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Alameda County  
Environmental Health



76 Broadway  
Sacramento, California 95818

January 25, 2010

Barbara Jakub  
Alameda County Health Agency  
1131 Harbor Bay parkway, Suite250  
Alameda, California 94502-577

Re: **Quarterly Summary Report—Fourth Quarter 2009**  
**76 Service Station # 3072 RO # 02968**  
**2445 Castro Valley Road**  
**Castro Valley, CA**

Dear Ms. Jakub:

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have any questions or need additional information, please call me at (916) 558-7666.

Sincerely,

A handwritten signature in black ink, appearing to read "Terry L. Grayson". The signature is stylized and includes a large, sweeping flourish at the end.

Terry L. Grayson  
Site Manager  
Risk Management & Remediation

January 18, 2010

Mr. Barbara Jakub  
Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway  
Alameda, California 94502-6577

**Re: Quarterly Summary Report – Fourth Quarter 2009**

Delta Project No.: C1Q-3072069  
ACEH Case No: RO# 2968



Dear Ms. Jakub:

On behalf of ConocoPhillips (COP), Delta Consultants (Delta) has prepared this quarterly summary report for the following location:

**Service Station**

76 Service Station No. 3072

**Location**

2445 Castro Valley Blvd  
Castro Valley, CA

Sincerely,  
**Delta Consultants**

A handwritten signature in blue ink that reads "Evan Chantikian" with "For" written below it.

Evan Chantikian  
Senior Staff Geologist

A handwritten signature in blue ink that reads "Lia Holden".

Lia Holden, PG #8584  
Geologist—Project Manager



Figures:

- Figure 1 – Site Location Map
- Figure 2 – Site Plan

Cc: Mr. Terry Grayson – ConocoPhillips (electronic copy only)

**QUARTERLY SUMMARY REPORT  
Fourth Quarter 2009**

**ConocoPhillips Service Station #3072  
2445 Castro Valley Blvd  
Castro Valley, Alameda County, CA**

**SITE DESCRIPTION**

The general site location is at the intersection of Castro Valley Boulevard and Stoneridge Avenue in Castro Valley, California, as shown on the Vicinity Map (Figure 1). The Site Plan (Figure 2) illustrates the approximate location of the current site features including underground storage tank (UST) system which consists of two 12,000 gallon and one 10,000 gallon gasoline USTs with six fuel dispensers located on three dispenser islands. There is also a waste oil UST located directly south of the station building. The USTs are located to the north of the site, and are oriented approximately northwest-southeast. Two of the dispenser islands are located immediately to the west of the USTs, and oriented perpendicularly. The other island is southeast of, and parallel to the USTs.

**SITE BACKGROUND AND ACTIVITY**

November 1989 through February 1990: Three 10,000 gallon underground storage tanks (USTs), one 550 gallon waste oil UST, and product piping were removed and replaced. The UST pits were over excavated to remove impacted soil, Kaprealian Engineering (KEI), 1990).

November 14, 1989: Six soil samples (A1, A2, B1, B2, C1, and C2) were collected from below the fuel USTs and one soil sample (WO1) was collected from below the waste oil UST. Samples from beneath the gasoline USTs contained concentrations of total petroleum hydrocarbons as gasoline (TPH-G) from non-detect to 11 parts per million (ppm) and non-detect concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX). Concentrations of total petroleum hydrocarbons as diesel (TPH-D) were non-detect in the sample collected from below the diesel UST. The soil samples collected from beneath the waste oil tank contained reportable concentrations of TPH-G, metals, and 1,1-dichloroethene (1,1-DCE) and were non-detect for all other constituents analyzed (KEI), 1990).

November 16, 1989: Six sidewall soil samples (SW1 through SW6) and a grab water sample were collected from the fuel UST. Samples SW1 and SW4 contained TPH-G concentrations of 140 ppm and 160 ppm, respectively. TPH-D was detected at a concentration of 24 ppm in sample SW4 (KEI), 1990).

December 22, 1989: Eight soil sidewall samples (SW1 (17), SW2 (17), SW7 through SW11, and SW3 (17)) were collected after additional excavation of the UST pits. Maximum reported TPH-G concentrations were 1,500 ppm and 1,900 ppm (KEI), 1990).

January 18 and 19, 1990: Three 2-inch diameter monitoring wells (MW1, MW2, and MW3) were installed onsite (KEI), 1990).

February 14, 1990: Three soil samples (P1, P2, and P3) were collected from the product pipeline trenches. Low to non-detect concentrations of TPH-G and BTEX were detected with a maximum TPH-G concentration of 87 ppm (KEI), 1990.

March 9, 1990: Three sidewall soil samples (SWB, SWC, and SWD) were collected from the sidewalls of the waste oil UST pit. Low to non-detect concentrations of TPH-G and BTEX were detected with a maximum TPH-G concentration of 37 ppm (KEI), 1990.

April 24 and 25, 1990: Eight exploratory soil borings (EB1 through EB8) were drilled and soil sampled collected. The borings were backfilled with neat cement. Low to non-detect concentrations of TPH-G and BTEX were detected with a maximum TPH-G concentration of 5 ppm (KEI), 1991).

August 13, 1990: Two 2-inch monitoring wells (MW4 and MW5) were installed. Soil samples from the monitoring well pilot borings contained non-detect concentrations of TPH-G and BTEX in all samples. Benzene was detected at a maximum concentration of 3.2 ppb (KEI), 1990).

June 15, 1993: Monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5 were destroyed by KEI.

June 7, 2001: Gettler-Ryan Inc. (GR) observed the removal of one hydraulic hoist from the site. A soil sample from 8.5 feet below grade (fbg) was reported to contain 1,200 mg/kg TPH-Hydraulic Fluid (GR, 2001).

October 2003: Site environmental consulting responsibilities were transferred to TRC.

January 24, 25 and 31, 2005: TRC conducted a Baseline Site Assessment (TRC, 2005) which involved the advancement of six direct-push borings (SB-1 through SB-6) to assess the presence of hydrocarbon-affected soil and groundwater beneath the site. TPPH was detected in two soil samples at a maximum concentration of 480 ppm in SB-1 at a depth of 8 fbg. MTBE was detected in two soil samples at a maximum concentration of 0.11 ppm in SB-3 at a depth of 18 fbg. MTBE was detected in three of the four grab groundwater samples at a maximum concentration of 87 ppb in boring SB-1.

May 2007: TRC conducted an additional site assessment using cone penetrometer test (CPT) equipment, advancing CPT borings CPT-1, CPT-2, CPT-4, and CPT-5 onsite, to depths of up to 55 fbg. TPH-D was detected in groundwater samples collected in all four soil borings, with a maximum concentration of 800 micrograms per liter ( $\mu\text{g/l}$ ) in the groundwater sample collected from CPT-4. MTBE was in three of four borings with a maximum of 10  $\mu\text{g/l}$  detected in CPT-4. TBA was detected only in CPT-2 at a maximum of 54  $\mu\text{g/l}$ . No other analytes were detected during this investigation.

## **SENSITIVE RECEPTORS**

January 31, 2006: TRC completed a sensitive receptor survey for the site. No wells or water bodies identified during the survey are believed to be near enough to the site or in the direct path of groundwater flow from the site to be considered sensitive receptors.

## **GROUNDWATER MONITORING AND SAMPLING**

There is currently no groundwater monitoring and sampling program for this site.

## **REMEDIATION STATUS**

There has been no remediation action at this site.

## **CONCLUSIONS AND RECOMMENDATIONS**

Although concentrations detected in TRC's May 2007 CPT investigation exceed the Regional Water Quality Control Board's (RWQCB) environmental screening levels (ESLs), concentrations are relatively low (details stated in the site background and activities). Delta submitted the *Work Plan for Delineation of Two Potential Water-Bearing Zones, dated January 14, 2009*. **Delta recommends rescinding the recommendations proposed in the January 14, 2009 work plan and will prepare and submit a revised work plan for well installations appropriate for site conditions. A revised work plan is currently in progress.** Groundwater samples collected from wells that are properly screened, developed, and purged prior to sampling may be more representative than those collected from borings and will provide data for current site conditions. Delta will prepare and submit the work plan during the first quarter 2010.

## **RECENT CORRESPONDENCE**

There has been no recent correspondence.

## **THIS QUARTER ACTIVITIES (Fourth Quarter 2009)**

- No monitoring and sampling was performed for this site.

## **NEXT QUARTER ACTIVITIES (First Quarter 2010)**

- Delta prepared and submitted a Quarterly Summary Report – Fourth Quarter 2009
- No monitoring or sampling is scheduled.

- Delta will prepare and submit a revised work plan for well installation.

**CONSULTANT: Delta Consultants REMARKS**

The descriptions, conclusions, and recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. For any reports cited that were not generated by Delta, the data from those reports is used "as is" and is assumed to be accurate. Delta does not guarantee the accuracy of this data for the referenced work performed nor the inferences or conclusions stated in these reports. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were conducted. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

## References Cited

Kaprealian Engineering Inc., Stockpiled Soil Sampling for Unocal Service Station #3072, 2445 Castro Valley, California, December 5, 1989.

Kaprealian Engineering Inc., Stockpiled Soil Sampling for Unocal Service Station #3072, 2445 Castro Valley, California, January 12, 1990.

Kaprealian Engineering Inc., Waste Oil Stockpiled Soil Sampling for Unocal Service Station #3072, 2445 Castro Valley, California, January 12, 1990.

Kaprealian Engineering Inc., Preliminary Ground Water Investigation at Unocal Service Station #3072, 2445 Castro Valley, California, April 12 1990.

Kaprealian Engineering Inc., Follow Up Soil Sampling Report, Unocal Service Station #3072, 2445 Castro Valley, California, April 13, 1990.

Kaprealian Engineering Inc., Continuing Subsurface Investigation at Unocal Service Station #3072, 2445 Castro Valley, California, June 11, 1990.

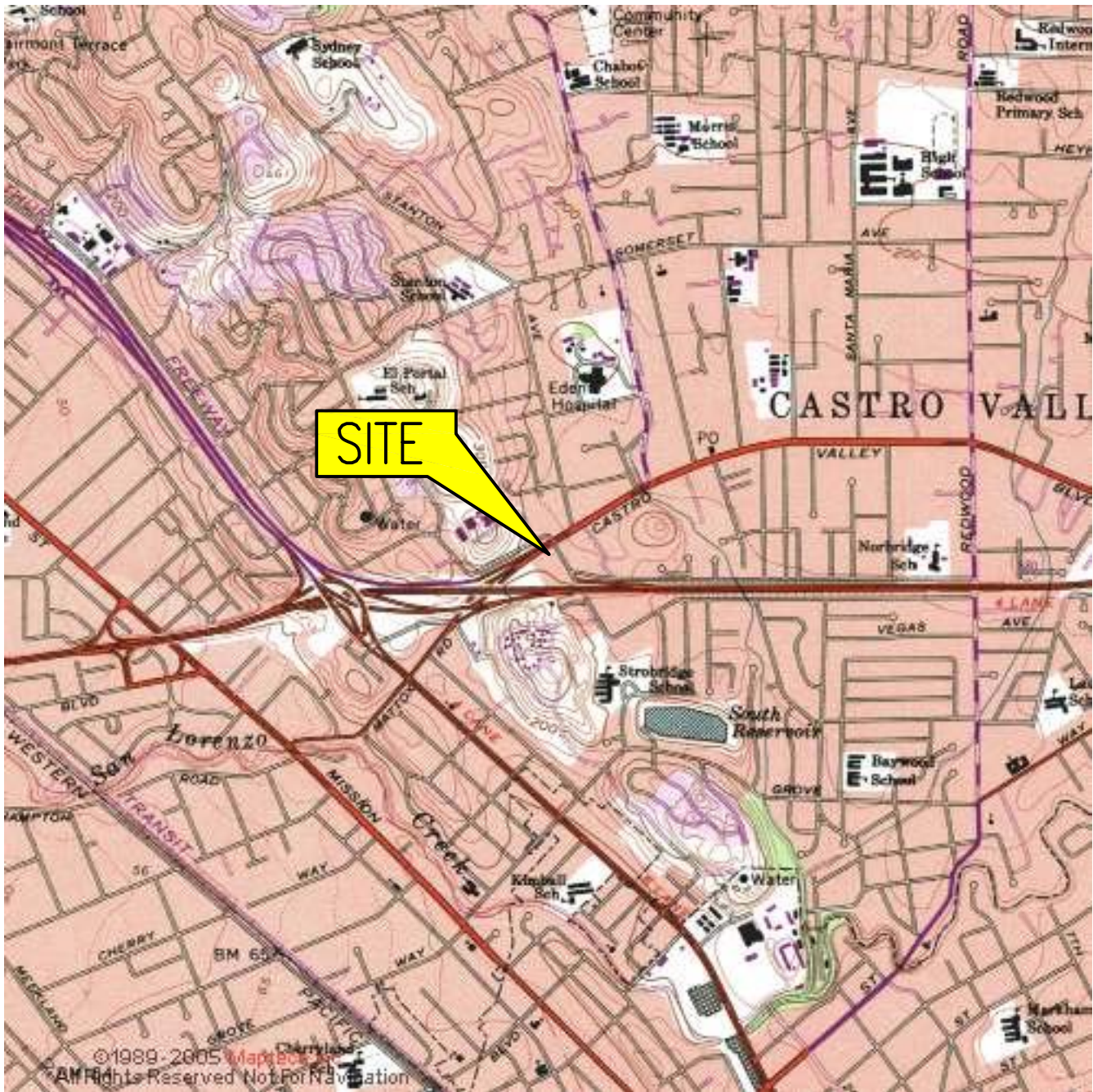
Kaprealian Engineering Inc., Continuing Ground Water Investigation at Unocal Service Station #3072, 2445 Castro Valley, California, September 28, 1990.

Kaprealian Engineering Inc., Report on Destruction of Monitoring Wells at Unocal Service Station #3072, 2445 Castro Valley, California, July 15, 1993.

Kaprealian Engineering Inc., Subsurface Soil Investigation at Unocal Service Station #3072, 2445 Castro Valley, California, February 27, 1996.

Gettler-Ryan Inc., Soil Sampling During Hydraulic Hoist Removal at Tosco Service Station #3072, 2445 Castro Valley Blvd, Castro Valley, California, September 6, 2001.

TRC, Hydropunch Groundwater Investigation Report at 76 Service Station No. 3072, 2445 Castro Valley Blvd, Castro Valley, CA, October 10, 2007



North

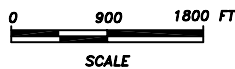


FIGURE 1

SITE LOCATION MAP

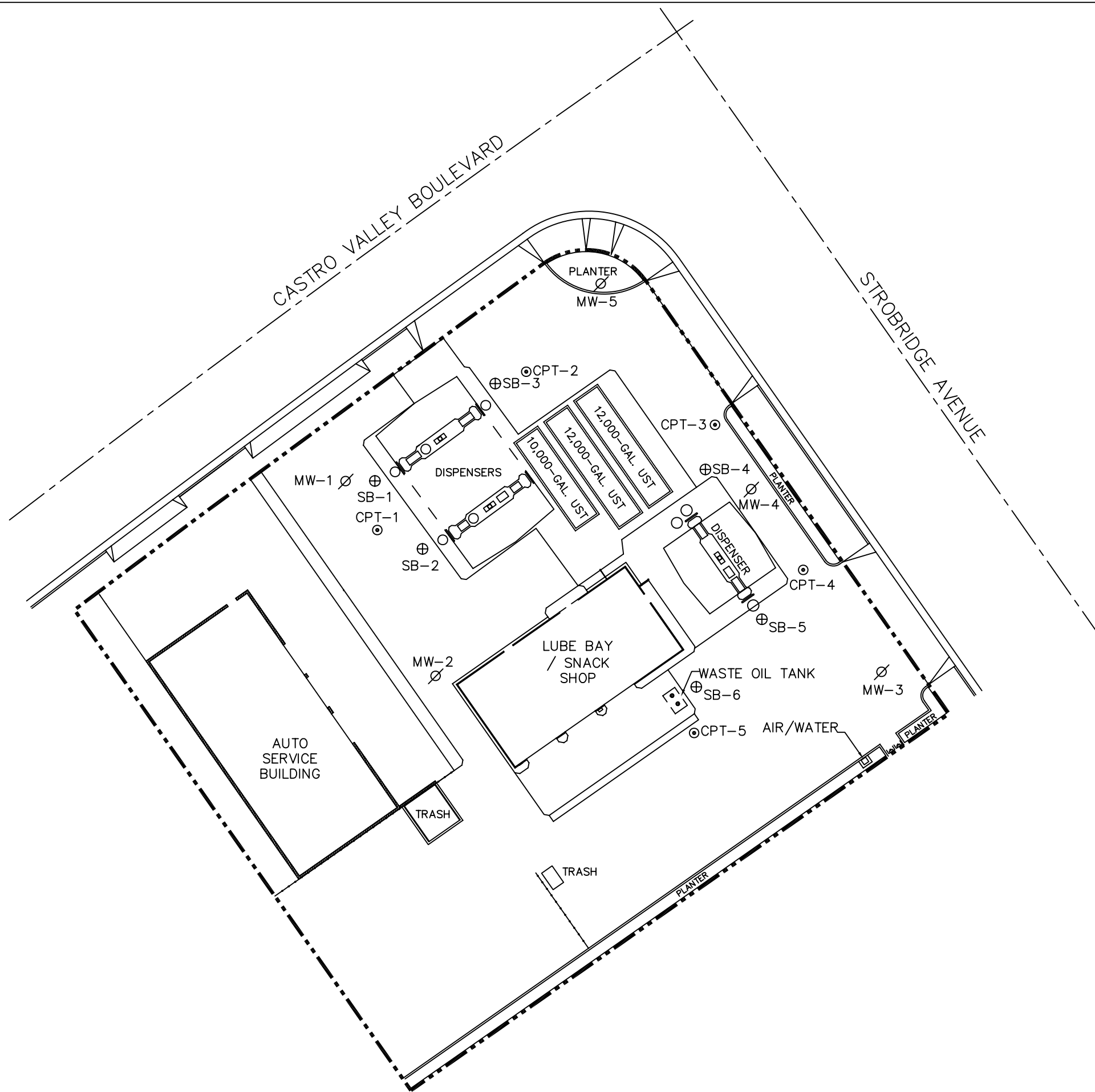
76 SERVICE STATION NO. 3072  
2445 CASTRO VALLEY BOULEVARD  
CASTRO VALLEY, CALIFORNIA

PROJECT NO. C103072	DRAWN BY JH 01/14/09
FILE NO. 3072-SiteLocator	PREPARED BY AB
REVISION NO.	REVIEWED BY JR

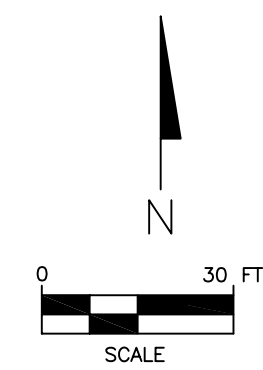


SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, SAN LEANDRO QUADRANGLE (1973)





- LEGEND**
- ⊘ MW-1 DESTROYED MONITORING WELL (KEI, 1993)
  - ⊙ CPT-1 CPT BORING (TRC, 2007)
  - ⊕ SB-4 SOIL BORING
  - PROPERTY BOUNDARY



SOURCE: Client-provided site plan prepared by A&S Engineering, October 1997 and TRC.

**FIGURE 2  
SITE PLAN**

76 SERVICE STATION NO. 3072  
2445 CASTRO VALLEY BOULEVARD  
CASTRO VALLEY, CALIFORNIA

PROJECT NO. C103072	PREPARED BY AB	DRAWN BY JH	
DATE 01/14/09	REVIEWED BY JR	FILE NAME 76-3072	