



PACIFIC  
ENVIRONMENTAL  
GROUP, INC.

AN  COMPANY

June 28, 1999  
Project 325-080.1A

Mr. Phil Briggs  
Chevron Products Company  
P.O. Box 5004  
San Ramon, California 94583

Re: Utility Survey Report  
Chevron Service Station 9-8341  
3530 MacArthur Boulevard  
Oakland, California

Dear Mr. Briggs:

This letter, prepared by Pacific Environmental Group, Inc. (PACIFIC) on behalf of Chevron Products Company (Chevron), presents a utility survey map showing the approximate location and depths of various utilities in the vicinity of the site referenced above. The survey included water, sanitary sewer, and storm drain sewer lines. In addition, the location of all groundwater monitoring wells has been noted, along with the most recent concentrations of total purgeable petroleum hydrocarbons (TPPH) calculated as gasoline, benzene, and methyl tert-butyl ether (MtBE). TCI Cablevision, PacBell, and Pacific Gas and Electric Co. were contacted, but we were unable to obtain information regarding the existence or location of telephone, cable, gas or electric lines in the vicinity as of the date of this report. It has been noted that some utilities are above grade in the site vicinity.

Hydrogeologic data obtained from a previous investigation indicate that the site is underlain by unconsolidated deposits of silty gravel, silt, and silty sand. Groundwater occurs at a depth of approximately 2.5 to 5 feet below ground surface (bgs). The direction of groundwater flow at the site is typically south/southeast, with a moderate gradient of between 0.02 and 0.06. First quarter 1999 analytical data (First Quarter 1999 Groundwater Monitoring Report, Blaine Tech Services Inc.) show residual concentrations of MtBE at the site appear to be limited to the vicinity of Well MW-2, which is located directly south of the tank field and the dispenser islands. Concentrations of MtBE and benzene which were reported for samples taken

February 4, 1998 at Well MW-1, located upgradient of the dispenser islands, may have been anomalous; all constituents at this well have been reported as non-detected during subsequent quarterly monitoring.

Because the local groundwater depth is shallow (2.5 to 5 feet bgs) and utility lines occur at depths ranging from 3 to 7 feet bgs, there is a possibility that some utility lines downgradient of the site may affect the potential migration MtBE and gasoline constituents in groundwater. The Utility Survey Map is attached as Figure 1. Please do not hesitate to call if you have any questions.

Sincerely,

**Pacific Environmental Group, Inc.**











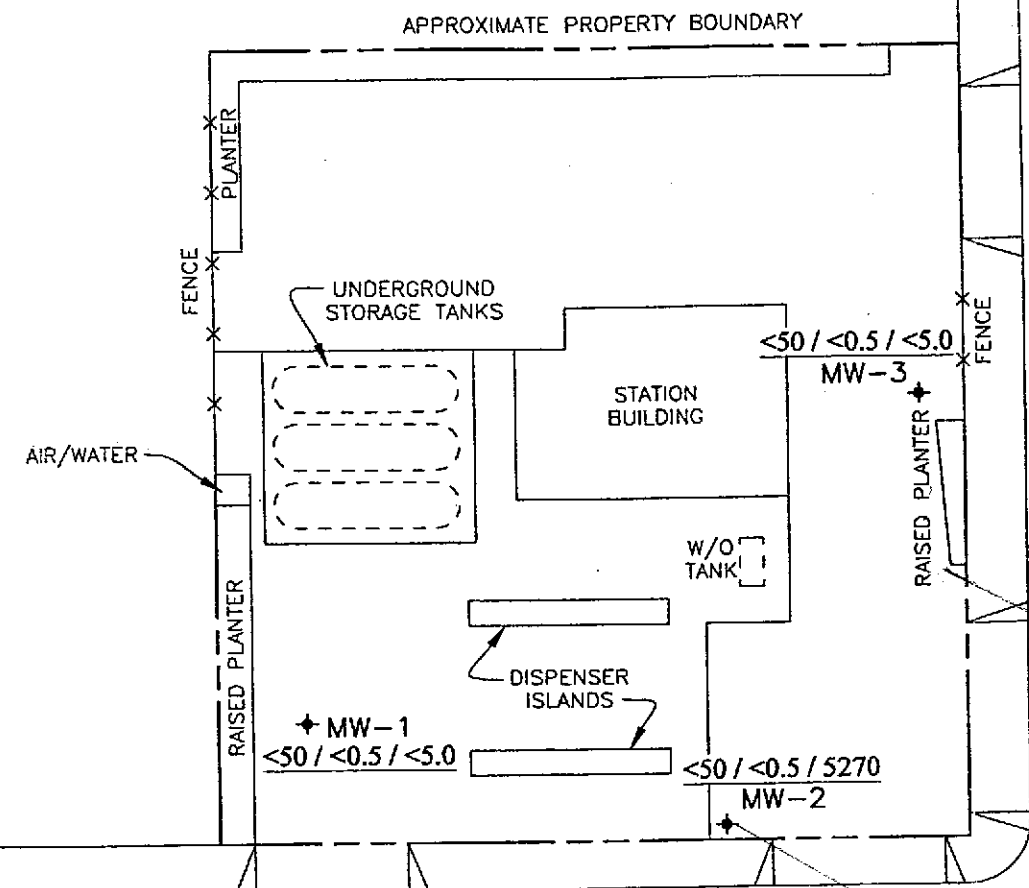
Suzanne McClurkin-Nelson  
Staff Scientist

Attachments: Figure 1 - Utility Survey Map



**LEGEND**

-  WATER (EBMUD)  
(34" TO 42" DEPTH)
-  SANITARY SEWER  
(6' DEPTH)
-  STORM SEWER  
(7' DEPTH)
-  <50 / <0.5 / <2.0 TPPH-GASOLINE/BENZENE/MtBE (4/15/99)
-  CLEANOUT (N.T.S.)
-  STORM DRAIN INLET (N.T.S.)
-  MANHOLE (N.T.S.)
-  APPROXIMATE DIRECTION  
OF GROUND-WATER FLOW (4/15/99)  
APPROXIMATE GRADIENT = 0.03 (4/15/99)



MAGEE AVENUE

MacARTHUR BOULEVARD

(35" DEPTH)

10"φ (CAST IRON)

8"φ

(42" DEPTH)

10"φ

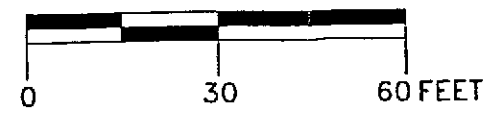
(34" DEPTH)

SIDEWALK

HOLLYWOOD VIDEO STORE

PARKING LOT

SCALE



PACIFIC ENVIRONMENTAL GROUP, INC.

TITLE: <b>UTILITY SURVEY MAP</b>			
PREPARED FOR: CHEVRON STATION 9-8341 3530 MacArthur Boulevard Oakland, California			
DATE: 6/21/99	PROJECT: 325-080.1A	SCALE: AS SHOWN	FIGURE: 1