



GeoStrategies Inc.

2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545

(510) 352-4800

August 28, 1992

Alameda County Health Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Attention: Ms. Pamela Evans

Certified Mail

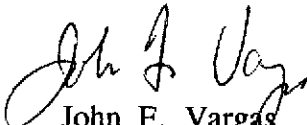
Reference: ARCO Service Station No. 5387
20200 Hesperian Blvd.
Hayward, California 94541

Ms. Evans:

As requested by ARCO Products Company, we are forwarding a copy of the second quarter, 1992 Quarterly Monitoring Report dated August 28, 1992 for the above referenced location.

If you have any questions, please call.

Sincerely,


John F. Vargas
Senior Geologist

JFV/shl

Enclosure

cc: Mr. Michael Whelan, ARCO Products Company
Mr. H.C. Winsor, ARCO Products Company
Mr. Lester Feldman, RWQCB, San Francisco Bay Region
(Certified Mail)



GeoStrategies Inc.

**QUARTERLY MONITORING REPORT -
SECOND QUARTER 1992**

ARCO Service Station No. 5387
20200 Hesperian Boulevard
Hayward, California
792603-6

August 28, 1992



GeoStrategies Inc.

2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545

(510) 352-4800

August 28, 1992

ARCO Products Company
P.O. Box 5811
San Mateo, California 94402

Attn: Mr. Michael Whelan

Re: QUARTERLY MONITORING REPORT
- Second Quarter 1992
ARCO Service Station No. 5387
20200 Hesperian Boulevard
Hayward, California

Gentlemen:

This Quarterly Monitoring Report by GeoStrategies Inc. (GSI) presents the results of the 1992 second quarter sampling for the above referenced site (Plate 1). Sampling data were furnished by the ARCO Products Company contractor.

There are currently seven ground-water monitoring wells located at the site. Six wells are located on-site (Wells MW-1 through MW-3 and A-4 through A-6, Plate 2) and one well is located off-site (Well A-7). The wells were installed in 1986 and 1991 by Groundwater Technology Inc. and GSI, respectively, to evaluate the horizontal and vertical extent of petroleum hydrocarbons in soil and groundwater beneath the site.

Quarterly ground-water sampling of site wells began in December, 1991. Samples have been analyzed for Total Petroleum Hydrocarbons calculated as Gasoline (TPH-Gasoline) according to EPA Method 8015 (Modified) and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) according to EPA Method 8020.

792603-6

GeoStrategies Inc.

ARCO Products Company
August 28, 1992
Page 2

CURRENT QUARTER SAMPLING RESULTS

Depth to water-level measurements were obtained in each monitoring well prior to sampling. Static ground-water levels were measured from the surveyed top of each well box and recorded to the nearest ± 0.01 foot. Water-level data were referenced to Mean Sea Level (MSL) datum and used to construct a quarterly potentiometric map (Plate 3). Shallow ground-water flow is to the west-northwest at an approximate hydraulic gradient of 0.003.

Each well was checked for the presence of floating product. Floating product was not observed in any well this quarter. Current depth-to-water and floating product measurements are summarized in the attached EMCON Associates (EMCON) ground-water sampling report (Appendix A). Historical water-level data and floating product measurements are presented in Table 1.

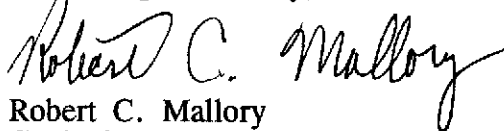
Ground-water samples were collected on June 9, 1992. Samples were analyzed for TPH-Gasoline according to EPA Method 8015 (Modified) and for BTEX according to EPA Method 8020. The ground-water samples were analyzed by Sequoia Analytical (Sequoia), a California State-certified laboratory located in Redwood City, California. A table of current chemical analytical data are included in the EMCON report in Appendix A. Current chemical analytical data have been added to the Historical Ground-water Quality Database presented in Table 2. Chemical isoconcentration maps for TPH-Gasoline and benzene are presented on Plates 4 and 5, respectively.


GeoStrategies Inc.

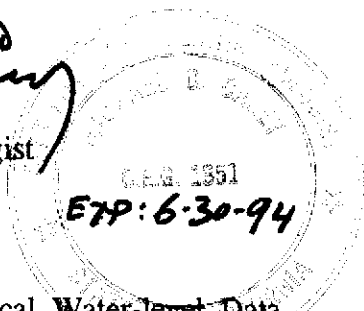
ARCO Products Company
August 28, 1992
Page 3

If you have any questions, please call.

GeoStrategies Inc. by,


Robert C. Mallory
Geologist


Michael C. Carey
Engineering Geologist
C.E.G. 1351



RCM/MCC/shl

Table 1. Historical Water-level Data
Table 2. Historical Ground-water Quality Database

Plate 1. Vicinity Map
Plate 2. Site Plan
Plate 3. Potentiometric Map
Plate 4. TPH-G Isoconcentration Map
Plate 5. Benzene Isoconcentration Map

Appendix A: EMCON Ground-water Sampling Report


QC Review: 

TABLE 1

HISTORICAL WATER-LEVEL DATA					
MONITORING DATE	WELL NUMBER	DEPTH TO WATER (FT)	WELL ELEVATION (FT)	STATIC WATER ELEVATION (FT)	FLOATING PRODUCT THICKNESS (FT)
08-Aug-86	MW-1	11.25	38.36	27.11	0.00
24-Dec-91	MW-1	16.12	38.36	22.24	0.00
10-Mar-92	MW-1	13.34	38.36	25.02	0.00
09-Jun-92	MW-1	14.12	38.36	24.24	0.00
08-Aug-86	MW-2	11.62	38.58	26.96	0.00
24-Dec-91	MW-2	16.50	38.58	22.08	0.00
10-Mar-92	MW-2	13.50	38.58	25.08	0.00
09-Jun-92	MW-2	14.52	38.58	24.06	0.00
08-Aug-86	MW-3	10.61	37.77	27.16	0.00
24-Dec-91	MW-3	15.60	37.77	22.17	0.00
10-Mar-92	MW-3	12.90	37.77	24.87	0.00
09-Jun-92	MW-3	13.60	37.77	24.17	0.00
24-Dec-91	A-4	17.60	39.86	22.26	0.00
10-Mar-92	A-4	14.76	39.86	25.10	0.00
09-Jun-92	A-4	15.63	39.86	24.23	0.00
24-Dec-91	A-5	16.85	38.94	22.09	0.00
10-Mar-92	A-5	13.83	38.94	25.11	0.00
09-Jun-92	A-5	14.91	38.94	24.03	0.00
24-Dec-91	A-6	16.88	39.07	22.19	0.00
10-Mar-92	A-6	13.73	39.07	25.34	0.00
09-Jun-92	A-6	14.95	39.07	24.12	0.00
24-Dec-91	A-7	18.11	39.95	21.84	0.00
10-Mar-92	A-7	15.30	39.95	24.65	0.00
09-Jun-92	A-7	16.12	39.95	23.83	0.00

TABLE 1

=====

HISTORICAL WATER-LEVEL DATA

MONITORING DATE	WELL NUMBER	DEPTH TO WATER (FT)	WELL ELEVATION (FT)	STATIC WATER ELEVATION (FT)	FLOATING PRODUCT THICKNESS (FT)
--------------------	----------------	------------------------	------------------------	--------------------------------	------------------------------------

=====

Note: Static water elevations referenced to Mean Sea Level (MSL).

TABLE 2

HISTORICAL GROUND-WATER QUALITY DATABASE

SAMPLE DATE	SAMPLE POINT	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)
08-Aug-86	MW-1	7,040	132	8.7	439	230
24-Dec-91	MW-1	2,200	190	8.5	6.9	2.6
10-Mar-92	MW-1	2,800	270	29	56	39
09-Jun-92	MW-1	2,900	960	27	99	63
08-Aug-86	MW-2	1910	20.1	2.8	1.8	
24-Dec-91	MW-2	23,000	1,500	1,100	480	1,400
10-Mar-92	MW-2	210,000	44,000	3,900	1,700	5,800
10-Jun-92	MW-2	33,000	2,300	370	780	2,600
08-Aug-86	MW-3	7,450	510	549	409	1380
24-Dec-91	MW-3	6,800	450	10	610	45
10-Mar-92	MW-3	11,000	2,500	75	400	560
10-Jun-92	MW-3	16,000	2,000	69	1,300	3,600
24-Dec-91	A-4	1,900	29	1.9	25	29
10-Mar-92	A-4	7,400	37	<0.60	11	73
10-Jun-92	A-4	4,500	3.2	<1.5	37	16
24-Dec-91	A-5	1,600	35	<0.30	32	52
10-Mar-92	A-5	1,000	21	<1.5	43	100
09-Jun-92	A-5	680	1.6	<0.30	14	16
24-Dec-91	A-6	<30	<0.30	<0.30	<0.30	<0.30
10-Mar-92	A-6	<30	<0.30	<0.30	<0.30	<0.30
09-Jun-92	A-6	<30	<0.30	<0.30	<0.30	<0.30
24-Dec-91	A-7	10,000	88	16	170	610
10-Mar-92	A-7	320	9.3	0.54	8.8	34
09-Jun-92	A-7	340	11	1.1	8.9	26

TABLE 2

=====

HISTORICAL GROUND-WATER QUALITY DATABASE

SAMPLE DATE	SAMPLE POINT	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)
----------------	-----------------	----------------	------------------	------------------	-----------------------	------------------

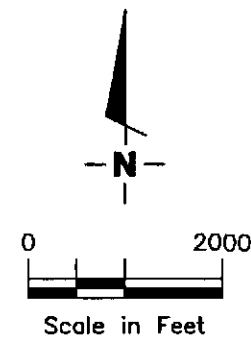
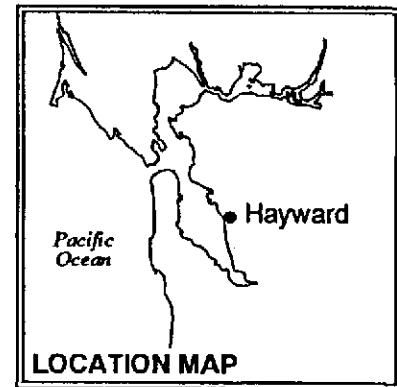
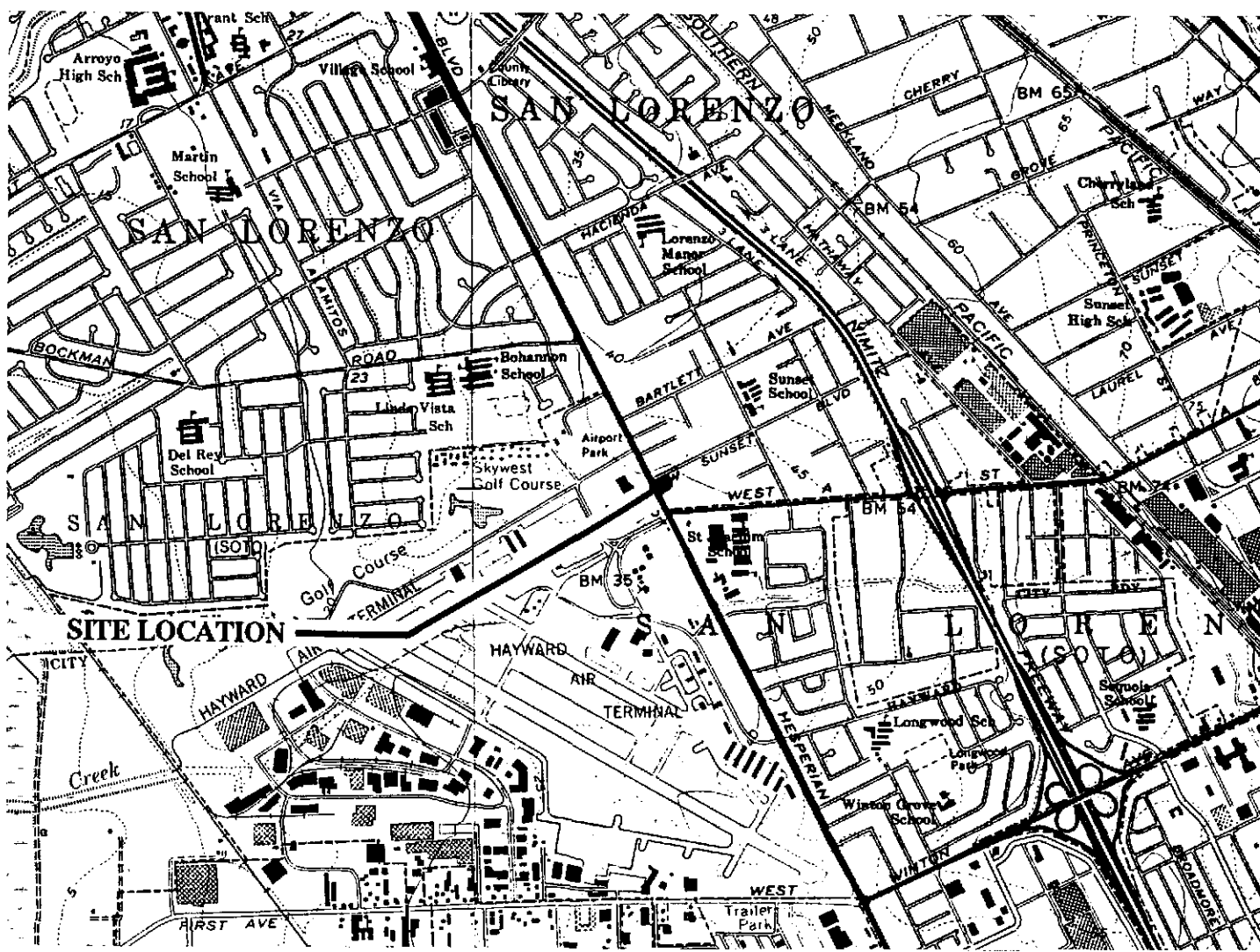
=====

Current Regional Water Quality Control Board Maximum Contaminant Level
 Benzene 1.ppb Xylenes 1750.ppb Ethylbenzene 680.ppb

Current DHS Action Levels Toluene 100.0 ppb

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline
 PPB = Parts Per Billion

NOTE: 1. DHS Action levels and MCLs are subject to change pending State of California review.
 2. All data shown as <x are reported as ND (none detected).



Base Map: USGS Topographic Map



GeoStrategies Inc.

VICINITY MAP
 ARCO Service Station #5387
 20200 Hesperian Boulevard
 Hayward, California

PLATE

1

JOB NUMBER
 7926

REVIEWED BY

DATE
 11/91

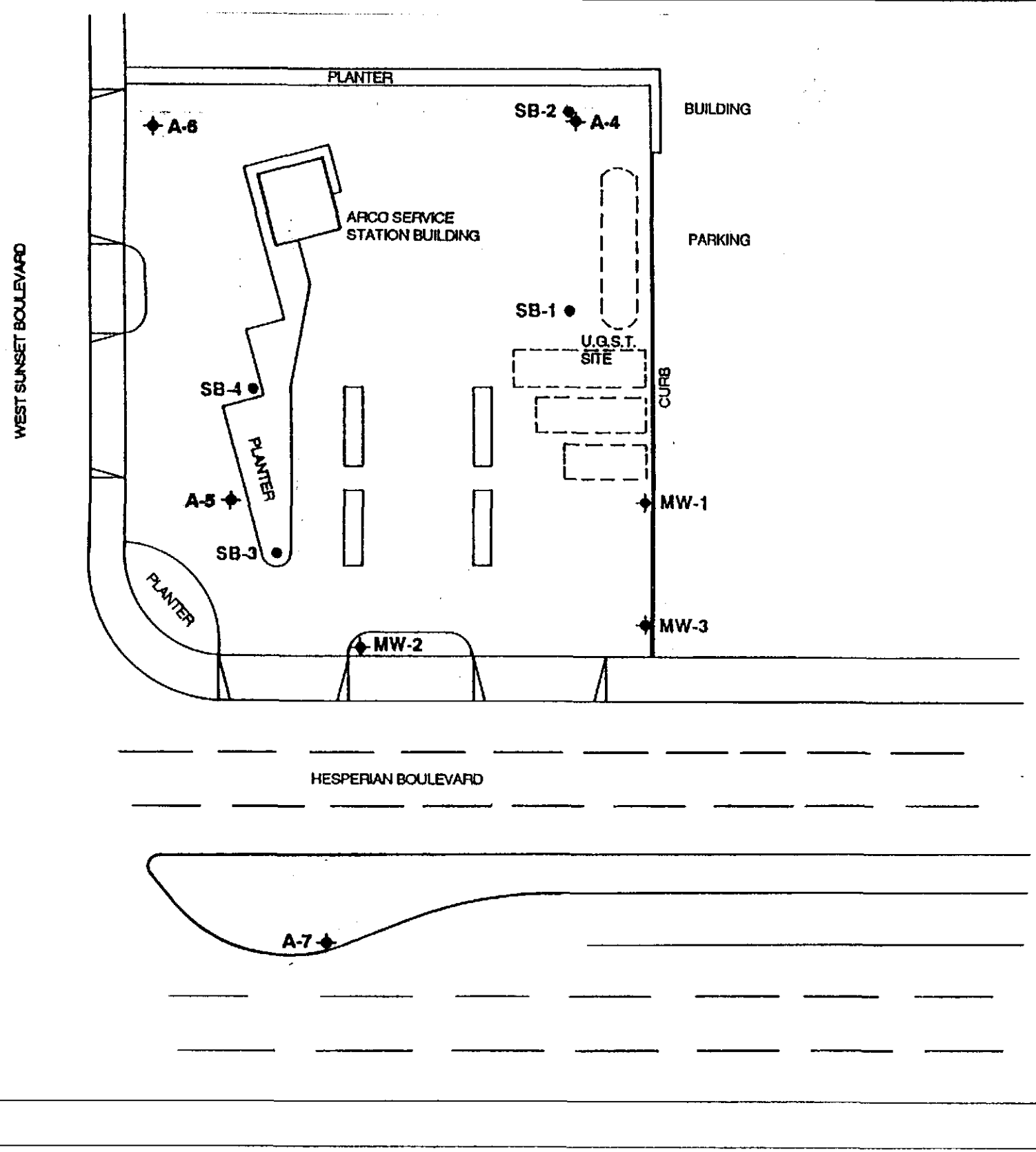
REVISED DATE

SITE PLAN
ARCO Service Station #5387
20200 Hesperian Boulevard
Hayward, California

GeoStrategies Inc.

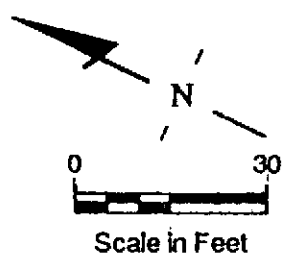


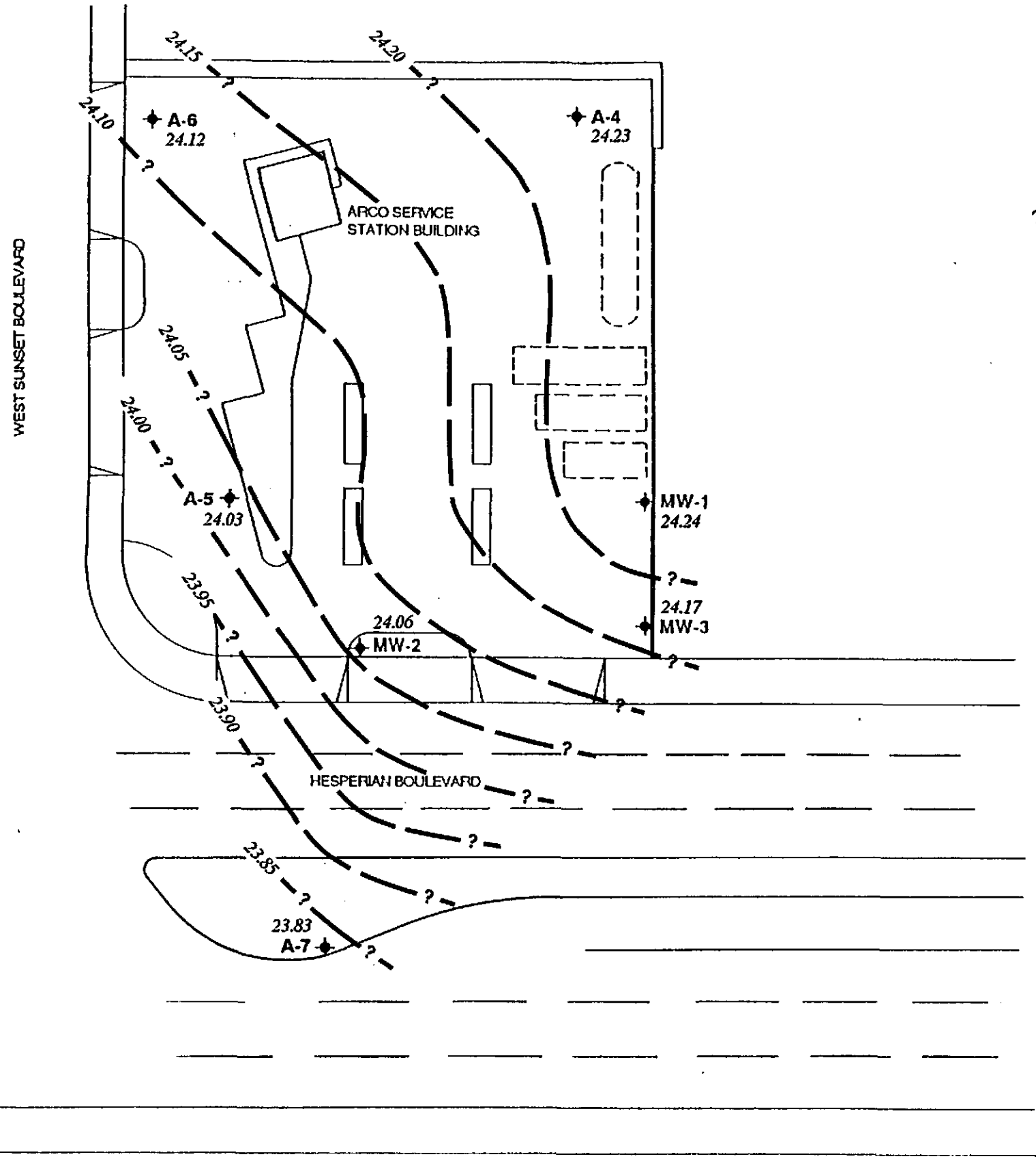
JOB NUMBER 7926 REVIEWED BY DATE 7/92 REVISED DATE REVISED DATE



EXPLANATION

- ◆ Ground-water monitoring well
- Soil boring

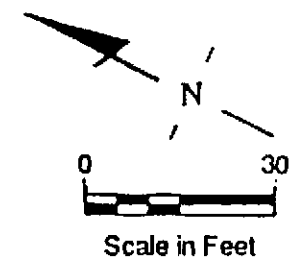


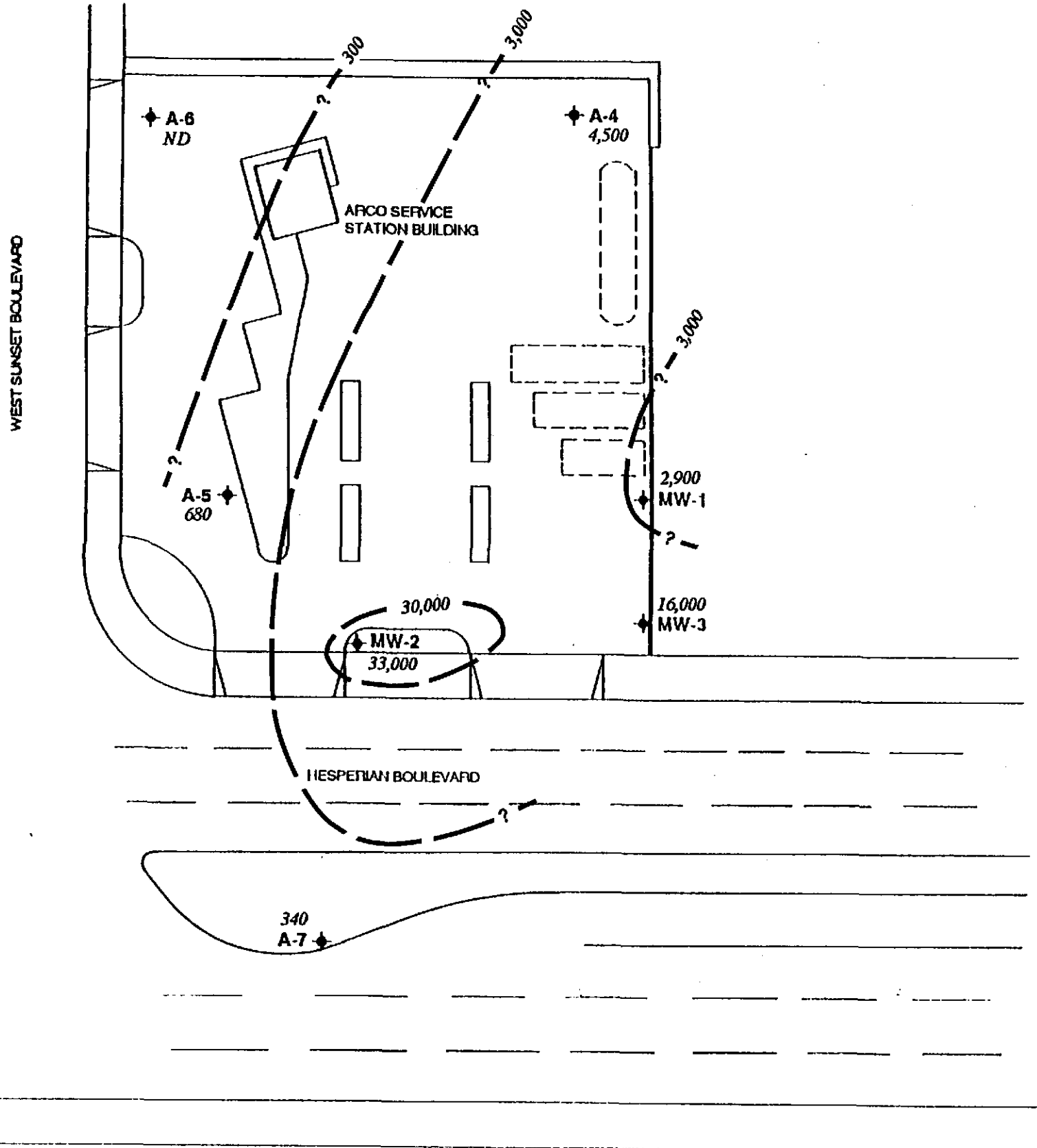


EXPLANATION

- ◆ Ground-water monitoring well
- Ground-water elevation contour
Approximate Gradient = 0.003
- 23.83 Ground-water elevation in feet
referenced to Mean Sea Level
(MSL) measured on June 9, 1992

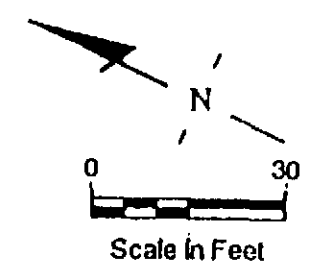
Note: Contours may be influenced by
irrigation practices and/or site
construction activities.





EXPLANATION

- ◆ Ground-water monitoring well
- TPH-G isoconcentration contour
- 340 TPH-G (Total Petroleum Hydrocarbons calculated as Gasoline) concentrations in ppb sampled on June 9, 1992
- ND Not Detected (see laboratory reports for detection limits)



WEST SUNSET BOULEVARD

◆ A-6
ND

◆ A-4
3.2

1.6
A-5 ◆

ARCO SERVICE
STATION BUILDING

960
MW-1 ◆

◆ MW-2
2,300

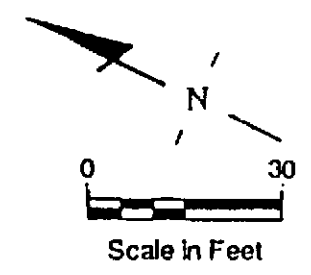
2,000
MW-3 ◆

HESPERIAN BOULEVARD

11
A-7 ◆

EXPLANATION

- ◆ Ground-water monitoring well
- 30 — Benzene isoconcentration contour
- 11. Benzene concentration in ppb sampled on June 9, 1992
- ND Not Detected (see laboratory reports for detection limits)



BENZENE ISOCONCENTRATION MAP
 ARCO Service Station #5387
 20200 Hesperian Boulevard
 Hayward, California

GeoStrategies Inc.
GSI

DATE 8/92
 REVIEWED BY (signature)
 JOB NUMBER 782803-6

REVISED DATE



RECEIVED

JUL - 6 1992

GeoStrategies Inc.

Date June 26, 1992
Project G70-34.01

To: Mr. John Vargas
GeoStrategies Inc.
2140 West Winton Avenue
Hayward, California 94545

We are enclosing:

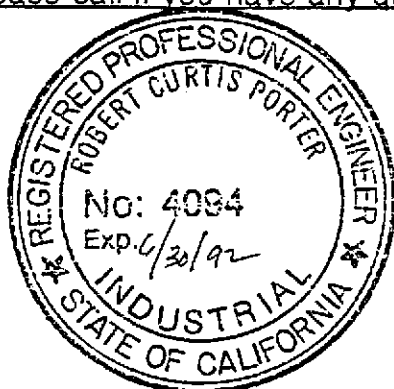
Table with 2 columns: Copies, Description. Rows include: 1 Depth To Water / Floating Product Survey Results, 1 Summary of Groundwater Monitoring Data, 1 Certified Analytical Reports with Chain-of-Custody, 7 Water Sample Field Data Sheets

For your: X Information Sent by: X Mail

Comments:

Enclosed are the data from the second quarter 1992 monitoring event at ARCO service station 5387, 20200 Hesperian Boulevard, San Lorenzo, CA. Groundwater monitoring is conducted consistent with applicable regulatory guidelines. Please call if you have any questions: (408) 453-2266.

Reviewed by:



Jim Butera JB.

Robert Porter signature

Robert Porter, Senior Project Engineer.



FIELD REPORT
DEPTH TO WATER / FLOATING PRODUCT SURVEY

PROJECT # : G70-34.01

STATION ADDRESS : 20200 Hesperian Blvd., Hayward

DATE : 6-9-97

ARCO STATION # : 5387

FIELD TECHNICIAN : WILLIAMS/GALLEGOS

DAY : TUESDAY

DTW Order	WELL ID	Well Box Seal	Well Lid Secure	Gasket	Lock	Locking Well Cap	FIRST DEPTH TO WATER (feet)	SECOND DEPTH TO WATER (feet)	DEPTH TO FLOATING PRODUCT (feet)	FLOATING PRODUCT THICKNESS (feet)	WELL TOTAL DEPTH (feet)	COMMENTS
1	A-6	Good	YES	YES	2268	YES	14.95	14.95	NA	NR	34.75	-
2	A-7	✓	✓	✓	2268	✓	16.12	16.11	ND	ND	35.48	-
3	A-5	✓	✓	✓	2268	✓	14.91	14.92	NA	ND	29.85	-
4	MW-1	✓	✓	✓	"	✓	14.12	14.13	ND	ND	30.12	-
5	A-4	✓	✓	✓	"	✓	15.63	15.63	NA	NA	34.95	-
6	MW-3	✓	C	✓	"	✓	13.60	13.60	ND	ND	29.47	-
7	MW-2	✓	✓	✓	✓	✓	14.54	14.54	ND	ND	29.33	-

Summary of Groundwater Monitoring Data
 Second Quarter 1992
 ARCO Service Station 5387
 20200 Hesperian Boulevard, San Lorenzo, California
 micrograms per liter ($\mu\text{g/l}$) or parts per billion (ppb)

Well ID and Sample Depth	Sampling Date	Depth To Water (feet)	Floating Product Thickness (feet)	TPH ¹ as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)
MW-1(29)	06/09/92	14.12	ND. ²	2,900.	960.	27.	99.	63.
MW-2(27)	06/10/92	14.52	ND.	33,000.	2,300.	370.	780.	2,600.
MW-3(27)	06/09/92	13.60	ND.	16,000.	2,000.	69.	1,300.	3,600.
A-4(34)	06/10/92	15.63	ND.	4,500.	3.2	<1.5	37.	16.
A-5(29)	06/09/92	14.91	ND.	680.	1.6	<0.30	14.	16.
A-6(34)	06/09/92	14.95	ND.	<30	<0.30	<0.30	<0.30	<0.30
A-7(35)	06/09/92	16.12	ND.	340.	11.	1.1	8.9	26.
TB-1 ³	06/09/92	NA. ⁴	NA.	<30	<0.30	<0.30	<0.30	<0.30

1. TPH. = Total petroleum hydrocarbons
 2. ND. = Not detected
 3. TB. = Trip blank
 4. NA. = Not applicable



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Emcon Associates
1938 Junction Ave.
San Jose, CA 95131
Attention: Jim Butera

Project: Arco 5387

Enclosed are the results from 8 water samples received at Sequoia Analytical on June 10, 1992. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
2061939	Water, MW-1 (29)	6/9/92	EPA 5030/8015/8020
2061940	Water, MW-2 (27)	6/9/92	EPA 5030/8015/8020
2061941	Water, MW-3 (27)	6/9/92	EPA 5030/8015/8020
2061942	Water, A-4 (34)	6/9/92	EPA 5030/8015/8020
2061943	Water, A-5 (29)	6/9/92	EPA 5030/8015/8020
2061944	Water, A-6 (34)	6/9/92	EPA 5030/8015/8020
2061945	Water, A-7 (35)	6/9/92	EPA 5030/8015/8020
2061946	Water, TB-1	6/9/92	EPA 5030/8015/8020

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL


Maile A. Springer
Project Manager



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Emcon Associates
1938 Junction Ave.
San Jose, CA 95131
Attention: Jim Butera

Client Project ID: Arco 5387
Matrix Descript: Water
Analysis Method: EPA 5030/8015/8020
First Sample #: 206-1939

Sampled: Jun 9, 1992
Received: Jun 10, 1992
Analyzed: 6/15-16/92
Reported: Jun 23, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.	Benzene	Toluene	Ethyl	Xylenes
		Hydrocarbons			Benzene	
		$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)
206-1939	MW-1 (29)	2,900	960	27	99	63
206-1940	MW-2 (27)	33,000	2,300	370	780	2,600
206-1941	MW-3 (27)	16,000	2,000	69	1,300	3,600
206-1943	A-5 (29)	680	1.6	N.D.	14	16
206-1944	A-6 (34)	N.D.	N.D.	N.D.	N.D.	N.D.
206-1945	A-7 (35)	340	11	1.1	8.9	26
206-1946	TB-1	N.D.	N.D.	N.D.	N.D.	N.D.

Detection Limits:	30	0.30	0.30	0.30	0.30
-------------------	----	------	------	------	------

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL


Malle A. Springer
Project Manager

2061939.EEE <1>



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Emcon Associates	Client Project ID: Arco 5387	Sampled: Jun 9, 1992
1938 Junction Ave.	Matrix Descript: Water	Received: Jun 10, 1992
San Jose, CA 95131	Analysis Method: EPA 5030/8015/8020	Analyzed: Jun 15, 1992
Attention: Jim Butera	First Sample #: 206-1942	Reported: Jun 23, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.	Benzene	Toluene	Ethyl	Xylenes
		Hydrocarbons			Benzene	
		$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)
206-1942	A-4 (34)	4,500	3.2	N.D.	37	16

Detection Limits:	150	1.5	1.5	1.5	1.5
--------------------------	------------	------------	------------	------------	------------

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL


Maile A. Springer
Project Manager



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Emcon Associates
1938 Junction Ave.
San Jose, CA 95131
Attention: Jim Butera

Client Project ID: Arco 5387

QC Sample Group: 2061939, 41

Reported: Jun 23, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
---------	---------	---------	---------------	---------

Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	L.Laikhtman	L.Laikhtman	L.Laikhtman	L.Laikhtman
Reporting Units:	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Jun 16, 1992	Jun 16, 1992	Jun 16, 1992	Jun 16, 1992
QC Sample #:	BLK061692	BLK061692	BLK061692	BLK061692

Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10	30
Conc. Matrix Spike:	9.3	9.3	9.2	27
Matrix Spike % Recovery:	93	93	92	90
Conc. Matrix Spike Dup.:	10	10	10	30
Matrix Spike Duplicate % Recovery:	100	100	100	100
Relative % Difference:	7.3	7.3	8.3	11

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL


Maile A. Springer
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Emcon Associates
1938 Junction Ave.
San Jose, CA 95131
Attention: Jim Butera

Client Project ID: Arco 5387

QC Sample Group: 2061940, 42-46

Reported: Jun 23, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
---------	---------	---------	---------------	---------

Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	L.Laikhtman	L.Laikhtman	L.Laikhtman	L.Laikhtman
Reporting Units:	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Jun 15, 1992	Jun 15, 1992	Jun 15, 1992	Jun 15, 1992
QC Sample #:	BLK061592	BLK061592	BLK061592	BLK061592

Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10	30
Conc. Matrix Spike:	10	10	10	30
Matrix Spike % Recovery:	100	100	100	100
Conc. Matrix Spike Dup.:	11	11	11	32
Matrix Spike Duplicate % Recovery:	110	110	110	107
Relative % Difference:	9.5	9.5	9.5	6.5

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Maile A. Springer
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

ARCO Products Company

Division of AtlanticRichfieldCompany

Task Order No. **EMCGC-92-9**

Chain of Custody

ARCO Facility no. **5387**

City (Facility) **HAYWARD**

Project manager (Consultant) **JIM BUTERA**

ARCO engineer **Kyle Christie**

Telephone no. (ARCO) **(415) 571-2434**

Telephone no. (Consultant) **(408) 453-0719**

Fax no. (Consultant) **(408) 453-0452**

Consultant name **EMCON ASSOCIATES**

Address (Consultant) **1938 Junction Avenue. SAN JOSE CA**

Laboratory name **SEQUOIA**

Contract number **07-073**

Method of shipment **Courier will pick up**

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX EPA 802	BTEX/TPH EPA M602/R020/B015	TPH Modified 8015 Gas Diesel	Oil and Grease 413.1 413.2	TPH EPA 418.1/SM503E	EPA 601/R010	EPA 624/R240	EPA 825/R270	TCMP Metals VOA VOC	Semi VOA VOC	CAM Metals EPA 601/07000	TLC STLC	Lead Org. (HHS)	Lead EPA 7420/7421
			Soil	Water	Other	Ice	Acid																
MW-1(29)	2			X		X	HCl	6-7-92	1757		X					206	1939						
MW-2(27)	2							6-10-92	1423		X						1940						
MW-3(27)	2							6-10-92	1311		X						1941						
A-4(34)	2							6-10-92	1148		X						1940						
A-5(29)	2							6-9-92	1725		X						1948						
A-6(34)	2							6-9-92	1558		X						1944						
A-7(35)	2							6-9-92	1640		X						1945						
TB-1	2							6-10-92	-		X						1946						

Special detection Limit/reporting **Lowest possible**

Special QA/QC **as normal**

Remarks **2 40ml VOA's Per well**

Lab number

Turnaround time

Priority Rush 1 Business Day

Rush 2 Business Days

Expedited 5 Business Days

Standard 10 Business Days

Condition of sample: **good**

Temperature received: **Cool**

Relinquished by sampler *[Signature]*

Date **6-10-92** Time **16:35**

Received by **Amy McDonald**

Relinquished by **Amy McDonald**

Date **6-10-92** Time **5:30**

Received by laboratory *[Signature]*

Date **6/10**

Time **5:30 pm**



EMCON ASSOCIATES

WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

PROJECT NO: 670-34, 01

SAMPLE ID: A-4

PURGED BY: K. REICHELDERFER

CLIENT NAME: ARCO (5387)

SAMPLED BY: K. REICHELDERFER

LOCATION: 20200 HESPERIAN BLVD. HAYWARD

TYPE: Ground Water Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER (inches): 2 _____ 3 4 ~~_____~~ 4.5 _____ 6 _____ Other _____

CASING ELEVATION (feet/MSL):	<u> </u>	VOLUME IN CASING (gal.):	<u>7.19</u>
DEPTH TO WATER (feet):	<u>15.62</u>	CALCULATED PURGE (gal.):	<u>35.95</u>
DEPTH OF WELL (feet):	<u>34.95</u>	ACTUAL PURGE VOL (gal.):	<u>36.25</u>

DATE PURGED: 6-10-92 Start (2400 Hr) 1108 End (2400 Hr) 1129
 DATE SAMPLED: 6-10-92 Start (2400 Hr) 1145 End (2400 Hr) 1148

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>1114</u>	<u>7.25</u>	<u>6.21</u>	<u>1168</u>	<u>69.6</u>	<u>CLOUDY</u>	<u>LIGHT</u>
<u>1120</u>	<u>14.50</u>	<u>6.41</u>	<u>1164</u>	<u>68.8</u>	<u>"</u>	<u>"</u>
<u>1124</u>	<u>21.75</u>	<u>6.38</u>	<u>1170</u>	<u>67.9</u>	<u>"</u>	<u>"</u>
<u>1127</u>	<u>29.00</u>	<u>6.43</u>	<u>1185</u>	<u>67.7</u>	<u>"</u>	<u>"</u>
<u>1129</u>	<u>36.25</u>	<u>6.43</u>	<u>1168</u>	<u>67.5</u>	<u>"</u>	<u>"</u>

D. O. (ppm): NR ODOR: NONE COLOR: NR TURBIDITY: NR
(COBALT 0-100) (NTU 0-200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): NR

PURGING EQUIPMENT

SAMPLING EQUIPMENT

- | | | | |
|--|---|--|--|
| <input type="checkbox"/> 2" Bladder Pump | <input type="checkbox"/> Bailer (Teflon®) | <input type="checkbox"/> 2" Bladder Pump | <input checked="" type="checkbox"/> Bailer (Teflon®) |
| <input checked="" type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Bailer (PVC) | <input type="checkbox"/> DDL Sampler | <input type="checkbox"/> Bailer (Stainless Steel) |
| <input type="checkbox"/> Submersible Pump | <input type="checkbox"/> Bailer (Stainless Steel) | <input type="checkbox"/> Dipper | <input type="checkbox"/> Submersible Pump |
| <input type="checkbox"/> Well Wizard™ | <input type="checkbox"/> Dedicated | <input type="checkbox"/> Well Wizard™ | <input type="checkbox"/> Dedicated |
- Other: _____ Other: _____

WELL INTEGRITY: GOOD LOCK #: 2268

REMARKS : _____

Meter Calibration: Date: 6-10-92 Time: 1031 Meter Serial #: 9112 Temperature °F: 68.4
 (EC 1000 1014, 1000) (DI 9.80) (pH 7 7.32, 7.00) (pH 10 9.85, 10.00) (pH 4 3.96, _____)

Location of previous calibration: _____

Signature: K. Reichelderfer Reviewed By: JB Page 1 of 7



EMCON ASSOCIATES

WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

PROJECT NO: E70-34-01
PURGED BY: J. Williams
SAMPLED BY: "

SAMPLE ID: A-5
CLIENT NAME: ARCO 5387
LOCATION: ARLWACD CA

TYPE: Ground Water Surface Water Treatment Effluent Other
CASING DIAMETER (inches): 2 3 4 4.5 6 Other

CASING ELEVATION (feet/MSL): 1152 VOLUME IN CASING (gal.): 556
DEPTH TO WATER (feet): 14.60 CALCULATED PURGE (gal.): 27.99
DEPTH OF WELL (feet): 29.95 ACTUAL PURGE VOL (gal.): 29

DATE PURGED: 06-09-92 Start (2400 Hr) 17:06 End (2400 Hr) 17:20
DATE SAMPLED: 06-09-92 Start (2400 Hr) / End (2400 Hr) 17:25 (29)

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>17:06</u>	<u>6</u>	<u>6.37</u>	<u>1230</u>	<u>70.6</u>	<u>GRAY</u>	<u>HEAVY</u>
<u>17:11</u>	<u>12</u>	<u>6.39</u>	<u>1247</u>	<u>70.2</u>	<u>L</u>	<u>L</u>
<u>17:14</u>	<u>18</u>	<u>6.42</u>	<u>1261</u>	<u>70.3</u>	<u>L</u>	<u>L</u>
<u>17:15</u>	<u>24</u>	<u>6.40</u>	<u>1250</u>	<u>69.3</u>	<u>L</u>	<u>L</u>
<u>17:20</u>	<u>28</u>	<u>6.46</u>	<u>1257</u>	<u>69.9</u>	<u>L</u>	<u>L</u>

D. O. (ppm): 11R ODOR: None M.S. N/A
(COBALT 0 - 100) (NTU 0 - 200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): N/A

PURGING EQUIPMENT

SAMPLING EQUIPMENT

- | | | | |
|---|---|--|--|
| <input checked="" type="checkbox"/> 2" Bladder Pump | <input type="checkbox"/> Bailer (Teflon®) | <input type="checkbox"/> 2" Bladder Pump | <input checked="" type="checkbox"/> Bailer (Teflon®) |
| <input type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Bailer (PVC) | <input type="checkbox"/> DDL Sampler | <input type="checkbox"/> Bailer (Stainless Steel) |
| <input type="checkbox"/> Submersible Pump | <input type="checkbox"/> Bailer (Stainless Steel) | <input type="checkbox"/> Dipper | <input type="checkbox"/> Submersible Pump |
| <input type="checkbox"/> Well Wizard™ | <input type="checkbox"/> Dedicated | <input type="checkbox"/> Well Wizard™ | <input type="checkbox"/> Dedicated |
- Other: _____ Other: _____

WELL INTEGRITY: OK LOCK #: 8068

REMARKS: _____

Meter Calibration: Date: _____ Time: _____ Meter Serial #: _____ Temperature °F: _____
(EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)
Location of previous calibration: A-C

Signature: [Signature] Reviewed By: [Signature] Page 2 of 7



EMCON ASSOCIATES

WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

PROJECT NO: G70-34.0
PURGED BY: J. Williams
SAMPLED BY: S. Williams

SAMPLE ID: A-6
CLIENT NAME: ARRCO 5387
LOCATION: HAYWARD

TYPE: Ground Water Surface Water _____ Treatment Effluent _____ Other _____
CASING DIAMETER (inches): 2 _____ 3 4 _____ 4.5 _____ 6 _____ Other _____

CASING ELEVATION (feet/MSL): _____ VOLUME IN CASING (gal.): 17.36
DEPTH TO WATER (feet): 14.95 CALCULATED PURGE (gal.): 186.82
DEPTH OF WELL (feet): 34.75 ACTUAL PURGE VOL (gal.): 37

DATE PURGED: 6-9-92 Start (2400 Hr) 15:42 End (2400 Hr) 18:54
DATE SAMPLED: 6-9-92 Start (2400 Hr) _____ End (2400 Hr) 18:58

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>15:45</u>	<u>7.5</u>	<u>6.62</u>	<u>984</u>	<u>67.2</u>	<u>BROWN</u>	<u>HEAVY</u>
<u>15:48</u>	<u>15.0</u>	<u>6.30</u>	<u>1009</u>	<u>67.7</u>	<u>L</u>	<u>0</u>
<u>15:50</u>	<u>22.5</u>	<u>6.36</u>	<u>1009</u>	<u>67.7</u>	<u>L</u>	<u>0</u>
<u>15:51</u>	<u>30.0</u>	<u>6.41</u>	<u>1007</u>	<u>67.7</u>	<u>L</u>	<u>MOD</u>
<u>15:54</u>	<u>37.0</u>	<u>6.46</u>	<u>1008</u>	<u>67.4</u>	<u>L</u>	<u>MOD</u>

D. O. (ppm): NR ODOR: None _____
(COBALT 0 - 100) (NTU 0 - 200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): None

PURGING EQUIPMENT

SAMPLING EQUIPMENT

- | | | | |
|--|---|--|--|
| <input type="checkbox"/> 2" Bladder Pump | <input type="checkbox"/> Bailer (Teflon®) | <input type="checkbox"/> 2" Bladder Pump | <input checked="" type="checkbox"/> Bailer (Teflon®) |
| <input checked="" type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Bailer (PVC) | <input type="checkbox"/> DDL Sampler | <input type="checkbox"/> Bailer (Stainless Steel) |
| <input type="checkbox"/> Submersible Pump | <input type="checkbox"/> Bailer (Stainless Steel) | <input type="checkbox"/> Dipper | <input type="checkbox"/> Submersible Pump |
| <input type="checkbox"/> Well Wizard™ | <input type="checkbox"/> Dedicated | <input type="checkbox"/> Well Wizard™ | <input type="checkbox"/> Dedicated |

Other: _____

WELL INTEGRITY: Good LOCK #: 2768

REMARKS: _____

Meter Calibration: Date: 1-9-92 Time: 15:50 Meter Serial #: _____ Temperature °F: 41.7
(EC 1000 9.92/1000) (DI _____) (pH 7 721/700) (pH 10 9.8/1000) (pH 4 594/1)

Location of previous calibration: _____

Signature: [Signature] Reviewed By: JL Page 3 of 7



EMCON ASSOCIATES

WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

PROJECT NO: 670-39-01

SAMPLE ID: A-7

PURGED BY: S. Williams

CLIENT NAME: ARCO 5297

SAMPLED BY: S. Williams

LOCATION: H. H. V. A. D.

TYPE: Ground Water Surface Water Treatment Effluent Other

CASING DIAMETER (inches): 2 3 4 4.5 6 Other

CASING ELEVATION (feet/MSL): NR VOLUME IN CASING (gal.): 9.20
 DEPTH TO WATER (feet): 16.11 CALCULATED PURGE (gal.): 36.02
 DEPTH OF WELL (feet): 35.48 ACTUAL PURGE VOL. (gal.): 36

DATE PURGED: 06-09-97 Start (2400 Hr) 16:27 End (2400 Hr) 16:35
 DATE SAMPLED: 06-09-97 Start (2400 Hr) / End (2400 Hr) 16:35 (35)

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	EC. ($\mu\text{mhos/cm @ } 25^\circ\text{C}$)	TEMPERATURE ($^\circ\text{F}$)	COLOR (Visual)	TURBIDITY (Visual)
<u>16:26</u>	<u>7</u>	<u>6.82</u>	<u>1264</u>	<u>71.1</u>	<u>RPCalc</u>	<u>HEAVY</u>
<u>16:28</u>	<u>15</u>	<u>6.62</u>	<u>1263</u>	<u>70.6</u>	<u>L</u>	<u>L</u>
<u>16:31</u>	<u>22</u>	<u>6.56</u>	<u>1258</u>	<u>70.4</u>	<u>L</u>	<u>MOD</u>
<u>16:33</u>	<u>29</u>	<u>6.60</u>	<u>1278</u>	<u>70.2</u>	<u>L</u>	<u>L</u>
<u>16:35</u>	<u>36</u>	<u>6.61</u>	<u>1267</u>	<u>70.0</u>	<u>L</u>	<u>L</u>

D. O. (ppm): NR ODOR: None COBALT 0-100: NR NTU 0-200: NR

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): NR

PURGING EQUIPMENT

SAMPLING EQUIPMENT

- | | | | |
|--|---|--|--|
| <input type="checkbox"/> 2" Bladder Pump | <input type="checkbox"/> Bailer (Teflon®) | <input type="checkbox"/> 2" Bladder Pump | <input checked="" type="checkbox"/> Bailer (Teflon®) |
| <input checked="" type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Bailer (PVC) | <input type="checkbox"/> DDL Sampler | <input type="checkbox"/> Bailer (Stainless Steel) |
| <input type="checkbox"/> Submersible Pump | <input type="checkbox"/> Bailer (Stainless Steel) | <input type="checkbox"/> Dipper | <input type="checkbox"/> Submersible Pump |
| <input type="checkbox"/> Well Wizard™ | <input type="checkbox"/> Dedicated | <input type="checkbox"/> Well Wizard™ | <input type="checkbox"/> Dedicated |
| Other: _____ | | Other: _____ | |

WELL INTEGRITY: OK LOCK #: 2367

REMARKS: _____

Meter Calibration: Date: _____ Time: _____ Meter Serial #: _____ Temperature $^\circ\text{F}$: _____
 (EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)

Location of previous calibration: H.C.
 Signature: [Signature] Reviewed By: JB Page 4 of 7



WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

PROJECT NO: 670-3401
PURGED BY: Williams
SAMPLED BY: Williams

SAMPLE ID: MW-1
CLIENT NAME: ARC05397
LOCATION: HAYWARD CA

TYPE: Ground Water Surface Water _____ Treatment Effluent _____ Other _____
CASING DIAMETER (inches): 2 3 _____ 4 _____ 4.5 _____ 6 _____ Other _____

CASING ELEVATION (feet/MSL): N.R. VOLUME IN CASING (gal.): 2.61
DEPTH TO WATER (feet): 14.12 CALCULATED PURGE (gal.): 13.05
DEPTH OF WELL (feet): 3012 ACTUAL PURGE VOL (gal.): 13

DATE PURGED: 06-09-92 Start (2400 Hr) 17:32 End (2400 Hr) 17:53
DATE SAMPLED: 06-09-92 Start (2400 Hr) 17:55 End (2400 Hr) 17:57 (29)

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>17:38</u>	<u>2.5</u>	<u>6.47</u>	<u>1267</u>	<u>68.1</u>	<u>GRAL</u>	<u>NEARLY</u>
<u>17:41</u>	<u>5</u>	<u>6.45</u>	<u>1258</u>	<u>67.9</u>	<u>1</u>	<u>2</u>
<u>17:46</u>	<u>7.5</u>	<u>6.49</u>	<u>1260</u>	<u>67.5</u>	<u>1</u>	<u>2</u>
<u>17:49</u>	<u>10</u>	<u>6.49</u>	<u>1274</u>	<u>67.2</u>	<u>1</u>	<u>2</u>
<u>17:53</u>	<u>13</u>	<u>6.54</u>	<u>1254</u>	<u>67.1</u>	<u>1</u>	<u>1</u>

D. O. (ppm): 1.1 ODOR: STRONG N.R. N.R.
(COBALT 0 - 100) (NTU 0 - 200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): na

PURGING EQUIPMENT

SAMPLING EQUIPMENT

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> 2" Bladder Pump | <input type="checkbox"/> Bailer (Teflon®) | <input type="checkbox"/> 2" Bladder Pump | <input checked="" type="checkbox"/> Bailer (Teflon®) |
| <input type="checkbox"/> Centrifugal Pump | <input checked="" type="checkbox"/> Bailer (PVC) | <input type="checkbox"/> DDL Sampler | <input type="checkbox"/> Bailer (Stainless Steel) |
| <input type="checkbox"/> Submersible Pump | <input type="checkbox"/> Bailer (Stainless Steel) | <input type="checkbox"/> Dipper | <input type="checkbox"/> Submersible Pump |
| <input type="checkbox"/> Well Wizard™ | <input type="checkbox"/> Dedicated | <input type="checkbox"/> Well Wizard™ | <input type="checkbox"/> Dedicated |
- Other: _____ Other: _____

WELL INTEGRITY: OK LOCK #: 2268

REMARKS: _____

Meter Calibration: Date: _____ Time: _____ Meter Serial #: _____ Temperature °F: _____
(EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)
Location of previous calibration: P-C

Signature: [Signature] Reviewed By: JB Page 5 of 7



WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

EMCON
ASSOCIATES

PROJECT NO: G70-34,01

SAMPLE ID: MW-2

PURGED BY: K. REICHELDERFER

CLIENT NAME: ARCO 5387

SAMPLED BY: K. REICHELDERFER

LOCATION: 20200 HESPERIAN
BLVD, HAYWARD

TYPE: Ground Water Surface Water Treatment Effluent Other

CASING DIAMETER (inches): 2 3 4 4.5 6 Other

CASING ELEVATION (feet/MSL): <u> </u>	VOLUME IN CASING (gal.): <u>2.09</u>
DEPTH TO WATER (feet): <u>14.50</u>	CALCULATED PURGE (gal.): <u>10.44</u>
DEPTH OF WELL (feet): <u>27.30</u>	ACTUAL PURGE VOL (gal.): <u>11.25</u>

DATE PURGED: <u>6-10-92</u>	Start (2400 Hr) <u>1344</u>	End (2400 Hr) <u>1413</u>
DATE SAMPLED: <u>6-10-92</u>	Start (2400 Hr) <u>1419</u>	End (2400 Hr) <u>1423</u>

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>1352</u>	<u>2.25</u>	<u>6.38</u>	<u>1339</u>	<u>68.0</u>	<u>GREY</u>	<u>HEAVY</u>
<u>1357</u>	<u>4.50</u>	<u>6.51</u>	<u>1383</u>	<u>68.4</u>	<u>"</u>	<u>"</u>
<u>1402</u>	<u>6.75</u>	<u>6.47</u>	<u>1361</u>	<u>67.8</u>	<u>"</u>	<u>"</u>
<u>1408</u>	<u>8.00</u>	<u>6.50</u>	<u>1366</u>	<u>67.8</u>	<u>"</u>	<u>"</u>
<u>1413</u>	<u>11.25</u>	<u>6.52</u>	<u>1362</u>	<u>68.0</u>	<u>"</u>	<u>"</u>

D. O. (ppm): NR ODOR: STRONG NR NR
(COBALT 0-100) (NTU 0-200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): NR

PURGING EQUIPMENT

SAMPLING EQUIPMENT

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> 2" Bladder Pump | <input type="checkbox"/> Bailer (Teflon®) | <input type="checkbox"/> 2" Bladder Pump | <input checked="" type="checkbox"/> Bailer (Teflon®) |
| <input type="checkbox"/> Centrifugal Pump | <input checked="" type="checkbox"/> Bailer (PVC) | <input type="checkbox"/> DDL Sampler | <input type="checkbox"/> Bailer (Stainless Steel) |
| <input type="checkbox"/> Submersible Pump | <input type="checkbox"/> Bailer (Stainless Steel) | <input type="checkbox"/> Dipper | <input type="checkbox"/> Submersible Pump |
| <input type="checkbox"/> Well Wizard™ | <input type="checkbox"/> Dedicated | <input type="checkbox"/> Well Wizard™ | <input type="checkbox"/> Dedicated |
| Other: _____ | | Other: _____ | |

WELL INTEGRITY: GOOD LOCK #: 2268

REMARKS: _____

Meter Calibration: Date: 6-10-92 Time: _____ Meter Serial #: 9112 Temperature °F: _____
 (EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)

Location of previous calibration: A-4

Signature: Karin Reichelderfer Reviewed By: JB Page 6 of 7



EMCON ASSOCIATES

WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

PROJECT NO: 670-34.01

SAMPLE ID: MW-3

PURGED BY: K. REICHELDERFER

CLIENT NAME: ARCO 5387

SAMPLED BY: K. REICHELDERFER

LOCATION: 20200 HESPERIAN BLVD. HAYWARD

TYPE: Ground Water Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER (inches): 2 3 _____ 4 _____ 4.5 _____ 6 _____ Other _____

CASING ELEVATION (feet/MSL): _____	VOLUME IN CASING (gal.): <u>2.27</u>
DEPTH TO WATER (feet): <u>13.60</u>	CALCULATED PURGE (gal.): <u>11.34</u>
DEPTH OF WELL (feet): <u>27.50</u>	ACTUAL PURGE VOL (gal.): <u>12.50</u>

DATE PURGED: <u>6-10-92</u>	Start (2400 Hr) <u>1225</u>	End (2400 Hr) <u>1258</u>
DATE SAMPLED: <u>6-10-92</u>	Start (2400 Hr) <u>1305</u>	End (2400 Hr) <u>1311</u>

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>1234</u>	<u>2.50</u>	<u>6.59</u>	<u>1257</u>	<u>68.9</u>	<u>GREY</u>	<u>HEAVY</u>
<u>1240</u>	<u>5.00</u>	<u>6.46</u>	<u>1223</u>	<u>66.5</u>	<u>"</u>	<u>"</u>
<u>1247</u>	<u>7.50</u>	<u>6.45</u>	<u>1202</u>	<u>66.1</u>	<u>"</u>	<u>"</u>
<u>1252</u>	<u>10.00</u>	<u>6.44</u>	<u>1194</u>	<u>66.1</u>	<u>"</u>	<u>"</u>
<u>1258</u>	<u>12.50</u>	<u>6.46</u>	<u>1193</u>	<u>66.0</u>	<u>"</u>	<u>"</u>

D. O. (ppm): NR ODOR: STRONG NR (COBALT 0-100) NR (NTU 0-200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): NR

PURGING EQUIPMENT

SAMPLING EQUIPMENT

<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon®)	<input type="checkbox"/> 2" Bladder Pump	<input checked="" type="checkbox"/> Bailer (Teflon®)
<input type="checkbox"/> Centrifugal Pump	<input checked="" type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> DDL Sampler	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated
Other: _____		Other: _____	

WELL INTEGRITY: GOOD LOCK #: 2268 (RUSTY LOCK)

REMARKS: LOCK IS RUSTY

Meter Calibration: Date: 6-10-92 Time: _____ Meter Serial #: 9112 Temperature °F: _____
 (EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)

Location of previous calibration: A-4

Signature: Kevin Reichelderfer Reviewed By: JB Page 7 of 7