



PACIFIC
ENVIRONMENTAL
GROUP, INC.

AN TCI COMPANY

May 24, 1999
Project 325-079.1A

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

Re: Utility Survey Report
Chevron Service Station 9-6991
2920 Castro Valley Boulevard
Castro Valley, 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), where available. 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.

The direction of groundwater flow at the site is typically south, fluctuating between the southeast and southwest. However, the most recent data from March 19, 1999 show the groundwater flow direction to be to the northwest, an apparent anomaly in light of local topography and historical flow direction. First quarter 1999 analytical data (*First Quarter 1999 Groundwater Monitoring Report*, Blaine Tech Services Inc.) show that in general concentrations are decreasing. Residual concentrations at the site appear to be concentrated along the southern perimeter, and depth to groundwater averages approximately 10 feet. The primary concern may be the sanitary sewer lines, which range in depth from 10.5 to 12.1 feet locally. These data indicate that some utilities may

affect the potential migration MtBE and gasoline constituents in groundwater. Although additional data are needed to evaluate the possible migration of gasoline constituents along deep utility conduits, we recommend delaying further action until the anomalous groundwater flow direction has been investigated and confirmed. In addition, any proposed geoprobes near the backfill to the sewer lines south of the site carry a high risk of encountering the sewer line as it occurs at the approximate elevation of the groundwater surface.

Huh?

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

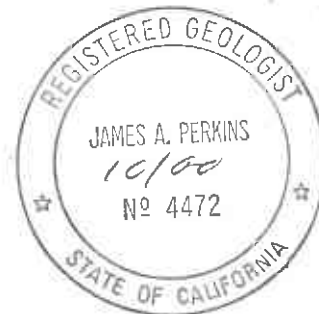
Staff Scientist



James A. Perkins

Project Geologist







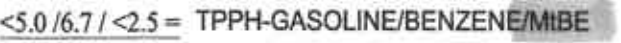

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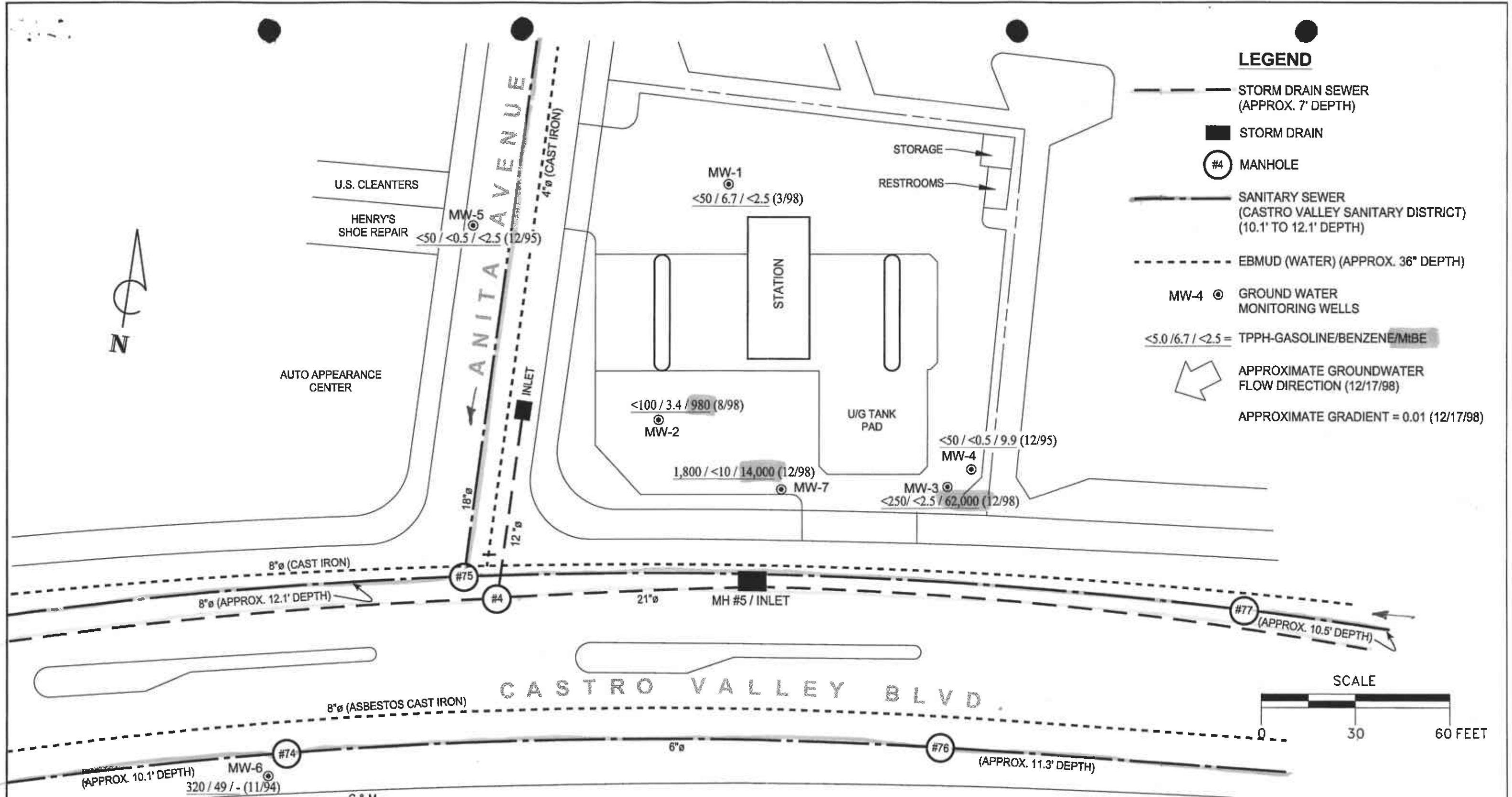



Attachments: Figure 1 - Utility Survey Map

cc: Mr. Scott O. Seery, Alameda County Department of Environmental Health
Mr. Chuck Headlee, Regional Water Quality Control Board – S.F. Bay Region

LEGEND

-  STORM DRAIN SEWER (APPROX. 7' DEPTH)
-  STORM DRAIN
-  #4 MANHOLE
-  SANITARY SEWER (CASTRO VALLEY SANITARY DISTRICT) (10.1' TO 12.1' DEPTH)
-  EBMUD (WATER) (APPROX. 36" DEPTH)
-  MW-4 GROUND WATER MONITORING WELLS
-  <5.0 / 6.7 / <2.5 = TPPH-GASOLINE/BENZENE/MIBE
-  APPROXIMATE GROUNDWATER FLOW DIRECTION (12/17/98)
- APPROXIMATE GRADIENT = 0.01 (12/17/98)



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|  PACIFIC ENVIRONMENTAL GROUP, INC. | TITLE: UTILITY SURVEY MAP | | |
| | PREPARED FOR: CHEVRON U.S.A., INC. SERVICE STATION #9-6991 2920 Castro Valley Blvd. Castro Valley, California | | |
| DATE: 5/11/99 | PROJECT: 325-079.1A | SCALE: AS SHOWN | FIGURE: 1 |