

### TRANSMITTAL

TO: Mr. Scott Seery ACHCSA 80 Swan Way, Room 200 Oakland, California 94621 DATE: December 29, 1992 PROJECT NUMBER: 60006.03 SUBJECT: ARCO Station 6041, 7249 Village Parkway, Dublin, California

FROM: Erin McLucas TITLE: Staff Geologist

WE ARE SENDING YOU:

COPIES	DATED	NO.	DESCRIPTION
1	12/29/92	60006.03	Final - Letter Report Quarterly Groundwater Monitoring Third Quarter 1992 at ARCO Station 6041, 7249 Village Parkway, Dublin, California.

### THESE ARE TRANSMITTED as checked below:

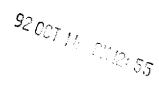
[] For review and comment	[] Approved as submitted	[] Resubmit copies for approval
[X] As requested	[] Approved as noted	[] Submit copies for distribution
[] For approval	[] Return for corrections	[] Return corrected prints
[] For your files		

### **REMARKS:**

Per ARCO's request (Mr. Michael Whelan) this report has been forwarded to you for your review.

Copies: 1 to RESNA project file no. 60006.03

October 12, 1992



Ms. Susan Hugo Alameda County Department of Environmental Health 80 Swan Way Oakland, California 94621

### ARCO Products Company Facilities in Alameda County

Dear Ms. Hugo:

Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the third quarter of 1992; also included are projected site activities for the fourth quarter of 1992 and a bibliography of reports submitted for each location.

The QSRs are classified by city and address within Alameda County. We are submitting this document and attached QSRs as agreed. Please note that we are forwarding copies of the QSRs to the Regional Water Quality Control Board (RWQCB).

Please note that ARCO Products Company has reviewed the RWQCB's February 19, 1991 printout of ARCO fuel leak sites. We have evaluated each site with respect to ARCO's responsibility for investigation, monitoring, and/or remediation. Those locations for which ARCO is not responsible were listed and described in the QSR package delivered to you on July 15, 1991. The attached QSRs therefore represent only those locations for which ARCO is responsible.

ARCO is planning the next comprehensive QSR submittal for ARCO sites on January 15, 1993. Please do not hesitate to contact us with any questions regarding this submittal.

Sincerely yours,

Kyle A. Christie

Environmental Engineer

Parula (V. Mony for

Attachments:

ARCO Facility QSRs

agenqsr.ltr 50013-004-06

UST LEAK Date of Last SITE UPDATE Review/Update June 29, 1992	Current Date September 25, 1992
SITE IDENTIFICATION	
Name ARCO Products Company 6041	Case No.
Address 7249 Village Parkway	
Street Number Street	
Dublin	
City	ZIP Code
County Alameda	Substance Gasoline
Local Agency Alameda County Health Care Services Agency	
Regional Board Regional Water Quality Control Board - San Francisco Bay Area	
LEAD STAFF PERSON ACHCSA-Scott Seery	
CASE TYPE	
Undetermined Soil OnlyX Groundwater	Drinking Water
STATUS (Date indicates when case moved into status)	
No Action Taken	
X Leak Being Confirmed	Date <u>9/26/90</u>
X Preliminary Site Assessment Workplan Submitted	Date 8/22/91
X Preliminary Site Assessment Underway	Date <u>9/91</u>
Pollution Characterization	Date
Remediation Plan	Date
Remedial Action Underway	Date
Post Remedial Action Monitoring	Date
Case Referred to Regional Board	Date
Case Referred to Dept. of Health Services	Date
Case Closed	Date
COMMENTS/MILESTONES:  Waste-oil tank removed from site in June 1990; approximately 20 cubic yards of soil was a area of former waste-oil tank (soil samples nondetectable). In response to a reported full 9/26/90. Drilled borings B-1 through B-3 and installed groundwater wells MW-1 through M	el spill, soil samples were collected on
RECENT ACTIVITIES/FINDINGS:	
Last Quarter Activities: Monthly groundwater monitoring and quarterly groundwater samp 1992 Quarterly Groundwater Monitoring Report was submitted.	ling were performed. The First Quarter
Current Quarter Activities: Monthly groundwater monitoring and quarterly groundwater a Quarter 1992 Quarterly Groundwater Monitoring Report was submitted. Drafted work plausubsurface investigation. Obtained permits for offsite wells.	ampling were performed. The Second n for initial offsite and additional onsite
ANTICIPATED ACTIVITIES:	
Next Quarter Activities: Continue monthly groundwater monitoring and quarterly samp investigation to regulatory agencies and initiate additional subsurface investigation. Offsite of nearby UST sites.	ling. Submit workplan for next phase portion of work on hold pending review
Reports documenting the site's history are listed on page 2.	

REPORT	DATE	CONSULTANT
Work Plan 60006.04	9/29/92	RESNA
Letter Report Second Quarter 1992 Groundwater Monitoring 60006.03	9/30/92	RESNA
Letter Report First Quarter 1992 Groundwater Monitoring 60006.03	5/1/92	RESNA
Letter Report Fourth Quarter 1991 Groundwater Monitoring Report 60006.03	3/7/92	RESNA
Work Plan for Subsurface Investigations and Remediation at ARCO 6041 60006.02	8/22/91	RESNA/Applied GeoSystems
Addendum One to Work Plan Subsurface Investigation at ARCO Station 6041 60006.02	8/22/91	RESNA/Applied GeoSystems
Letter Report-Limited Subsurface Investigation Related to the Removal of Waste-Oil Tank at ARCO Station 6041	9/19/90	Applied GeoSystems

60006.01



3315 Almaden Expressway, Suite 34

San Jose, CA 95118 Phone: (408) 264-7723 Fax: (408) 264-2345

LETTER REPORT
QUARTERLY GROUNDWATER MONITORING
Third Quarter 1992
at
ARCO Station 6041
7249 Village Parkway
Dublin, California

60006.03



3315 Almaden Expressway, Suite 34

San Jose, CA 95118 Phone: (408) 264-7723 Fax: (408) 264-2345

> December 29, 1992 11061WHE 60006.03

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

Subject:

Third Quarter 1992 Groundwater Monitoring Report for ARCO Station 6041,

7249 Village Parkway, Dublin, California.

Mr. Whelan:

As requested by ARCO Products Company (ARCO), this letter report summarizes the results of third quarter 1992 groundwater monitoring performed by ARCO's contractor, EMCON Associates (EMCON) of San Jose, California, at the above-referenced site. The objectives of this quarterly groundwater monitoring are to evaluate changes in the groundwater flow direction and gradient, and changes in concentrations of petroleum hydrocarbons in the local groundwater previously detected at the site. The field work and laboratory analyses of groundwater samples during this quarter were performed under the direction of EMCON and included measuring depths-to-water (DTW) levels, subjectively analyzing groundwater for the presence of petroleum product, collecting groundwater samples from the wells for laboratory analyses, and directing a State-certified laboratory to analyze the groundwater samples. Field procedures and acquisition of field data were performed under direction of EMCON; evaluation and warrant of their field data and field protocols is beyond RESNA Industries Inc.'s (RESNA's) scope of work. RESNA's scope of work was limited to interpretation of field and laboratory analyses data, which included evaluating trends in reported hydrocarbon concentrations in the local groundwater, the groundwater gradient, and flow direction beneath the site.

The operating ARCO Station 6041 is located in the northern corner of the intersection of Village Parkway and Amador Valley Boulevard in a commercial and residential area at 7249 Village Parkway, in Dublin, California. The site location is shown on the Site Vicinity Map, Plate 1.



### Quarterly Groundwater Monitoring ARCO Station 6041, Dublin, CA

Results of previous environmental investigations at the site are summarized in the reports listed in the references section of this report. The location of the groundwater monitoring wells, borings, and pertinent site features are shown on the Generalized Site Plan, Plate 2.

### Groundwater Sampling and Gradient Evaluation

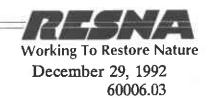
DTW levels were measured by EMCON field personnel on July 28, August 24, and September 9, 1992. Quarterly sampling was performed by EMCON field personnel on September 9, 1992. The results of EMCON's field work on the site, including DTW levels and subjective analysis for the presence of product in the groundwater in MW-1 through MW-3 are presented on EMCON's Field Reports, and EMCON's Summary of Groundwater Monitoring Data. These data are included in Appendix A.

The DTW levels, wellhead elevations, groundwater elevations, and subjective observations of product in the groundwater from MW-1 through MW-3 for this and previous quarters at the site are summarized in Table 1, Cumulative Groundwater Monitoring Data. Evidence of product or sheen was not observed by EMCON's field personnel during this quarter (see Emcon's Field Reports, Appendix A). The groundwater gradients, interpreted from Emcon's DTW levels, for July, August and September 1992 are shown on the Groundwater Gradient Maps, Plates 3 through 5. The groundwater gradients were essentially flat (less than 0.01), with flow directions to the south-southeast in July, to the east in August, and to the east-northeast in September. The flow directions interpreted for this quarter varied from those interpreted for the last quarter.

Groundwater monitoring wells MW-1 through MW-3 were purged and sampled by EMCON field personnel on September 9, 1992. EMCON's water sample field data sheets are included in Appendix A. Purge water was removed from the site by a licensed hazardous waste hauler; the Monitoring Well Purge Water Disposal Form is also included in Appendix A.

### **Laboratory Methods and Analyses**

Water samples collected from the wells MW-1 through MW-3 were analyzed by Columbia Analytical Services, Inc., located in San Jose, California (Hazardous Waste Testing Laboratory Certification No. 1426), and analyzed for total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) using modified Environmental Protection Agency (EPA) Methods 5030/8020/DHS LUFT Methods. Concentrations of TPHg and benzene in the groundwater are shown on Plate 6, TPHg/Benzene Concentrations in Groundwater. The Chain of Custody Records and



## Quarterly Groundwater Monitoring ARCO Station 6041, Dublin, CA

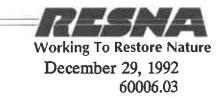
Laboratory Analysis Reports are attached in Appendix A. Groundwater analytical results from this and previous quarters are summarized in Table 2, Cumulative Results of Laboratory Analyses of Groundwater Samples.

Since last quarater the concentrations of TPHg and BTEX in groundwater monitoring well MW-1 decreased slightly, in well MW-2 decreased to nondetectable, and in well MW-3 increased.

It is recommended that copies of this report be forwarded to:

Mr. Scott Seery
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

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



### Quarterly Groundwater Monitoring ARCO Station 6041, Dublin, CA

If you have any questions or comments, please call us at (408) 264-7723.

Sincerely, RESNA Industries Inc.

Erin McLucas Staff Geologist

GEOLOGIS

KOISTERED JAMES LEWIS NELSON

No. 1463

CERTIFIED ENGINEERING

GEOLOGIST OF CAUFORNIA ☆ James L/ Nelson

Certified Engineering

Geologist 1463

Enclosures: References

Plate 1, Site Vicinity Map

Plate 2, Generalized Site Plan

Plate 3, Groundwater Gradient Map, July 28, 1992

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Plate 4, Groundwater Gradient Map, August 24, 1992

Plate 5, Groundwater Gradient Map, September 9, 1992

Plate 6, TPHg Concentration in Groundwater, September 1992

Table 1, Cumulative Groundwater Monitoring Data

Table 2, Cumulative Results of Laboratory Analyses of Groundwater Samples

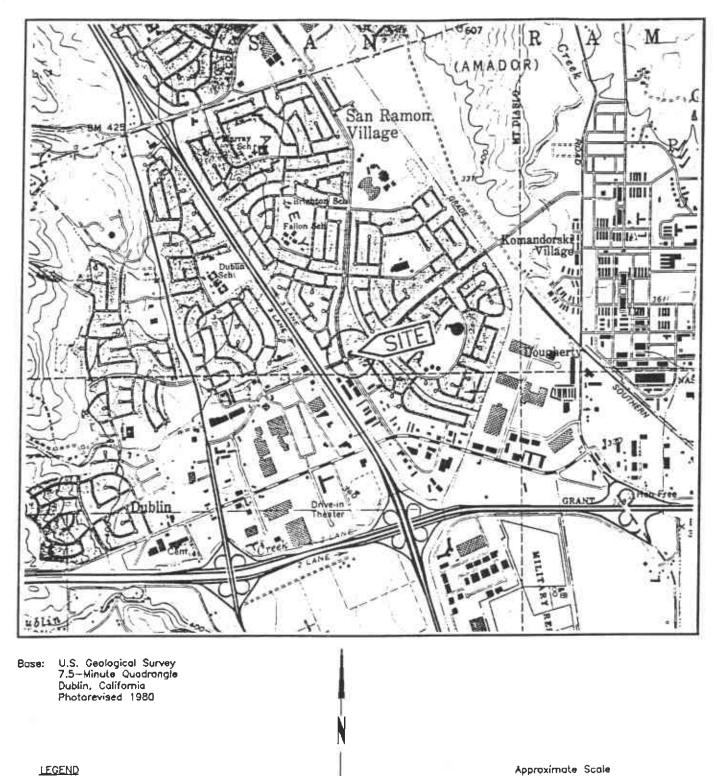
Appendix A: EMCON's Field Reports (2), Depth To Water/Floating Product Survey Results, Summary of Groundwater Monitoring Data, Certified Analytical Reports with Chain of Custody, Water Sample Field Data Sheets

Monitoring Well Purge Water Disposal Form

### REFERENCES

- Alameda County Flood Control and Water Conservation District, Zone 7. January 16, 1991.

  Fall 1990 groundwater Level Report.
- Applied GeoSystems. September 19, 1990. <u>Letter Report Limited Environmental Investigation Related to the Removal of Waste-Oil Tank at ARCO Station</u> 6041, 7249 Village Parkway, Dublin, California. 60006-1.
- California Department of Water Resources, 1974. <u>Evaluation of Ground-Water Resources</u>
  <u>Engineering Livermore and Sunol Valleys</u>; Bulletin No. 118-2, Appendix A.
- RESNA. August 22, 1991. Work Plan for Subsurface Investigation and Remediation at ARCO Station 6041, 7249 Village Parkway, Dublin, California. 60006.02.
- RESNA. August 22, 1991. Addendum One to Work Plan for Subsurface Investigation and Remediation at ARCO Station 6041, 7249 Village Parkway, Dublin, California. 60006.02.
- RESNA. August 30, 1991. Site Safety Plan. 60006.02S.
- RESNA. February 12, 1992. <u>Subsurface Environmental Investigation at ARCO Station</u> 6041, 7249 Village Parkway, Dublin, California. 60006.02
- RESNA. March 7, 1992. <u>Letter Report, Quarterly Groundwater Monitoring, Fourth Quarter 1992 at ARCO Station, 6041, 7249 Village Parkway, Dublin, California</u>. 60006.03
- RESNA. May 1, 1992. <u>Letter Report, Quarterly Groundwater Monitoring, First Quarter</u> 1992 at ARCO Station, 6041, 7249 Village Parkway, Dublin, California. 60006.03
- RESNA. September 25, 1992. <u>Letter Report, Quarterly Groundwater Monitoring, Second Quarter 1992 at ARCO Station 6041, 7249 Village Parkway, Dublin, California</u>. 60006.03.
- RESNA. September 29, 1992. Work Plan for Initial Offsite and Additional Onsite
  Subsurface Investigations at ARCO Station 6041, 7249 Village Parkway, Dublin,
  California. 60006.04



(◆) = Site Location

RESNA

PROJECT

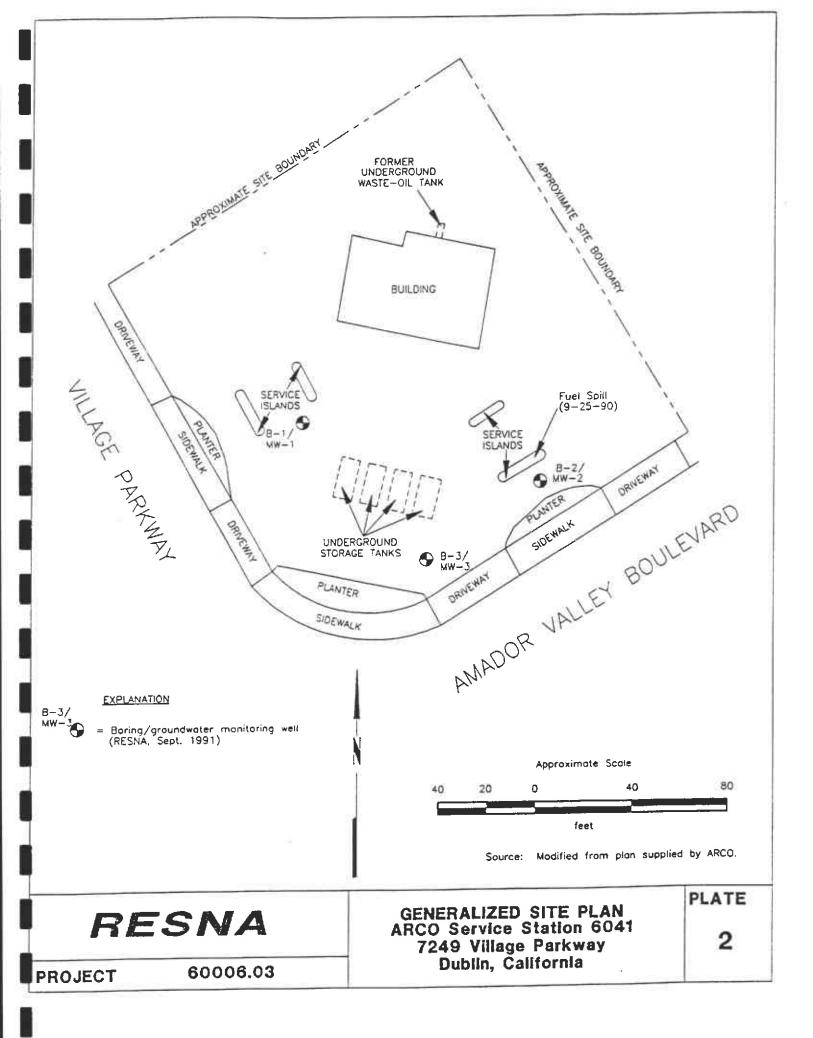
60006,03

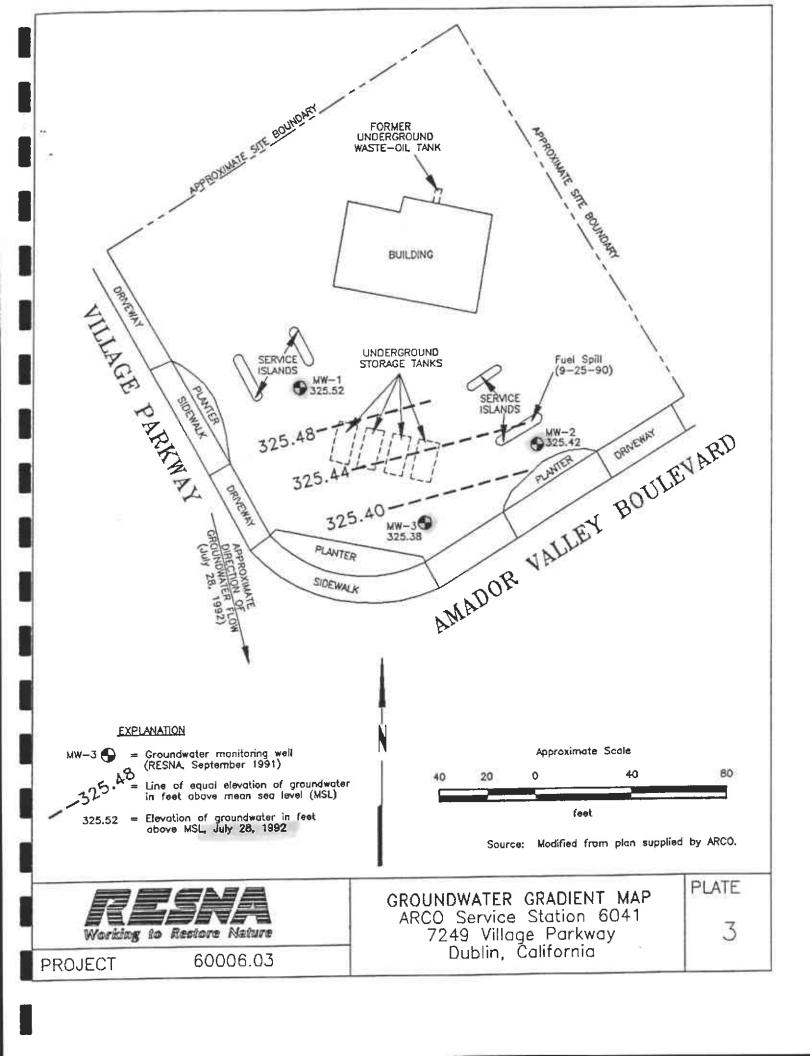
Approximate Scale 1000 2000 4000 feet

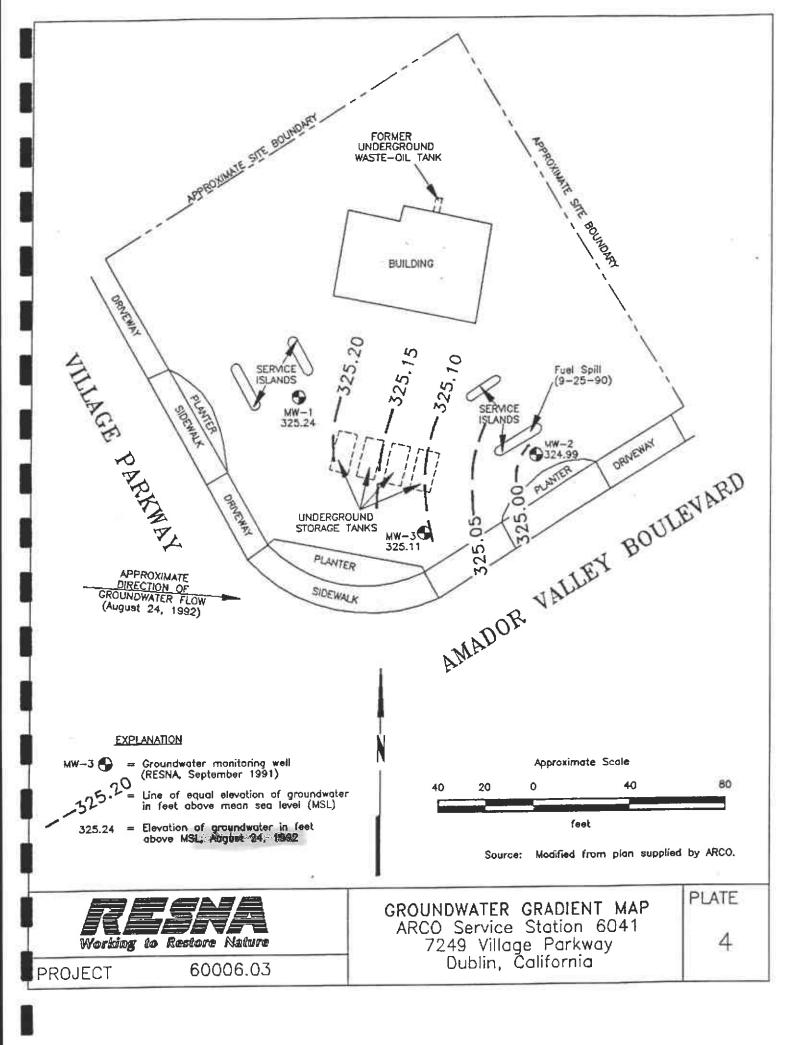
SITE VICINITY MAP **ARCO Service Station 6041** 7249 Village Parkway Dubiin, California

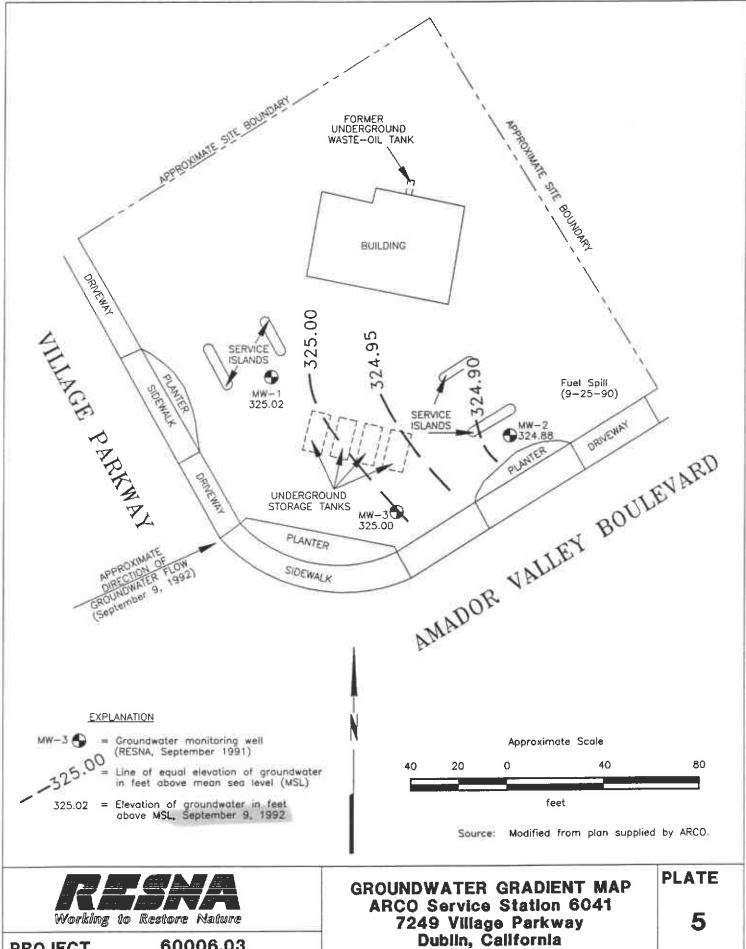
2000

PLATE

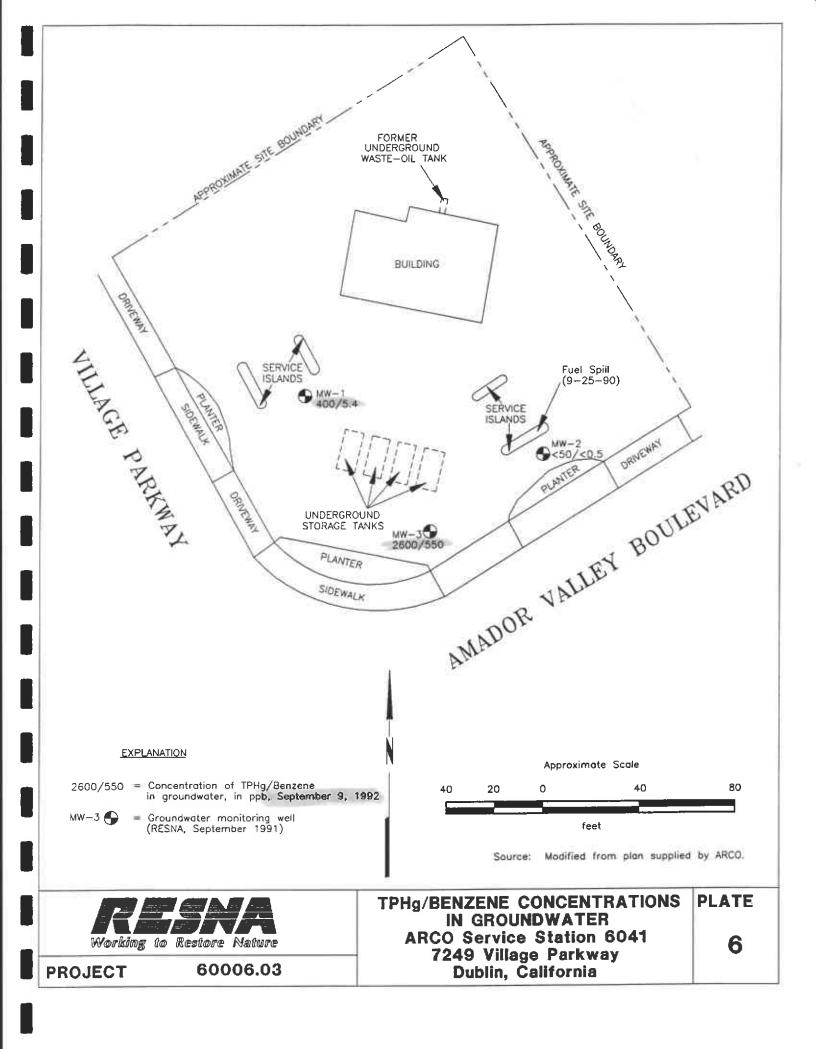








60006.03 **PROJECT** 





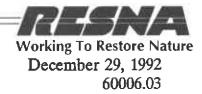
Quarterly Groundwater Monitoring ARCO Station 6041, Dublin, CA

# TABLE 1 CUMULATIVE GROUNDWATER MONITORING DATA ARCO Station 6041 Dublin, California

MW-1 09-20-91 10-22-91 11-27-91 12-16-91 01-18-92 02-21-92 03-16-92 04-24-92 05-15-92 06-09-92 07-28-92 08-24-92 09-09-92  MW-2 09-20-91 11-27-91 11-27-91 11-27-91 11-216-91 01-18-92 02-21-92 03-16-92 04-24-92	ation Water	Elevation	Product
09-20-91 336 10-22-91 11-27-91 12-16-91 01-18-92 02-21-92 03-16-92 04-24-92 05-15-92 06-09-92 07-28-92 08-24-92 09-09-92  MW-2 09-20-91 11-27-91 11-216-91 01-18-92 02-21-92 03-16-92			
10-22-91 11-27-91 12-16-91 01-18-92 02-21-92 03-16-92 04-24-92 05-15-92 06-09-92 07-28-92 08-24-92 09-09-92  MW-2 09-20-91 11-27-91 12-16-91 01-18-92 02-21-92 03-16-92			
11-27-91 12-16-91 01-18-92 02-21-92 03-16-92 04-24-92 05-15-92 06-09-92 07-28-92 08-24-92 09-09-92  MW-2 09-20-91 11-27-91 11-216-91 01-18-92 02-21-92 03-16-92	.56 11.20	325.36	None
12-16-91 01-18-92 02-21-92 03-16-92 04-24-92 05-15-92 06-09-92 07-28-92 08-24-92 09-09-92  MW-2 09-20-91 11-27-91 11-216-91 01-18-92 02-21-92 03-16-92	11.48	325.08	None
01-18-92 02-21-92 03-16-92 04-24-92 05-15-92 06-09-92 07-28-92 08-24-92 09-09-92 MW-2 09-20-91 10-22-91 11-27-91 12-16-91 01-18-92 02-21-92 03-16-92	11.27	325.29	None
02-21-92 03-16-92 04-24-92 05-15-92 06-09-92 07-28-92 08-24-92 09-09-92  MW-2 09-20-91 11-27-91 11-216-91 01-18-92 02-21-92 03-16-92	11.55	325.01	None
03-16-92 04-24-92 05-15-92 06-09-92 07-28-92 08-24-92 09-09-92 MW-2 09-20-91 10-22-91 11-27-91 12-16-91 01-18-92 02-21-92 03-16-92	11.37	325.19	None
04-24-92 05-15-92 06-09-92 07-28-92 08-24-92 09-09-92 <u>MW-2</u> 09-20-91 10-22-91 11-27-91 12-16-91 01-18-92 02-21-92 03-16-92	9.13	327.43	None
05-15-92 06-09-92 07-28-92 08-24-92 09-09-92 <u>MW-2</u> 09-20-91 10-22-91 11-27-91 12-16-91 01-18-92 02-21-92 03-16-92	9.70	326.86	None
06-09-92 07-28-92 08-24-92 09-09-92 <u>MW-2</u> 09-20-91 10-22-91 11-27-91 12-16-91 01-18-92 02-21-92 03-16-92	10.20	326.36	None
06-09-92 07-28-92 08-24-92 09-09-92 <u>MW-2</u> 09-20-91 10-22-91 11-27-91 12-16-91 01-18-92 02-21-92 03-16-92	10.46	326.10	None
07-28-92 08-24-92 09-09-92 <u>MW-2</u> 09-20-91 10-22-91 11-27-91 12-16-91 01-18-92 02-21-92 03-16-92	10.73	325.83	None
08-24-92 09-09-92 <u>MW-2</u> 09-20-91 334. 10-22-91 11-27-91 12-16-91 01-18-92 02-21-92 03-16-92	11.04	325.52	None
09-09-92  MW-2 09-20-91 10-22-91 11-27-91 12-16-91 01-18-92 02-21-92 03-16-92	11.32	325.24	None
09-20-91 334. 10-22-91 11-27-91 12-16-91 01-18-92 02-21-92 03-16-92	11.54	325.02	None
10-22-91 11-27-91 12-16-91 01-18-92 02-21-92 03-16-92			
11-27-91 12-16-91 01-18-92 02-21-92 03-16-92	.80 9.22	325_58	None
12-16-91 01-18-92 02-21-92 03-16-92	9.66	325.14	None
01-18-92 02-21-92 03-16-92	9.48	325.32	None
02-21-92 03-16-92	9.76	325.04	None
03-16-92	9.47	325.33	None
	7.62	327.18	None
04-24-92	7.84	326.96	None
	8.34	326.46	None
05-15-92	8.62	326.18	None
06-09-92	8.88	325.92	None
07-28-92	9.38	325.42	None
08-24-92	9.81	324.99	None
09-09-92	9.92	324.88	None
<u>MW-3</u>			
09-20-91 335.		325.37	None
10-22-91	10.48	325.05	None
11-27-91	10.17	325.36	None
12-16-91	10.25	325.28	None
01-18-92	10.71	324.82	None
02-21-92	8.68	326.85	None
03-16-92	8.91	326.62	None
04-24-92	9.14	326.39	None
05-15-92	9.54	325.99	None
06-09-92	9.72	325.81	None
07-28-92	10.15	325.38	None
08-24-92 09-09-92	10.42 10.53	325.11 325.00	None None

Measurements in feet.

Wells surveyed on October 11, 1991. Datum is City of Dublin = (USGS)



### Quarterly Groundwater Monitoring ARCO Station 6041, Dublin, CA

### TABLE 2 **CUMULATIVE RESULTS OF LABORATORY ANALYSES** OF GROUNDWATER SAMPLES ARCO Station 6041

Dublin, California

Well Date	ТРНд	Benzene	Toluene	Ethyi- Benzene	Total Xylenes
<u>MW-1</u>					
09-20-91	410	28	36	4.3	89
12-16-91	840	50	50	3.9	12
03-16-92	780	22	12	45	22
06-09-92	700	8.8	15	16	18
09-09-92	400	5.4	8.4	4.6	6.7
MW-2					
09-20-91	130	6.6	0.96	1.4	1.5
12-16-91	83	0.96	< 0.30	< 0.30	< 0.30
03-16-92	430	130	<25*	37	5.0
06-09-92	120	3.7	< 0.5	5.7	< 0.5
09-09-92	< 50	<0.5	< 0.5	< 0.5	<0.5
MW-3					
09-20-91	990	50	100	11	200
12-16-91	1,000	180	5.1	23	4.3
03-16-92	430	86	<1.0*	22	3.4
06-09-92	1,800	290	2.4	49	17
09-09-92	2,600	550	<5°	120	12
MCL		1		680	1,750
DWAL			100		_

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 5030/8015/8020.

Total petroleum hydrocarbons as gasoline (analyzed by EPA Method 5030/8015/8020). TPHg:

MCL:

Maximum contaminant level in drinking water (DHS, October 1990)

DWAL:

Department of Health Services Recommended drinking water action level (DHS, October 1990).

Raised method reporting limit due to high analyte concentration requiring sample dilution, as reported by Columbia

Analytical Services, Inc.

Sample Identification:

MW-3

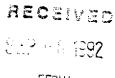
Monitoring well number

### APPENDIX A

EMCON'S FIELD REPORTS, DEPTH TO WATER/FLOATING PRODUCT SURVEY RESULTS, SUMMARY OF GROUNDWATER MONITORING DATA, CERTIFIED ANALYTICAL REPORTS WITH CHAIN OF CUSTODY, WATER SAMPLE FIELD DATA SHEETS

MONITORING WELL PURGE WATER DISPOSAL FORM





FESMA SANJOSF

ental Control				Project	G70-35.01
<b></b> .					
To:	•				
Mr. Joel Coffma					
RESNA/ Applie			<del>_</del>		
<del></del> '		sway, Suite 34	<del></del>		
San Jose, Cali	<u>iornia 9</u>	5118			
We are enclos	ing:				
Copies		Description			
1		Depth To Wate	er/Float	ing Product	Survey Results
······		August 1992 n	nonthly	water level	survey, ARCO
					ay, Dublin, CA
		· · · · · · · · · · · · · · · · · · ·			
For your:	X	Information	Sent	by: <u>X</u>	Mail
Comments:					
Monthly wa	ter leve	l data for the ab	ove me	ntioned site	are attached. Please
<u>call if you h</u>	ave any	questions: (408	<u>3) 453-2</u>	<u> 266.</u>	
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	- Hi	SKOTTE SKY	A. J. San		
Reviewed by:					
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		Exp. 6/2/4.			<b>.</b>
	135	15day 50		Roln	of Pato
	Elo	然 <sup>但TBU</sup> 然	3/1 14	Robert P	Porter, Senior Project
		OF CALL	C.		Engineer.

Sept 01, 1992

Date



### FIELD REPORT DEPTH TO WATER/FLOATING PRODUCT SURVEY

DATE: 8 - 83-9 - 7 STATION ADDRESS: 7249 Village Parkway, Dublin, CA PROJECT #: G70-35.01 FIELD TECHNICIAN: YS VACFFER ARCO STATION #: 6041 DAY: MON. DEPTH TO FLOATING Locking **FIRST** SECOND WELL Well Well **WELL** DEPTH TO DEPTH TO FLOATING PRODUCT **TOTAL** DTW Box Lid Well ID WATER WATER PRODUCT THICKNESS DEPTH **COMMENTS** Order Seal Secure Gasket Lock Cap (feet) (feet) (feet) (feet) (feet) MW-31 FINE 405 FINE 3259 175 1.32 NJO 425 FIRE UES FINE 3259 4es ND MW-2 NO.D MW-13 FIDE MUS 3289 465 1042 1042 ND NIN 14.7 **ルルー3 SURVEY POINTS ARE TOP OF WELL CASINGS** 



10 to 10 to

AUG 4 1992

RESNA SAN JOSE

ntal Control		Project	G70-35.01
		•	
To:			
Mr. Joel Coffma	n	_	
RESNA/ Applie	•	_	
3315 Almaden	Expressway, Suite 34		
San Jose, Calife	ornia 95118	_	
We are enclosi	ng:		
Copies	Description		
1	Depth To Water	/Floating Product	Survey Results
	July 1992 month	nly water level sur	vey, ARCO
	station 6041, 72	249 Village Parkwa	ay, Dublin, CA
For your:	X Information	Sent by: X	Mail
_			
Comments:			O - ch - d - Di
	ter level data for the above		are attached. Please
call if you ha	ave any questions: (408)	<u>453-2266.</u>	
	The state of the s		
			Jim Butera <i>JB</i>
Reviewed by:			
	(S) No: 4834		
	E EXP 6/30/96		1/1 -4
	To Vount Por	// Robert	Kforten
	(A) (O)	Bobert P	orter Senior Project

July 30, 1992

Date

Engineer.

### FIELD REPORT DEPTH TO WATER/FLOATING PRODUCT SURVEY

PROJECT #: G70-35.01 STATION ADDRESS: 7249 Village Parkway, Dublin, CA DATE: 7-28-92

ARCO STATION #: 6041 FIELD TECHNICIAN: RICH SCHAFFER DAY: TUES DAY

<u> </u>												
	14.200. 4	Well	Well			Locking	FIRST			FLOATING	WELL	
DTW	WELL	Box	Lid			Well				PRODUCT	TOTAL	
Order	ID	Seal	Secure	Gasket	Lock	Сар	WATER	WATER		THICKNESS		COMMENTS
ļ		<b> </b>			<u> </u>		(feet)	(feet)	(feet)	(feet)	(feet)	
1	MW-3	Fire	ues	je>	32.5-9	र्मामह्य	10.15	10.15	N.D	NID	14.7	
2	MW-2	FINE	4e5	L1€5	3259	Fine	9.38	9.38	N.D	N.D	14.1	_
3	MW-1	FILE	405	465	3259	FIRE	11.04	11,04	N.O	N.D	17.5	
												,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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### **SURVEY POINTS ARE TOP OF WELL CASINGS**



SEP 29 1992

HESMA SANGOSE

s in Wastes		Date	Sept 22, 1992
ment and ntal Control		Project	<u>G70-35.01</u>
To: Mr. Joel Coffman		-	
RESNA/ Applied Ge		-	
3315 Almaden Expr		-	
San Jose, California	95050	-	
We are enclosing:			
Copies	Description		
1	Depth To Water / Flo	oating Product S	urvey Results
1	Summary of Ground	dwater Monitoring	g Data
1	Certified Analytical I	Reports with Cha	ain-of-Custody
3	Water Sample Field	Data Sheets	· · · · · · · · · · · · · · · · · · ·
For your: X	Information	Sent by: X	Mail
Comments:			
Enclosed are th	ne data from the thi	rd quarter 1992	monitoring event at
ARCO service	station 6041, 7249	<u>Village Parkway</u>	/. Dublin, California,
Groundwater me	onitoring is conducted	<u>d consistent with</u>	applicable regulatory
guidelines, Plea	<u>se call if you have an</u>	y questions:.(40)	<u>8) 453-2266.</u>
			Jim Butera プβ
Reviewed by			
REGISTAL	7 No: 4944 - 114	<u>Pa (</u>	it Philo
	1, 6/3/94	Røbert F	Porter, Senior Project
10	XVIII THE STORY		Engineer.

### FIELD REPORT DEPTH TO WATER/FLOATING PRODUCT SURVEY

STATION ADDRESS: 7249 Village Parkway, Dublin, CA DATE: 9-9-97 PROJECT #: G70-35.01 FIELD TECHNICIAN: J Williams ARCO STATION #: 6041 DAY: W50. **FIRST** DEPTH TO | FLOATING Well Well Locking SECOND 1 WELL WELL DEPTH TO DEPTH TO FLOATING PRODUCT DTW Box Lid Well TOTAL ID Order WATER WATER PRODUCT THICKNESS Seal DEPTH Secure Gasket Lock Cap COMMENTS (feet) (feet) (feet) (feet) (feet) 3259 2259 OK OK 9.92 1.45 ND MW-2 9.92 NO 14.0 MW-1 NES OK 3255 11.54 11.54 Wn NP 17.5 42510K 3254 3 MW-3 1053 1053 NO 14.7 ND SURVEY POINTS ARE TOP OF WELL CASINGS

### Summary of Groundwater Monitoring Data Third Quarter 1992 ARCO Service Station 6041 7249 Village Parkway, Dublin, California micrograms per liter (µg/l) or parts per billion (ppb)

Well ID and Sample Depth	Sampling Date	Depth To Water (feet)	Floating Product Thickness (feet)	TPH <sup>1</sup> as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)
MW-1(17)	09/09/92	11.54	ND. <sup>2</sup>	400.	5.4	8.4	4.6	6.7
MW-2(13)	09/09/92	9.92	ND.	<b>&lt;50</b> .	<0.5	· <0.5	<0.5	<0.5
MW-3(14)	09/09/92	10.53	ND.	2,600.	<b>550</b> .	<b>&lt;</b> 5.	120.	12.
FB-1 <sup>3</sup>	09/09/92	NA. <sup>4</sup>	NA.	< 50	<0.5	< 0.5	<0.5	<0.5

TPH. = Total petroleum hydrocarbons
 ND. = Not detected
 FB. = Field blank

<sup>4.</sup> NA. = Not applicable



September 16, 1992

Jim Butera EMCON Associates 1921 Ringwood Avenue San Jose, CA 95131

Re: EMCON Project No. G70-35.01

Arco Facility No. 6041

Dear Mr. Butera:

Enclosed are the results of the water samples submitted to our lab on September 9, 1992. For your reference, our service request number for this work is SJ92-1133.

All analyses were performed in accordance with the laboratory's quality assurance program.

Please call if you have any questions.

Respectfully submitted:

COLUMBIA ANALYTICAL SERVICES, INC.

Keoni A. Murphy

Laboratory Manager

Innelise Jade Bayar Annelise J. Bazar

Regional QA Coordinator

le/KAM

### Analytical Report

Client:

**EMCON Associates** 

Project:

EMCON Project No. G70-35.01

Arco Facility No. 6041

Date Received:

09/09/92 SJ92-1133

Work Order #: Sample Matrix:

Water

BTEX and TPH as Gasoline EPA Methods 5030/8020/DHS LUFT Method  $\mu$ g/L (ppb)

	Sample Name: Date Analyzed:	<u>MW-1 (17)</u> 09/11/92*	<u>MW-2 (13)</u> 09/14/92	<u>MW-3 (14)</u> 09/14/92
<u>Analyte</u>	MF	<u>ır</u>		
Benzene	0.	5 5.4	ND	550.
Toluene	0.	5 8.4	ND	< 5. * *
Ethylbenzene	0.		ND	120.
Total Xylenes	0.	5 6.7	ND	12.
TPH as Gasoline	50	400.	ND	2,600.

TPH Total Petroleum Hydrocarbons

MRL Method Reporting Limit

ND None Detected at or above the method reporting limit

This sample was part of the analytical batch started on September 11, 1992. However, it was analyzed after midnight so the actual date analyzed is September 12, 1992.

\*\* Raised MRL due to high analyte concentration requiring sample dilution.

Approved by Kan Muniky

Date September 16,1973

#### CULUMBIA ANALY HEAL SERVICES, INC.

### Analytical Report

Client:

**EMCON Associates** 

Project:

EMCON Project No. G70-35.01

Arco Facility No. 6041

Date Received:

09/09/92

Work Order #: SJ92-1133

Sample Matrix: Water

BTEX and TPH as Gasoline EPA Methods 5030/8020/DHS LUFT Method  $\mu$ g/L (ppb)

	Sample Name: Date Analyzed:		<u>FB-1</u> 09/11/92	Method Blank 09/11/92	Method Blank 09/14/92
<u>Analyte</u>		MRL			
Benzene		0.5	ND	ND	ND
Toluene		0.5	ND	ND	ND
Ethylbenzene		0.5	ND	ND	ND
Total Xylenes		0.5	ND	ND	ИD
TPH as Gasoline		50	ND	ND	ND

TPH Total Petroleum Hydrocarbons

MRL Method Reporting Limit

ND None Detected at or above the method reporting limit

Approved by NOWN Muyhy

Date September 16, 1992

Client:

**EMCON Associates** 

Project: EMCON Project No. G70-35.01

Arco Facility No. 6041

Date Received: 09/09/92

Work Order #: SJ92-1133

QA/QC Report Initial Calibration Verification BTEX and TPH as Gasoline EPA Methods 5030/8020/DHS LUFT Method Nanograms

Date Analyzed:

09/11/92

				CAS Percent Recovery
	True		Percent	Acceptance
<u>Analyte</u>	<u>Value</u>	<u>Result</u>	Recovery	<u>Criteria</u>
Benzene	250.	257.	103.	85-115
Toluene	250.	260.	104.	85-115
Ethylbenzene	250.	255.	102.	85-115
Total Xylenes	750.	728.	97.	85-115
TPH as Gasoline	2,500.	2,420.	97.	90-110

Date Analyzed:

09/14/92

	True	Donulé	Percent	CAS Percent Recovery Acceptance Criteria
<u>Analyte</u>	<u>Value</u>	Result	Recovery	Cittena
Benzene	250.	249.	100.	85-115
Toluene	250.	260.	104.	85-115
Ethylbenzene	250.	244.	98.	85-115
Total Xylenes	750.	710.	95 <i>.</i>	85-115
TPH as Gasoline	2,500.	2,596.	104.	90-110

TPH Total Petroleum Hydrocarbons

Client:

**EMCON Associates** 

Project: EMCON Project No. G70-35.01

Arco Facility No. 6041

Date Received:

09/09/92

Work Order #: Sample Matrix:

SJ92-1133

Water

### QA/QC Report Surrogate Recovery Summary BTEX and TPH as Gasoline EPA Methods 5030/8020/DHS LUFT Method

Sample Name	Date Analyzed	Percent Recovery a,a,a-Trifluorotoluene
MW-1 (17)	09/11/92	103.
MW-2 (13)	09/14/92	95.
MW-3 (14)	09/14/92	93.
FB-1	09/11/92	93.
MS	09/11/92	125.
DMS	09/11/92	107.
Method Blank	09/11/92	103.
Method Blank	09/14/92	98.
	CAS Acceptance Criteria	70-130

Total Petroleum Hydrocarbons TPH

Client:

**EMCON Associates** 

Project:

EMCON Project No. G70-35.01

Arco Facility No. 6041

Date Received: Work Order #:

09/09/92 \$J92-1133

Sample Matrix: Water

QA/QC Report Matrix Spike/Duplicate Matrix Spike Summary

TPH as Gasoline

EPA Method 5030/DHS LUFT Method

 $\mu$ g/L (ppb)

Date Analyzed:

09/11/92

Percent Recovery

Analytes	Spike Level	Sample Result	Spike <u>MS</u>	Result DMS	MS	DMS	Acceptance <u>Criteria</u>
TPH as Gasoline	250.	130.	394.	381.	105.	100.	70-130

TPH Total Petroleum Hydrocarbons

ARCO		UCIS of Atlanti	Com icRichfield					Task O	rder No.	EN	ICO	s C-	- <i>9</i> 2	9~/	/ <del>-</del>							Chain of Custoo	ly
ARCO Facili		604	11	Cit (Fa	y acility)	<u>/\</u>	ibliù	2	rder No.	Project (Consu	manaç itant)	ger	ر ر	Tin	1 /	Bu	TET	ZA		V	<del></del> -	Laboratory name	
ARCO engin	eer 🔨	yle	Chu	15/1	e		Telephon (ARCO)	7137571	-2434	Telepho (Consu	one no. Itant)	jæ.	453	-07	19	Fa: (Co	x no. onsultar	11) 4	48 4	153-	045Z	Contract number	
ARCO engin	ame E	WC	21	ASSC	C114	725 <u> </u>		Address (Consulta	int) 19	38	Jt.	MC	TO	n/	the	(	Eu	$\iota_{\cdot}\mathcal{J}$	ے ح	<b>.</b>		0707	7
				Matrix			rvation		_		7E	- N-	П	ш				□   OA	007/0 <u>1</u>			Method of shipment Sau plev Will	
Sample I.D.	Lab no.	Container no.	Soil	Water	Other	lce	Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH CAS EPA M602/8020/8015	TPH Modified 8015 Gas Diesel	Oil and Grease 413.1 C 413.2 C	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP S Metals \( \text{VOA} \( \text{S} \)	CAM Metals EPA 6010/7000	Lead Org./DHS CLead EPA 12077421		deliver	
MW-1(17	1/2	2		大		メ	HCI	9-9-92	1501		χ											Special detection Limit/reporting	
uw.2(13)	3-4	2		7		X	HCI	7700	1400		K											Lowest Possible	
иш-2(13) иш-3(14 FB-1	54	2		入		K	HCI	9.9.92	1447		X											7.557,55	
FB-1	7-3	2				$\lambda$	HC1	9-9-92	1515		X											Specjal QA/QC	
				,												-						Special QA/QC AS - Normal	
<u> </u>		<u> </u>	<del>                                     </del>				<u>                                     </u>			ļ		_		-			ļ. <u></u>		<u> </u>	:		Remarks	,
										ļ		-		<u></u>			ļ		<b></b>			_2 youl HC	(
																						2.40ml HC Vons per well	
																						G70-350	1
		<u> </u>	ļ		ļ																	Lab number	
	<u> </u>				ļ					ļ												5542-1133	1
				ļ	ļ					ļ	1			ļ						:		Turnaround time	
	<u> </u>	<u> </u>	<u> </u>						<u> </u>		<u> </u>	<u></u>					<u> </u>					Priority Rush 1 Business Day	
Relinquishe	d by san	npley // C				OK_	Date 9-9.	-S >	Time /5 5 C	Recei	erature	receiv	əd: 	<del></del>	_Kc	201	<u>1</u>						
Belinquishe	d by				**** ***** **** ***	<del></del>	Date		Time	Recei	ved by					·		<del></del> <del></del>		<del>-</del>		Expedited 5 Business Days	
Relinquishe	d by					·	Date		Time	Recei	/ /	labora	,	3			Date Q-C	7-0	72	Time	:00	Standard 10 Business Days	×

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant APPC-3292 (2-91)

### WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

ARR.	WAILU .	SWIMLTE LIF	LD DAIA		
	PROJECT NO: 6	70-35-0/	SAMPLE ID:	MW-1	
EMCON	PURGED BY: 5	Williams	CLIENT NAME:	ARCO 6041	
ASSOCIATES	SAMPLED BY: 5	W.ll.pmc	LOCATION:	7249 Village	Pkru
		_		Dublin. EA	
		ace Water Trea			<del></del>
CASING DIAME	TER (inches): 2	3 4	4.5	6 Other	<del>,                                      </del>
CASING ELE	/ATION (feet/MSL):	WR	VOLUME IN CASING	(gai.):3,90	
	TO WATER (feet):			E (gal.): <u>19, 55</u>	
1	OF WELL (feet):			(gal.): 8.5	
		· · · · · · · · · · · · · · · · · · ·			
DATE PURGE	D: <u>090997</u>	Start (2400 Hr)	1426 E	nd (2400 Hr) 1432	
	D: 090997	1 7		nd (2400 Hr) 144	
	•	, ,			
TIME (2400 Hr)	VOLUME pH (gal.) (unit	E.C. s) (шиноs/cm @ 25° C)	TEMPERATURE (°F)	COLOR TURB (visual) (visual)	
	4 6.5		75.0	GREY HEA	04
1430	8 6.7	0 25-60	74.1	<u> </u>	
	OCIED BEFER	8.5 GALLOW Tu	- ~ 1432		
1450	Recharge 6.7	0 2500	78,1	GRZY HEIR	10
D O (nom):	WR	ODOR: N	)	MA NA	7
			(0	COBALT 0 - 100) (NTU 0	- 200)
FIELD QC SAM	PLES COLLECTED AT T	THIS WELL (i.e. FB-1, XD	UP-1): <i>PB-</i>	<i>'</i>	
				EQUIPMENT	
	PURGING EQUIPMENT	(T-8A)	2" Bladder Pump	Bailer (Teffon®)	
2" Bladder	·	(Teflon®)	_ DDL Sampler	Bailer (Stainless	Stoot
Centrifugal	•	(PVC) — (Stainless Steel) —	- Dipper	— Submersible Pu	· 1
Weil Wizar	,	-	- Well Wizard <sup>mx</sup>	Dedicated	
Other:		Other			
	1: _ BK			LOCK#: 3259	
VEIL INTEGRIT	MA 1 Tu-16	132		LOOK#,	
REMARKS: ——	MEIG DIE	. 3 2			
	200				
		ne: 130 d Meter Ser			
		(pH 7/)	(pH 10/_	) ( pH 4/	)
Location of previo	us calibration:	- 3	_		
One	- adl-	Reviewe	d By:	Page _/ of _	3
ignature:		neviewe	ш Бу		

#### Rev. 2, 5/91 WATER SAMPLE FIELD DATA SHEET SAMPLEID: Mill-2 PROJECT NO: 670-35.01 PURGED BY: JWILLAME CLIENT NAME: \_MRCO 604/ LOCATION: 7249 UILLE PKWY JWilliams SAMPLED BY: Ground Water \_\_\_\_ Surface Water \_\_\_\_ Treatment Effluent \_\_\_\_ Other\_\_\_\_ TYPE: CASING DIAMETER (inches): 3\_\_\_\_ 4.5 \_\_\_\_ Other\_\_\_ VOLUME IN CASING (gal.): \_\_\_\_2.6 7 WR CASING ELEVATION (feet/MSL): \_ 992 13.38 DEPTH TO WATER (feet): \_\_ CALCULATED PURGE (gal.): \_\_\_ 14.0 140 ACTUAL PURGE VOL. (gai.): \_ DEPTH OF WELL (feet): \_\_\_ DATE PURGED: 0909 97 Start (2400 Hr) 1350 End (2400 Hr) 1408 DATE SAMPLED: 090997 Start (2400 Hr) 1405 End (2400 Hr) 1406 VOLUME E.C. **TEMPERATURE** COLOR TIME Hq TURBIDITY (µmhos/cm@ 25° C) (gal.) (2400 Hr) (visual) (units) (visual) 6.49 3840 745 CREN HEAUY 1253 1.47 4246 6,49 135R 4230 72, 3 651 4260 1400 1403 4250 72. V.R ODOR: Non C n/L NRD. O. (ppm): (COBALT 0 - 100) (NTU 0 - 200) X/R\_ FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): \_\_\_\_\_ **PURGING EQUIPMENT** SAMPLING EQUIPMENT 2° Bladder Pump Bailer (Teffon®) 2° Blacker Pump Bailer (Teffon®) Bailer (PVC) Centrifugal Pump **DDL Sampler** Bailer (Stainless Steel) Submersible Pump Bailer (Stainless Steel) Dipper Submersible Pump Weli Wizard™ — Well Wizard™ Dedicated Dedicated Other: . Other: . WELL INTEGRITY: OK LOCK#: 3259 REMARKS: -

Meter Calibration: Date: 9-9-92 T	īme: <u>1300</u> 1	Meter Serial #:		Temperature °F:
(EC 1000/) (DI	_) (pH 7/	) (pH 10	/	) (pH 4/)
Location of previous calibration:	1W-3	_		
oin la litelli		Davisonad Dati	JB	Page 2 of 3

Signature: -

Reviewed By: —

#### Rev. 2, 5/91 WATER SAMPLE FIELD DATA SHEET PROJECT NO: \_670-3570/\_ SAMPLEID: \_\_MW-3 PURGED BY: July // Jun 5 CLIENT NAME: ARCO 6041 SAMPLED BY: \_ J W. M. M. M. S LOCATION: 7249 Village Rekusay TYPE: Ground Water \_\_\_\_\_ Other\_\_\_ Other\_\_\_ 3\_\_\_\_ CASING DIAMETER (inches): 4<u>X</u> 4.5 \_\_\_\_ Other\_ CASING ELEVATION (feet/MSL): WR VOLUME IN CASING (gai.): 2,7 1053 DEPTH TO WATER (feet): \_\_\_\_ ACTUAL PURGE VOL (gai.): \_\_\_ DATE PURGED: 090992 Start (2400 Hr) 13/5 DATE SAMPLED: 090992 Start (2400 Hr) \_\_\_\_\_ VOLUME **TEMPERATURE** TIME E.C. COLOR рН TURBIDITY (µmhos/cm@ 25° C) (2400 Hr) (cal.) (units) (visuai) (Visuai) 2720 74,9 1320 BROWN 6.43 HEAUY DRIKO After 4.0 Gillow Blown 22.4 HERUY 1507 WR ODOR: STRONG NR D. O. (ppm): -(COBALT 0 - 100) (NTU 0 - 200) FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): PURGING EQUIPMENT SAMPLING EQUIPMENT Bailer (Teflon®) 2º Bladder Pump Bailer (Teflon®) 2" Bladder Pump Bailer (PVC) Centrifugai Pump **DDL Sampler** Bailer (Stainless Steet) Submersible Pump Bailer (Stainless Steel) Dîpper Submersible Pump . Well Wizard™ Dedicated - Well Wizard™ Dedicated Other: . Other: . WELL INTEGRITY: \_\_OK \_\_\_\_\_\_LOCK#: <u>32.55</u> DRIED Time 43:25

REMARKS: -Meter Calibration: Date: 9-9-97 Time: 1300 Meter Serial #: 9/// Temperature °F: 77/

(EC 1000 826 / 1000) (DI \_\_\_\_) (pH 7 72/ / 7.00) (pH 10 1035 / 1000) (pH 4 397 / \_\_\_)

Location of previous calibration:

Signature: Columbia Reviewed By: B Page 3 of 3

TF NUMBER: 1072-1

GIB-92-074

## MONITORING WELL PURGE WATER TRANSPORT FORM

بازار		CODE ( 4 7702)										
	GENERATOR IN	PUKMATION										
<b>i</b>	NAME:	ARCO PRODUC	TS									
,	ADDRESS:	P.O. BOX 5811										
ı	CITY, STATE, ZIP:	SAN MATEO, C	A 94402 PHONE #: (415) 571-2434									
	THE PARTY OF MATTER WATER GENERATED DURING SAMPLING OR DEVELOPMENT OF MONITORING WELLS LOCATED AT VARIOUS											
	SITES. AUGES RUSATE GENERATED DURING THE INSTALLATION OF MONITORING WELLOW											
		THE WATER MAY CONTAIN DEROCKED HYDROCARBONS.										
	THE OENERATOR CERTURE THAT THIS WATER											
	AL DESCRIBED IS NON-HAZARDY		(types of primary in									
	SITE INFORMA	TION										
<u> </u>	STA#	JOB#	ADDRESS	GALS								
ļ <sup>.</sup>		21073-DW	5498 MONTEREY HWY., SAN JOSE, CA	401								
1	A-2092	210/3-DW 21053-PW	785 E. STANLEY, LIVERMORE, CA	30								
2	A-6113	21033-PW 21088-PW	899 RINCON AVE., LIVERMORE, CA	98								
3	A-771	20916-PW	40077 MISSION BLVD., FREMONT, CA	8								
4	A-6201	21045-PW	22141 CENTER ST., CASTRO VALLEY, CA	123								
· 5	A-2152 A-6041	21050-PW	7249 VILLAGE PKWY., DUBLIN, CA	27								
,	A-4495	21038	1950 S. DELAWARE, SAN MATEO, CA	46								
8	A-4430	21010-PW	2995 MIDDLEFIELD RD., PALO ALTO, CA	173								
9	A-2010	21090-PW	2110 OLD MIDDLEFIELD RD., MOUNTAIN VIEW, CA	415								
10	A-1319	21054-PW	365 JACKSON ST., HAYWARD, CA	346								
, 11	A-5387	21087-PW	20200 HESPERIAN BLVD., HAYWARD, CA TOTAL GALLONS:	1,995								
			TOTAL GALLONS:	1,555								
	TRANSPORTER	INFORMATI	ION									
,	NAME:	BALCH PETRO	OLEUM									
1	ADDRESS:	930 AMES AV	Б.									
ļ		MILPITAS, CA	DIVONIT #. (408) 042-868	6								
ì	CITY,STATE,ZIP:	MILPITAS, CA	9/ 1/9/	9-24-9								
	TRUCK ID #:	PETERBILT	(Typed or printed full name & signature)	(Date)								
}	TO SECOND VIEW	TADEO DAGATE		** <u>*</u>								
ļ	TSD FACILITY		$C_{i,\sigma,c} = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$									
	NAME:	GIBSON ENVI	RONMENTAL CLOV 1967	., <u></u>								
	ADDRESS:	475 SEAPORT										
_	CITY,3TATE,ZII:	REDWOOD C	TTY, CA 94063 PHONE #: (415) 368-551									
	RELEASE #:	11320	Shaw PARIO Shaw	PAN Data's								
•	Water State 14 v		(Typed or printed full name & signature)	(Date)								
1			Dn Gir 92-074	104								