

Ultramar

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ENVIRONMENTAL PROJECT QUARTERLY STATUS REPORT

DATE REPORT SUBMITTED: October 1, 1992
QUARTER ENDING: June 30, 1992

SERVICE STATION NO.: Former 574
ADDRESS: 22315 Redwood Road, Castro Valley, CA
COUNTY: Alameda

ULTRAMAR CONTACT: Randall K. Stephenson TEL. NO: 209-583-3324

BACKGROUND:

On May 5, 1987, five underground storage tanks (two gasoline, two diesel, and one waste oil) were excavated and removed from the site. Soil samples were collected from beneath the tank sites and analyzed for selected hydrocarbons. Based on preliminary analytical data related to the soil samples, it was determined that elevated levels of gasoline and diesel hydrocarbons were present in the bottom of the fuel tank area. Soil was excavated from the fuel tank area. Analysis of confirmation samples collected from the fuel tank area indicates that the additional excavation was successful in removing the soil containing the elevated levels of hydrocarbons as detected in the original samples.

During March, 1991, three on-site ground-water monitoring wells were installed. Laboratory analyses of soil samples obtained from the borings drilled for the wells and water samples collected from the wells determined the presence of gasoline range hydrocarbons in the soil near the soil/ground-water interface and the in ground water. The analysis also determined that the up-gradient well (MW-3) contains gasoline range hydrocarbons indicating an off-site source. No!

Quarterly monitoring of the wells began during the fourth quarter of 1991.

SUMMARY OF THIS QUARTER'S ACTIVITIES:

Ground-water sampling of all the wells was conducted by Aegis Environmental, Inc., on June 4, 1992.



A Member of the Ultramar Group of Companies

BEACON
#1 Quality and Service

Beacon Station No. 574
Castro Valley, CA
Quarterly Monitoring Report
Second Qtr. 1992

RESULT OF QUARTERLY MONITORING:

Ground-water elevations measured in the wells have decreased approximately 1.0 foot since the first quarter 1992 sampling event. Analytical results indicate that dissolved concentrations of hydrocarbon constituents remain elevated.

PROPOSED ACTIVITY OR WORK FOR NEXT QUARTER:

The next sampling event was performed in September, 1992.



AEGIS ENVIRONMENTAL, INC.

1050 Melody Lane, Suite 160, Roseville, CA 95678



916 • 782-2110 / 916 • 969-2110 / FAX 916 • 786-7830

September 8, 1992

Mr. Randall K. Stephenson
Environmental Specialist II
Ultramar Inc.
525 West Third Street
Hanford, California 93232-0466

Subject: **Second Quarter Monitoring Letter Report, June 1992**
Beacon Station #574
22315 Redwood Road, Castro Valley, California

Dear Mr. Stephenson:

INTRODUCTION

Aegis Environmental, Inc. (Aegis), has been authorized by Ultramar Inc. (Ultramar), to conduct groundwater monitoring at the former Beacon service station site, #574, located at 22315 Redwood Road, Castro Valley, Alameda County, California (site). This letter report documents the second quarter groundwater monitoring conducted by Aegis on June 4, 1992, at this site, and groundwater monitoring conducted by Alton Geoscience at the former Chevron service station site (former Chevron site) located northeast of the former Beacon site (Figure 1). This letter report is based, in part, on information obtained by Aegis from Ultramar, and is subject to modification as newly acquired information may warrant.

SITE DESCRIPTION

The former Beacon site currently is a strip shopping center occupied by a 7-Eleven store, Lee's Donuts, Redwood Cleaners, Pizza Express, and Rob's Video. There are no longer underground storage tanks at the former Beacon site. Details of the former Beacon and former Chevron site's facilities, including monitoring wells, are shown on Figure 2.

91-212C.QMR

GROUNDWATER MONITORING

Groundwater Measurements

On June 4, 1992, Aegis personnel collected measurements of the depth to groundwater in monitoring wells MW-1, MW-2, and MW-3 on the former Beacon site, and Alton Geoscience personnel collected measurements of the depth to groundwater in monitoring wells C-1 through C-7 on the former Chevron site. Depth to water ranged from 21.81 to 23.40 feet below grade at the former Beacon site, and ranged from 15.04 to 19.81 feet below grade at the former Chevron site. On the basis of the June 4, 1992, measurements at both sites, groundwater is estimated to flow to the southwest (Figure 3) at an average gradient of approximately 0.01 ft/ft.

On June 4, 1992, Aegis and Chevron personnel surveyed both site's monitoring wells and tied them into the same bench mark.

Current and previous groundwater levels are summarized in Table 1 for the former Beacon site and Table 2 for the former Chevron site. All groundwater elevation measurements at the former Beacon site were made from the referenced wellhead elevations, measured to the nearest 0.01 foot, and conducted according to the Aegis standard operating procedures (SOP) included in Attachment 1.

Groundwater Sampling and Analyses

On June 4, 1992, Aegis personnel collected groundwater samples from monitoring wells MW-1, MW-2, and MW-3, and Alton Geoscience collected groundwater samples from monitoring wells C-1 through C-7. The samples collected by Aegis were collected according to the Aegis SOP included as Attachment 1, and delivered under chain-of-custody to Environmental Lab Systems, Inc., of San Luis Obispo, California, a state-certified analytical laboratory. The samples collected by Alton Geoscience were delivered under chain-of-custody to Superior Precision Analytical, Inc., of Martinez, California, a state-certified analytical laboratory. The Aegis samples were analyzed for concentrations of total (volatile) petroleum hydrocarbons (TPH), as gasoline, by modified EPA Method 8015/purge-and-trap, benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 602, and TPH, as diesel, by modified EPA Method 8015/extraction. The Alton Geoscience samples were analyzed for concentrations of TPH, as gasoline, by EPA Method 8015/purge-and-trap and BTEX by EPA Method 8020. The former Beacon site analytical results are summarized in Table 3, and the former Chevron site's are summarized in Table 4. The analytical reports and chain-of-custody forms for both sites are included in Attachment 2.

RECOMMENDATIONS

It is recommended that copies of this letter report be forwarded to the following agencies:

Mr. Scott Seery
Senior Hazardous Materials Specialist
Alameda County Health Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 350
Oakland, California 94621

Mr. Rich Hiett
San Francisco Bay Region
Water Quality Control Board
2101 Webster Street, Suite 500
Oakland, California 94612

Mr. Todd Pearson
Alton Geoscience
5870 Stoneridge Drive, Suite 6
Pleasanton, California 94588

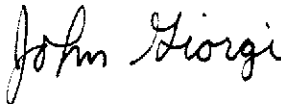
REMARKS/SIGNATURES

The interpretations and/or conclusions contained in this letter report represent our professional opinions. These opinions are based on currently available information and were developed in accordance with currently accepted geologic, hydrogeologic, and engineering practices at this time and for this specific site. Other than this, no warranty is implied or intended.

This letter report has been prepared solely for the use of Ultramar Inc. Any reliance on this letter report by third parties shall be at such parties' sole risk. The work described herein was performed under the direct supervision of the professional engineer, registered with the State of California, whose signature appears below.

Sincerely,

AEGIS ENVIRONMENTAL, INC.



John Giorgi
Staff Geologist



Pat Wright
Registered Geologist
CRG No. 529

9-15-92
Date

JG/PW/law



FIGURES:

FIGURE 1 SITE LOCATION MAP

FIGURE 2 SITE MAP

FIGURE 3 POTENTIOMETRIC SURFACE MAP

FIGURE 4 ISOCONCENTRATION MAP OF BENZENE
IN GROUNDWATER

TABLES:

TABLE 1 WATER LEVEL DATA -
FORMER BEACON STATION

TABLE 2 LIQUID LEVEL DATA -
FORMER CHEVRON STATION

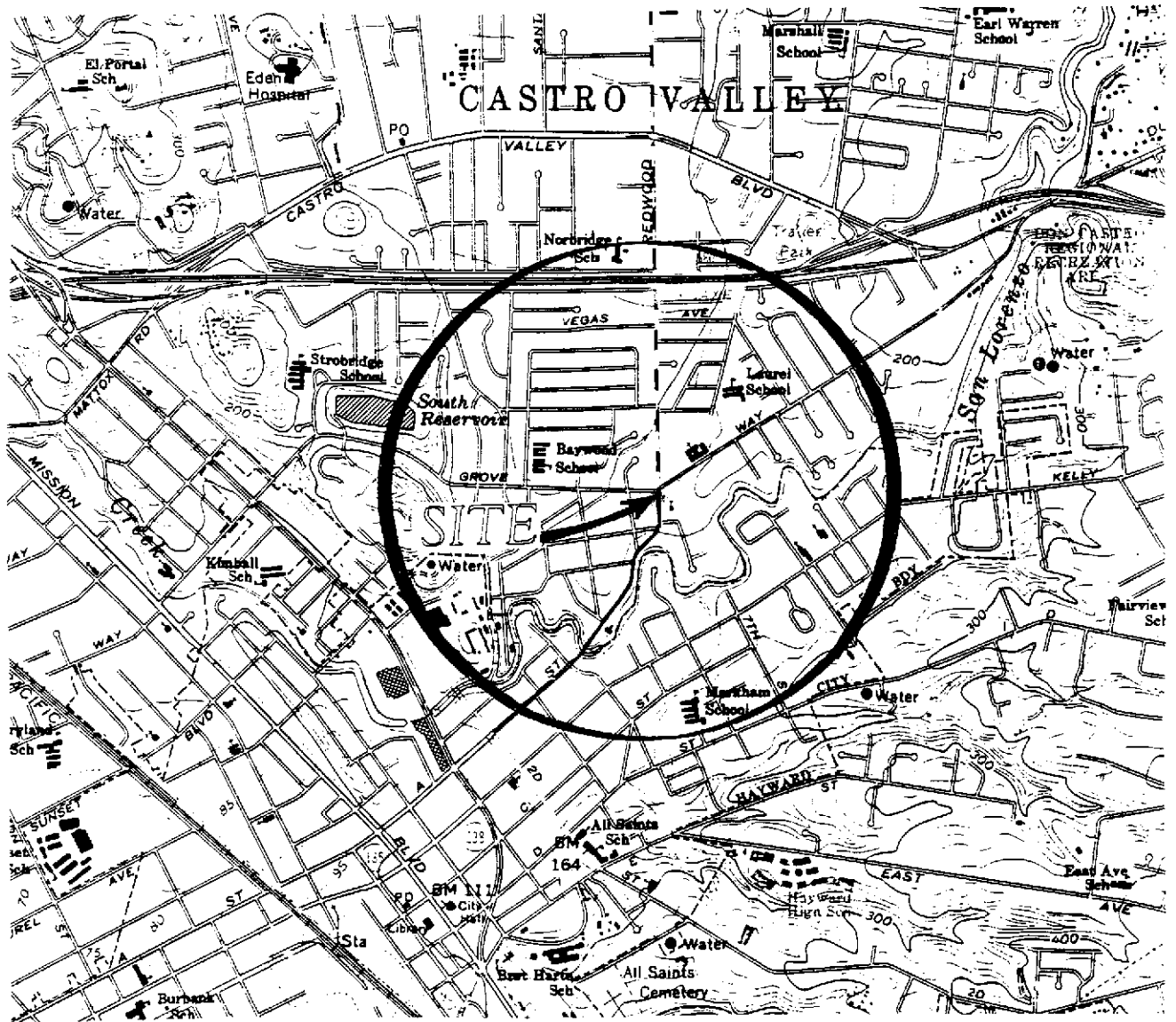
TABLE 3 ANALYTICAL RESULTS: GROUNDWATER -
FORMER BEACON STATION

TABLE 4 ANALYTICAL RESULTS: GROUNDWATER -
FORMER CHEVRON STATION

ATTACHMENTS:

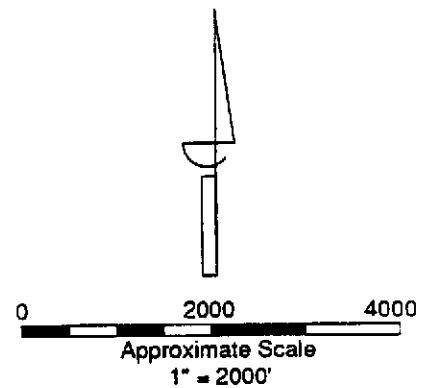
ATTACHMENT 1 STANDARD OPERATING PROCEDURES


ATTACHMENT 2 ... ANALYTICAL LABORATORY REPORTS AND
CHAIN-OF-CUSTODY FORM



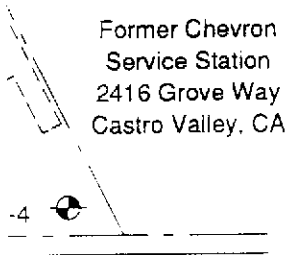
GENERAL NOTES:

BASE MAP FROM USGS
7.5 MINUTE TOPOGRAPHIC
HAYWARD, CALIF.



 AEGIS ENVIRONMENTAL, INC.		SITE LOCATION MAP		FIGURE 1
DRAWN BY: Ed Berand	DATE: April 13, 1992	Former Beacon Station # 574 22315 Redwood Road Castro Valley, CA		PROJECT NUMBER: 10-91212
REVISED BY:	DATE:			
REVIEWED BY: <i>John George</i>	DATE: 9-2-92			

Former
Waste Oil
Tank



AY

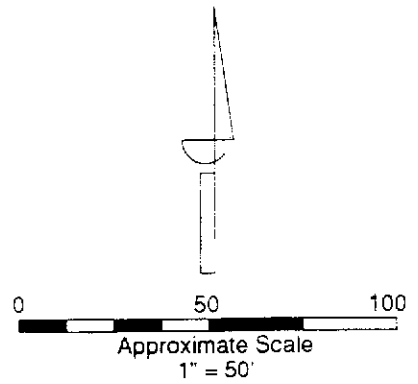
For
S

LEGEND

 Monitoring Well

Delta Environmental
Geoscience

Approximate



SITE VICINITY MAP

FIGURE

2

Former Beacon Station #574
22315 Redwood Road
Castro Valley, CA

PROJECT NUMBER

91-212

$$(315) \left[\frac{1.48}{1.85} \right] = 252'$$

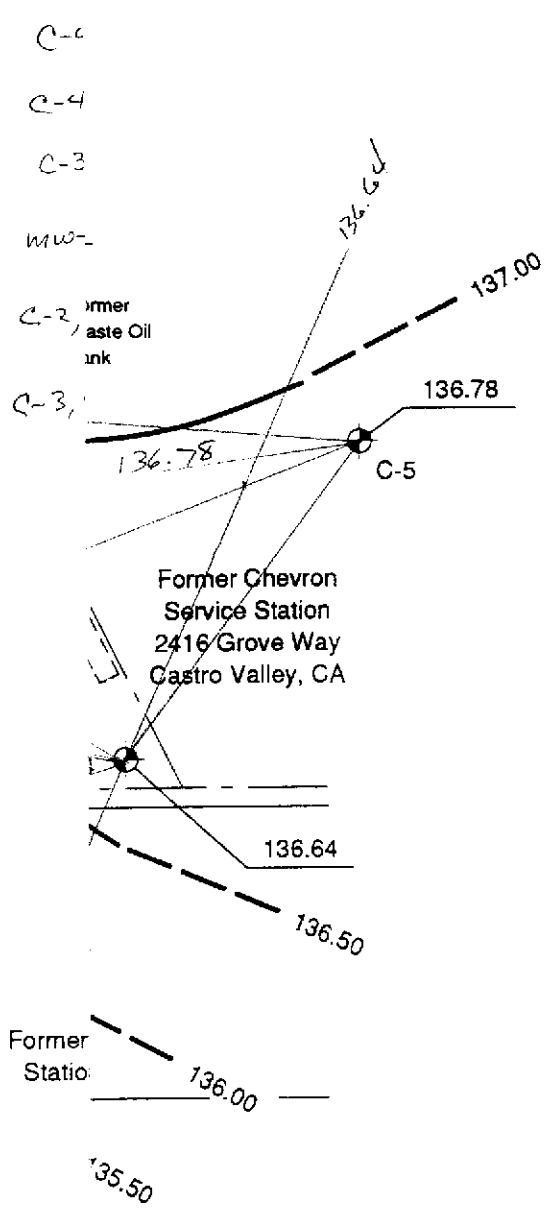
$$(209) \left[\frac{1.15}{1.48} \right] = \sim 162'$$

$$(315) \left[\frac{0.64}{1.85} \right] = \sim 109'$$



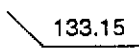

$$(95) \left[\frac{1.43}{1.64} \right] = \sim 73'$$

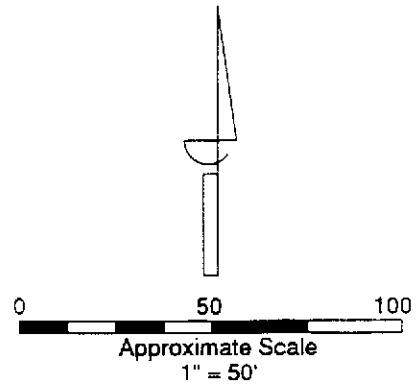
$$(84) \left[\frac{0.51}{1.29} \right] = \sim 33'$$

$$(176) \left[\frac{0.14}{0.78} \right] = \sim 32'$$



LEGEND

-  Monitoring Well
-  Potentiometric Surface Contour Line (Dashed Where Inferred)
-  133.15 Groundwater Elevation in Feet
-  Estimated Direction of Groundwater Flow



Hydraulic Gradient = 0.01 ft/ft
 Contour Interval = 0.5 ft.

POTENTIOMETRIC SURFACE MAP
June 4, 1992

Former Beacon Station #574
 22315 Redwood Road
 Castro Valley, CA

FIGURE
3

PROJECT NUMBER:
 91-212

Former
Waste Oil
Tank

BDL
C-5

Former Chevron
Service Station
2416 Grove Way
Castro Valley, CA

BDL
C-4

WAY

Fi

LEGEND



Monitoring Well

BDL

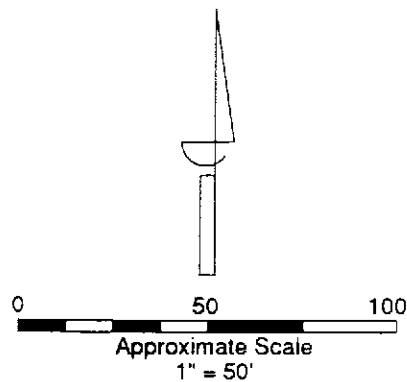
Below Detection Limits

36

Benzene in parts per billion

Delta Environmental
& Geoscience

Approximate



O-CONCENTRATION MAP OF
ENZENE IN GROUNDWATER

FIGURE

4

Former Beacon Station #574
22315 Redwood Road
Castro Valley, CA

PROJECT NUMBER

91-212

TABLE 1

WATER LEVEL DATA - FORMER BEACON STATION

FORMER BEACON STATION #574
 22315 REDWOOD ROAD, CASTRO VALLEY, CALIFORNIA
 (Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Groundwater ¹	Groundwater Elevation ²
MW-1	03/26/91	156.55	22.43	134.12
	04/01/91		22.37	134.18
	11/22/91		24.09	132.46
	03/27/92		22.43	134.12
	06/04/92		23.40	133.15
MW-2	03/26/91	155.17	20.91	134.26
	04/01/91		20.82	134.35
	11/22/91		22.54	132.63
	03/27/92		20.82	134.35
	06/04/92		21.81	133.36
MW-3	03/26/91	157.13	21.62	135.51
	04/01/91		21.55	135.58
	11/22/91		23.98	133.15
	03/27/92		21.46	135.67
	06/04/92		22.34	134.79

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
 2 = Elevation referenced to mean sea level and obtained from previous consultant.

TABLE 2

LIQUID LEVEL DATA - FORMER BEACON STATION

FORMER CHEVRON SERVICE STATION
 2416 GROVE WAY, CASTRO VALLEY, CALIFORNIA
 (All measurements in feet)

* from
 Chevron
 report

Monitoring Well	Date Collected	Reference Elevation (top of casing) ¹	Depth to Groundwater ¹	Groundwater Elevation ²
C-1	06/04/92	153.09 <i>153.36</i>	17.10	135.99 <i>136.44</i>
C-2	06/04/92	152.33 <i>152.24</i>	15.04	137.29 <i>136.80</i>
C-3	06/04/92	153.79 <i>154.13</i>	17.79	136.00 <i>136.34</i>
C-4	06/04/92	155.56 <i>156.00</i>	18.92	136.64 <i>137.08</i>
C-5	06/04/92	153.18 <i>153.38</i>	16.40	136.78 <i>136.98</i>
C-6	06/04/92	152.50 <i>152.24</i>	17.01	135.49 <i>135.83</i>
C-7	06/04/92	154.97 <i>155.34</i>	19.81	135.16 <i>135.53</i>

- NOTES:
- ¹ = Measurement and reference elevation taken from notch/mark on top north side of well casing.
 - ² = Elevation referenced to mean sea level and obtained from previous consultant.

What is meant by "previous consultant?"

* elevation information from July 10, 1992
 Alton Geo Sciences report, under July 20, 1992
 Chevron cover.

TABLE 3

ANALYTICAL RESULTS: GROUNDWATER - FORMER BEACON STATION

FORMER BEACON STATION #574
 22315 REDWOOD ROAD, CASTRO VALLEY, CALIFORNIA
 (All results in parts-per-billion)

Sample ID	Date Collected	Total Petroleum Hydrocarbons			Aromatic Volatile Organics			
		Gasoline	Diesel	Motor Oil	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-1	04/01/91	4,100	<100	---	340	570	76	460
	11/22/91	5,300	<50	<50	4.9	1,600	370	2,300
	03/27/92	5,600	<50	<50	760	900	230	1,100
	06/04/92	2,600	<800	---	270	57	230	440
MW-2	04/01/91	10,000	<100	---	650	640	150	960
	11/22/91	11,000	<50	<50	51	1,900	770	3,200
	03/27/92	18,000	<50	<50	2,000	2,300	870	3,300
	06/04/92	14,000	<5,000	---	1,300	1,700	580	2,300
MW-3	04/01/91	3,100	<100	---	71	91	37	420
	11/22/91	470	<50	<50	10	6.3	11	36
	03/27/92	160	<50	<50	92	4.8	10	23
	06/04/92	120	<50	---	75	2.7	0.5	15
MW-3D	06/04/92	100	<50	---	77	2.8	0.6	18

NOTES: < = Below the indicated detection limits labeled in the analytical laboratory results report.
 --- = Not analyzed.
 D = Duplicate sample.

TABLE 4

ANALYTICAL RESULTS: GROUNDWATER - FORMER CHEVRON STATION

FORMER CHEVRON SERVICE STATION
 2416 GROVE WAY, CASTRO VALLEY, CALIFORNIA
 (All results in parts-per-billion)

Sample ID	Total Petroleum Hydrocarbons	Aromatic Volatile Organics			
	Gasoline	Benzene	Toluene	Ethyl-benzene	Total Xylenes
C-1	FP ---	---	---	---	---
C-2	1,500	<0.5	180	40	100
C-3	80	36	0.6	0.5	0.5
C-4	<50	<0.5	<0.5	<0.5	0.7
C-5	<50	<0.5	<0.5	<0.5	<0.5
C-6	<50	<0.5	<0.5	<0.5	<0.5
C-7	250*	<0.5	<0.5	<0.5	<0.5

- NOTES:
- < = Below the indicated detection limit labelled in the analytical laboratory results reports.
 - = Not analyzed due to a product sheen.
 - * = Gasoline range concentration showed only a single peak on the chromatogram.

The information contained in this table was provided by Alton Geoscience with approval from Chevron Corporation.

ATTACHMENT 1
STANDARD OPERATING PROCEDURES

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURES
RE: SAMPLE IDENTIFICATION AND CHAIN-OF-CUSTODY PROCEDURES
SOP-4

Sample identification and chain-of-custody procedures ensure sample integrity, and document sample possession from the time of collection to its ultimate disposal. Each sample container submitted for analysis is labeled to identify the job number, date, time of sample collection, a sample number unique to the sample, any in-field measurements made, sampling methodology, name(s) of on site personnel and any other pertinent field observations also recorded on the field excavation or boring log.

Chain-of-custody forms are used to record possession of the sample from time of collection to its arrival at the laboratory. During shipment, the person with custody of the samples will relinquish them to the next person by signing the chain-of-custody form(s) and noting the date and time. The sample-control officer at the laboratory will verify sample integrity, correct preservation, confirm collection in the proper container(s) and ensure adequate volume for analysis.

If these conditions are met, the samples will be assigned unique laboratory log numbers for identification throughout analysis and reporting. The log numbers will be recorded on the chain-of-custody forms and in the legally-required log book maintained in the laboratory. The sample description, date received, client's name, and any other relevant information will also be recorded.

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURES
RE: LABORATORY ANALYTICAL QUALITY ASSURANCE AND CONTROL
SOP-5

In addition to routine instrument calibration, replicates, spikes, blanks, spiked blanks, and certified reference materials are routinely analyzed at methods specific frequencies to monitor precision and bias. Additional components of the laboratory Quality Assurance/Quality Control program include:

1. Participation in state and federal laboratory accreditation/certification programs;
2. Participation in both U.S. EPA Performance Evaluation studies (WS and WP studies) and inter-laboratory performance evaluation programs;
3. Standard operating procedures describing routine and period instrument maintenance;
4. "Out-of-Control"/Corrective Action documentation procedures; and,
5. Multi-level review of raw data and client reports.

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURE
RE: GROUNDWATER PURGING AND SAMPLING
SOP-7

Prior to water sampling, each well is purged by evacuating a minimum of three well-bore volumes of groundwater. When required, purging will continue until either the discharge water temperature, conductivity or pH stabilize, a maximum of ten well-bore volumes of groundwater have been recovered or the well is bailed dry. When practical, the groundwater sample should be taken when the water level in the well recovers to at least 80 percent of its static level.

The sampling equipment consists of either a Teflon bailer, PVC bailer, or stainless steel bladder pump with a Teflon bladder. If the sampling system is dedicated to the well, then the bailer is usually Teflon, but the bladder pump is PVC with a polypropylene bladder. In general and depending on the intended laboratory analysis, 40-milliliter glass, volatile organic analyzer (VOA) vials, with Teflon septa, are used as sample containers.

The groundwater sample is decanted into each VOA vial in such a manner that there is no meniscus at the top of the vial. A cap is quickly secured to the top of the vial. The vial is then inverted and gently tapped to see if air bubbles are present. If none are present, the vial is labeled and refrigerated for delivery, under strict chain-of-custody, to the analytical laboratory. Label information should include a unique sample identification number, job identification number, date, time, type of analysis requested, and the sampler's name.

For quality control purposes, a duplicate water sample is collected from each well. This sample is put on hold at the laboratory. When required, a trip blank is prepared at the laboratory and placed in the transport cooler. It is labeled similar to the well samples, remains in the cooler during transport, and is analyzed by the laboratory along with the groundwater samples. In addition, a field blank may be prepared in the field when sampling equipment is not dedicated. The field blank is prepared after a pump or bailer has been either steam-cleaned or properly washed, prior to use in the next well, and is analyzed along with the other samples. The field blank analysis demonstrates the effectiveness of the in-field cleaning procedures to prevent cross-contamination.

To minimize the potential for cross-contamination between wells, all well development and water sampling equipment not dedicated to a well is either steam-cleaned or properly washed between use. As a second precautionary measure, wells are sampled in order of least to highest concentrations as established by available previous analyses.

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURE
RE: MEASURING LIQUID LEVELS USING WATER LEVEL OR INTERFACE PROBE
SOP-12

Field equipment used for liquid-level gauging typically includes the measuring probe (water-level or interface), light filter(s), and product bailer(s). The field kit also includes cleaning supplies (buckets, TSP, spray bottles, and deionized water) to be used in cleaning the equipment between wells.

Prior to measurement, the probe tip is lowered into the well until it touches bottom. Using the previously established top-of-casing or top-of-box (i.e., wellhead vault) point, the probe cord (or halyard) is marked and a measuring tape (graduated in hundredths of a foot) is used to determine the distance between the probe end and the marking on the cord. This measurement is then recorded on the liquid-level data sheet as the "depth to water" (DTW).

When necessary in using the interface probe to measure liquid levels, the probe is first electrically grounded to either the metal stove pipe or another metal object nearby. When no ground is available, reproducible measurements can be obtained by clipping the ground lead to the handle of the interface probe case. After grounding the probe, the top of the well casing is fitted with a light filter to insure that sunlight does not interfere with the operation of the probe's optical mechanisms.

The probe tip is then lowered into the well and submerged in the groundwater. An oscillating (beeping) tone indicates the probe is in water. The probe is slowly raised until either the oscillating tone ceases or becomes a steady tone. In either case, this is the depth-to-water indicator and the DTW measurement is made accordingly. The steady tone indicates floating hydrocarbons. In this case, the probe is slowly raised until the steady tone ceases. This is the depth-to-product (DTP) indicator and the DTP measurement is made accordingly.

The process of lowering and raising the probe must be repeated several times to ensure accurate measurements. The DTW and DTP measurements are recorded on the liquid-level data sheet. When floating product is indicated by the probe's response, a product bailer is lowered partially through the product-water interface to confirm the product on the water surface, and as further indication of product thickness, particularly in cases where the product layer is quite thin. This measurement is recorded on the data sheet as "product thickness."

In order to avoid cross-contamination of wells during the liquid-level measurement process, wells are measured in the order of "clean" to "dirty" (where such information is available). In addition, all measurement equipment is cleaned with TSP solution and thoroughly rinsed with deionized water before use, between measurements in respective wells, and at the completion of the day's use.

ATTACHMENT 2

**ANALYTICAL LABORATORY REPORTS AND
CHAIN-OF-CUSTODY FORM**

1086-1
91212

Client: Tom Landweir
Aegis Environmental
1050 Melody Lane, #160
Roseville, CA 95678

Lab Number: 1086-1
Collected: 06/04/92
Received: 06/06/92
Matrix: Aqueous

Project: Beacon Station # 574
Project Number: 91-212
Collected by: Rodney Moore

Sample Description:
MW-1
Analyzed: 06/06/92
Method: EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	8.	270.
Toluene	8.	57.
Ethylbenzene	8.	230.
Xylenes	8.	440.
Percent Surrogate Recovery		101

TOTAL PETROLEUM HYDROCARBONS

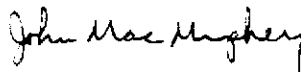
Gasoline	800.	2600.
Diesel #2	800.	ND
BTX as a Percent of Fuel		30

Environmental Lab Systems, Inc. is certified by CA Department of Health Services: Laboratory #1717

*PQL - Practical Quantitation Limit

**Results listed as ND would have been reported if present at or above the listed PQL.

Submitted by,
ENVIRONMENTAL LAB SYSTEMS, INC.



John MacMurphey
Laboratory Director

MSD #1
C:1086-1.xls
JMM/sn/jmm/rr

Client: Tom Landweir
 Aegis Environmental
 1050 Melody Lane, #160
 Roseville, CA 95678

Lab Number: 1086-2
 Collected: 06/04/92
 Received: 06/06/92
 Matrix: Aqueous

Project: Beacon Station # 574
 Project Number: 91-212
 Collected by: Rodney Moore

Sample Description:
 MW-2
 Analyzed: 06/06/92
 Method: EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	50.	1900.
Toluene	50.	1700.
Ethylbenzene	50.	580.
Xylenes	50.	2300.
Percent Surrogate Recovery		98

TOTAL PETROLEUM HYDROCARBONS

Gasoline	5000.	14000.
Diesel #2	5000.	ND
BTX as a Percent of Fuel		42

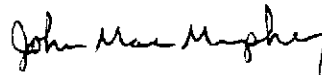
Environmental Lab Systems, Inc. is certified by CA Department of Health Services: Laboratory #1717

*PQL - Practical Quantitation Limit

**Results listed as ND would have been reported if present at or above the listed PQL.

MSD #1
 C:1086-2.xls
 JMM/sn/jmm/rr

Submitted by,
 ENVIRONMENTAL LAB SYSTEMS, INC.



John MacMurphey
 Laboratory Director

Client: Tom Landweir
 Aegis Environmental
 1050 Melody Lane, #160
 Roseville, CA 95678

Lab Number: 1086-3
 Collected: 06/04/92
 Received: 06/06/92
 Matrix: Aqueous

Project: Beacon Station # 574
 Project Number: 91-212
 Collected by: Rodney Moore

Sample Description:
 MW-3
 Analyzed: 06/06/92
 Method: EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	7.5
Toluene	0.5	2.7
Ethylbenzene	0.5	0.5
Xylenes	0.5	15.
Percent Surrogate Recovery		102

TOTAL PETROLEUM HYDROCARBONS

Gasoline	50.	120.
Diesel #2	50.	ND
BTX as a Percent of Fuel		21

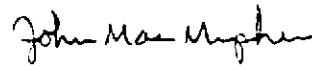
Environmental Lab Systems, Inc. is certified by CA Department of Health Services: Laboratory #1717

*PQL - Practical Quantitation Limit

**Results listed as ND would have been reported if present at or above the listed PQL.

MSD #1
 C:1086-3.xls
 JMM/sn/jmm/rr

Submitted by,
 ENVIRONMENTAL LAB SYSTEMS, INC.



John MacMurphey
 Laboratory Director

Client: Tom Landweir
 Aegis Environmental
 1050 Melody Lane, #160
 Roseville, CA 95678

Lab Number: 1086-3 Duplicate
 Collected: 06/04/92
 Received: 06/06/92
 Matrix: Aqueous

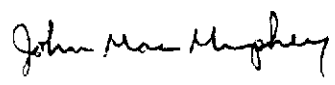
Project: Beacon Station # 574
 Project Number: 91-212
 Collected by: Rodney Moore

Sample Description:
 MW-3
 Analyzed: 06/06/92
 Method: EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	7.7
Toluene	0.5	2.8
Ethylbenzene	0.5	0.6
Xylenes	0.5	18.
Percent Surrogate Recovery		98

TOTAL PETROLEUM HYDROCARBONS		
Gasoline	50.	130.
Diesel #2	50.	ND
BTX as a Percent of Fuel		22

Environmental Lab Systems, Inc. is certified by CA Department of Health Services: Laboratory #1717
 *PQL - Practical Quantitation Limit
 **Results listed as ND would have been reported if present at or above the listed PQL.

Submitted by,
ENVIRONMENTAL LAB SYSTEMS, INC.

 John MacMurphey
 Laboratory Director

MSD #1
 C:1086-3d.xls
 JMM/sn/jmm/rr

Client:
 Environmental Lab Systems, Inc.
 3485 Sacramento Drive, Suite E
 San Luis Obispo, CA 93401

Lab Number: QS 06/06/92
Collected:
Received:
Matrix: Soil

Project:
Project Number:
Collected by:

Sample Description: Quality Assurance Spike
Analyzed: 06/06/92
Method: EPA 8260

CONSTITUENT	Amount Expected mg/kg	Amount Recovered mg/kg	Percent Recovery
Benzene	6.6	6.6	100
Toluene	26.8	24.5	91
Ethylbenzene	5.0	4.9	98
Xylenes	31.4	28.4	90
Percent Surrogate Recovery			99

TOTAL PETROLEUM HYDROCARBONS

Gasoline	180.	174.	97
BTX as a Percent of Fuel	36%	34%	

Environmental Lab Systems, Inc. is certified by CA Department of Health Services: Laboratory #1717
 NS - Not Spiked

MSD #1
 C:QS0606g2.xls
 JMM/sn/jmm/rr

Submitted by,
 ENVIRONMENTAL LAB SYSTEMS, INC.

John MacMurphey
 John MacMurphey
 Laboratory Director

Client:
Environmental Lab Systems, Inc.
3485 Sacramento Drive, Suite E
San Luis Obispo, CA 93401

Lab Number: QSD 06/06/92
Collected:
Received:
Matrix: Soil

Project:
Project Number:
Collected by:

Sample Description:
Quality Assurance Spike Duplicate
Analyzed: 06/06/92
Method: EPA 8260

CONSTITUENT	Amount Spiked mg/kg	Amount Recovered mg/kg	Percent Recovery	Relative Percent Difference*
Benzene	6.6	6.2	94	6
Toluene	26.8	22.8	85	7
Ethylbenzene	5.0	4.6	92	6
Xylenes	31.4	27.1	86	5
Percent Surrogate Recovery			99	

TOTAL PETROLEUM HYDROCARBONS

Gasoline	180.	166.	92	5
BTX as a Percent of Fuel	36%	34%		

Environmental Lab Systems, Inc. is certified by CA Department of Health Services: Laboratory #1717
*Relative Percent Difference of the spike and spike duplicate
NS - Not Spiked

MSD #1
C:QS0606g2.xls
JMM/sn/jmm/rr

Submitted by,
ENVIRONMENTAL LAB SYSTEMS, INC.

John MacMurphey
John MacMurphey
Laboratory Director

Client:
 Environmental Lab Systems, Inc.
 3485 Sacramento Drive, Suite E
 San Luis Obispo, CA 93401

Lab Number: BLK 06/06/92
Collected:
Received:
Matrix: Aqueous

Project:
Project Number:
Collected by:

Sample Description:
 Instrument Blank
Analyzed: 06/06/92
Method: EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Percent Surrogate Recovery		94

TOTAL PETROLEUM HYDROCARBONS

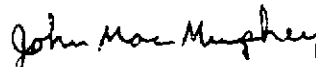
Gasoline	50.	ND
Diesel #2	50.	ND
BTX as a Percent of Fuel		N/A

Environmental Lab Systems, Inc. is certified by CA Department of Health Services: Laboratory #1717

*PQL - Practical Quantitation Limit

**Results listed as ND would have been reported if present at or above the listed PQL.

Submitted by,
 ENVIRONMENTAL LAB SYSTEMS, INC.



John MacMurphey
 Laboratory Director

MSD #1
 C:blk0606f.xls
 JMM/sn/jmm/rr



Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. A 514	Sampler (Print Name) RUDINE MAURE			ANALYSES				Date 6-4-92	Form No. 1 of 1
Project No. 91-212	Sampler (Signature) <i>[Signature]</i>			BTEX	TPH (gasoline)	TPH (diesel)	No. of Containers	LABS ENVIRONMENTAL LAB SYSTEMS SANTA LUIS OBISPO CA	
Project Location 22315 REDWOOD ROAD CASTRO VALLEY CA	Affiliation AEGIS TECH.							REMARKS	
Sample No./Identification	Date	Time	Lab No.						
MW-1	6-4-92	1:05 PM	1086-1	✓	✓	✓	4	SANDHILL T.A.T	
MW-2	↓	1:10	1086-2	✓	✓	✓	4		
MW-3	↓	12:50	1086-3	✓	✓	✓	4		
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation)				Date	Time
<i>[Signature]</i>		6/3/92	11:00	<i>[Signature]</i>				6/5	11:00
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation)				Date	Time
<i>[Signature]</i>		6/5/92	13:00	John Murphy / ELS				6/6	13:00
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation)				Date	Time
Report To: TOM CAROWELA 1050 MILLCOT CRT #160 ROSELIE CA 95618	916 782-2110 AEGIS ETIV	Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: <u>RAIMOND SICPHYIUS</u>							

WHITE: Return to Client with Report

YELLOW: Laboratory Copy

PINK: Originator Copy



Superior Pi
825 Arnold Drive, Suite 1

Post-It™ brand fax transmittal memo 7671 # of pages > 3

To: JOURNAL Geosci	From: TODD PEARSON
Co. ASG15	Co. Alton Geoscience
Dept. 4102	Phone # 510-734-8134
Fax #	Fax # 510-734-8420

9-1526

JG ✓

Alton Geoscience
Attn: TODD PEARSON

: 31-0563
Reported 06/19/92

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
85962- 1	TB-LB	06/04/92	06/18/92 Water
85962- 2	RIN	06/04/92	06/18/92 Water
85962- 3	C-6	06/04/92	06/18/92 Water
85962- 4	C-7	06/04/92	06/18/92 Water
85962- 5	C-5	06/04/92	06/18/92 Water
85962- 6	C-4	06/04/92	06/18/92 Water
85962- 7	C-3	06/04/92	06/18/92 Water
85962- 8	C-2	06/04/92	06/18/92 Water

RESULTS OF ANALYSIS

Laboratory Number: 85962- 1 85962- 2 85962- 3 85962- 4 85962- 5

Gasoline:	ND<50	ND<50	ND<50	250 *	ND<50
Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Toluene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Xylenes:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Laboratory Number: 85962- 6 85962- 7 85962- 8

Gasoline:	ND<50	80	1500
Benzene:	ND<0.5	36	ND<0.5
Toluene:	ND<0.5	0.6	180
Ethyl Benzene:	ND<0.5	0.5	42
Xylenes:	0.7	0.7	130
Concentration:	ug/L	ug/L	ug/L

* Gasoline range concentration. Only a single peak was observed in the chromatogram.



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2
 QA/QC INFORMATION
 SET: 85962

NA = ANALYSIS NOT REQUESTED
 ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
 ug/L = parts per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
 Minimum Detection Limit in Water: 5000ug/L

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
 Minimum Quantitation Limit for Diesel in Water: 50ug/L

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
 Minimum Quantitation Limit for Gasoline in Water: 50ug/L

EPA SW-846 Method 8020/BTXE
 Minimum Quantitation Limit in Water: 0.5ug/L

ANALYTE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	200 ng	95/95	0	70-130
Benzene:	200 ng	99/100	2	70-130
Toluene:	200 ng	95/97	2	70-130
Ethyl Benzene:	200 ng	100/102	2	70-130
Xylenes:	200 ng	90/93	4	70-130

Richard Srna, Ph.D.

Charles Srna
 Laboratory Director

