Regulator review)
CRESCENTA VALLEY CWD (LA CRESCENTA) WELL 05	1910028-005	ACTIVE RAW	8,170	35,000	CURRENT	CRESCENTA VALLEY TOW	T0603703854	0.6 mi SSW	Gasoline	Aquifer used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Remediation	<p>Crescenta Valley Tow and Wortmann Oil were granted commingled plume status in September 2009. Both sites have been designated as a potential responsible party (PRP) for MTBE contamination detected in the Crescenta Valley Water District's (CVWD) production well 05. A total of 22 sites were designated as PRPs for the contamination detected in this well. These sites are currently undergoing AS/SVE remediation. During the third quarter 2011 groundwater monitoring event conducted in August 2011, TPHg was not detected in any wells above the laboratory reporting limit of 50 µg/L, and MTBE was detected ranging from 1.1 µg/L to 41 µg/L. As of August 2011, the SVE system influent source concentrations for TPHg and MTBE were reported at 4,100 and 180 ppmv, respectively. MTBE has been detected in off-site downgradient monitoring well CMW-6; however, it has not been detected in monitoring well CMW-8, which is located downgradient of CMW-6, since its installation in May 2010, indicating that the southern edge of the plume has been defined. The AS/SVE system appears to be effective for this site. MTBE concentrations in off-site monitoring well CMW-6 have decreased by 2 orders of magnitude since the previous monitoring event.</p> <p>Case is listed in GeoTracker as a Soils Only case, and appears to have only limited groundwater data available. MTBE was detected in a grabwater sample in 2007 at 85' to 88' bgs at up to 3,300 µg/L.</p> <p>Remediation by AS/SVE is currently ongoing at this site. Concentrations of MTBE have fallen from as high as 33,000 µg/L, in March of 2007, to 520 µg/L in monitoring well MW-1 during the fourth quarter 2011 groundwater monitoring event. Additionally, during the fourth quarter 2011 groundwater monitoring event, monitoring well MW-1 had detections of TPHg at 520 µg/L, and TAME at 7,200 µg/L. Benzene was also detected in well MW-1 at 1.6 µg/L; however, this detection was J-flagged. No other monitoring wells associated with this site had detections of petroleum constituents.</p> <p>Groundwater flow direction at this site was reported to be to the southwest as of November 2011.</p> <p>This case was added to the list of cases impacting the Crescenta Valley CWD (La Crescenta) Well 05 by the regulator. There is a "LUST Cleanup Site" case and a "Cleanup Program Site" case in GeoTracker for the same site. The "Risk Information" page indicates that this site used to be a dry cleaning facility. This does not appear to be a LUST Cleanup Site.</p>
						WORTMANN OIL CO	T0603704785	0.6 mi SSW	Aviation	Aquifer used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Remediation	
						FOOTHILL GAS MART	T0603770234	0.7 mi WSW	Gasoline	Soil	LOS ANGELES RWQCB (REGION 4)	Open - Remediation	
						UNOCAL #6180	T0603795941	1.1 mi W	Gasoline	Aquifer used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Remediation	
						ONE STOP CLEANERS	T0603705509	.7 mi S	Solvent/Non-Petroleum Hydrocarbon	Soil	LOS ANGELES RWQCB (REGION 4)	Open - Site Assessment	
CRESCENTA VALLEY CWD (LA CRESCENTA) WELL 07	1910028-007	ACTIVE RAW	8,170	35,000	HISTORICAL	FOOTHILL GAS MART	T0603770234	0.8 mi W	Gasoline	Soil	LOS ANGELES RWQCB (REGION 4)	Open - Remediation	<p>Case is listed in GeoTracker as a Soils Only case, and appears to have only limited groundwater data available. MTBE was detected in a grabwater sample in 2007 at 85' to 88' bgs at up to 3,300 µg/L.</p> <p>Remediation by AS/SVE is currently ongoing at this site. Concentrations of MTBE have fallen from as high as 33,000 µg/L, in March of 2007, to 520 µg/L in monitoring well MW-1 during the fourth quarter 2011 groundwater monitoring event. Additionally, during the fourth quarter 2011 groundwater monitoring event, monitoring well MW-1 had detections of TPHg at 520 µg/L, and TAME at 7,200 µg/L. Benzene was also detected in well MW-1 at 1.6 µg/L; however, this detection was J-flagged. No other monitoring wells associated with this site had detections of petroleum constituents.</p> <p>Groundwater flow direction at this site was reported to be to the southwest as of November 2011.</p>
						UNOCAL #6180	T0603795941	1.2 mi WNW	Gasoline	Aquifer used for drinking water supply	LOS ANGELES RWQCB (REGION 4)	Open - Remediation	

NOTES:
 "NA" stands for Not Available. In most cases, this is because well data are not available in GeoTracker, or the impacted well is not identified in GeoTracker.
 Two additional cases are part of the Pomona Well 29 Investigation area, but are located across the Regional Board boundary in Region 8, and are discussed as part of that Region.
 COSM: City of Santa Monica
 CDPH: California Department of Public Health
 GSWC: Golden State Water Company
 PRP: potentially responsible party
 CVWD: Crescenta Valley Water District
 -Additional Case(s) and associated well information that were not within the Draft Impacted Municipal Wells Report provided by Region 4.

Table R4-2: Los Angeles RWQCB LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
MOBIL #18-FG9	T0603702475	0	Open - Remediation	LOS ANGELES RWQCB (REGION 4)	-118.422061	34.150207	NA	Erroneous GeoTracker entry. Should not be listed as impacting Domestic wells.
VALERO SERVICE STATION	T0603751983	0	Open - Site Assessment	LOS ANGELES RWQCB (REGION 4)	-118.399776	34.016641	NA	Erroneous GeoTracker entry. Should not be listed as impacting Domestic wells.
ONE STOP CLEANERS	T0603705509	0	Open - Site Assessment	LOS ANGELES RWQCB (REGION 4)	-118.246677	34.228534	NA	This case needs to be lumped with the impacted La Crescenta Well Field reported in the impacted municipal well table. No domestic well impacted.
PHIL'S CAR & TRUCK RENTAL	T0603702121	0	Open - Site Assessment	LOS ANGELES RWQCB (REGION 4)	-118.571263	34.200873	NA	Erroneous GeoTracker entry. Should not be listed as impacting Domestic wells.
SHELL SERVICE STATION	T0603792097	0	Open - Remediation	LOS ANGELES RWQCB (REGION 4)	-118.099485	33.832264	NA	Erroneous GeoTracker entry. Should not be listed as impacting Domestic wells.

Central Valley Regional Water Quality Control Board (Region 5)

Table R5-1: Central Valley RWQCB LUFT Cases Impacting Municipal Wells Evaluation

Table R5-2: Central Valley RWQCB LUFT Cases Impacting Domestic Wells Evaluation

Table R5-1: Central Valley RWQCB LUFT Cases Impacting Municipal Wells Evaluation

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	NOTES (Post Regulator review)
FRUITRIDGE VISTA WATER COMPANY (SACRAMENTO) WELL 11	3410023-011	INACTIVE UNTREATED	4,688	15,000	CURRENT	SUPER STAR PLUS	T0606701077	0.4 mi N	Gasoline	Well used for drinking water supply	CENTRAL VALLEY RWQCB (REGION 5S) ¹	Open - Remediation	<p>The closure review for this site reads in part, "Municipal Wells Impacted - Fruitridge vista well 11, located in the historic down-gradient direction (southeast), has been impacted by MTBE. The MTBE source is believed to be from this site and the Ferg's market. FVWC well 11 has been shutdown due to the MTBE impacts and destruction is proposed." California Department of Public Health (CDPH) data for Fruitridge Vista (FVWC) Well 11 present in GeoTracker show that the well is actually located approximately 0.4 miles to the north of the site. Analytical data present in the CDPH data stop in 2003, when MTBE was detected in the well ranging from 0 to 19.4 µg/L.</p> <p>In correspondence dated March 23, 2010 from the regulator to the CUF, the regulator stated the FVWC Well 11 had already been replaced by a newer well located approximately 2,600 feet to the east of this site. Additionally, the correspondence states that FVWC well 11 may be serving as a conduit allowing MTBE to flow into and contaminate deeper aquifers and that the well may need to be destroyed.</p> <p>The most recent analytical report for this site available in GeoTracker is a Semi Annual Groundwater Monitoring and Sampling report dated August 23, 2011. The report states that the remediation system for this site was shut down in November 2009, due to a lack of funding, and has not been restarted to date. The analytical results showed elevated levels fuel constituents remain in the subsurface, with gasoline range organics (GRO) reported at up to 52,000 µg/L, and diesel range organics (DRO) at up to 2,200 µg/L both in monitoring well MW-1. Low levels of MTBE were reported at 7.3 µg/L in well MW-18, and 32 µg/L in well AS-1. BTEX compounds were also detected in monitoring well MW-1 at 1,000 µg/L for benzene, 6,000 µg/L for toluene, 1,400 µg/L for ethylbenzene, and 10,200 µg/L for xylenes.</p> <p>This site has been enrolled in the EAR program after exhausting CUF funding. Additional remediation utilizing air sparging and soil vapor extraction is now planned.</p>
						FERG'S MARKET	T0606701091	0.4 mi N-NW	Gasoline	Well used for drinking water supply	CENTRAL VALLEY RWQCB (REGION 5S)	Open - Verification Monitoring	<p>The Well Impact Description in GeoTracker reads, "14 ppb found in nearest municipal drinking water well - drinking water well closed but not yet destroyed."</p> <p>In a letter dated August 18, 2011, the regulatory denied a request for no further action due to a trend of increasing MTBE concentrations in monitoring well MW-17B. The letter stated that closure would be considered when the contaminant trend in this well was declining. In September 2011, the ozone injection remediation system at the site was removed. As of the most recent groundwater monitoring report dated January 3, 2012, concentrations of TPHg and MTBE remain elevated in well 17B (256 µg/L and 512 µg/L respectively), but are non-detect in the remaining site wells. Post remedial monitoring will continue until a declining trend is observed in monitoring well 17B.</p>
SHAVER LAKE HEIGHTS MWC (SHAVER LAKE) LATERAL WELL	1010053-006	ACTIVE RAW	219	400	HISTORICAL	SHAVER LAKE FOOD MART	T0601900713	0.1 mi SE	Gasoline	Well used for drinking water supply	CENTRAL VALLEY RWQCB (REGION 5F) ²	Open - Remediation	<p>A second case for this site is located in GeoTracker under the name, "Shaver Lake Food Mart (old release)," with a Global ID number of T10000001838. No documents are present in this second case.</p> <p>The Shaver Lake Heights Municipal Water Company Lateral Well (also referred to in reports as DW-5) was formerly impacted by this release. In addition to this municipal well 11 domestic wells have been, or are, potentially impacted by the release and have been sampled historically or are monitored periodically as a result.</p> <p>As of the fourth quarter 2011 monitoring event, TPHg, benzene, toluene, and MTBE were still detected at up to 32,800 µg/L; 1,920 µg/L; 24,400 µg/L; and 493 µg/L in on-site monitoring well MW-5. Detections were not limited to well MW-5, and additional petroleum hydrocarbons and fuel oxygenates were also detected. The report also states that concentrations of all chemicals of concern at all sampled water supply wells were reported as non-detect for this period.</p> <p>Analytical results for the Lateral Well (DW-5) back to June 2004 were presented in the fourth quarter 2011 monitoring report. The last detected reported for this well was 0.967 µg/L of MTBE in August 2009. The highest detection in this well was 2.8 µg/L of MTBE on September 7, 2004. MTBE has not been reported above the secondary maximum contaminant level (MCL) for this well, and no other analytes have been detected. No detections of MTBE or other fuel constituents have been reported in the available CDPH data. Domestic well 4 (DW-4) has been impacted by this release, and has had a wellhead treatment system installed and operating since June 2004. Influent concentrations of MTBE at this well have been below MCLs since February 2011. Well DW-2 had wellhead treatment operating from June 2004 until January 2007.</p> <p>Dual-phase extraction remediation is ongoing at this site.</p>

Table R5-1: Central Valley RWQCB LUFT Cases Impacting Municipal Wells Evaluation (Continued)

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	NOTES (Post Regulator review)
ROYSE WELL	WWG-100301-1	NA	NA	NA	HISTORICAL	VACATION STATION	T0604306017	0.3 mi SW	Gasoline	Aquifer used for drinking water supply	CENTRAL VALLEY RWQCB (REGION 5F)	Open - Remediation	<p>There are currently three open cases in GeoTracker for this property, one case each for three separate releases that have occurred. Of the three, only case T0604306017 lists an impacted municipal well as a sensitive receptor in its closure review. Case T0604300072 is the file which is being actively managed, and which all documents have been uploaded to. The closure review date for case T0604300072 is listed as 7/31/2009; this date was used in this review of submittals and correspondence since the date of closure review, and all reviewed documents were from that case file.</p> <p>The impacted municipal well is named in the available documentation as the "Former Roysse Well," and serves the Buck Meadows Mobile Home Park. The Roysse Well is not listed in the CDPH data available in GeoTracker. The closure review described the impacts as limited, and the most recent available analytical data, dated March 1, 2010, do not show any impacts to the Roysse well; however, several nearby domestic wells are also threatened, and the Yosemite Westgate Hotel Well was impacted with 6.8 µg/L of toluene at that time.</p> <p>No monitoring or remediation appear to have been conducted by the responsible party at the site since early 2009, with the exception of the groundwater samples taken in March 2010. These samples, however, were collected and reported by Regional Board staff, and not the responsible party. It should be noted that this claimant had virtually expended the full amount that they were eligible to receive from the Cleanup Fund as of April 2009. The most recent document in the file is a Notice of Violation dated November 14, 2011.</p>
KIRKWOOD MEADOWS PUBLIC UTILIT (KIRKWOOD) WELL 02	0210002-002	ACTIVE RAW	886	101	HISTORICAL	KIRKWOOD POWER HOUSE	T0600300005	0.1 mi W	Diesel	Well used for drinking water supply	CENTRAL VALLEY RWQCB (REGION 5S)	Open - Verification Monitoring	<p>The closure review for this site reads in part, "Municipal Wells Impacted - KMPUD15 Well 2 previously impacted," and "Municipal Well Already Impacted Previously impacted and recent contamination needs to be evaluated for its potential source." The Well Impact Description in Geotracker is as follows, "Kirkwood municipal well, previously impacted by MTBE (<5ppb)."</p> <p>CDPH data in GeoTracker show a single historical detection in Well 02 of tert-butyl alcohol (TBA15) at 2.3 µg/L on 6/13/2006. No MTBE or BTEX compounds appear to have been reported in the data. Additionally, PCE17 and carbon tetrachloride were detected at 4.1 µg/L and 5.7 µg/L, respectively, on 9/6/2011. Historical monitoring data from the Fourth Quarter 2011 Groundwater Monitoring Report show MTBE present in Well 2 at 0.59 µg/L on 8/23/1999, and no detections of petroleum hydrocarbons or other fuel oxygenates since. Per the Fourth Quarter 2011 Groundwater Monitoring Report, "Fuel oxygenate compounds (FOCs18), including MTBE, have not been reported at concentrations equal to or greater than their respective reporting limits (RL)19 for each of the groundwater samples analyzed from the site since 2004."</p> <p>Diesel contamination remains in the subsurface, and contaminant trends appear to be increasing in the vicinity of MW-1. The regulator has asked the site consultant for a plan to remediate the source area. However, no production wells appear to be currently impacted by this release, and no petroleum impacts appear to have been documented in the last 6 years. The presence of chlorinated solvents in Well 2, if confirmed in future rounds of sampling, may require an additional investigation. A separate Cleanup Program case, KIRKWOOD MEADOWS SKI AREA (SLO600323259), has been opened at the same address; however, no information or documents have been uploaded regarding this case. Case being considered for closure - well no longer impacted.</p>

Table R5-1: Central Valley RWQCB LUFT Cases Impacting Municipal Wells Evaluation (Continued)

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	NOTES (Post Regulator review)
YOSEMITE SPRING PARK UTIL CO (COARSEGOLD) SITE 37A	2010005-045	ACTIVE UNTREATED	1,877	5,921	HISTORICAL	YOSEMITE LAKES TRADING POST	T0603900194	0.1 mi SSW	Gasoline	Aquifer used for drinking water supply, Well used for drinking water supply	CENTRAL VALLEY RWQCB (REGION SF)	Open - Remediation	<p>The Risk Information page in GeoTracker lists three (3) wells as impacted. The Well Impact Description reads, "Well head treatment in place for two municipal supply wells. Third well not in use.[sic] Funded by DHS."</p> <p>The remediation system for this site has been inactive since 2006.</p> <p>Per the CDPH data in GeoTracker, MTBE was last reported in Well 37A above the secondary MCL in September 2008, when it was detected at 5.33 µg/L, and data for well 40A show no detections above the secondary MCL since 2005, when the record begins.</p> <p>Documentation in GeoTracker shows that water from wells 37a and 40a is being treated by the same treatment system, and that the RWQCB has asked the local water company not to use wells 11a and 18a, as active pumping at these wells could draw MTBE closer to them. Both wells 11a and 18a are listed as inactive in the available CDPH well data.</p> <p>The most recent report for the site, "Results of Additional Groundwater Sampling - August 2011 and Off-Site Property Owner Survey," is dated September 28, 2011. The report states that, as of January 2011, MTBE concentrations in all monitoring wells were below the primary MCL of 13 µg/L, but still exceeded the secondary MCL of 5 µg/L in six (6) deep monitoring wells. However, by May 2011, the MTBE concentration in well MW-103 had increased to 38 µg/L. By August 2011, MTBE concentrations had again decreased, but still exceeded the primary MCL in wells MW-101 and MW-102 at 19 µg/L and 14 µg/L, respectively.</p> <p>A note within the Petition Page for this case in GeoTracker reads, "RB5 F issued a letter stating that closure was appropriate after receiving latest sample water results. 1/2011".</p>
DINUBA, CITY OF (DINUBA) WELL 01	5410002-001	INACTIVE UNTREATED	6,184	21,237	CURRENT	GAS-N-SAVE	T0610700350	0.2 mi SW	Gasoline	Aquifer used for drinking water supply	CENTRAL VALLEY RWQCB (REGION SF)	Open - Remediation	<p>The most recent CDPH data available for the City of Dinuba Well 1 show 1,900 µg/L MTBE on 8/10/2010. The closure review for this site reads in part, "Municipal Wells Impacted - Well No. 1, a standby municipal well impacted by MTBE. Sampled monthly by City of Dinuba. Other municipal wells further downgradient threatened. Municipal Wells Potentially Impacted - Well No. 14, Well No. 16, proposed well No. 7."</p> <p>This site may be part of a larger investigation area or commingled plume; however, no details are provided. Staff letters refer to the responsible parties as the "Settling Parties," and the consultants as the "Joint Remediation Group." Additionally, staff letters are copied to Chevron, Shell, and ConocoPhillips; however, no open cases associated with these companies appear to be nearby.</p> <p>To date, no documents have been uploaded to GeoTracker by the responsible parties or their consultants.</p>

Table R5-1: Central Valley RWQCB LUFT Cases Impacting Municipal Wells Evaluation (Continued)

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	NOTES (Post Regulator review)
SEVILLE WATER CO (SEVILLE) WELL 01	5400550-001	ACTIVE UNTREATED	77	400	HISTORICAL	SEVILLE MARKET	T0610700318	0.2 mi SE	Gasoline	Aquifer used for drinking water supply	TULARE COUNTY LOP	Open - Remediation	<p>The closure review for this site reads in part, "Municipal Wells Impacted - BENZENE DETECTED IN SEVILLE COMMUNITY WATER DISTRICT WELL #1 AT 4.7 PPB DURING MONITORING EVENT 6/25/09 AND 1.8 PPB 3/24/10." Additionally, the closure review reports, "TRACE DETECTIONS OF PETROLEUM HYDROCARBONS DETECTED IN TWO NEARBY DOMESTIC WELLS IN 1999 TO 2002 AND AGAIN IN 1ST QTR 2010."</p> <p>The Fourth Quarter 2011 Progress and 2011 Summary Report for the site, located on GeoTracker, state that the depth of the regional unconfined groundwater is historically reported to be approximately 50 feet bgs, and that a perched groundwater zone has been observed at this site at a depth ranging from 16 to 30 feet bgs. Free product has been reported at this site as recently as the first quarter of 2011; however, none was observed during the fourth quarter 2011 monitoring event. TPHg, benzene, and MTBE were reported during the fourth quarter monitoring event at concentrations of up to 47,000 µg/L, 7,500 µg/L and 38 µg/L, respectively. The site has undergone several rounds of remediation via mobile dual phase extraction (DPE) events and a permanent vapor extraction system (VES). The remediation system was temporarily shut down in the third quarter 2010. Data from remediation conducted onsite have shown lowered concentrations of TPH in the soil by orders of magnitude, and the concentrations of benzene and MTBE in the soil to below detection limits. However, in the most recent 5-year review uploaded to GeoTracker by the Cleanup Fund, it was recommended that the remediation system be expanded, restarted, and run until concentrations of petroleum constituents fall sharply. No impacts to 3 wells since Sept. 2010.</p>
DIXON 76 (DIXON) WELL 01	4800732-002	ACTIVE TREATED	1	150	HISTORICAL	BP #11245	T0609500347	0.0 (on site well)	Gasoline	Well used for drinking water supply	SOLANO COUNTY LOP	Open - Remediation	<p>The closure review for this case states in part, "Municipal Wells Impacted - Onsite small public water supply well has been impacted from the plume. Periodic low detections of fuel constituent are reported in the water supply influent samples." The well impact description in GeoTracker reads, "onsite water supply well reported 2.5 ppb MTBE during the 10/2002 sampling event. Water supply well on treatment system."</p> <p>Per the Third and Fourth Quarters 2001 Semi-Annual Groundwater Monitoring Report present in GeoTracker, the site has undergone periodic groundwater monitoring since 1992. Analytical results for the onsite water supply well show periodic low level detections of petroleum constituents; most recently, of GRO at 93 µg/L in January 2010. As of July 2011 GRO, benzene, MTBE, and TBA were detected in monitoring wells at up to 65,000 µg/L, 6,100 µg/L, 600 µg/L and 5,000 µg/L, respectively.</p> <p>The regulator for this case approved a pilot test for an AS/SVE pilot test on December 12, 2011. No impacts to well since Jan. 2010.</p>
UPPER LAKE COUNTY WATER DISTRICT (UPPER LAKE) Treatment Plant- WELL 01	1710009-003	ACTIVE TREATED	373	989	CURRENT	POPPIE RESIDENCE	T0603300077	.4 mi N	Gasoline, BTEX, Fuel Oxygenates	Well used for drinking water supply	CENTRAL VALLEY RWQCB (REGION 55)	Open - Site Assessment	There are two wells impacted by the Poppie Residence case: the Meadow Pointe Residential Park well and the backup well. Constituent of concern: MTBE. Money problems have caused delays in progress of LUFT case.
UPPER LAKE COUNTY WATER DISTRICT (UPPER LAKE) Treatment Plant- WELL 02	1710009-004	ACTIVE TREATED	373	989	CURRENT	POPPIE RESIDENCE	T0603300077	.4 mi N	Gasoline, BTEX, Fuel Oxygenates	Well used for drinking water supply	CENTRAL VALLEY RWQCB (REGION 55)	Open - Site Assessment	There are two wells impacted by the Poppie Residence case: the Meadow Pointe Residential Park well and the backup well. Constituent of concern: MTBE. Money problems have caused delays in progress of LUFT case.
CAL WATER SERVICE #10	Data Not Provided	Data Not Provided	Data Not Provided	Data Not Provided	CURRENT	GOLD EAGLE MARKET #2	T0611500191	Data Not Provided	Gasoline	Aquifer Used for Drinking Water Supply	CENTRAL VALLEY RWQCB (REGION 55)	Open - Verification Monitoring	There is one municipal well impacted by the Gold Eagle Market #2 case. Constituent of Concern: MTBE. The Cal Water Service #10 Well has a wellhead treatment system being implemented.

NOTES:
 The "unknown" well reported as impacted by the Bartlett Petroleum LUFT site on the Draft version of this report was requested to be removed from the list by the regulator.
 "NA" stands for Not Available. In most cases, this is because well data are not available in GeoTracker, or the impacted well is not identified in GeoTracker.

-Additional Case(s) and associated well information provided by Region 5 that were not within the Draft Impacted Municipal Wells Report.

Table R5-2: Central Valley RWQCB LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
VACATION STATION	T0604306017	Unknown	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5F)	-120.057864	37.817887	Unknown	No additional information currently available.
BARTLETT PETROLEUM	T0604391642	1 (supply well)	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5F)	-119.946520	37.460910	Current	One well is impacted. No well name provided. Constituents of concern: MTBE. Well has carbon wellhead treatment.
MARIPOSA AIRPORT	T0604300068	0	Open - Verification Monitoring	CENTRAL VALLEY RWQCB (REGION 5F)	-120.040267	37.509648	NA	No wells impacted.
BRADLEYS EXXON	T0603900115	0	Open - Site Assessment	CENTRAL VALLEY RWQCB (REGION 5F)	-119.655629	37.330973	NA	No wells impacted.
BRADLEY'S EXXON STATION	SL372544607	0	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5F)	-119.656155	37.330857	NA	No wells impacted.
CHEVRON (RV JENSEN INC)	T0601991433	1 (supply well)	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5F)	-119.485384	37.075617	Current	Well impacted. Concentrations below primary and secondary MCL. Well owner has been notified.
MR GAS OAKHURST	T0603900196	1 (supply well)	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5F)	-119.654841	37.331378	Current	Well user receiving treated water.
SEQUOIA FOREST INDUSTRIES	T0603900104	0	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5F)	-119.460746	37.185118	NA	No wells impacted.

Table R5-2: Central Valley RWQCB LUFT Cases Impacting Domestic Wells Evaluation (Continued)

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
SEQUOIA FOREST PRODUCTS	T0603900164	0	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5F)	-119.495271	37.234506	NA	No wells impacted
SHAVER LAKE FOOD MART	T0601900713	2 (supply wells)	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5F)	-119.318857	37.107055	Current	Both wells have wellhead treatment.
EAST REEDLEY STORE	T0601900007	1 (supply well)	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5F)	-119.394407	36.603985	Current	One contaminant, TBA, detected below health protection criteria.
BUY-N-SPLIT MARKET	T0603193726	1 (supply well)	Open - Site Assessment	CENTRAL VALLEY RWQCB (REGION 5F)	-119.807400	36.293328	Historical	Impacted well has been destroyed. There are no wells currently impacted.
CURRY BROS. EXXON	T0603100081	1 (supply well)	Open - Site Assessment	CENTRAL VALLEY RWQCB (REGION 5F)	-119.808294	36.342579	Historical	Site well has not been impacted since 2007.
SEQUOIA GROCERY	T0610700237	2 (supply wells)	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5F)	-119.056874	36.346056	Current	Only two domestic wells are currently impacted. Alternate water is supplied.
QUICK TRIP #3	T0603100094	0	Completed - Case Closed (as of 05/21/2012)	CENTRAL VALLEY RWQCB (REGION 5F)	-119.562570	36.098189	NA	Site was closed on 5/21/2012
JERRY'S AUTOMOTIVE	T0602900022	2 (supply wells)	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5F)	-118.703865	35.728799	Current	2 Wells impacted. All users have alternative supply of water.

Table R5-2: Central Valley RWQCB LUFT Cases Impacting Domestic Wells Evaluation (Continued)

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
JIFFY FOOD STOP	T0601900683	0	Open - Site Assessment	CENTRAL VALLEY RWQCB (REGION 5F)	-119.790984	36.650300	NA	No wells impacted.
PINEHURST TRADING POST	T0601900025	1 (supply well)	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5F)	-119.016128	36.697020	Current	Impacted well has well head treatment.
ANTLERS SHELL/SUBWAY	T0608959341	1 (supply well)	Open - Site Assessment	CENTRAL VALLEY RWQCB (REGION 5R)	-122.382061	40.892179	Current	User is receiving alternate water supply
BOB'S EXXON	T0608900064	0	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5R)	-122.281277	40.384379	NA	No wells impacted.
BURNS BROS TRUCK PLAZA	T0610300046	0	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5R)	-122.198654	39.903041	NA	No domestic wells impacted.
JIMS FOOD & LIQUOR, FORMER CHEAPER #152	T0610300049	0	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5R)	-122.232686	40.177122	NA	No wells impacted.
RED BARN	T0603593601	0	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5R)	-121.130700	41.132300	NA	No wells impacted.
GOLD HILL YARD	T0606100194	1 (supply well)	Open - Verification Monitoring	CENTRAL VALLEY RWQCB (REGION 5S)	-121.189681	38.912181	Historical	Well not impacted since 2009.

Table R5-2: Central Valley RWQCB LUFT Cases Impacting Domestic Wells Evaluation (Continued)

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
OLIVER'S GROCERIES	T0606100304	1 (supply well)	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5S)	-121.020370	38.969068	Current	No well name provided. Constituent of concern: TPHg. The concentration results might be due to storage vessels.
CISCO GROVE CHEVRON	T0606100299	1 (supply well)	Open - Verification Monitoring	CENTRAL VALLEY RWQCB (REGION 5S)	-120.545467	39.308941	Historical	Case being evaluated for closure. Well historically impacted and no recent detections.
KINGVALE SHELL STATION	T0606103313	0	Open - Verification Monitoring	CENTRAL VALLEY RWQCB (REGION 5S)	-120.445043	39.313677	NA	Case pending closure. No wells were impacted.
SUGAR BOWL AREA PARKING GARAGE	T0606100106	0	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5S)	-120.340064	39.313591	NA	No wells impacted.
EXPRESS LANE CHEVRON	T0606700822	5 (supply wells)	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5S)	-121.294604	38.253303	Historical	Four out of the 5 wells impacted have been destroyed. The remaining well is no longer impacted.
Express Lane Chevron - Case 2	T10000000401	5 (supply wells)	Open - Assessment & Interim Remedial Action	CENTRAL VALLEY RWQCB (REGION 5S)	-121.294604	38.253303	Historical	Four out of the 5 wells impacted have been destroyed. The remaining well is no longer impacted.
COUNTRYSIDE MARKET	T0607700616	1 (supply well)	Open - Site Assessment	CENTRAL VALLEY RWQCB (REGION 5S)	-121.170831	37.966972	Current	One well impacted. No well name provided. Constituents of concern: 1,2-DCA. Well has wellhead treatment system.
FRANK'S ONE STOP	T0607700558	8 (supply wells)	Open - Verification Monitoring	CENTRAL VALLEY RWQCB (REGION 5S)	-121.251930	37.797032	Current	Eight wells impacted. No well names provided. Constituents of Concern: MTBE. Domestic wells have wellhead treatment on them.

Table R5-2: Central Valley RWQCB LUFT Cases Impacting Domestic Wells Evaluation (Continued)

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
NEILSEN'S MINI MART	T0610900121	2 (1 irrigation and 1 domestic supply well)	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5S)	-120.257565	37.823989	Current	Two wells are impacted, one domestic supply well and one irrigation well. No well names provided. Constituents of Concern: MTBE. Concentrations for MTBE are below MCL.
FORMER SERVICE STATION	T0601300800	1 (supply well)	Open - Verification Monitoring	CENTRAL VALLEY RWQCB (REGION 5S)	-121.805896	38.004430	Historical	No well name provided. Constituents of Concern: TPHg & PCE. Well was last sampled in 06/2009 and is currently out of service. No additional information was provided.
GOLD RUN 76	T0606100033	1 (supply well)	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5S)	-120.857295	39.174320	Unknown	No well name provided. Constituents of Concern: MTBE, benzene. There was recent access denied so could not sample well. Don't know if there are continued impacts to the well or not.
PILOT TRAVEL CENTER NO. 168 (Former BOSSE & SON)	T0611300201	1 (supply well)	Open - Assessment & Interim Remedial Action	CENTRAL VALLEY RWQCB (REGION 5S)	-121.950729	38.862654	Historical	Case being evaluated for closure. Well has not been impacted since 2010.
PINE GROVE STATION	T0600500047	0	Open - Verification Monitoring	CENTRAL VALLEY RWQCB (REGION 5S)	-120.654280	38.412340	NA	No wells impacted.
POPPIE RESIDENCE	T0603300077	4 (supply well)	Open - Site Assessment	CENTRAL VALLEY RWQCB (REGION 5S)	-122.911186	39.162366	Current	Four wells impacted. Constituent of Concern: MTBE. Money problems have caused delay for site. This site additionally impacts 2 municipal wells.
RANCH MARKET	T0607700477	0	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5S)	-120.940436	37.744349	NA	No wells impacted.
VIC'S CHEVRON	T0610900008	0	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5S)	-120.384412	37.990980	NA	No wells impacted.

Table R5-2: Central Valley RWQCB LUFT Cases Impacting Domestic Wells Evaluation (Continued)

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
EAST NICOLAUS MARKET	T0610100072	1 (supply well)	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5S)	-121.544258	38.910370	Current	One well impacted. No well name provided. Constituents of concern: MTBE and TAME. Well has wellhead treatment system.
STRAWBERRY VALLEY GENERAL STORE	T0611500080	2 (supply wells)	Open - Site Assessment	CENTRAL VALLEY RWQCB (REGION 5S)	-121.107831	39.563485	Historical	Two wells were impacted. No well names provided. Constituents of Concern: TPHg, BTEX, MTBE. The 2 wells will be destroyed when the 2 replacement wells are installed.
SACRAMENTO MAINTENANCE YARD	T0611300022	1 (supply well)	Open - Site Assessment	CENTRAL VALLEY RWQCB (REGION 5S)	-121.537411	38.600588	Historical	One well impacted. No well name provided. Constituent of concern: TBA. Well has not been in use for 10 years.
SHELL SS CASE #2	T0601300807	1 (supply well)	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5S)	-121.806152	38.004849	Historical	Impacted Well is the same as that is impacted by Former Service Station case. No well name provided. Constituents of Concern: TPHg & PCE. Well was last sampled in 06/2009 and is currently out of service. No additional information was provided.
CRYSTAL VIEW SS	T0601700042	2 (supply wells)	Open - Remediation	CENTRAL VALLEY RWQCB (REGION 5S)	-120.576163	38.763347	Current	Two wells are impacted. No well names provided. Constituents of Concern: Benzene, and MTBE. The last sample from one of the wells was ND. No additional information was provided.

Notes:

-Additional Case(s) and associated well information provided by Region 5 that were not within the Draft Impacted Domestic Wells Report.

Lahontan Regional Water Quality Control Board (Region 6)

Table R6-1: Lahontan RWQCB LUFT Cases Impacting Municipal Wells Evaluation

Table R6-2: Lahontan RWQCB LUFT Cases Impacting Domestic Wells Evaluation

Table R6-1: Lahontan RWQCB LUFT Cases Impacting Municipal Wells Evaluation

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	Notes (Post Regulator review)
Caillier Water System (Boron) Well 2	3600062-002	ACTIVE UNTREATED	6	25	HISTORICAL	FOUR CORNERS CHEVRON	T0607100862	0.1 mi N	Gasoline, Fuel Oxygenates	Aquifer used for drinking water supply	LAHONTAN RWQCB (REGION 6T)	Open - Verification Monitoring	<p>These two sites are located across the street from each other and in close proximity to several water supply wells. The sites appear to have previously been managed together, with report titles containing both site names, but more recent reports are submitted separately for each site by the same consultant. These sites appear to have never received commingled plume status. The Fourth Quarter Progress Report for the Four Corners Unocal-Branded Service Station, dated December 9, 2011, states, "...regional unconfined groundwater is known to be present beneath the site at a depth of approximately 200 feet below grade (fbg), with the direction of groundwater flow to the northeast toward the Harper Dry Lake..." Additionally, two shallower, perched aquifers are reported to underlie portions of both sites.</p> <p>Reports for both sites indicate that "Domestic Well 1" was closed by the county. Diagrams show the location of this well to be the same as Caillier Water System (Boron) Well 2 as shown in GeoTracker. Available CDPH data in GeoTracker for this well do not cover gasoline constituents and show a gap in sampling from September 2004 until March 2011, which may coincide with the well having been shut down. Language present in reports for both sites states, "Laboratory analysis of water samples collected from the water supply wells in the area does not indicate detectable volatile organic compounds."</p> <p>Analytical data for Domestic Well 1 (Caillier Water System Well 2) present in the Fourth Quarter 2011 Progress Report for the Four Corners Chevron-Branded Service Station show no detections of petroleum constituents since March 2000, when 0.68 µg/L of xylenes were detected in the well. Prior to that event, low levels of benzene, toluene and total xylenes were detected in well water in June 1999; however, these detections were below secondary MCLs. Finally, in March 1999 TPHg and MTBE were detected at 50 µg/L and 6.1 µg/L, respectively. Limited analytical data are also present in this report for a well identified as DW-2 which corresponds to the well identified in GeoTracker as Caillier Water System (Boron) Well 01. The analytical data for this well cover only four monitoring events from December 2000 to June 2001. No detections of petroleum constituents are indicated during this time frame for this well.</p>
						FOUR CORNERS UNOCAL	T0607100716	0.1 mi N	Gasoline, Fuel Oxygenates	Aquifer used for drinking water supply	LAHONTAN RWQCB (REGION 6T)		

Table R6-1: Lahontan RWQCB LUFT Cases Impacting Municipal Wells Evaluation (continued)

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	Notes (Post Regulator review)
CA CORRECTIONAL CENTER (LITCHFIELD) WELL 04	1810800-002	INACTIVE UNTREATED	601	4,500	CURRENT	CALIFORNIA CORRECTIONAL CENTER	T0603500032	0.1 mi S	Gasoline and Chlorinated Solvents	Aquifer used for drinking water supply	LAHONTAN RWQCB (REGION 6T)	Open - Assessment & Interim Remedial Action	<p>The Closure Review for this site indicates that groundwater is already impacted with MTBE 65,000 ppb. It also indicated a municipal well was already impacted; stating, in part, "Municipal Wells Potentially Impacted - On-site prison well # 4 shut down." According to GeoTracker, Nine (9) CDPH listed wells are present within 1/2 mile of this site.</p> <p>Available documents regarding this site indicate that the former UST pit is located approximately 220 feet from well #4. Well #4 is screened from 150' to 410' bgs, and the other supply wells present at the facility are reported to be screened in the lower aquifer and range in depth from 340' to 660' bgs. The most recent CDPH data for well #4 are dated March 9, 2005, when MTBE was detected at 6.2 µg/L. CDPH data also show the well as having been impacted with trichloroethylene and tetrachloroethylene at concentrations historically as high as 12 µg/L and 9.2 µg/L, respectively, on 8/5/2002, and the most recent detections being made on March 9, 2005, with trichloroethylene and tetrachloroethylene being reported at 8.9 µg/L and 1.6 µg/L, respectively.</p> <p>The most recent report available in GeoTracker for this site is the First Half 2011 Groundwater Monitoring Report dated April 19, 2011. At the time it was reported that the groundwater flow direction for this location was to the southwest at a gradient of 0.03 and 0.02 ft/ft for the shallow and deep zones, respectively. Analytical results present in the report show that MTBE was still present in the subsurface at up to 16,000 µg/L, and TBA was still present at up to 14,000 µg/L. BTEX compounds were also detected at lower levels, as was TAME. Additionally, TPHg was at first indicated to be present at up to 3,800 µg/L per Method 8260B; however, the laboratory report stated that, when the results were examined, these detections in the gasoline range were actually due to the presence of tetrachloroethylene. The site has historically undergone in-situ chemical oxidation, with the most recent event in August 2010. The injections of oxygen releasing compound appear to have aided in the degradation the gasoline constituents present in the subsurface; however, no follow-up reports have been posted to GeoTracker since the First Half 2011 Groundwater Monitoring Report. In the report's Discussion and Recommendations section it was recommended that supply well #4 be properly destroyed to eliminate it as a possible conduit for contamination transport.</p>
SEVEN ACRES CAFÉ (LITCHFIELD) WELL 01	1800544-001	INACTIVE UNTREATED	1	25	Potential	SEVEN ACRES MOBILE HOME PARK	T0603500021	0.1 mi S/SW	Gasoline	Well used for drinking water supply	LAHONTAN RWQCB (REGION 6T)	Open - Remediation	No concentrations of petroleum hydrocarbon constituents shown in the DPH Water Quality Data available in GeoTracker. Does not appear that this well has been impacted.
SEVEN ACRES GARAGE & MHP (LITCHFIELD) WELL 01	1800568-001	INACTIVE RAW	14	24	Potential	SEVEN ACRES MOBILE HOME PARK	T0603500021	0.1 mi E	Gasoline	Well used for drinking water supply	LAHONTAN RWQCB (REGION 6T)	Open - Remediation	Most Recent DPH Water Quality Data are from 11/29/1988, with the exception of Nitrates being sampled for on 7/26/2000. All samples collected were non-detect except for the Nitrate (NO3) sample in 2000, in which a detection of 2 mg/L was reported. Well tested for COC; benzene and 1,2-DCA were both below detectable levels.

NOTES:
 The "JANESVILLE PAYLESS GAS" case that was originally on this list was moved to the "Impacted Domestic Wells" table.
 "NA" stands for Not Available. In most cases, this is because well data are not available in GeoTracker, or the impacted well is not identified in GeoTracker.
 Unknown means that the impacted well is not identified in GeoTracker, or that the time frame for impact to the well could not be determined based on the available information.

 - Region 6 requested that this case be added to the list of LUFT cases impacting municipal wells

Table R6-2: Lahontan RWQCB LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
JOT-EM-DOWN	T0602724992	0	Open - Remediation	LAHONTAN RWQCB (REGION 6T)	-118.009644	36.286315	NA	Domestic wells are cross gradient to groundwater plume. Groundwater plume is stable, and case is being evaluated for closure under the Low-Threat UST Closure Policy.
ONESTOP	T0602791231	Unknown	Closed	LAHONTAN RWQCB (REGION 6T)	-118.005524	36.281541	Historic	This site was closed recently.
LEE'S FRONTIER DELI & GAS	T0602700088	0	Open - Remediation	LAHONTAN RWQCB (REGION 6T)	-118.058138	36.584037	NA	There are four domestic wells near the site.
WOODFORDS STATION	T0600300013	0	Open - Eligible for Closure	LAHONTAN RWQCB (REGION 6T)	-119.808450	38.792792	NA	The well was replaced in 1999 with a well drilled to a greater depth. All COCs have been below detectable levels in the replacement well.
JANESVILLE PAYLESS GAS	T0603500013	2 (supply wells)	Open - Verification Monitoring	LAHONTAN RWQCB (REGION 6T)	-120.532642	40.303647	Current	This LUFT case was originally listed within the impacted Municipal Wells table. The regulator requested that this case be moved to this impacted domestic well table as there is no known impact to municipal wells. Based on monitoring conducted in 2012, two domestic wells contain MTBE. One on-site domestic well contained less than 1 ppb MTBE in 2012. One off-site domestic well shows an increase in MTBE concentration from about 1 to about 5 ppb over the time period from 2009 to 2012. Water Board staff interpret the off-site monitoring well to be affected by a localized detached groundwater plume.

-LUFT Case(s) that were originally within impacted municipal well table and requested by Region 6 to be moved to impacted domestic wells table

Colorado River Basin Regional Water Quality Control Board (Region 7)

Table R7-1: Colorado River Basin RWQCB LUFT Cases Impacting Municipal Wells
Evaluation

Table R7-2: Colorado River Basin RWQCB LUFT Cases Impacting Domestic Wells Evaluation

Table R7-1: Colorado River Basin RWQCB LUFT Cases Impacting Municipal Wells Evaluation

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	NOTES (Post Regulator review)
BLYTHE - CITY OF (BLYTHE) WELL 11	3310003-006	ACTIVE RAW	3,398	12,155	POTENTIAL	LOVEKIN SELF SERVE	T0606500785	0.5 mi N-NW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Remediation	The closure review for the cases that comprise Commingled Plume 3 reads in part: "No known production wells are currently or immediately threatened by the release at CP-3."
						UNOCAL STATION #5882	T0606500764	0.5 mi NE	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Remediation	
						CHEVRON #9-1045	T0606500774	0.5 mi NE	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
BLYTHE - CITY OF (BLYTHE) WELL 07	3310003-003	STANDBY RAW	3,398	12,155	POTENTIAL	LOVEKIN SELF SERVE	T0606500785	0.1 mi E	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Remediation	
						UNOCAL STATION #5882	T0606500764	0.1 mi E	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Remediation	
						CHEVRON #9-1045	T0606500774	0.1 mi E-NE	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
BLYTHE - CITY OF (BLYTHE) WELL 10	3310003-005	INACTIVE RAW	3,398	12,155	POTENTIAL	D AND L AUTO PARTS	T0606500885	NA	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						COATS AND COMPANY	T0606500886	NA	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						LOVE'S HAY SALES	T0606500887	NA	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
BLYTHE - CITY OF (BLYTHE) WELL 11	3310003-006	ACTIVE RAW	3,398	12,155	POTENTIAL	D AND L AUTO PARTS	T0606500885	0.1 mi N-NW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						COATS AND COMPANY	T0606500886	0.2 mi NW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						LOVE'S HAY SALES	T0606500887	0.2 mi NW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
BLYTHE - CITY OF (BLYTHE) WELL 07	3310003-003	STANDBY RAW	3,398	12,155	POTENTIAL	COATS AND COMPANY	T0606500886	0.3 mi SW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						LOVE'S HAY SALES	T0606500887	0.3 mi SW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						D AND L AUTO PARTS	T0606500885	0.3 mi SW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
BLYTHE - CITY OF (BLYTHE) WELL 13	3310003-008	STANDBY RAW	3,398	12,155	POTENTIAL	D AND L AUTO PARTS	T0606500885	0.4 mi NE	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						COATS AND COMPANY	T0606500886	0.5 mi NE	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						LOVE'S HAY SALES	T0606500887	0.5 mi NE	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	

Table R7-1: Colorado River Basin RWQCB LUFT Cases Impacting Municipal Wells Evaluation (continued)

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	NOTES (Post Regulator review)
BLYTHE - CITY OF (BLYTHE) WELL 10	3310003-005	INACTIVE RAW	3,398	12,155	POTENTIAL	ROLO'S COLLISION DIAGNOSTIC	T0606500794	NA	Gasoline	Under Investigation	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	The closure review for the cases that comprise Commingled Plume 5 reads in part: " No known production wells in the site vicinity are currently or immediately threatened by hydrocarbons."
						VACANT LOT	T0606500879	NA	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						TEDDY S DONUTS	T0606500882	NA	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						VACANT LOT (BLYTHE DRUG)	T0606500883	NA	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						ROSITA'S RESTAURANT PRKING LOT	T0606500884	NA	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
BLYTHE - CITY OF (BLYTHE) WELL 11	3310003-006	ACTIVE RAW	3,398	12,155	POTENTIAL	VACANT LOT (BLYTHE DRUG)	T0606500883	0.2 mi NW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						ROSITA'S RESTAURANT PRKING LOT	T0606500884	0.2 mi NW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						TEDDY S DONUTS	T0606500882	0.2 mi NW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						VACANT LOT	T0606500879	0.2 mi NW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						ROLO'S COLLISION DIAGNOSTIC	T0606500794	0.3 mi W-NW	Gasoline	Under Investigation	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
BLYTHE - CITY OF (BLYTHE) WELL 07	3310003-003	STANDBY RAW	3,398	12,155	POTENTIAL	TEDDY S DONUTS	T0606500882	0.3 mi SW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						VACANT LOT (BLYTHE DRUG)	T0606500883	0.4 mi SW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						ROSITA'S RESTAURANT PRKING LOT	T0606500884	0.4 mi SW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						VACANT LOT	T0606500879	0.4 mi SW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						ROLO'S COLLISION DIAGNOSTIC	T0606500794	0.5 mi SW	Gasoline	Under Investigation	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
BLYTHE - CITY OF (BLYTHE) WELL 13	3310003-008	STANDBY RAW	3,398	12,155	POTENTIAL	VACANT LOT	T0606500879	0.4 mi N-NE	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						VACANT LOT (BLYTHE DRUG)	T0606500883	0.4 mi N-NE	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						ROSITA'S RESTAURANT PRKING LOT	T0606500884	0.4 mi N-NE	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						ROLO'S COLLISION DIAGNOSTIC	T0606500794	0.4 mi N	Gasoline	Under Investigation	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						TEDDY S DONUTS	T0606500882	0.4 mi N-NE	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	

Table R7-1: Colorado River Basin RWQCB LUFT Cases Impacting Municipal Wells Evaluation (continued)

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	NOTES (Post Regulator review)
BLYTHE - CITY OF (BLYTHE) WELL 11	3310003-006	ACTIVE RAW	3,398	12,155	POTENTIAL	CALLAN OIL	T0606500783	0.3 mi NW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	The closure review for the cases that comprise Commingled Plume 6 reads in part: " No known production wells are currently or immediately threatened by the release at CP-6."
						JERRY ALLEN INSURANCE	T0606500881	0.3 mi NW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						JOY IVERSON HARTWICK TRUST	T0606500780	0.4 mi NW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						FIRST INTERSTATE BANK	T0606500739	0.4 mi W-NW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						PROVIDENT FEDERAL SAVINGS	T0606500745	0.4 mi W-NW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						EZ SERVE #100808	T0606500744	0.4 mi NW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						BANK OF AMERICA (VACANT LOT)	T0606500750	0.5 mi W-NW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
BLYTHE - CITY OF (BLYTHE) WELL 13	3310003-008	STANDBY RAW	3,398	12,155	POTENTIAL	FIRST INTERSTATE BANK	T0606500739	0.4 mi N-NW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						PROVIDENT FEDERAL SAVINGS	T0606500745	0.4 mi N-NW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						CALLAN OIL	T0606500783	0.4 mi N	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						JERRY ALLEN INSURANCE	T0606500881	0.4 mi N	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						BANK OF AMERICA (VACANT LOT)	T0606500750	0.4 mi NW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						JOY IVERSON HARTWICK TRUST	T0606500780	0.4 mi N	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						EZ SERVE #100808	T0606500744	0.4 mi N-NW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
BLYTHE - CITY OF (BLYTHE) WELL 10	3310003-005	INACTIVE RAW	3,398	12,155	POTENTIAL	FIRST INTERSTATE BANK	T0606500739	NA	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						EZ SERVE #100808	T0606500744	NA	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						PROVIDENT FEDERAL SAVINGS	T0606500745	NA	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						BANK OF AMERICA (VACANT LOT)	T0606500750	NA	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						JOY IVERSON HARTWICK TRUST	T0606500780	NA	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						CALLAN OIL	T0606500783	NA	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						JERRY ALLEN INSURANCE	T0606500881	NA	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	

Table R7-1: Colorado River Basin RWQCB LUFT Cases Impacting Municipal Wells Evaluation (continued)

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	NOTES (Post Regulator review)
BLYTHE - CITY OF (BLYTHE) EB WELL 05	3310003-029	STANDBY RAW	3,398	12,155	POTENTIAL	TEXACO STATION QUICK CHECK	T0606500759	0.2 mi SE	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	The closure review for the cases that comprise Commingled Plume 9 reads in part: " No known production wells are currently or immediately threatened by the release at CP-9."
						SHELL MINI MART	T0606500761	0.2 mi SE	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						MOBIL #18 H57	T0606500795	0.2 mi E-SE	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						DANNY BARNES AUTOMOTIVE	T0606500758	0.2 mi SE	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						VALUE SERVICE STATION	T0606500792	0.3 mi SE	Gasoline	Under Investigation	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						FLYING INN HOTEL	T0606500754	0.4 mi E-SE	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Inactive	
BURTON S TRAILER PARK (BLYTHE) SOUTH WELL	3301069-001	INACTIVE RAW	109	305	POTENTIAL	FLYING INN HOTEL	T0606500754	0.3 mi SW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Inactive	
						VALUE SERVICE STATION	T0606500792	0.4 mi SW	Gasoline	Under Investigation	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						MOBIL #18 H57	T0606500795	0.4 mi SW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						DANNY BARNES AUTOMOTIVE	T0606500758	0.4 mi SW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						TEXACO STATION QUICK CHECK	T0606500759	0.4 mi SW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
						SHELL MINI MART	T0606500761	0.5 mi SW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	
BLYTHE - CITY OF (BLYTHE) WELL 01 - ABANDONED 2001	3310003-001	ABANDONED	3,398	12,155	HISTORICAL	RVSD CO ROAD YARD BLYTHE	T0606500777	0.2 mi SW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	The closure review for this site reads in part, "Municipal Well Already Impacted City of Blythe Well 01 is located 1278 feet from this site abandoned in 2001." With well 01 having been abandoned in 2001, it no longer appears to be an impediment to closure. However, petroleum hydrocarbon concentrations in the subsurface remain elevated and this site does not appear ready for closure.
BLYTHE - CITY OF (BLYTHE) WELL 07 CL XCLD	3310003-019	ACTIVE TREATED	3,398	12,155	POTENTIAL	BLOCKER TRANSPORTATION	T0606500896	0.3 mi NE	Diesel	Under Investigation	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Inactive	The closure review for this site describes the well impacts as both potential and already impacted, and no reports have been uploaded to GeoTracker by the RP for this site. The available CDPH data for these wells show no documented contamination from petroleum constituents. Any impacts to these wells appear to be potential.
BLYTHE - CITY OF (BLYTHE) WELL 07	3310003-003	STANDBY RAW	3,398	12,155	POTENTIAL			0.3 mi NE					
BLYTHE - CITY OF (BLYTHE) WELL 11	3310003-006	ACTIVE RAW	3,398	12,155	POTENTIAL	RVSD CO GARAGE - BLYTHE	T0606500770	0.2 mi W-SW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	The closure review for this site reads in part, "Municipal Well Already Impacted The City of Blythe wells including Well -07 is located 1747 feet, and Well -11 is located 2029 feet from this site." However, the same wells are also described in the closure review as "Potentially Impacted." Both designations appear to be based on proximity to the well, and not on any detection of fuel constituents in either well. Additionally, no municipal well impacts are mentioned in the documents reviewed in GeoTracker, and the available documentation appears to show that the contaminant plume for this site is confined to the property. Finally, Wells 11 and 07 show no detections of fuel constituents in the available CDPH data.
BLYTHE - CITY OF (BLYTHE) WELL 07	3310003-003	STANDBY RAW	3,398	12,155	POTENTIAL			0.6 mi SW					

Table R7-1: Colorado River Basin RWQCB LUFT Cases Impacting Municipal Wells Evaluation (continued)

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	NOTES (Post Regulator review)
BLYTHE - CITY OF (BLYTHE) EB WELL 04	3310003-015	ACTIVE RAW	3,398	12,155	POTENTIAL	KUZZIE'S CAR WASH (JACK'S CAR WASH)	T0606500791	0.3 mi NE	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Inactive	The closure review for this site describes these wells as both "potentially impacted" and "already impacted." These classifications appear to stem from physical proximity to the wells, and not from any detections of petroleum constituents in the wells. A table present in the Work Plan Subsurface Soil and Groundwater Investigation dated March 7, 2012 (the most recently submitted document in GeoTracker), lists nearby municipal wells and their distance to the site, as well as the threat of contamination from the site. Wells 10, EB 3, and EB 8 were listed as possibly threatened, but not impacted. Well EB 3 was abandoned in 1999. No CDPH analytical data are available for well 10, and no CDPH analytical data for Well EB 8 have been uploaded since 1999. At that time, no impacts were documented.
BLYTHE - CITY OF (BLYTHE) WELL 15 CL XCLD	3310003-026	ACTIVE TREATED	3,398	12,155	POTENTIAL			0.3 mi NNW					
BLYTHE - CITY OF (BLYTHE) WELL 15	3310003-010	ACTIVE RAW	3,398	12,155	POTENTIAL			0.3 mi NNW					
BLYTHE - CITY OF (BLYTHE) WELL 10 CL XCLD	3310003-021	INACTIVE TREATED	3,398	12,155	POTENTIAL			NA					
BLYTHE - CITY OF (BLYTHE) WELL 10	3310003-005	INACTIVE TREATED	3,398	12,155	POTENTIAL			NA					
SUNLIGHT BOWLING CENTER (BLYTHE) WELL #1	3301677-001	INACTIVE UNTREATED	1	100	CURRENT	J M DEFOREST	T0606500786	0.00	Gasoline	Under Investigation	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Inactive	The closure review for this case reads in part, "Municipal Wells Impacted - There is one (1) well: Sunlight Bowling Center - Well #1 is located 1171 ft from this site." No reports or analytical data have been uploaded to GeoTracker by the responsible party. The most recent regulatory activity in GeoTracker is a file review that reads, "Lost track of former RP."
COACHELLA VWD: I.D. NO. 10 (COACHELLA) WELL 7993	3310063-004	INACTIVE RAW	2,545	7,890	POTENTIAL	FORMER COACHELLA VALLEY MINIMEX (CV MINIMEX)	T0606500981	0.5 mi NW	Gasoline	Other Groundwater (uses other than drinking water)	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	The closure review for this site reads in part: "No known [sic] of these wells are currently or immediately threatened by the release at this site." This site does not appear to have resulted in impacts to a municipal well.
UNKNOWN WELL	NA	NA	NA	NA	POTENTIAL	RVSD CO FIRE #40	T0606500985	NA	Diesel	Other Groundwater (uses other than drinking water)	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	The closure review for this site states in part, "Municipal Well Already Impacted The Coachella Valley Water District which provides drinking water to the City of Mecca, has one or more groundwater production wells in the vicinity of the site (the location of wells are unknown)." A review of the available documents in GeoTracker revealed no mention of an impacted municipal well for this site. The well is not named, and no nearby wells with CDPH data in GeoTracker appear to be impacted by this release.
Carver Tract Mutual Water Comp (Indio) WELL 1	3301107-002	ACTIVE UNTREATED	178	300	POTENTIAL	One Stop Shoppe	T0606500686	0.3 mi SE	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	CDPH analytical data present in GeoTracker do not show results for petroleum constituents for Well 1. Data for the backup well are only present up to January 2001, but show no evidence of contamination related to petroleum. Available documents do not show these wells as being impacted; however, a Sensitive Receptor Survey dated December 23, 2011 does list these wells as being downgradient, and states that, due to the large amount of source mass remaining at this site, the wells may be at risk of future impacts from this site.
Carver Tract Mutual Water Comp (Indio) BACKUP WELL	3301107-001	ACTIVE UNTREATED	178	300	POTENTIAL			0.4 mi S-SE					
INDIO WATER AUTHORITY (INDIO) WELL 01-B	3310020-003	ACTIVE RAW	20,815	68,689	POTENTIAL	EXPRESS STOP	T0606500696	0.3 mi E-SE	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	The closure review for this site describes the municipal wells as both potentially and already impacted. Available CDPH well data for these wells show no impacts from petroleum constituents as of the most recent sampling event, dated September 8, 2010. Additionally, a review of the available documents for this site reveals no documented impacts to Wells 01-B or 01-C.
INDIO WATER AUTHORITY (INDIO) WELL 01-C	3310020-004	ACTIVE RAW	20815	68689	POTENTIAL			0.5 mi E-SE					
COACHELLA VALLEY WATER DISTRICT WELL -6804	NA	NA	NA	NA	POTENTIAL	COUNTY OF RIVERSIDE TRANSPORTATION DEPT.	T0606522324	NA	Diesel	Other Groundwater (uses other than drinking water)	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	The closure review for this site describes the municipal wells as both potentially and already impacted. CDPH data for Well 6804 are not available in GeoTracker, and the documents reviewed in GeoTracker do not mention this well. A review of the most recent report for this site available in GeoTracker, First Semester 2011 Groundwater Monitoring Report dated August 8, 2011, shows a single detection for MTBE at 18 µg/L in monitoring well MW-03. Groundwater contamination appears to be confined to the site, and not impacting well 6804 which the closure review described as being 2546 feet from the site.

Table R7-1: Colorado River Basin RWQCB LUFT Cases Impacting Municipal Wells Evaluation (continued)

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	NOTES (Post Regulator review)
RIVERSIDE CSA #122-MESA VERDE (RIPLEY) AIRPORT WELL 06	3310028-005	INACTIVE RAW	426	1,000	POTENTIAL	SOUTHWEST TRAVEL PLAZA	T0606500892	1.2 mi E	Diesel	Soil	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - inactive	The closure review for this site describes well 06 as already impacted and well 07 as potentially impacted. CDPH analytical data for well 06 are available only up until May 2001, and show no detections of petroleum constituents. CDPH analytical data for well 07 are available up until December 2011, and likewise show no impacts from petroleum constituents. A review of documents available in GeoTracker shows no discussion or any impacts to wells 06 or 07. The most recent analytical report titled Additional Site Assessment Report and dated December 27, 2011, did not contain any data regarding groundwater contamination, and showed that soil contamination was largely confined to the vicinity of the former USTs. No impacts to the municipal wells at the Mesa Verde Airport appear to have been documented.
RIVERSIDE CSA #122-MESA VERDE (RIPLEY) AIRPORT WELL 07	3310028-006	ACTIVE RAW	426	1,000	POTENTIAL			1.2 mi E					
Riv. County Disaster Prep Indio (Indio) WELL 01	3301556-001	ACTIVE UNTREATED	1	25	POTENTIAL	TREMENEZ AUTOMOTIVE	T0606500699	0.3 me W-SW	Gasoline	Aquifer used for drinking water supply	COLORADO RIVER BASIN RWQCB (REGION 7)	Open - Site Assessment	The closure review for this site reads in part, "Municipal Well Already Impacted The Riverside County Disaster Prep Indio Well-01 is located 821 feet from this site." However, based on the well location in GeoTracker and the site address, the actual distance appears to be closer to 1/3 mile. Additionally, a second case, RVSD CO GARAGE (INDIO) (T0606500687), is described in its closure review as impacting this well; however, in the closure review for that case, well 01 is described as a domestic well. CDPH analytical data for Well 01 are available only for the year 1987, and a review of the available documents for this site in GeoTracker shows no mention of impacts to any municipal wells.

NOTES:
 Region 7 approved the Draft Impacted Municipal Well Table as-is so no revisions to the data within the table have been made.
 NA stands for Not Available. In most cases, this is because well data are not available in GeoTracker, or the impacted well is not identified in GeoTracker.
 Unknown means that the impacted well is not identified in GeoTracker, or that the time frame for impact to the well could not be determined based on the available information.

Table R7-2: Colorado River Basin RWQCB LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))									
								Well Name	Approx. Distance from Source	Direction from Source	Well Sampled	Max Detects	Dates of Max Detects	Current Data	Most Recent Date	Current or Historical Supply of Water to Public?	Any Known Adverse impacts to Human Health?
ROSS CORNER STORE	T0602592922	2 (supply wells)	Open - Remediation	COLORADO RIVER BASIN RWQCB (REGION 7)	-114.589677	32.782332	Historical	Trailer Park Well	90 Feet	East	Yes	21.7 ppb Benzene	7/28/1999	21.7 ppb Benzene	7/28/1999	Historical use: Trailer park is now abandoned but in August of 1999 water users began bottled water use and in the spring of 1999 residents began suspecting contaminants in the drinking water. The well was sampled on July 28, 1999, by the State of California Health Services Department, Drinking Water Field Operations. Benzene was detected at 21.7 parts per billion (ppb). Following the detection of the hydrocarbon constituents, the well was shut down and residents had bottled water shipped to them beginning in August 10, 1999.	Unknown
							Unknown	W (Supply Well) Water Well	On-site	Behind Store Building	Yes	543 ppb MTBE; 425 ppb TBA; 10 ppb TAME; 100 ppb TPHg; 227J TPHd	12/3/2003; 12/3/2003; 6/8/2007; 7/24/2009; 3/4/2009	ND for all constituents	6/7/2012	Unknown	Unknown
USA SUPERSAVE/SALVADOR HUERTA	T0602500185	Unknown	Open - Site Assessment	COLORADO RIVER BASIN RWQCB (REGION 7)	-114.633960	32.738162	Unknown	Information Not Available	Information Not Available	Information Not Available	Information Not Available	Information Not Available	Information Not Available	Information Not Available	Information Not Available	Information Not Available	Information Not Available
TWIN PINES RANCH	T0606500736	1 (supply well)	Open - Site Assessment	COLORADO RIVER BASIN RWQCB (REGION 7)	-116.791822	33.867683	Historical	D&D Well, State Well ID# 3301690	900 feet	Southeast (upgradient)	Yes	ND for all constituents sampled	1987 and quarterly samples	ND for all constituents	Well is sampled quarterly; latest event was in August 2012.	This is a community water system serving approximately 42 residents and 30 staff daily in the Twin Pines Boys Ranch (Riverside County Probation Department).	None known. There is a backup well that is 200 ft deep approximately 2000 feet from the site, no evidence showing impact to backup well either. There is a surface water source (spring) which flows into a 70,000 gallon covered reservoir which is used for irrigation. Connection to the potable water from this source has been completely disconnected.
Rvsd Co Garage (Indio)	T0606500687	1 (supply well)	Open - Site Assessment	COLORADO RIVER BASIN RWQCB (REGION 7)	-116.220971	33.713346	Historical	Well 01, State Well ID# 3301556-001	405 feet	Northwest	Yes	ND for all constituents sampled	1987	ND for all constituents sampled	1987	Used for emergency use only.	None known.
WAVE CREST INC.	T0606599293	2 (1 irrigation and 1 unknown)	Open - Inactive	COLORADO RIVER BASIN RWQCB (REGION 7)	-116.039666	33.544418	Unknown	Alamo #5 (Mecca) Well #1, State Well ID# 3301213-001	225 feet	On-Site	None reported	Information Not Available	Information Not Available	Information Not Available	Information Not Available	No known use to supply drinking water.	None known.
							Unknown	Mecca Farms, State Well ID# 281825	1953.6 feet	Northwest	None reported	NA	NA	NA	NA	Used for irrigation purposes. No known use to supply drinking water.	None known.

Santa Ana Regional Water Quality Control Board (Region 8)

Table R8-1: Santa Ana RWQCB LUFT Cases Impacting Municipal Wells Evaluation

Table R8-2: Santa Ana RWQCB LUFT Cases Impacting Domestic Wells Evaluation

Table R8-1: Santa Ana RWQCB LUFT Cases Impacting Municipal Wells Evaluation

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	DATE OF RESOLUTION 2009-0042 CLOSURE REVIEW IN GEOTRACKER	NOTES (Post Regulator review)
POMONA - CITY, WATER DEPT. (POMONA) WELL 29	1910126-029	Active Raw	29,464	149,058	CURRENT	SC FUELS #112	SL0607192860	0.1 mi W-NW	Fuel Oxygenates	Well used for drinking water supply	SANTA ANA RWQCB (REGION 8)	Open - Site Assessment	11/10/2009	This case is located in Region 8, but is part of the Pomona Well 29 Investigation area, which involves additional cases located in Region 4. No documents have been uploaded to GeoTracker since a July 2010 Annual Groundwater Monitoring Report. There were no volatile organic compounds reported in the September 17, 2009 Soil Gas Survey Report with the exception of a J flagged detection of toluene in sample SV7-9.5 (0.64 µg/L). It was concluded that no release had occurred at this site. The most recent document available in GeoTracker is the July 2010 Annual Groundwater Monitoring Report. The sampling data of the single monitoring well present at the site (total depth of 109 feet) did not show any detections of fuel constituents. Additionally, historical data present in the report showed that fuel constituents have not been detected during the periodic monitoring events conducted for the single monitoring well installed in July 2007 at this site. In February 2012, the regulator held a discussion with the responsible party, but no details are provided in GeoTracker.
						MOUNTAIN VALLEY EXPRESS	T10000001502	0.4 mi S-SE	Diesel, Fuel Oxygenates	Soil	SANTA ANA RWQCB (REGION 8)	Open -Verification Monitoring	11/2/2009	This case is located in Region 8, but is part of the Pomona Well 29 Investigation area which involves additional cases located in Region 4. In a letter dated November 10, 2010 the regulator for this site concurred with the consultant for the responsible party that no additional investigation was required for the site. However, the regulator did require additional action to be taken in the form of the submittal of documentation regarding the tank removal and destruction, as well as soil removal and disposal. Additionally, the regulator required the submittal of a soil risk management plan prior to the granting of formal closure. On January 27, 2011 the consultant for the site submitted an Underground Storage Tank Closure report, and on March 7, 2011 the consultant submitted a Soil Management Plan and Case Closure Report. No formal response has been posted to GeoTracker by the regulator, and no documents have been posted to GeoTracker since the date of the closure request. The case remains open.
WEST VALLEY WATER DISTRICT (RIALTO) WELL 41	3610004-031	ACTIVE TREATED	19,529	65,283	POTENTIAL	MOBIL FAC. #04-086 /COLTON TER	T0607100402	2.0 mi S	Gasoline	Aquifer used for drinking water supply	SANTA ANA RWQCB (REGION 8)	Open - Remediation	11/10/2009	The closure review for this case reads in part, "Municipal Wells Impacted - Wells 40 and 41 have not been able to operate for fear of drawing the plume closer." Periodic analytical data from the CDPH3 are present in GeoTracker for Well 41 from 1997 to 2011, and show no detections of petroleum constituents for that period. This site is described as being cross- to down-gradient of the Colton Terminal Plume. The site history describes the Colton Terminal as occupying approximately 130 acres, and being composed of facilities owned by several companies, as well as having several previous operators. A total of 14 spills have been reported at these facilities, totaling approximately 268,000 gallons. The site history reads in part: "• There are two water supply wells approximately 4,600 feet south of the site, both completed in a deep aquifer. • Well 41 was drilled in 1992 and began active pumping at over 2,000 gpm daily, in 1997. • The well seal extends to 290 feet below ground surface. • Weekly monitoring for methyl tertiary butyl ether (MTBE) and benzene is conducted at this well. • MTBE and benzene have not been detected. • Well 40 was drilled in 1999, but there are no current plans to equip this well until the potential impact from the MTBE plume is better understood."
WEST VALLEY WATER DISTRICT (RIALTO) WELL 40	NA	NA	NA	NA	POTENTIAL									NA

NOTES:
 Region 8 approved the Draft Impacted Municipal Well Table as-is so no revisions to the data within the table have been made.
 NA stands for Not Available. In most cases, this is because well data are not available in GeoTracker, or the impacted well is not identified in GeoTracker.
 Unknown means that the impacted well is not identified in GeoTracker, or that the time frame for impact to the well could not be determined based on the available information.
 Eight (8) additional cases belonging to the Pomona Well 29 Investigation area are located in Region 4. For more information on these cases, see the Region 4 report.

Table R8-2: Santa Ana RWQCB LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))						
								Well Name	Well Sampled	Max Detects	Dates of Max Detects	Current Data	Most Recent Date	Additional Notes
STOCKS TEXACO SERVICE STATION	T0607100236	2 (1 irrigation & 1 unknown)	Open - Remediation	SANTA ANA RWQCB (REGION 8)	-116.899166	34.243701	Current	Private Well #1	Yes	1 ug/L Benzene; 950 ug/L MTBE	2006	303 ug/L Benzene; 8.4 ug/L Toluene; 151 ug/L Ethylbenzene; 2.06 mg/L TPHg; 275 ug/L MTBE; 4.9 TAME; 188 TBA; 2.26 ug/L o-xylene	4/7/2011	This well was brought to regulator attention by the landowner back in 2006 and the landowner said that the well smelled like gasoline. Owner wanted to use the well for landscaping, but regulator told landowner that well cannot be used at this time.
							Potential	Private Well #2	Yes	ND	2006	ND	2006	This well was sampled in 2006 and regulator should probably look at it again and resample in the near future.
USA PETROLEUM STATION #239	T0607100142	2 (1 irrigation & 1 unknown)	Open - Remediation	SANTA ANA RWQCB (REGION 8)	-116.900356	34.243144	Current	Private Well #1	Yes	1 ug/L Benzene; 950 ug/L MTBE	2006	303 ug/L Benzene; 8.4 ug/L Toluene; 151 ug/L Ethylbenzene; 2.06 mg/L TPHg; 275 ug/L MTBE; 4.9 TAME; 188 TBA; 2.26 ug/L o-xylene	4/7/2011	This well was brought to regulator attention by the landowner back in 2006 and the landowner said that the well smelled like gasoline. Owner wanted to use the well for landscaping, but regulator told landowner that well cannot be used at this time.
							Unknown	Private Well #2	Yes	ND	2006	ND	2006	This well was sampled in 2006 and regulator should probably look at it again and resample in the near future.
ISAAC MAIN PLAZA/METRO CW	T0605901718	0	Open - Verification Monitoring	SANTA ANA RWQCB (REGION 8)	-117.867511	33.724467	NA	NA	NA	NA	NA	NA	NA	Erroneous GeoTracker entry. No domestic well impacted.

-There are only two domestic wells currently impacted by LUFT cases overseen by Region 8 (1 irrigation and 1 unknown)

San Diego Regional Water Quality Control Board (Region 9)

Table R9-1: San Diego RWQCB LUFT Cases Impacting Municipal Wells Evaluation

Table R9-2: San Diego RWQCB LUFT Cases Impacting Domestic Wells Evaluation

Table R9-1: San Diego RWQCB LUFT Cases Impacting Municipal Wells Evaluation

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	NOTES (Post Regulator review)
RANCHO CALIFORNIA WATER DISTRICT (TEMECULA) WELL 118	3310038-023	ACTIVE RAW	40,481	116,188	CURRENT	CHEVRON SERVICE STATION 9-1870	T0606501112	0.2 mi NW	Gasoline	Aquifer used for drinking water supply	SAN DIEGO RWQCB (REGION 9)	Open - Verification Monitoring	Well 118 is described as having been impacted by MTBE, and several sites are under investigation for contributing to the contamination. Available CDPH data in GeoTracker shows MTBE was last detected above the method detection limit in this well on October 28, 2004, at 3 µg/L. This falls below the secondary MCL for this substance. Prior to the 2004 detection, MTBE was detected in Well 118 in April, May, and June of 2001 at 5.4 µg/L, 6.2 µg/L, and 8.9 µg/L, respectively. While these detections were above the secondary MCL of 5 µg/L they were not above the primary MCL of 13 µg/L. MTBE is only shown to have been detected at or above the primary MCL for MTBE on December 14, 2000 and January 24, 2001 at 13 and 24 µg/L, respectively.
						UNOCAL #6519	T0606501117	0.2 mi NW	Gasoline	Aquifer used for drinking water supply	SAN DIEGO RWQCB (REGION 9)	Open - Verification Monitoring	The closure review for Chevron Service Station 9-1870 reads in part, "Regional Water Board Objects to Closure - This site may have caused MTBE from the Unocal station to flow toward a municipal well that has MTBE contamination. Chevron has agreed to cooperate with Unocal. Chevron site should not be closed until Unocal remediation is completed. Under Order to remediate to background levels." Verification Monitoring continues at this site.
						DELTA DISCOUNT GAS (NARAIN OIL)	T0606501135	0.2 mi S-SW	Gasoline	Aquifer used for drinking water supply	SAN DIEGO RWQCB (REGION 9)	Open - Remediation	The closure review for Unocal #6519 states in part, "RCWD municipal well # 118 impacted with MTBE from site"; and "Regional Water Board Objects to Closure - Regional Board objects to closure until groundwater BNU have been restored." This site is also categorized as being in the verification monitoring phase of the cleanup. This site's remediation systems have been shut down since March of 2011, and monitoring continues.
						BIANCHI INTERNATIONAL INC	T0606501137	0.4 mi S	Gasoline	Aquifer used for drinking water supply	SAN DIEGO RWQCB (REGION 9)	Open - Remediation	The closure review for Delta Discount Gas reads in part, "Regional Water Board Objects to Closure High gasoline contamination and no remediation done. Municipal well within 1/2 mile. Site needs remediation." Well 118 is not identified by name, but is the closest municipal well to this site. Groundwater monitoring continues at this site, and a corrective action plan was submitted in November 2011. The most recent groundwater monitoring report for Delta Discount Gas, dated January 2012, states that the groundwater flow direction at this location is to the west at 0.02 to 0.03 ft/ft. An ozone sparge pilot test was conducted in 2011, and a full-scale system is planned. MTBE remains elevated in the subsurface (at up to 35 µg/L) at this location.
						CALIFORNIA HIGHWAY PATROL	T0606599065	0.8 mi S-SE	Gasoline, Fuel Oxygenates	Aquifer used for drinking water supply	SAN DIEGO RWQCB (REGION 9)	Open - Remediation	The closure review for Bianchi International Inc. reads in part, "Municipal Wells Impacted - Nearby well impacted with MTBE. This site has very low MTBE, so may not contribute to municipal well with MTBE. However, since the site is close to the municipal well, it is critical to protect the well from further impacts." Correspondence from the regulator to the responsible party dated November 8, 2011 present in the file for the California Highway Patrol case reads in part, "I have reviewed the site status with my supervisor, John Anderson, and we have agreed that further monitoring is not necessary, and the site looks appropriate for closure." The letter goes on to list conditions that must be met for formal closure of this site.
RANCHO CALIFORNIA WATER DISTRICT (TEMECULA) WELL 106	3310038-012	ACTIVE RAW	40,481	116,188	POTENTIAL	RANCHO CAR WASH	T0606504561	0.6 mi NE	Gasoline	Aquifer used for drinking water supply	SAN DIEGO RWQCB (REGION 9)	Open - Site Assessment	The Closure review for this site reads in part, "Municipal Wells Impacted - Municipal well nearby impacted by MTBE." The impacted well is not named in the closure review, but from the available documentation it appears that the primary concern is with Wells 118, 106, or 205. Well 118 does not appear to have been impacted with MTBE since 2004, and is located 1.5 miles to the south-southeast. Wells 106 and 205 are located closer to the site, at approximately 0.6 and 0.7 miles to the northeast and east, respectively, but show no signs of impact in the CDPH data. Additionally, groundwater capture models presented in the January 2012 Semi-Annual Groundwater Monitoring Report for this site show regional groundwater flow direction to be to the southwest, away from wells 106 and 205 and towards the site. The capture models show the Rancho Car Wash site to be well outside the capture zones for these wells.
RANCHO CALIFORNIA WATER DISTRICT (TEMECULA) WELL 205	3310038-053	ACTIVE RAW	40,481	116,188	POTENTIAL		0.7 mi E						
RANCHO CALIFORNIA WATER DISTRICT (TEMECULA) UNKNOWN WELL	NA	NA	NA	NA	POTENTIAL		CHEVRON JEFFERSON AVENUE	T0606594064	NA	Gasoline	Aquifer used for drinking water supply		

Table R9-1: San Diego RWQCB LUFT Cases Impacting Municipal Wells Evaluation (continued)

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	NOTES (Post Regulator review)
JULIAN COMMUNITY SERVICES DISTRICT (JULIAN) WELL 01	3700909-003	INACTIVE RAW	206	578	CURRENT	JULIAN CHEVRON	T0607300317	0.1 mi NW	Gasoline	Well used for drinking water supply	SAN DIEGO COUNTY LOP	Open - Remediation	The regulator referenced the sites (in order as shown on table) as "Former Chevron," "Former Julian Auto Parts," "Former Julian Cider Mill," and "Norm's Service Station." The Julian Community Water District (JCSD) is regulated by the California Department of Public Health Drinking Water Program (DWP). JCSD has currently two main well fields. One field is located within the downtown area along Main Street and extends SE to Jess Martin Park. This field is called the downtown well field, and the second well field is located approximately five miles to the north of town on Farmers Rd. north of Wynona Rd. This well field is called the Vulcan Mountain Well field. The MTBE-impacted wells are associated with the downtown well field. The regulator indicated that there are four impacted JCSD wells: JCSD1, JCSD-2, JCSD-3, and JCSD-8. There are also privately owned wells that have been impacted; they are the Baileys BBQ Well, Z&C/Stonewall Well (JCSD-10), and the Finnhonka (Finn) Well. There are several other wells in the community that may have been impacted, but access to those wells has not been granted either by the owner or inability to access the well (Straube Well, Gold Nugget Well, 1912 Main Well and Jess Martin Well). The location of these wells and all the groundwater monitoring wells are depicted on Figure 2 in the document titled Monitoring Well Construction Report, Well Permit No. LMON107985 dated March 2, 2012. (In GeoTracker this document is titled GT-34 Well Construction Q112 dated March 18, 2012.) All the supply wells that have been impacted have been surveyed and their GPS locations have been entered into GeoTracker. The supply wells that may have been impacted but not verified have not been located using a GPS but their locations are accurately plotted on the figure referenced above. It should be noted that the Straube Well and the Z&C Stonewall well (JCSD-10) historically have been connected to the JCSD water system but are not owned by the JCSD. Currently the downtown portion of the downtown well field has been shut down and water is being obtained from JCSD-6 located near Jess Martin Park and the Vulcan Mountain well field.
						ROBERTA H GREEN	T0607300506	0.2 mi NW	Gasoline	Well used for drinking water supply	SAN DIEGO COUNTY LOP	Open - Remediation	
						JULIAN CIDER MILL	T0607300511	0.2 mi NW	Gasoline	Well used for drinking water supply	SAN DIEGO COUNTY LOP	Open - Remediation	
						NH COZENS, INC	T0607301326	0.3 mi NW	Gasoline	Well used for drinking water supply	SAN DIEGO COUNTY LOP	Open - Remediation	
JULIAN COMMUNITY SERVICES DISTRICT (JULIAN) WELL 02	3700909-004	INACTIVE RAW	206	578	CURRENT	JULIAN CHEVRON	T0607300317	0.1 mi N-NW	Gasoline	Well used for drinking water supply	SAN DIEGO COUNTY LOP	Open - Remediation	
						ROBERTA H GREEN	T0607300506	0.1 mi NW	Gasoline	Well used for drinking water supply	SAN DIEGO COUNTY LOP	Open - Remediation	
						JULIAN CIDER MILL	T0607300511	0.2 mi NW	Gasoline	Well used for drinking water supply	SAN DIEGO COUNTY LOP	Open - Remediation	
						NH COZENS, INC	T0607301326	0.3 mi NW	Gasoline	Well used for drinking water supply	SAN DIEGO COUNTY LOP	Open - Remediation	
JULIAN COMMUNITY SERVICES DISTRICT (JULIAN) WELL 03	3700909-005	INACTIVE RAW	206	578	CURRENT	JULIAN CHEVRON	T0607300317	.2 mi S-SE	Gasoline	Well used for drinking water supply	SAN DIEGO COUNTY LOP	Open - Remediation	
						ROBERTA H GREEN	T0607300506	.2 mi-S	Gasoline	Well used for drinking water supply	SAN DIEGO COUNTY LOP	Open - Remediation	
						JULIAN CIDER MILL	T0607300511	.1 mi S	Gasoline	Well used for drinking water supply	SAN DIEGO COUNTY LOP	Open - Remediation	
						NH COZENS, INC	T0607301326	.2 mi W	Gasoline	Well used for drinking water supply	SAN DIEGO COUNTY LOP	Open - Remediation	
JULIAN COMMUNITY SERVICES DISTRICT (JULIAN) WELL 08	3700909-009	ACTIVE RAW	206	578	CURRENT	JULIAN CHEVRON	T0607300317	0.1 mi N	Gasoline	Well used for drinking water supply	SAN DIEGO COUNTY LOP	Open - Remediation	
						ROBERTA H GREEN	T0607300506	0.1 mi N-NW	Gasoline	Well used for drinking water supply	SAN DIEGO COUNTY LOP	Open - Remediation	
						JULIAN CIDER MILL	T0607300511	0.2 mi N-NW	Gasoline	Well used for drinking water supply	SAN DIEGO COUNTY LOP	Open - Remediation	
						NH COZENS, INC	T0607301326	0.3 mi NW	Gasoline	Well used for drinking water supply	SAN DIEGO COUNTY LOP	Open - Remediation	

Table R9-1: San Diego RWQCB LUFT Cases Impacting Municipal Wells Evaluation (continued)

IMPACTED WELL NAME(S)	STATE WELL ID	WELL STATUS	NUMBER OF SERVICE CONNECTIONS	POPULATION SERVED	TIME FRAME FOR IMPACT	CASE(S) IMPACTING WELL	CASE GLOBAL ID	DISTANCE TO WELL (to the nearest tenth of a mile)	SUBSTANCE RELEASED	MEDIA AFFECTED	LEAD AGENCY	STATUS	NOTES (Post Regulator review)
RIVERVIEW WD (LAKESIDE) WELL 01	3710030-002	INACTIVE RAW	2,153	10,500	CURRENT	LAKESIDE TEXACO	T0607302654	0.5 mi W	Gasoline	Well used for drinking water supply	SAN DIEGO COUNTY LOP	Open - Remediation	Regulator provided the following additional information on the Riverview Well field: The Riverview Well Field consists of four supply wells located on the north side of Highway 67 in Lakeside. This well field has been shut down due to elevated levels of inorganic constituents (manganese and iron), which were causing problems with secondary water quality standards and fouling problems in the air-stripping units for the MTBE treatment system. Lakeside Water District has indicated that they are planning to put this well field back on line but no timeline has been provided for putting it back on line. The locations of these four wells have not been uploaded into GeoTracker, but DWP should have the actual location of these wells in their database. Well 1 is located 2,440 ft west of site, Well 2 is located 2,570 ft west of site, Well 3 is located 2,680 ft west of site, and Well 4 is located 2,250 ft west of site. Information from GeoTracker and that was in the Draft Report follows: The closure review for this site states, "4 Public wells have been impacted by MTBE." The Well Impact Description for this site reads as follows, "The Lakeside Water District (former Riverview Water District) well field along highway 67 has been impacted by MTBE. The Riverview Water District installed and put on-line wellhead treatment for the MTBE in May 2003. This system was operated until Riverview was absorbed by the Lakeside Water District. At that time, Lakeside shut down the well field due to being unable to comply with inorganic water quality standards. Currently the well field is a standby supply for Lakeside Water District [sic]." Documents available in GeoTracker identify these wells as Lakeside Water District Wells #1 through #4. A hydraulic barrier system was installed between this site and the well field in 2000, but ceased operation in 2008, due to several factors. The well field is currently kept as a standby water supply, but is described as needing upgrades and well head treatment prior to use.
RIVERVIEW WD (LAKESIDE) WELL 02	3710030-003	INACTIVE RAW	2,153	10,500	CURRENT			0.5 mi W					
RIVERVIEW WD (LAKESIDE) WELL 03	3710030-004	INACTIVE RAW	2,153	10,500	CURRENT			NA					
RIVERVIEW WD (LAKESIDE) WELL 04	3710030-005	INACTIVE RAW	2,153	10,500	CURRENT			NA					
PUERTA LA CRUZ CONSERVATION CAMP #14 (WARNER SPRINGS) WELL 01	3710800-001	ACTIVE RAW	7	125	NOT IMPACTED	CDF PUERTA LA CRUZ	T0607319375	.6 mi S-SW	Diesel, Gasoline	Aquifer used for drinking water supply	SAN DIEGO COUNTY LOP	Open - Site Assessment	The water system is Puerta La Cruz Conservation Camp (3710800). Though GeoTracker says the status of the case is "Open-Site Assessment", the regulator indicated that this case is in the "verification monitoring" stage and will be evaluated and reviewed with DWS following the next semiannual groundwater monitoring report. --The only impacted well is Well 02.
PUERTA LA CRUZ CONSERVATION CAMP #14 (WARNER SPRINGS) Well 02	3710800-002	ACTIVE RAW	7	125	HISTORICAL			130' from dispenser island					
DANCE HALL WELL	NA	NA	NA	NA	HISTORICAL	CHEVRON #9-3417	T0605902379	NA	Fuel Oxygenates, Gasoline	Aquifer used for drinking water supply, Soil, Soil Vapor, Surface water, Under Investigation, Well used for drinking water supply	SAN DIEGO RWQCB (REGION 9)	Open - Remediation	The closure review for this site reads in part, "Municipal Well Already Impacted, Dance Hall Well impacted and shut down." Information regarding the Dance Hall Well is not available in the CDPH data present in GeoTracker. The Well Impact Description in GeoTracker reads, "MTBE DETECTED IN DANCE HALL WELL LESS THAN 5 PPB" indicating that the detections are below the secondary MCL for MTBE. The site history for this case reads in part, "In early 2008 the Dance Hall well was taken out of service due to the presence of MTBE in the extracted groundwater. A groundwater sample collected from the Dance Hall well was reported to have a MTBE concentration of 1.3 micrograms per liter (µg/l). The health-based primary maximum contaminant level (MCL) for MTBE is 13 µg/l. The secondary MCL, which is a taste and odor threshold [sic] is 5 µg/l. Although the reported groundwater MTBE concentration is below the secondary MCL, the City of San Juan Capistrano elected to shut down the wells to eliminate the potential of distributing groundwater with MTBE to its residents." The Fourth Quarter 2011 Groundwater Monitoring Progress Report for this site, dated January 25, 2012, states that the Dance Hall Well is located approximately 2000 feet south-southwest of the site. The report also states that the well was returned to service in August 2011. Water from this well is processed through the city's Groundwater Recovery Plant which includes granular activated carbon filtration. While the well appears to have been impacted, the impacts appear to have been minor, and the well was taken out of service out of an abundance of caution, and service has now been restored. Monitoring continues to verify that MTBE concentrations do not rise above the secondary MCL for MTBE in this well.

NOTES:

NA stands for Not Available. In most cases, this is because well data are not available in GeoTracker, or the impacted well is not identified in GeoTracker.
Unknown means that the impacted well is not identified in GeoTracker, or that the time frame for impact to the well could not be determined based on the available information.

-Additional Well and associated case information provided by San Diego County LOP that was not within the Draft Impacted Domestic Wells Report.

Table R9-2: San Diego RWQCB LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	CASE LONGITUDE	CASE LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))										
								Well Name	Approx. Distance from Source	Direction from Source	Well Sampled	Max Detects	Dates of Max Detects	Current Data	Most Recent Date	GW Basin of Watershed Name	Current or Historical Supply of Water to Public?	Any Known Adverse impacts to Human Health?
SANTA YSABEL (FORMER CHEVRON)	T0607302306	4 (supply wells)	Open - Remediation	SAN DIEGO RWQCB (REGION 9)	-116.673145	33.109773	Historical	Well Q3	160 feet	East	Yes	2.4 ug/L MTBE	December 2004	ND	June 28, 2012	Santa Ysabel Aquifer	Private well used for municipal uses.	Water treatment system installed--no known adverse impacts to human health.
							Historical	Well B2	630 feet	South/ Southwest	Yes	6 ug/L MTBE	November 2007	ND	June 28, 2012	Santa Ysabel Aquifer	Private well used for municipal uses.	Water treatment system installed--no known adverse impacts to human health.
							Historical	Well B3	420 feet	South/ Southwest	Yes	19 ug/L MTBE; 6 ug/L TAME	November 2007 and September 2007 respectively	ND	June 28, 2012	Santa Ysabel Aquifer	Private well used for municipal uses.	Water treatment system installed--no known adverse impacts to human health.
							Historical	Well Q1	670 feet	North/ Northwest	Yes	3 ug/L MTBE	February 2008	ND	June 28, 2012	Santa Ysabel Aquifer	Supplies water to Dudley's bakery and is used for the bakery. Well is currently being used.	Water treatment system installed--no known adverse impacts to human health.

Alameda County Local Oversight Program Agency (LOP)

Table A-1: Alameda County LOP LUFT Cases Impacting Domestic Wells Evaluation

Table A-1: Alameda County LOP LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))											
								Well Name	Approx. Distance from Source	Direction from Source	Well Sampled	Max Detects	Dates of Max Detects	Current Data	Most Recent Date	GW Basin of Watershed Name	Well Construction Info	Current or Historical Supply of Water to Public?	Any Known Adverse Impacts to Human Health?
ARCO #00608	T0600100085	14 (All irrigation wells)	Open - Verification Monitoring	ALAMEDA COUNTY LOP	-122.123573	37.673888	Historical	590 Hacienda Ave	<950 ft	SW	Yes (1991 - 1999)	ND TPHg; ND Benzene; 13 µg/L Toluene; ND Ethylbenzene; ND Xylenes; ND MTBE	9/15/1995 Toluene	ND<50 µg/L TPHg; ND<0.50 µg/L Benzene; ND<0.50 µg/L Toluene; ND<0.50 µg/L Ethylbenzene; ND<0.50 µg/L Xylenes; ND<2.5 µg/L MTBE	6/14/1999	East Bay Plain	--	Irrigation; Destroyed 9/15/2000 due to contamination	Unknown
							Historical	633 Hacienda Ave	<950 ft	SW	Yes (1991 - 2000)	480 µg/L TPHg; 10 µg/L Benzene; 11 µg/L Toluene; 2.9 µg/L Ethylbenzene; 140 µg/L Xylenes; 77 µg/L MTBE	6/3/1998 TPHg; 3/14/1996 Benzene; 3/14/1993 Toluene; 6/3/1998 Ethylbenzene; 3/14/1996 Xylenes; 3/19/1998 MTBE	240 µg/L TPHg; 5.03 µg/L Benzene; 1.01 µg/L Toluene; 2.39 µg/L Ethylbenzene; 63.8 µg/L Xylenes; 10.5 µg/L MTBE	6/13/2000	East Bay Plain	--	Irrigation; Destroyed 9/15/2000 due to contamination	Unknown
							Unknown	634 Hacienda Ave	<950 ft	SW	No (1991 - 2001) - due to blockage within the well and/or access denied by owner	---	---	---	---	East Bay Plain	--	Irrigation; Can not be physically located (no response to Survey dated 11/5/2008)	Unknown
							Historical	642 Hacienda Ave	<950 ft	SW	Yes (1991 - 2003)	<50 µg/L TPHg; <0.50 µg/L Benzene; <0.50 µg/L Toluene; <0.50 µg/L Ethylbenzene; <0.50 µg/L Xylenes; <0.5 µg/L MTBE	---	ND<50 µg/L TPHg; ND<0.50 µg/L Benzene; ND<0.50 µg/L Toluene; ND<0.50 µg/L Ethylbenzene; ND<0.50 µg/L Xylenes; ND<0.5 µg/L MTBE	12/14/2003	East Bay Plain	--	Irrigation; Unknown (No response to Survey dated 11/5/2008)	Unknown
							Historical	675 Hacienda Ave	<950 ft	SW	Yes (1991 - 1997)	<50 µg/L TPHg; <0.50 µg/L Benzene; <0.50 µg/L Toluene; <0.50 µg/L Ethylbenzene; <0.50 µg/L Xylenes; <0.5 µg/L MTBE	---	ND<50 µg/L TPHg; ND<0.50 µg/L Benzene; ND<0.50 µg/L Toluene; ND<0.50 µg/L Ethylbenzene; ND<0.50 µg/L Xylenes; ND<0.5 µg/L MTBE	6/25/1997	East Bay Plain	--	Irrigation; Destroyed (4th Quarter 2004)	Unknown
							Historical	17197 Via Magdalena	950 ft	SW	Yes	<50 µg/L TPHg; <0.50 µg/L Benzene; <0.50 µg/L Toluene; <0.50 µg/L Ethylbenzene; <0.50 µg/L Xylenes; <0.5 µg/L MTBE	---	ND<50 µg/L TPHg; ND<0.50 µg/L Benzene; ND<0.50 µg/L Toluene; ND<0.50 µg/L Ethylbenzene; ND<0.50 µg/L Xylenes; ND<0.5 µg/L MTBE	9/19/2000	East Bay Plain	--	Irrigation; Destroyed (2000)	Unknown
							Historical	17200 Via Magdalena	<950 ft	SW	Yes	730 µg/L TPHg; 2.7 µg/L Benzene; <0.50 µg/L Toluene; 1.5 µg/L Ethylbenzene; 1.8 µg/L Xylenes; Not Analyzed MTBE	3/15/1996 TPHg; 11/13/1991 Benzene; 3/15/1995 Ethylbenzene; 5/27/1996 Xylenes	200 µg/L TPHg; ND<0.50 µg/L Benzene; ND<0.50 µg/L Toluene; 1.4 µg/L Ethylbenzene; 1.8 µg/L Xylenes; Not Analyzed MTBE	5/27/1996	East Bay Plain	--	Irrigation; Destroyed 8/29/1996 due to contamination	Unknown
							Historical	17203 Via Magdalena	<950 ft	SW	Yes	<50 µg/L TPHg; <0.50 µg/L Benzene; <0.50 µg/L Toluene; <0.50 µg/L Ethylbenzene; <0.50 µg/L Xylenes; <0.5 µg/L MTBE	12/21/1992 Xylenes	ND<50 µg/L TPHg; ND<0.50 µg/L Benzene; ND<0.50 µg/L Toluene; ND<0.50 µg/L Ethylbenzene; ND<0.50 µg/L Xylenes; ND<0.5 µg/L MTBE	6/25/1997	East Bay Plain	--	Irrigation; Destroyed 11/18/2004 due to contamination	Unknown

Table A-1: Alameda County LOP LUFT Cases Impacting Domestic Wells Evaluation (Continued)

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))											
								Well Name	Approx. Distance from Source	Direction from Source	Well Sampled	Max Detects	Dates of Max Detects	Current Data	Most Recent Date	GW Basin of Watershed Name	Well Construction Info	Current or Historical Supply of Water to Public?	Any Known Adverse Impacts to Human Health?
ARCO #00608	T0600100085	14 (All irrigation wells)	Open - Verification Monitoring	ALAMEDA COUNTY LOP	-122.123573	37.673888	Historical	17302 Via Magdalena	<950 ft	SW	Yes	72 µg/L TPHg; 0.64 µg/L Benzene; <0.50 µg/L Toluene; 0.44 µg/L Ethylbenzene; <0.50 µg/L Xylenes; <2.5 µg/L MTBE	10/21/1991 TPHg; 10/21/1991 Benzene; 10/21/1991 Ethylbenzene; 5/27/1996 Xylenes	ND<50 µg/L TPHg; ND<0.50 µg/L Benzene; ND<0.50 µg/L Toluene; ND<0.50 µg/L Ethylbenzene; ND<0.50 µg/L Xylenes; ND<0.5 µg/L MTBE	3/31/1997	East Bay Plain	--	Irrigation; Not Functional (Survey dated 11/5/2008)	Unknown
							Historical	17348 Via Encinas	<950 ft	SW	Yes	ND<50 µg/L TPHg; <0.50 µg/L Benzene; <0.50 µg/L Toluene; <0.50 µg/L Ethylbenzene; <0.50 µg/L Xylenes; Not Analyzed MTBE	---	ND<50 µg/L TPHg; ND<0.50 µg/L Benzene; ND<0.50 µg/L Toluene; ND<0.50 µg/L Ethylbenzene; ND<0.50 µg/L Xylenes; Not Analyzed MTBE	3/13/1996	East Bay Plain	--	Irrigation; Unknown (No response to Survey dated 11/5/2008)	Unknown
							Historical	17349 Via Magdalena	<950 ft	SW	Yes	2,200 µg/L TPH-g; 30 µg/L Benzene; 21 µg/L Toluene; 7.9 µg/L Ethylbenzene; 110 µg/L Xylenes; 267 µg/L MTBE	10/14/1992 TPHg; 06/25/1997 Benzene; 9/16/1993 Toluene; 3/15/1995 Ethylbenzene; 10/14/1992 Xylenes; 12/8/1999 MTBE	66 µg/L TPH-g; 0.50 µg/L Benzene; ND<0.50 Toluene; ND<0.50 Ethylbenzene; ND<0.50 Xylenes; 45 µg/L MTBE	6/28/2002	East Bay Plain	--	Irrigation; Destroyed 09/02/2002 due to contamination	Unknown
							Historical	17371 Via Magdalena	<950 ft	SW	Yes	870 µg/L TPH-g; 9.0 µg/L Benzene; 1.0 µg/L Toluene; 3.9 µg/L Ethylbenzene; 4.5 µg/L Xylenes; Not Analyzed MTBE	11/13/1991 TPHg; 11/13/1991 Benzene; 11/13/1991 Toluene; 3/16/1993 Ethylbenzene; 11/13/1991 Xylenes	500 µg/L TPH-g; 8.7 µg/L Benzene; ND<0.5 µg/L Toluene; 3.9 µg/L Ethylbenzene; 3.1 µg/L Xylenes; Not Analyzed µg/L MTBE	3/16/1993	East Bay Plain	--	Irrigation; Destroyed 11/18/2004 due to contamination	Unknown
							Historical	17372 Via Magdalena	<950 ft	SW	Yes	300 µg/L TPH-g; 5.5 µg/L Benzene; 1.3 µg/L Toluene; 1.3 µg/L Ethylbenzene; 1.2 µg/L Xylenes; 16,000 µg/L MTBE	09/27/1991 TPHg; 09/27/1991 Benzene; 06/17/1993 Toluene; 09/27/1991 Ethylbenzene; 12/18/1992 Xylenes; 6/3/1998 MTBE	ND<100 µg/L TPHg; ND<0.50 µg/L Benzene; ND<0.50 µg/L Toluene; ND<0.50 µg/L Ethylbenzene; ND<4.0 µg/L Xylenes; ND<0.50 µg/L MTBE	3/10/2005	East Bay Plain	--	Irrigation; No Longer in Existence (Survey dated 11/5/2008)	Unknown
							Historical	17393 Via Magdalena	<950 ft	SW	Yes	31 µg/L TPH-g; ND<0.50 µg/L Benzene; ND<0.50 µg/L Toluene; ND<0.50 µg/L Ethylbenzene; ND<0.50 µg/L Xylenes; Not Analyzed MTBE	11/13/1991 TPHg	ND<50 µg/L TPHg; ND<0.50 µg/L Benzene; ND<0.50 µg/L Toluene; ND<0.50 µg/L Ethylbenzene; ND<0.50 µg/L Xylenes; ND<2.5 µg/L MTBE	11/26/1996	East Bay Plain	--	Irrigation; Abandoned by homeowner 6/25/1997	Unknown
ARCO (INDEPENDENT)	T0600191157	2 (1 irrigation & 1 unknown)	Open - Remediation	ALAMEDA COUNTY LOP	-122.123190	37.708105	Historical	1573 153rd Ave.	850 ft	SW	Yes	20 µg/L TBA	1/4/2008	---	---	East Bay Plain	---	Irrigation; Unused Currently	Unknown
							Historical	1612 Oriole Ave.	1800 ft	SE	No	---	---	---	---	East Bay Plain	---	Unknown	Unknown
CHEVRON #9-0260	T0600100315	3 (2 irrigation & 1 unknown)	Open - Remediation	ALAMEDA COUNTY LOP	-122.086558	37.680526	Historical	1180 Rex Rd	80 ft	SW	Yes	<50 ug/l TPHg, <0.5 ug/l BTEX, MTBE	10/1/2004	<50 ug/l TPHg, <0.5 ug/l BTEX, MTBE	10/1/2004	East Bay Plain	36 feet deep	Unused Currently	Unknown
							Historical	1108 Rex Rd	430 ft	SW	Yes	<50 ug/l TPHg, <0.5 ug/l BTEX, MTBE	10/1/2004	<50 ug/l TPHg, <0.5 ug/l BTEX, MTBE	10/1/2004	East Bay Plain	Unknown	Current; irrigation	Unknown
							Historical	22047 Rio Vista St	600 ft	SSW	Yes	<50 ug/l TPHg, <0.5 ug/l BTEX, 2.0 ug/l MTBE	10/1/2004	<50 ug/l TPHg, <0.5 ug/l BTEX, 2.0 ug/l MTBE	10/1/2004	East Bay Plain	Unknown	Current; irrigation	Unknown

Table A-1: Alameda County LOP LUFT Cases Impacting Domestic Wells Evaluation (Continued)

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))											
								Well Name	Approx. Distance from Source	Direction from Source	Well Sampled	Max Detects	Dates of Max Detects	Current Data	Most Recent Date	GW Basin of Watershed Name	Well Construction Info	Current or Historical Supply of Water to Public?	Any Known Adverse Impacts to Human Health?
CHEVRON #9-7127	T0600102298	1 (unknown use)	Open - Site Assessment	ALAMEDA COUNTY LOP	-121.585113	37.739237	Historical	WSW-1	55 ft	East	Yes	7 ug/l Benzene; 3 ug/l Toluene; 1 ug/l Total Xylenes; Ethylbenzene Not Analyzed; TPH "ND"	4/5/1989	<50 ug/l TPHg, <0.5 ug/l BTEX, MTBE	11/23/2011	East Bay Plain	90 TD; vertical slots 67 ft to TD	Unknown	Carbon treatment system added; Unknown
SUNOL TREE GAS	T0600114064	1 (supply well)	Open - Site Assessment	Transferred to SF RWQCB on 5/31/2012	-121.884817	37.573170	Current	---	650 ft	---	---	---	---	---	---	---	---	Domestic; Active, Carbon Treatment System on Wellhead	---
CHEVRON #9-8139	T0600100303	2 (1 irrigation & 1 unknown)	Open-Site Assessment	ALAMEDA COUNTY LOP	-122.108421	37.701251	Potential	16308 Bevil Way	1,300 ft	SW	No	---	---	---	---	East Bay Plain	---	Current use for irrigation	Unknown
							Current	16322 Bevil Way	1,300 ft	SW	Yes	<50 ug/l TPHg, <0.5 ug/l BTEX, 2.3 ug/l MTBE	2/13/2012	Same	2/13/2012	East Bay Plain	---	Unused Currently	Unknown
RAS-CO MANUFACTURING COMPANY	T0600101947	4 (unknown)	Open-Site Assessment	ALAMEDA COUNTY LOP	-122.110609	37.670456	Historical	413 W. Sunset Blvd	45 ft	NW	Yes	<500 ug/l TPHg, <5.0 ug/l BTE; <15 ug/l Total Xylenes, 1,200 ug/l MTBE	2/29/1996	<50 ug/l TPHg, <0.5 ug/l BTEX, MTBE, TBA, DIPE, ETBE, TAME, EDC, EDB	12/16/2010	East Bay Plain	90 ft TD; screen unknown	Unused Currently	Unknown
							Potential	565 W. Sunset	600 ft	WSW	No	Pending	---	---	---	East Bay Plain	---	Unused Currently	Unknown
							Potential	20555 Garden Ave.	755 ft	WNW	No	Pending	---	---	---	East Bay Plain	---	Unused Currently	Unknown
							Potential	20943 Garden Ave.	600 ft	WNW	No	Pending	---	---	---	East Bay Plain	---	Unused Currently	Unknown

-Additional Cases and associated well information provided by Alameda County LOP that were not within the Draft Impacted Domestic Wells Report.

El Dorado County Local Oversight Program Agency (LOP)

Table B-1: El Dorado County LOP LUFT Cases Impacting Domestic Wells Evaluation

Table B-1: El Dorado County LOP LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))											
								Well Name	Approx. Distance from Source	Direction from Source	Well Sampled	Max Detects	Dates of Max Detects	Current Data	Most Recent Date	GW Basin of Watershed Name	Well Construction Info	Current or Historical Supply of Water to Public?	Any Known Adverse impacts to Human Health?
ALOHA MARKET (FORMERLY SIERRA FARMS)	T0601791989	1 (irrigation well)	Open - Remediation	EL DORADO COUNTY LOP	-120.870134	38.680438	Historical	Taeger Well	450 ft	West	Yes	ND for BTEX and MTBE	5/1/2011	ND for BTEX and MTBE	5/1/2011	--	--	No, used for irrigation of property. Owner uses public water.	None. Nearby area mostly served by public water purveyor (EID).

Merced County Local Oversight Program Agency (LOP)

Table C-1: Merced County LOP LUFT Cases Impacting Domestic Wells Evaluation

Table C-1: Merced County LOP LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
CHICKEN LIVEHAUL	T0604700338	0	Open - Remediation	MERCED COUNTY LOP	-120.759300	37.411369	NA	Estimated # of impacted wells was 1 and the data for this well indicated that all tests came back ND for any petroleum constituent. Updated GeoTracker to reflect that there is no impact.
SHANNON'S	T0604700163	3 (supply)	Open - Remediation	MERCED COUNTY LOP	-120.487702	37.283197	Historical	There were three domestic wells reported having been destroyed and were connected to city water. No records were found indicating that the wells were sampled.

Napa County Local Oversight Program Agency (LOP)

Table D-1: Napa County LOP LUFT Cases Impacting Domestic Wells Evaluation

Table D-1: Napa County LOP LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
CALISTOGA CITY PUB WKS DEPT	T0605500259	2 (supply wells)	Open - Verification Monitoring	NAPA COUNTY LOP	-122.572639	38.577050	Historical for Both Wells	One supply well that was used for bottled water (Domestic well CG1) was destroyed in 2001. MTBE was detected in this well, concentrations were not provided. There are another two wells that are located near the site and are currently inactive and not in use. One of the domestic wells has never had a detection (Domestic well CG3) and is located approximately 320 ft west/southwest of the site. The other well (Domestic well CG4) has had MTBE detection(s) (concentrations not provided) and is located approximately 300 ft southwest of the site. All wells were screened in deep aquifers and it was believed that a poor seal on former domestic well CG1 allowed shallow contamination to migrate to deeper zones. The last time the wells were sampled was in 2005. *Note all well names were taken from consultant documents. The regulator noted that this site will be closing soon.
CHEVRON	T0605500044	1 (supply well)	Open - Verification Monitoring	NAPA COUNTY LOP	-122.285535	38.325102	Historical	One domestic well was destroyed. No other domestic wells are impacted. The well was for domestic use only. The regulator noted that this site will be closing soon.

Orange County Local Oversight Program Agency (LOP)

Table E-1: Orange County LOP LUFT Cases Impacting Domestic Wells Evaluation

Table E-1: Orange County LOP LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
CHEVRON #9-3530	T0605900085	0	Open - Remediation	ORANGE COUNTY LOP	-118.102563	33.744216	NA	Data entry error. Case should not have been reported as impacting a well in the GeoTracker Closure Review Page.
THRIFTY OIL #371	T0605901800	0	Open - Verification Monitoring	ORANGE COUNTY LOP	-117.937709	33.765224	NA	Data entry error. Case should not have been reported as impacting a well in the GeoTracker Closure Review Page.
CAPISTRANO CAR WASH	T0605999189	0	Open - Site Assessment	ORANGE COUNTY LOP	-117.666892	33.485956	NA	At the time that the closure review page needed to be filled out, it was thought that the wells could be potentially impacted. Since that time however, additional investigation has found that there has been no impact, despite the shutting down of the Tirador well and the determination that the Kinoshita well was more likely impacted from one or two sites that are now overseen by the San Diego Regional Board (T0605902379) or (T10000000266).
TOSCO - 76 #5425	T0605902561	0	Open - Site Assessment	ORANGE COUNTY LOP	-117.656919	33.502712	NA	At the time that the closure review page needed to be filled out, it was thought that the wells could be potentially impacted. Since that time however, additional investigation has found that there has been no impact, despite the shutting down of the Tirador well and the determination that the Kinoshita well was more likely impacted from one or two sites that are now overseen by the San Diego Regional Board (T0605902379) or (T10000000266).

Sacramento County Local Oversight Program Agency (LOP)

Table F-1: Sacramento County LOP LUFT Cases Impacting Domestic Wells Evaluation

Table F-1: Sacramento County LOP LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
PARK N GAS	T0606701116	0	Open - Remediation	SACRAMENTO COUNTY LOP	-121.398608	38.547126	NA	The consultant's name for the well was "8372 Jackson Rd." Chrom VI was the contaminant of concern and at first they thought it was a result of the remedial action (ozone injection) but have since determined to be naturally occurring.
DHAMI TRUCK PLAZA	T0606700876	5 (supply wells)	Open - Site Assessment	CENTRAL VALLEY RWQCB (Region 5S)	-121.417315	38.471675	Current	The regulator indicated that there are approximately 5 impacted domestic wells and that these domestic wells are a source of water supply to the surrounding community. She indicated that the domestic wells were sampled in August 2012. *Note that this case is not overseen by Sacramento County LOP.
BEACON #429	T0606700388	1	Open-Remediation	SACRAMENTO COUNTY LOP	-121.46478	38.506345	Historical	Regulator indicated that domestic well DW-1 was historically impacted but was destroyed. DW-2 still exists and supplies water. It is unknown if this well has been impacted.

-Additional Cases and associated well information provided by Sacramento County LOP that were not within the Draft Impacted Domestic Wells Report.

San Diego County Local Oversight Program Agency (LOP)

Table G-1: San Diego County LOP LUFT Cases Impacting Domestic Wells Evaluation

Table G-1: San Diego County LOP LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
JULIAN CHEVRON	T0607300317	Unknown (3 supply wells impacted but potential for additional)	Open - Remediation	SAN DIEGO COUNTY LOP	-116.602420	33.078650	Current	<p>The regulator referenced this site as "Former Chevron." There are privately owned wells that have been impacted; they are the Baileys BBQ Well, Z&C/Stonewall Well (JCSD-10) and the Finnhonka (Finn) Well. There are several other wells in the community that may have been impacted but access to those wells has not been granted either by the owner or there is just an inability to access the well (Straube Well, Gold Nugget Well, 1912 Main Well and Jess Martin Well). The locations of these wells and all the groundwater monitoring wells are depicted on Figure 2 in the document titled Monitoring Well Construction Report, Well Permit No. LMON107985 dated March 2, 2012. (In GeoTracker this document is titled GT-34 Well Construction Q112 dated March 18, 2012.) All the supply wells that have been impacted have been located with GPS and their locations are on GeoTracker. The supply wells that may have been impacted but not verified have not been located using a GPS but their locations are accurately plotted on the figure referenced above. It should be noted that the Straube Well and the Z&C Stonewall well (JCSD-10) historically have been connected to the JCSD water system but are not owned by the JCSD.</p> <p>Currently the downtown portion of the downtown well field has been shut down and water is being obtained from JCSD-6 located near Jess Martin Park and the Vulcan Mountain well field. COC is MTBE.</p>
JULIAN CIDER MILL	T0607300511	Unknown (3 supply wells impacted but potential for additional)	Open - Remediation	SAN DIEGO COUNTY LOP	-116.601456	33.077949	Current	<p>The regulator referenced this site as "Former Julian Cider Mill." There are privately owned wells that have been impacted; they are the Baileys BBQ Well, Z&C/Stonewall Well (JCSD-10) and the Finnhonka (Finn) Well. There are several other wells in the community that may have been impacted but access to those wells has not been granted either by the owner or there is just an inability to access the well (Straube Well, Gold Nugget Well, 1912 Main Well and Jess Martin Well). The locations of these wells and all the groundwater monitoring wells are depicted on Figure 2 in the document titled Monitoring Well Construction Report, Well Permit No. LMON107985 dated March 2, 2012. (In GeoTracker this document is titled GT-34 Well Construction Q112 dated March 18, 2012.) All the supply wells that have been impacted have been located with GPS and their locations are on GeoTracker. The supply wells that may have been impacted but not verified have not been located using a GPS but their locations are accurately plotted on the figure referenced above. It should be noted that the Straube Well and the Z&C Stonewall well (JCSD-10) historically have been connected to the JCSD water system but are not owned by the JCSD.</p> <p>Currently the downtown portion of the downtown well field has been shut down and water is being obtained from JCSD-6 located near Jess Martin Park and the Vulcan Mountain well field. COC is MTBE.</p>

Table G-1: San Diego County LOP LUFT Cases Impacting Domestic Wells Evaluation (Continued)

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
NH COZENS, INC	T0607301326	Unknown (3 supply wells impacted but potential for additional)	Open - Remediation	SAN DIEGO COUNTY LOP	-116.600502	33.077363	Current	The regulator referenced this site as "Norm's Service Station." There are privately owned wells that have been impacted; they are the Baileys BBQ Well, Z&C/Stonewall Well (JCSD-10) and the Finnhonka (Finn) Well. There are several other wells in the community that may have been impacted but access to those wells have not been granted either by the owner or inability to access the well (Straube Well, Gold Nugget Well, 1912 Main Well and Jess Martin Well). The location of these wells and all the groundwater monitoring wells are depicted on Figure 2 in the document titled Monitoring Well Construction Report, Well Permit No. LMON107985 dated March 2, 2012. (In GeoTracker this document is titled GT-34 Well Construction Q112 dated March 18, 2012.) All the supply wells that have been impacted have been located with GPS and their locations are on GeoTracker. The supply wells that may have been impacted but not verified have not been located using a GPS but their locations are accurately plotted on the figure referenced above. It should be noted that the Straube Well and the Z&C Stonewall well (JCSD-10) historically have been connected to the JCSD water system but are not owned by the JCSD. Currently the downtown portion of the downtown well field has been shut down and water is being obtained from JCSD-6 located near Jess Martin Park and the Vulcan Mountain well field. COC is MTBE.
ROBERTA H GREEN	T0607300506	Unknown (3 supply wells impacted but potential for additional)	Open - Remediation	SAN DIEGO COUNTY LOP	-116.601661	33.078095	Current	The regulator referenced this site as "Former Julian Auto Parts." There are privately owned wells that have been impacted; they are the Baileys BBQ Well, Z&C/Stonewall Well (JCSD-10) and the Finnhonka (Finn) Well. There are several other wells in the community that may have been impacted but access to those wells have not been granted either by the owner or there is just an inability inability to access the well (Straube Well, Gold Nugget Well, 1912 Main Well and Jess Martin Well). The locations of these wells and all the groundwater monitoring wells are depicted on Figure 2 in the document titled Monitoring Well Construction Report, Well Permit No. LMON107985 dated March 2, 2012. (In GeoTracker this document is titled GT-34 Well Construction Q112 dated March 18, 2012.) All the supply wells that have been impacted have been located with GPS and their locations are on GeoTracker. The supply wells that may have been impacted but not verified have not been located using a GPS but their locations are accurately plotted on the figure referenced above. It should be noted that the Straube Well and the Z&C Stonewall well (JCSD-10) historically have been connected to the JCSD water system but are not owned by the JCSD. Currently the downtown portion of the downtown well field has been shut down and water is being obtained from JCSD-6 located near Jess Martin Park and the Vulcan Mountain well field. COC is MTBE.

San Joaquin County Local Oversight Program Agency (LOP)

Table H-1: San Joaquin County LOP LUFT Cases Impacting Domestic Wells Evaluation

Table H-1: San Joaquin County LOP LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))									
								Well Name	Approx. Distance from Source	Direction from Source	Well Sampled	Max Detects	Dates of Max Detects	Current Data	Most Recent Date	Current or Historical Supply of Water to Public? Additional Notes	Any Known Adverse Impacts to Human Health?
CHEROKEE TRUCK STOP	T0607700156	2 (1 supply well & 1 "transient" well)	Open - Verification Monitoring	SAN JOAQUIN COUNTY LOP	-121.254181	37.991235	Historical	"Small Well" Well # 3901330-002	260 ft	West	Yes	16 ug/L Toluene; 0.71 ug/L 1,1-DCA; 0.83 ug/L cis 1,2-DCA; 25 ug/L PCE; TPH, BEX, MTBE were not detected	05/08/2002; 2/11/2002; 2/11/2002; 11/3/2011	ND for all constituents sampled. Chlorinated hydrocarbons were not analyzed for.	11/3/2011	Historically until taken out of service in 2002.	No known adverse impacts to human health
								"Large Well" Well # 3901331-001	-500 ft	North-Northeast	Yes	270 ug/L TPHd	3/28/2001	ND for TPHd	11/29/2007	Small public water system classified as Transient, non-community water system	No known adverse impacts to human health
GILLIES TRUCKING	T0607700234	2 (supply wells)	Open - Site Assessment	SAN JOAQUIN COUNTY LOP	-121.258458	37.995819	Historical	G-1	100 ft	North	Yes	3,300 ug/L TPHd	6/14/1999	TPHd was ND	11/0/2004	G-1 was destroyed.	No known adverse impacts to human health
								WSW-1	170 ft	East/Northeast	Yes	120 ug/L TPHd; 250 ug/L TPHmo	3/3/2008 for both.	170 ug/L TPHg	1/24/2009	WSW-1 is utilized for the site water supply.	No known adverse impacts to human health
PACIFIC COAST RECREATION	T0607700046	1 (supply well)	Open - Remediation	SAN JOAQUIN COUNTY LOP	-121.226178	37.929955	Historical	"Impacted Domestic Well"	40 ft	South	Yes	88,000 ug/L TPHg; 8,900 ug/L Benzene; 1,800 ug/L Ethylbenzene; 8,800 ug/L Toluene	6/25/2002 for TPHg, Benzene, and Ethylbenzene. 9/24/2002 for Toluene	ND for all constituents	3/21/2006	Old "Impacted Domestic Well" was last used and was abandoned in 2006. New well installed (DW3755) has not been impacted.	No known adverse impacts to human health

Table H-1: San Joaquin County LOP LUFT Cases Impacting Domestic Wells Evaluation (Continued)

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))									
								Well Name	Approx. Distance from Source	Direction from Source	Well Sampled	Max Detects	Dates of Max Detects	Current Data	Most Recent Date	Current or Historical Supply of Water to Public? Additional Notes	Any Known Adverse Impacts to Human Health?
SHELL #204-7524-3505	T0607700697	8 (1 irrigation & 7 unknown)	Open - Remediation	SAN JOAQUIN COUNTY LOP	-121.334647	37.965050	Historical	Cal Trans Well	135 Ft	South	Yes	280 ug/L TPPH; 160 ug/L Toluene; 0.934 ug/L Ethylbenzene; 4.33 ug/L Xylenes; 38 ug/L MTBE	9/5/1997; 9/5/1997; 10/28/1999; 10/28/1999; 4/23/1998	ND for all constituents	5/1/2012	Irrigation Well	No known adverse impacts to human health
							Historical	Boardman Well Port	850 ft	Southeast	Yes	80 ug/L TPPH; 0.29 ug/L Toluene; 0.38 ug/L Xylenes	4/15/1999 for all.	ND for all constituents	MTBE and TBA 9/10/2012 and rest of analytes 7/27/2001	Private well--unknown use	No known adverse impacts to human health
							Historical	Boardman Well Down	735 ft	Southeast	Yes	17 ug/L MTBE	4/23/1998	ND for all constituents	4/10/2008	Private well--unknown use	No known adverse impacts to human health
							Historical	Wilson Well Port	910 ft	South/Southeast	Yes	5.3 ug/L MTBE	1/27/1999	ND	5/1/2012	Private well--unknown use	No known adverse impacts to human health
							Historical	Harris Well Port	1,000 ft	South/Southeast	Yes	8.6 ug/L MTBE	1/27/1999	ND	5/1/2012	Private well--unknown use	No known adverse impacts to human health
							Historical	Foster Well Down	1190 ft	South/Southeast	Yes	15 ug/L MTBE	7/28/2000	ND	5/12/2011	Private well--unknown use	No known adverse impacts to human health
							Historical	Sannella Well Port	1190 ft	South/Southeast	Yes	8,100 ug/L TPPH; 40 ug/L Benzene; 23 ug/L Toluene; 28 ug/L Ethylbenzene; 76 ug/L Xylenes; 80 ug/L MTBE	7/29/1998; 8/29/1997; 8/29/1997; 8/29/1997; 8/29/1997; 4/23/1998	ND for all constituents	7/27/2001	Private well--unknown use	No known adverse impacts to human health
							Unknown	Sannella Well Down	Not provided	Not Provided	No	Unknown	Unknown	Unknown	Unknown	Unknown	Private well--unknown use

San Mateo County Local Oversight Program Agency (LOP)

Table I-1: San Mateo County LOP LUFT Cases Impacting Domestic Wells Evaluation

Table I-1: San Mateo County LOP LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))
EXXON 7-0259 (FORMER) ECR SB COMINGLED	T0608100537	Unknown (irrigation wells only)	Open - Verification Monitoring	SAN MATEO COUNTY LOP	-122.416477	37.629163	Current	It was determined that irrigation wells were impacted but no domestic drinking water wells and therefore should be removed from report. The wells are still looked at as potential exposure points though.
SHELL ECR SB COMINGLED	T0608100491	Unknown (irrigation wells only)	Open - Verification Monitoring	SAN MATEO COUNTY LOP	-122.416302	37.628811	Current	It was determined that irrigation wells were impacted but no domestic drinking water wells and therefore should be removed from report. The wells are still looked at as potential exposure points though.

Sonoma County Local Oversight Program Agency (LOP)

Table J-1: Sonoma County LOP LUFT Cases Impacting Domestic Wells Evaluation

Table J-1: Sonoma County LOP LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))								Current or Historical Supply of Water to Public? Additional Notes	Any Known Adverse Impacts to Human Health?
								Well Name	Approx. Distance from Source	Direction from Source	Well Sampled	Max Detects	Dates of Max Detects	Current Data	Most Recent Date		
C & G Development	T0609700200	1 (fire protection/plumbing use)	Open - Site Assessment	SONOMA COUNTY LOP	-122.712253	38.373115	Historical	DW	20 ft	W	Yes	380 ppb MTBE	6/11/1999	8.6 ppb MTBE	2/25/2009	Well destroyed in Sept. 2009. Was used for fire protection and plumbing	No Known adverse impacts
Ehler Property	T0609700112	1 (supply)	Closed on 9/26/2012	SONOMA COUNTY LOP	-122.714977	38.379191	Unknown	DW-1	110 ft	E	Yes	2.0 ppb MTBE	4/1/2005	None--access denied	NA	Services a residence. Wellhead treatment installed on 6/30/2005.	No Known adverse impacts
Fast & Easy Mart	T0609700430	1 (serviced mini mart)	Open - Site Assessment	SONOMA COUNTY LOP	-122.765789	38.512687	Historical	DW5321	70 ft	SW	Yes	4.5 ppb MTBE	10/31/2008	4.2 ppb MTBE	3/19/2011	Well serviced a mini-mart but is now hooked up to Cal American Water company. **Well	No Known adverse impacts
JEMCO (former)	T0609700270	8 (supply)	Open - Verification Monitoring	SONOMA COUNTY LOP	-122.725107	38.387782	Historical	DW-365	50 ft	SE	Yes	100 ppb MTBE; 45 ppb TAME	01/07/00 and 09/06/01 respectively	<0.5 ppb MTBE; <1.0 ppb TAME	10/22/03 and 10/22/05 respectively	Property serviced by municipal water.	No Known adverse impacts
							Historical	DW-423	400 ft	N	Yes	19 ppb MTBE	3/23/2000	19 ppb MTBE	3/23/2000	Property serviced by municipal water.	No Known adverse impacts
							Historical	DW-306	750 ft	SE	Yes	13 ppb MTBE	3/20/2001	<0.50 ppb MTBE	10/22/2003	Property serviced by municipal water.	No Known adverse impacts
							Historical	DW-311	400 ft	E	Yes	1.3 ppb MTBE	3/20/2001	<0.50 ppb MTBE	3/11/2003	Property serviced by municipal water.	No Known adverse impacts
							Current	DW-330	400 ft	SE	Yes	140 ppb MTBE	8/23/2004	16 ppb MTBE	10/21/2005	Property serviced by municipal water.	No Known adverse impacts
							Historical	DW-348	750 ft	S	Yes	5.4 ppb MTBE	3/23/2000	<1.0 ppb MTBE	4/12/2005	Property serviced by municipal water.	No Known adverse impacts
							Current	DW-369	Adjacent to site	W	Yes	960 ppb MTBE; 1.5 ppb TAME	12/26/00 and 3/8/2002 respectively	28 ppb MTBE; <0.50 ppb TAME	10/21/2005 for both	Property is serviced by a charcoal filter	No Known adverse impacts
Current	DW-376	400 ft	SW	Yes	38 ppb MTBE	8/1/2007	38 ppb MTBE	8/1/2007	Property serviced by municipal water.	No Known adverse impacts							
Manzana Products	T0609700281	3 (1 supply and 2 service apple processing plant)	Open - Remediation	SONOMA COUNTY LOP	-122.872227	38.444284	Historical	DW-North	170 ft	NW	Yes	420 ppb TPHd; 2 ppb Benzene; 3.7 ppb DIPE	11/03/99, 04/04/97, and 06/28/01 respectively	<50 ppb TPHd, <0.3 ppb Benzene; <0.50 ppb DIPE	4/6/2012 for all	Well not in use. Alternate water supply provided. New water supply well constructed	No Known adverse impacts
							Historical	DW-Middle	180 ft	W	Yes	230 ppb TPHd; 0.07 ppb Benzene; 0.9 ppb Ethylbenzene; 2 ppb Toluene; and 4 ppb Xylenes	All collected in 11/03/99	<50 ppb TPHd; <0.5ppb Ethyl benzene; <0.5 ppb Toluene; <0.5 ppb Xylenes	All collected in 4/6/2012	Well services an apple processing plant.	No Known adverse impacts
							Historical	DW-South	170 ft	SW	Yes	95 ppb TPHg; 0.81 ppb DIPE; 0.89 ppb Ethylbenzene; 0.7ppb Toluene; 8ppb Xylenes	06/28/2001, 09/30/03, 03/23/99, 11/03/99, and 03/23/99 respectively	<50 ppb TPHg; <0.50 ppb DIPE; <0.5 ppb Ethylbenzene; <0.5 ppb Toluene; and <0.5 ppb Xylenes	All collected in 4/6/2012	Well services an apple processing plant.	No Known adverse impacts
Pacific Pride Cardlock	T0609738076	1 (fire protection/plumbing use)	Open - Site Assessment	SONOMA COUNTY LOP	-122.712417	38.372847	Historical	DW	20 ft	W	Yes	380 ppb MTBE	6/11/1999	8.6 ppb MTBE	2/25/2009	Well destroyed in Sept. 2009. Was used for fire protection and plumbing	No Known adverse impacts
Pipeline Excavators	T0609700457	1 (services a business)	Open - Inactive	SONOMA COUNTY LOP	-122.809031	38.406452	Historical	DW-6140	100 ft	W	Yes	52 ppb MTBE	6/7/2001	<0.5 ppb MTBE	8/3/2006	Well was destroyed on 10/1/2008. Well serviced a business.	No Known adverse impacts
Rohnert Park Shell	T0609700477	2 (supply wells)	Open - Remediation	SONOMA COUNTY LOP	-122.714309	38.363523	Current	DW-80	600 ft	W	Yes	2.4 ppb MTBE	05/8/2001 (pre-treatment)	<1.0 ppb MTBE	12/22/11 (Influent)	Wellhead treatment installed 06/02. Well Services a residence.	No Known adverse impacts
							Current	DW-109	1100 ft	W	Yes	5.5 ppb MTBE	1/13/2005 (Influent)	<1.0 ppb MTBE	12/7/2011 (Influent)	Wellhead treatment installed 06/02. Well Services a residence.	No Known adverse impacts
Santa Rosa U-Haul Center	T0609700082	1 (supply)	Open - Remediation	SONOMA COUNTY LOP	-122.714383	38.389604	Historical	DW-1	170	W	Yes	43 ppb MTBE	9/10/2008	28ppb MTBE (Influent)	5/20/09 (Influent)	Well destroyed in 6/18/09. Public water supplied to residence.	No Known adverse impacts
TURNER ESTATE	T0609734491	1 (unknown)	Site Closed as of 8/2/12	SONOMA COUNTY LOP	-122.700156	38.323376	Historical	DW	65 ft	N	Yes	89 ppb TPHd	4/29/2004	<50 TPHd ppb	12/14/2009	No detections ever reported after 04/04. No information regarding	No Known adverse impacts
Weeks Drilling & Pump	T0609700487	1 (non-operable)	Open - Remediation	SONOMA COUNTY LOP	-122.808468	38.406973	Historical	SDW	200 ft	SW	Yes	97 ppb TPHd; 1.2 ppb MTBE	12/7/2006	97 ppb TPHd; 1.2 ppb MTBE	12/7/2006	Well that was impacted is no longer operable. Alternate deep well is in	No Known adverse impacts
West View Beacon (former)	T0609700188	2 (1 services plant nursery and 1 a gas station mini mart)	Open - Site Assessment	SONOMA COUNTY LOP	-122.866459	38.446131	Historical	DW-1	60 ft	N	Yes	3.6 ppb Toluene;	5/10/2006	<60 ppb Toluene	2/10/2012	One time hit has not been repeated. Well services gas station mini	No Known adverse impacts
							Historical	DW4130	250'	W	Yes	130 ppb TPHg; 19.1 ppb Benzene	1/30/2007 for both	<50 ppb TPHg and <0.5 ppb Benzene	2/10/2012 for both	May have charcoal filter. Well is used for a plant	No Known adverse impacts

Table J-1: Sonoma County LOP LUFT Cases Impacting Domestic Wells Evaluation (Continued)

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))									
								Well Name	Approx. Distance from Source	Direction from Source	Well Sampled	Max Detects	Dates of Max Detects	Current Data	Most Recent Date	Current or Historical Supply of Water to Public? Additional Notes	Any Known Adverse impacts to Human Health?
Agius Grocery	T0609700772	3 (1 services a market and 2 unknown)	Open - Verification Monitoring	SONOMA COUNTY LOP	-122.703479	38.254345	Current	DW-4701	50 ft	SW	Yes	170 ppb PCE	12/21/2001	1.9 ppb PCE (pre-filter) <1.0 ppb PCE (post filter)	12/17/2009	Well treatment provided with quarterly sampling. Well services a market.	No known adverse impacts to human health.
							Current	DW-4721	250 Ft	SW	Yes	1.4 ppb PCE; 3.2 ppb CR6	11/1/2002 and 6/1/11 respectively	<1.0 ppb PCE; 2.6 CR6	3/16/2012 and 3/23/12 respectively	Quarterly Sampling conducted. Well treatment required prior to site closure.	No known adverse impacts to human health.
							Historical	DW-84-90	270 ft	S or SW	Yes	1.8 ppb MTBE	6/22/2002	<1.0 ppb MTBE	1/26/2012	Quarterly Sampling conducted.	No known adverse impacts to human health.
Barlas Feed	T0609700869	1 (services a feed store)	Open - Site Assessment	SONOMA COUNTY LOP	-122.676684	38.266606	Historical	WW-1	70'	NE	Yes	3.9 ppb MTBE	12/15/2000	<0.5 ppb MTBE	1/13/2012	One time hit. Well services a feed store	No known adverse impacts to human health.
Bonneau's Shell	T0609700788	1 (unknown)	Open - Remediation	SONOMA COUNTY LOP	-122.461496	38.235589	Current	Vineyard Inn Hotel Domestic Well	240'	E	Yes	33 ppb MTBE	2/5/2007	<5.0 ppb MTBE	7/18/2011	Well head treatment has been installed (granular activated carbon). Influent & effluent sampled. MTBE not	No known adverse impacts to human health.
Chevron Station #9-8849	T0609701020	1 (supply)	Open - Site Assessment	SONOMA COUNTY LOP	-122.469547	38.293259	Historical	WSW	20'	W	Yes	386 ppb MTBE	11/10/1999	<.5 ppb MTBE	7/19/2011	Well historically serviced a residence. The 590 Napa well hooked up to City water with a backflow prevention device. Well	No known adverse impacts to human health.
Hollow Tree Store (former)	T0609700408	1 (unknown)	Open - Site Assessment	SONOMA COUNTY LOP	-123.319006	38.694840	Historical	DW-1	120'	West	Yes	76 ppb TPHg; 12/4 ppb MTBE; 22.8 ppb 1,2-DCA	12/5/2006, 12/5/2006, and 9/23/2003, respectively.	<50 ppb TPHg; <0.5 ppb MTBE; and <0.5 ppb 1,2-DCA	All collected in 3/7/2012	Water well is reportedly not being used	No known adverse impacts to human health.
Lambert's Chevron	T0609700304	1 (services concession)	Open - Remediation	SONOMA COUNTY LOP	-122.996532	38.501963	Current	DW-1, John's Beach Well	700'	SW	Yes	5.85 ppb MTBE	9/25/2003	1.2 ppb MTBE	3/21/2012	Potential source only. Well services Johnson Beach concession	No known adverse impacts to human health.

-There are 9 domestic wells currently impacted because "DW" is the same well impacted by two different LUFT cases. All other wells are determined to be independent.

Tulare County Local Oversight Program Agency (LOP)

Table K-1: Tulare County LOP LUFT Cases Impacting Domestic Wells Evaluation

Table K-1: Tulare County LOP LUFT Cases Impacting Domestic Wells Evaluation

CASE(S) IMPACTING WELL(S)	CASE GLOBAL ID	# IMPACTED WELLS	CASE STATUS	LEAD AGENCY	Case LONGITUDE	Case LATITUDE	TIME FRAME FOR IMPACT TO WELL	Additional Well Information (Provided by Regulator(s))						
								Well Name	Well Sampled	Max Detects	Dates of Max Detects	Current Data	Most Recent Date	Additional Notes
SEVILLE MARKET	T0610700318	3 (unknown use)	Open - Remediation	TULARE COUNTY LOP	-119.222600	36.485432		Regulator provided copies of pages from the 2012 "Progress Report" for groundwater monitoring and remediation and the data on the three Seville Market wells presented below were extracted from that report.						
							Historical	DW-1	Yes	57 ug/L TPHd; 3.3 ug/L Benzene; 6.3 ug/L Toluene; 2.6 ug/L Ethylbenzene; 16 ug/L Total Xylenes	3/24/2010; 03/19/2002; 03/19/2002; 03/22/1999; 03/22/1999	ND for all constituents	9/11/2012	None
							Historical	DW-2	Yes	150 ug/L TPHd; 14 ug/L Benzene; 29 ug/L Toluene; 2 ug/L Ethylbenzene; 12 ug/L Total Xylenes	8/16/2001 for all max detects	ND for all constituents	9/11/2012	None
							Historical	DW-3	Yes	4.7 ug/L Benzene; 7.9 ug/L Toluene; 2.1 ug/L Total Xylenes	6/25/2009 for all max detects	ND for all constituents	9/11/2012	None
CALTRANS LEMON COVE	T0610700028	1 (unknown use)	Open - Verification Monitoring	TULARE COUNTY LOP	-119.018623	36.400357		Regulator provided copies of pages from the 2011 Groundwater Monitoring Report for the Lemon Cove Maintenance Station and the data on the CalTrans wells presented below were extracted from that report.						
							Historical	DW-1	Yes	79 ug/L TPHg; 71 ug/L TPHd; 0.96 ug/L Benzene; 0.86 ug/L Ethylbenzene;	8/12/2008; 12/20/2007; 9/27/2000; 1/4/2002	59 ug/L TPHg (analyzed past holding time); remaining constituents were ND	10/12/2011	None
KRANSIG CORPORATION	T0610700412	1 (unknown use)	Open - Remediation	TULARE COUNTY LOP	-119.099849	36.145367		Regulator provided copies of pages from the 2009 Groundwater and Soil Vapor Extraction System Monitoring Report and the data on the one Kransig domestic well that is presented below was extracted from that report.						
							Historical	"Domestic Well"	Yes	120 ug/L TPHd; 120 ug/L MTBE; 20 ug/L Benzene; 3.7 ug/L Toluene; 3.7 ug/L Total Xylenes	9/12/2002 for all max detects	ND for all constituents	3/9/2007	According to the regulator this site should not be considered to currently endanger a domestic water well, as the affected domestic water well has since been abandoned.
MICHAEL WOO'S MINI MART	T0610700011	1 (unknown use)	Open - Remediation	TULARE COUNTY LOP	-119.134406	36.145419		Regulator provided copies of pages from the May 2012 Semi-Annual Groundwater Monitoring and Current Site Remediation Status Report and the data on the one Michael Woo domestic well presented below were extracted from that report.						
							Historical	One domestic well that was located east of the NE corner of the site building. Another residential well was located 260 feet NW of Woo property.	Yes for NW residential well	2,700 ug/L Benzene; 290 ug/L Toluene; 2,030 ug/L Xylenes	9/10/1985 for all analytes	Not provided	Not provided	The domestic well located East of the NE corner of the building was abandoned. Another residential well was located 260 feet NW of Woo property and was abandoned. Regulator indicated that this case should not be considered currently impacting a domestic well since the wells have been abandoned.
WATERMAN INDUSTRIES	T0610700403	1 (unknown use)	Open - Verification Monitoring	TULARE COUNTY LOP	-119.118319	36.250403		Regulator provided copies of pages from the Site Closure Petition for the GNI Waterman Facility and the data on the one Waterman Industries domestic well presented below were extracted from that report.						
							Historical	"Domestic Well"	Yes	0.6 ug/L Benzene; 0.32 ug/L Toluene; 0.89 ug/L Total Xylenes; 2.3 ug/L MTBE	7/12/1999; 3/02/2001; 3/02/2001; 8/21/2001	ND for all constituents	8/20/2008	None
SOUZA PROPERTY	T0610700244	1 (unknown use)	Open - Remediation	TULARE COUNTY LOP	-119.421015	36.181846		Regulator provided copies of pages from the August 2012 First and Second Quarters Remediation Status Report and the data on the one Souza Property domestic well presented below were extracted from that report.						
							Historical	DW	Yes	3.0 ug/L Ethylbenzene; 84 ug/L Xylenes; 1,100 ug/L TPH-g; 5.1 ug/L 1,2-DCA	4/16/2008; 4/16/2008; 4/16/2008; 8/17/2005	ND for all constituents	5/9/2012 for Ethylbenzene, Xylenes, and TPHg. 5/01/2006 for 1,2- DCA.	None