EMCON Associates
1921 Ringwood Avenue • San Jose, California 95131-1721 • **(408) 453-7300** • Fax (408) 437-9526

HAZMAT

Need gradient map - newer wells been surveyed? Yes

94 SEP -6 PM 3:49

Date: August 30, 1994
Project 0C75-005.24

To:

Ms. Eva Chu
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

We are enclosing:

Copies	Description
1	Second Quarter 1994 Groundwater Monitoring Report for ARCO Service Station 6041

For your:			Sent by:	
	X	Use		Regular Mail
		Approval		Standard Air
		Review		Courier
		Information	X	Other

Comments: Please call with any questions or comments.

John C. Young
Project Manager

EMCON Associates
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August 26, 1994
Project 0C75-005.24

Mr. Michael Whelan
Environmental Engineer
ARCO Products Company
P. O. Box 5811
San Mateo, California 94420

Re: Second quarter 1994 groundwater monitoring program results, ARCO service station 6041, Dublin, California

Dear Mr. Whelan:

This letter presents the results of the second quarter 1994 groundwater monitoring program at ARCO Products Company (ARCO) service station 6041, 7249 Village Parkway, Dublin, California (Figure 1).

MONITORING PROGRAM RESULTS

The second quarter 1994 groundwater monitoring event was performed by Integrated Wastestream Management, Inc. (IWM) on May 17, 1994. Wells MW-1 through MW-6 are monitored quarterly. Groundwater samples collected during second quarter monitoring were analyzed for total petroleum hydrocarbons as gasoline (TPHG), and benzene, toluene, ethylbenzene, and total xylenes (BTEX). Certified analytical reports, chain-of-custody documentation, and field data sheets are presented in Appendix A. Depths to groundwater and analytical data are presented in Table 1. Figure 2 presents groundwater elevation data along with TPHG and benzene concentrations from the May 17, 1994 monitoring event.

SITE STATUS UPDATE

This update reports site activities performed during the second quarter of 1994 and the anticipated site activities for the third quarter of 1994.

Second Quarter 1994 Activities

- Quarterly groundwater monitoring report for first quarter 1994 prepared and submitted by RESNA Industries Inc.
- IWM performed second quarter 1994 groundwater monitoring event.

Work Anticipated Third Quarter 1994

- Prepare and submit quarterly groundwater monitoring report for second quarter 1994.
- Perform quarterly groundwater monitoring for third quarter 1994.

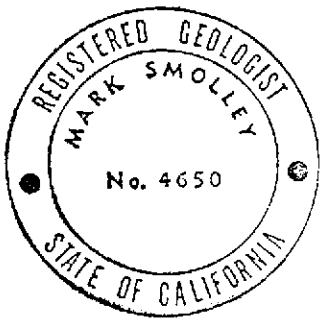
Please call if you have questions.

Sincerely,

EMCON Associates

John C. Young
Project Manager

Mark Smolley, R.G. #4650
Senior Project Geologist



Attachments: Table 1 - Summary of Groundwater Sample Analyses for ARCO Facility A-6041
Figure 1 - Site Location
Figure 2 - Site Plan
Appendix A - Certified Analytical Report, Chain-of-Custody Documentation and Field Data Sheets

I NTEGRATED
W ASTESTREAM
M ANAGEMENT

Table 1

Summary of Ground Water Sample Analyses for ARCO Facility A-6041, Dublin, California

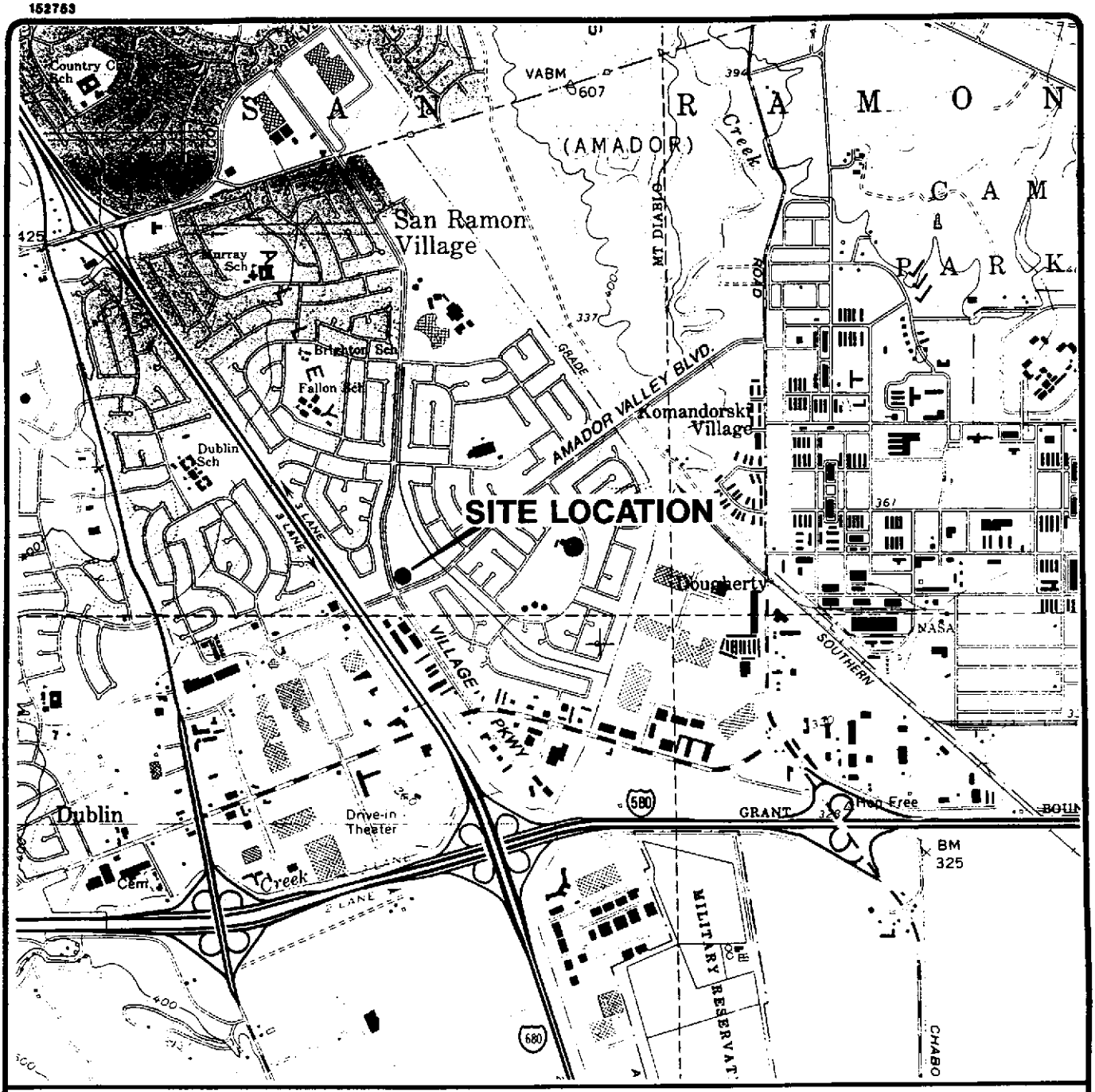
WELL NUMBER	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
DATE SAMPLED	5/17/94	5/17/94	5/17/94	5/17/94	5/17/94	5/17/94
DEPTH TO WATER	9.82	7.99	9.11	7.49	8.99	9.10
SHEEN	NONE	NONE	NONE	NONE	NONE	NONE
PRODUCT THICKNESS	NA	NA	NA	NA	NA	NA
TPHg	1,400	150	200	ND	ND	ND
BTEX						
BENZENE	79	19	44	ND	ND	ND
TOLUENE	1.4	ND	ND	ND	ND	ND
ETHLYBENZENE	11	2.5	9.3	ND	ND	ND
XYLENES	2.4	1.2	ND	ND	ND	ND

FOOTNOTES:

Concentrations reported in ug/L (ppb).
TPHg = Total Purgeable Petroleum Hydrocarbons (USEPA Method 8015 Modified)
BTEX Distinction (USEPA Method 8020)
PCE = Tetrachloroethene (USEPA Method 8010)
* = Well inaccessible
** = Not sampled per consultant request.

DCE = cis-1, 2-Dichloroethene (USEPA Method 8010)
TCE = Trichloroethene (USEAP Method 8010)
ND = Not Detected.
NA = Not applicable.
FP = Floating product.

152763



Base map from USGS 7.5' Quad. Map:
Dublin, California. (Photorevised 1980).

N

Scale : 0 2000 4000 Feet

EMCON Associates

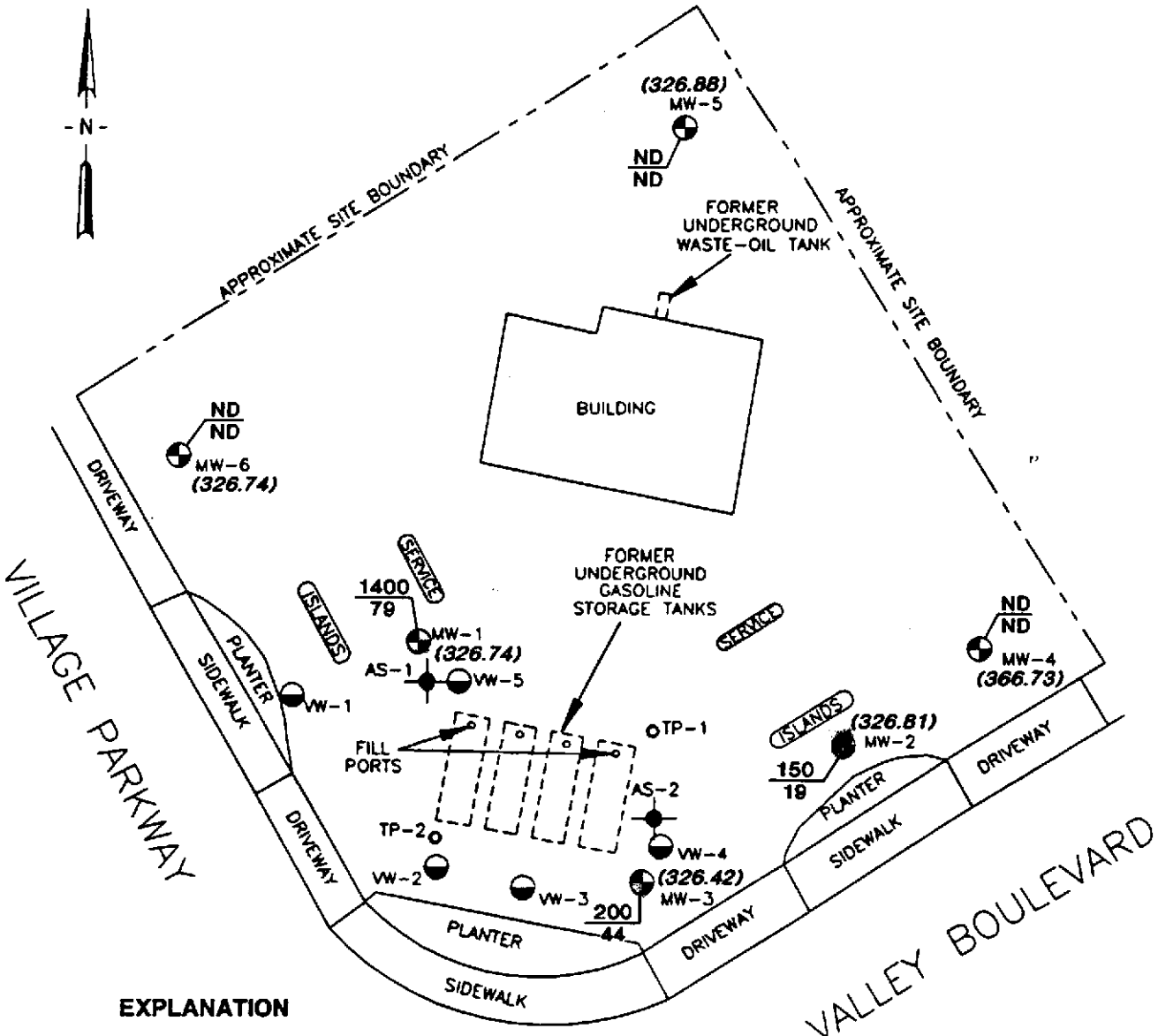
ARCO PRODUCTS COMPANY
SERVICE STATION 6041, 7249 VILLAGE PARKWAY
QUARTERLY GROUNDWATER MONITORING
DUBLIN, CALIFORNIA

SITE LOCATION

FIGURE 1

PROJECT NO. C75-05.24

155812



EXPLANATION

- Groundwater monitoring well
- Tank pit observation well
- Vapor extraction well
- Air sparge well

(326.74) Groundwater elevation (Ft.-MSL); measured 5/17/94

150/19 — 150 = TPHG concentration in groundwater (ppb); 19 = Benzene concentration in groundwater (ppb)

ND = Not detected

SCALE: 0 40 FEET (Approximate)

Base map modified from RESNA, 1994.

EMCON Associates

ARCO PRODUCTS COMPANY
SERVICE STATION 6041, 7249 VILLAGE PARKWAY
QUARTERLY GROUNDWATER MONITORING
DUBLIN, CALIFORNIA

SITE PLAN

FIGURE 2

PROJECT NO. C75-05.24

APPENDIX A

CERTIFIED ANALYTICAL REPORT, CHAIN-OF-CUSTODY DOCUMENTATION AND FIELD DATA SHEETS

Columbia Analytical Services, Inc.

June 6, 1994 Service Request No. SJ940598

Gina Austin
Tom DeLon
IWM
950 Ames Avenue
Milpitas, CA 95035

Re: **ARCO Facility No. 6041**

Dear Ms. Austin/Mr. DeLon:

Attached are the results of the water samples submitted to our lab on May 18, 1994. For your reference, these analyses have been assigned our service request number SJ940598.

All analyses were performed consistent with our laboratory's quality assurance program. All results are intended to be considered in their entirety, and CAS is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted:

COLUMBIA ANALYTICAL SERVICES, INC.

Keoni A. Murphy
Laboratory Manager

Annelise J. Bazar
Regional QA Coordinator

KAM/drf

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Acronyms

ASTM	American Society for Testing and Materials
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
NAN	Not Analyzed
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected at or above the MRL
NR	Not Requested
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	IWM	**Date Collected:**	5/17/94
Project:	ARCO Facility No. 6041	**Date Received:**	5/18/94
Sample Matrix:	Water	**Date Extracted:**	NA
		Service Request:	SJ940598

BTEX and TPH as Gasoline
EPA Methods 5030/8020/California DHS LUFT Method
Units: µg/L(ppb)

	Sample Name:	**MW-1 (13.5)**	**MW-2 (8.4)**	**MW-3 (13.4)**
	Lab Code:	SJ940598-2	SJ940598-3	SJ940598-4
	Date Analyzed:	5/26/94	5/26/94	5/27/94
Analyte	**MRL**			
Benzene	0.5	79	19	44
Toluene	0.5	1.4	ND	ND
Ethylbenzene	0.5	11	2.5	9.3
Total Xylenes	0.5	2.4	1.2	ND
TPH as Gasoline	50	1,400	150	200

Approved By: Keam A Murphy Date: June 6, 1994

3S22/041594

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	IWM	**Date Collected:**	5/17/94
Project:	ARCO Facility No. 6041	**Date Received:**	5/18/94
Sample Matrix:	Water	**Date Extracted:**	NA
		Service Request:	SJ940598

BTEX and TPH as Gasoline
EPA Methods 5030/8020/California DHS LUFT Method
Units: µg/L(ppb)

Sample Name:	**MW-4 (12.1)**	**MW-5 (15)**	**MW-6 (12.3)**
Lab Code:	SJ940598-5	SJ940598-6	SJ940598-7
Date Analyzed:	5/26/94	5/26/94	5/26/94

Analyte	**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	ND
TPH as Gasoline	50	ND	ND	ND

Approved By: Kevin A Murphy Date: June 6, 1994

3S22/041594

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	IWM	**Date Collected:**	5/17/94
Project:	ARCO Facility No. 6041	**Date Received:**	5/18/94
Sample Matrix:	Water	**Date Extracted:**	NA
		Service Request:	SJ940598

BTEX and TPH as Gasoline
EPA Methods 5030/8020/California DHS LUFT Method
Units: µg/L(ppb)

		Sample Name:	**Method Blank**	**Method Blank**	**Method Blank**
		Lab Code:	SJ940525-WMB	SJ940526-WMB	SJ940527-WMB
		Date Analyzed:	5/25/94	5/26/94	5/27/94
Analyte	**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	ND
TPH as Gasoline	50		ND	ND	ND

Approved By: _____ Date: June 6, 1994

3S22/041594

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	IWM	**Date Collected:**	5/17/94
Project:	ARCO Facility No. 6041	**Date Received:**	5/18/94
Sample Matrix:	Water	**Date Extracted:**	NA
		Date Analyzed:	5/25-27/94
		Service Request:	SJ940598

Surrogate Recovery Summary
BTEX and TPH as Gasoline
EPA Methods 5030/8020/California DHS LUFT Method

Sample Name	Lab Code	Percent Recovery α,α,α-Trifluorotolulene
MW-1 (13.5)	SJ940598-2	101*
MW-2 (8.4)	SJ940598-3	103
MW-3 (13.4)	SJ940598-4	108
MW-4 (12.1)	SJ940598-5	101
MW-5 (15)	SJ940598-6	105
MW-6 (12.3)	SJ940598-7	105
MW-4 (12.1)MS	SJ940598-5MS	100
MW-4 (12.1)DMS	SJ940598-5DMS	102
Method Blank	SJ940525-WMB	101
Method Blank	SJ940526-WMB	103
Method Blank	SJ940527-WMB	107

CAS Acceptance Limits: 69-116

* The surrogate used for this sample was 4-Bromofluorobenzene.

Approved By: _____ Date: June 6, 1994

SUR1/041594

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	IWM	**Date Analyzed:**	5/25/94
Project:	ARCO Facility No. 6041	**Service Request:**	SJ940598

Initial Calibration Verification (ICV) Summary
BTEX and TPH as Gasoline
EPA Methods 5030/8020/California DHS LUFT Method
Units: ppb

Analyte	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits
Benzene	25	25.4	102	85-115
Toluene	25	25.4	102	85-115
Ethylbenzene	25	25.1	100	85-115
Total Xylenes	75	77.4	103	85-115
TPH as Gasoline	250	246	98	90-110

Approved By: _____ Date: Dec 6, 1994

ICV24/041594

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	IWM	**Date Collected:**	5/17/94
Project:	ARCO Facility No. 6041	**Date Received:**	5/18/94
Sample Matrix:	Water	**Date Extracted:**	NA
		Date Analyzed:	5/25/94
		Service Request:	SJ940598

Matrix Spike/Duplicate Matrix Spike Summary
BTE
EPA Methods 5030/8020
Units: µg/L (ppb)

Sample Name: MW-4 (12.1)
Lab Code: SJ940598-5

Analyte	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference
Benzene	25	25	ND	25.3	25.5	101	102	75-135	<1
Toluene	25	25	ND	25.3	25.5	101	102	73-136	<1
Ethylbenzene	25	25	ND	25.1	25.3	100	101	69-142	<1

Approved By: Kevin A Murphy Date: June 6, 1994

DMS1S/041594

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ARCO Products Company
Division of AtlanticRichfieldCompany

Task Order No. TWM-94-5CC

Chain of Custody

ARCO Facility no. A 6041	City (Facility) Dublin	Project manager (Consultant) TOM DeTom / Thom Young	Laboratory name Columbia
ARCO engineer Mike Whelan	Telephone no. (ARCO) 415 571 2434	Telephone no. (Consultant) 408/942 8955	Fax no. (Consultant) 408/942 1499
Consultant name TWM/ResNa	Address (Consultant) 950 Tames av Milp. Ca 95035		Contract number 07077

	Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid HCl	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ Semi VOA ☐ VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐		
	FB-1	1	2		✓		✓	✓	5-17-94	1100		✓	✓										
13.5	MW-1	2	2		✓		✓	✓		1440		✓	✓										
8.4	MW-2	3	2		✓		✓	✓		1407		✓	✓										
13.4	MW-3	4	2		✓		✓	✓		1455		✓	✓										
12.1	MW-4	5	2		✓		✓	✓		1430		✓	✓										
15	MW-5	6	2		✓		✓	✓		1418		✓	✓										
12.3	MW-6	7	2		✓		✓	✓		1448		✓	✓										

Special detection Limit/reporting

Special QA/QC

Remarks: Hold on FB-1

Lab number: 5J94-0598

Turnaround time

- Priority Rush 1 Business Day ☐
- Rush 2 Business Days ☐
- Expedited 5 Business Days ☐
- Standard 10 Business Days ☑

Method of shipment: CBS COURIER

Condition of sample: Good		Temperature received: Cool	
Relinquished by sampler: Tina Saldi	Date 5/18/94	Time 859AM	Received by: Tina Austin
Relinquished by: Tina Austin	Date 5/18/94	Time 11:55	Received by: [signature] 5-18-94 11:55
Relinquished by	Date	Time	Received by laboratory Date Time

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

Quarterly Monitoring Report Checklist

Site Number: 4E0041 **City:** Dublin

Results of comparison between current analyticals and previous quarter analytical results.

- [x] No significant change.
- [ ] Significant change as follows (Tom DeLon to review):

  Well(s)_____

  _____

COVER SHEET

- [x] Addressed to the correct contact, consultant firm, and street address.
- [x] Reports correct Sampling Date
- [x] Reports correct Site Number and City

SUMMARY SHEET

- [x] Correct sampling date.
- [x] Correct DTW measurements from field sheet.
- [ ] If Applicable: Floating product measurements are calculated correctly.
- [x] Correct analytical results.

FIELD SHEETS

- [x] Subjective evaluation sheet is complete.
- [x] Correct number of field sheets per number of wells sampled.
- [x] All field sheets are signed by field technician.

ANALYTICAL RESULTS

- [x] Sampling Date is correct.
- [x] Detection Limits are reviewed
- [x] Signed by Laboratory personnel.
- [x] Copy of COC is attached.

PROOFREAD BY: Austin 6/7/94
(Name and Date)

REVIEW PROCESS:

- [x] Report has been reviewed by Tom DeLon
- [x] Report submitted for copying.

FINAL REVIEW:

- [ ] Report copy is correct.
- [ ] Report signed by Tom DeLon.

I NTEGRATED
W ASTESTREAM
M ANAGEMENT, INC.

June 10, 1994

Mr. John Young
RESNA Industries
3315 Almaden Expressway, Suite 34
San Jose, CA 95118

Dear Mr. Young:

Attached are the field data sheets and analytical results for quarterly ground water sampling at ARCO Facility No. A-6041 in Dublin, California. Integrated Wastestream Management measured the depth to water and collected samples from wells at this site on May 17, 1994.

Sampling was carried out in accordance with the protocols described in the "Request for Bid for Quarterly Sampling at ARCO Facilities in Northern California".

Please call us if you have any questions.

Sincerely,
Integrated Wastestream Management

Tom DeLon
Project Manager

Walter H. Howe
Registered Geologist

REGISTERED GEOLOGIST
WALTER H. HOWE
No. 730
Exp. 6/'94
STATE OF CALIFORNIA

950 AMES AVENUE MILPITAS, CA. 95035 (408) 942-8955

I NTEGRATED
W ASTESTREAM
M ANAGEMENT

A6041Q2.XLS

Summary of Ground Water Sample Analyses for ARCO Facility A-6041, Dublin, California

WELL NUMBER	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
DATE SAMPLED	5/17/94	5/17/94	5/17/94	5/17/94	5/17/94	5/17/94
DEPTH TO WATER	9.82	7.99	9.11	7.49	8.99	9.10
SHEEN	NONE	NONE	NONE	NONE	NONE	NONE
PRODUCT THICKNESS	NA	NA	NA	NA	NA	NA
TPHg	1,400	150	200	ND	ND	ND
BTEX						
BENZENE	79	19	44	ND	ND	ND
TOLUENE	1.4	ND	ND	ND	ND	ND
ETHLYBENZENE	11	2.5	9.3	ND	ND	ND
XYLENES	2.4	1.2	ND	ND	ND	ND

FOOTNOTES:

Concentrations reported in ug/L (ppb).
TPHg = Total Purgeable Petroleum Hydrocarbons (USEPA Method 8015 Modified)
BTEX Distinction (USEPA Method 8020)
PCE = Tetrachloroethene (USEPA Method 8010)
* = Well inaccessible
** = Not sampled per consultant request.

DCE = cis-1, 2-Dichloroethene (USEPA Method 8010)
TCE = Trichloroethene (USEAP Method 8010)
ND = Not Detected.
NA = Not applicable.
FP = Floating product.

950 AMES AVENUE MILPITAS, CA 95035 (408) 942-8955

FIELD REPORT

Depth To Water / Floating Product Survey

NEW TDs Taken From Top of Box on 5-17-94

DTW: Well Box or Well Casing (circle one)

Site Arrival Time: 1200

Site Departure Time: 1515

Weather Conditions: Cloudy Cool

Project No.: _____ **Location:** 7249 Village Pky. **Date:** May 17, 1994

Client / Station#: Arco 6041 **Field Technician:** Vince/Cisco **Day of Week:** Tuesday

DTW ORDER	WELL ID	SURFACE SEAL	LID SECURE	GASKET	• LOCK	EXPANDING CAP	TOTAL DEPTH (Feet)	FIRST DEPTH TO WATER (Feet)	SECOND DEPTH TO WATER (Feet)	DEPTH TO FLOATING PRODUCT (Feet)	FLOATING PRODUCT THICKNESS (Feet)	SHEEN (Y=YES, N=NO) FP=FLOATING PRODUCT	COMMENTS	MATERIALS
	MW-1	OK	Yes	OK	OK	OK	17.84	9.82-	9.82-	N/A	N/A	N	4"	15/16
	MW-2	OK	Yes	OK	OK	OK	14.24	7.99+	7.99+	N/A	N/A	N	4" H2o in well box	15/16
	MW-3	OK	Yes	OK	OK	OK	15.02	9.11-	9.11-	N/A	N/A	N	4" H2o in well box	15/16
	MW-4	OK	Yes	OK	OK	OK	14.90	7.49-	7.49-	N/A	N/A	N	4" H2o in well box	15/16
	MW-5	OK	Yes	OK	OK	OK	17.90	8.99-	8.99-	N/A	N/A	N	4"	15/16
	MW-6	OK	Yes	OK	OK	OK	16.13	9.10+	9.10+	N/A	N/A	N	4" H2o in well box	15/16

PAGE 2 OF 3 DATE: May 17, 94 CLIENT/STATION #: ARCO 6041 ADDRESS: 7249 Village Pkwy. Dublin

WELL ID: MW-5 TD 17.90 DTW 8.99 x 0.66 (Gal./Linear Ft.) x 3 (Casing Volume) = 17.64 (Calculated Purge)

DATE PURGED: 5-17-94 START (2400 HR): 1409 END (2400 HR): 1415
DATE SAMPLED: 5-17-94 TIME (2400 HR): 1418 DTW: 15

TIME (2400 HR)	VOLUME (GAL)	pH (UNITS)	(E.C. X 1,000) (UMHOS/CM@25 C)	TEMP. (F)	COLOR (VISUAL)
1410	3	6.78	2.96	69.8	clear
1412	10	6.91	2.92	68.6	clear
1413	16	6.93	2.95	68.5	clear
1415	17	6.95	2.97	68.3	clear

Total purge: 17
PURGING EQUIP.: Centrifugal Pump / Bailer Disp. SAMPLING EQUIP: Bailer Disp.
REMARKS: well pumped dry at 16, and 17 gallons.

WELL ID: MW-4 TD 14.90 DTW 7.49 x 0.66 (Gal./Linear Ft.) x 3 (Casing Volume) = 14.67 (Calculated Purge)

DATE PURGED: 5-17-94 START (2400 HR): 1421 END (2400 HR): 1428
DATE SAMPLED: 5-17-94 TIME (2400 HR): 1430 DTW: 12.1

TIME (2400 HR)	VOLUME (GAL)	pH (UNITS)	(E.C. X 1,000) (UMHOS/CM@25 C)	TEMP. (F)	COLOR (VISUAL)
1422	3	6.85	4.15	70.1	clear
1424	9	6.71	3.96	68.0	clear
1426	10	6.73	3.92	67.8	clear
1428	11	6.76	3.97	67.7	clear

Total purge: 11
PURGING EQUIP.: Centrifugal Pump Bailer Disp. SAMPLING EQUIP: Bailer Disp.
REMARKS: well pumped dry at 9, 10, and again at 11 gallons.

WELL ID: MW-6 TD 16.13 DTW 9.10+ x 0.66 (Gal./Linear Ft.) x 3 (Casing Volume) = 13.91 (Calculated Purge)

DATE PURGED: 5-17-94 START (2400 HR): 1440 END (2400 HR): 1446
DATE SAMPLED: 5-17-94 TIME (2400 HR): 1448 DTW: 12.3

TIME (2400 HR)	VOLUME (GAL)	pH (UNITS)	(E.C. X 1,000) (UMHOS/CM@25 C)	TEMP. (F)	COLOR (VISUAL)
1441	2	6.86	4.10	70.0	clear
1443	9	6.80	4.35	69.9	clear
1444	12	6.83	4.39	69.8	clear
1446	14	6.86	4.21	68.9	clear

Total purge: 14
PURGING EQUIP.: Centrifugal Pump Bailer Disp. SAMPLING EQUIP: Bailer Disp.
REMARKS: well pumped dry at 12, and again at 14 gallons.

WELL ID: ____ TD ____ DTW ____ x Gal./Linear Ft. ____ x Casing Volume ____ = Calculated Purge ____

DATE PURGED: ____ START (2400 HR): ____ END (2400 HR): ____
DATE SAMPLED: ____ TIME (2400 HR): ____ DTW: ____

TIME (2400 HR)	VOLUME (GAL)	pH (UNITS)	(E.C. X 1,000) (UMHOS/CM@25 C)	TEMP. (F)	COLOR (VISUAL)

Total purge: ____
PURGING EQUIP.: Centrifugal Pump Bailer Disp. SAMPLING EQUIP: Bailer Disp.
REMARKS: ____

PRINT NAME: Vince Valdez SIGNATURE: Vince Valdez

CASING DIAMETER (inches):	2	3	4	6	8	12	Other:
GALLON/LINEAR FOOT:	0.17	0.38	0.66	1.5	2.6	5.8	Other:

PAGE 3 OF 3 DATE: 5-17-94 CLIENT/STATION #: A6041 ADDRESS: 7249 Village Pkwy, Dublin

WELL ID: MW-2 TD 14.24 DTW 7.99+ X 0.66 (Gal. / Linear Ft.) X 3 (Casing Volume) = 12.37 (Calculated Purge)

DATE PURGED: 5-17-94 START (2400 HR): 1353 END (2400 HR) 1403
DATE SAMPLED: 5-17-94 TIME (2400 HR): 1407 DTW: 8.4

TIME (2400 HR)	VOLUME (GAL)	pH (UNITS)	(E.C. X 1,000) (UMHOS/CM@25 C)	TEMP. (F)	COLOR (VISUAL)
1356	3	7.84	0.91	71.7	CLEAR
1358	7	7.34	1.84	70.9	CLEAR
1401	10	6.89	2.06	70.5	CLEAR
1403	13	6.93	2.03	70.2	CLEAR

Total purge: 13

PURGING EQUIP.: Centrifugal Pump Bailer Disp. SAMPLING EQUIP: Bailer Disp.

REMARKS:

WELL ID: MW-1 TD 17.84 DTW 9.82 X 0.66 (Gal. / Linear Ft.) X 3 (Casing Volume) = 15.87 (Calculated Purge)

DATE PURGED: 5-17-94 START (2400 HR): 1414 END (2400 HR) 1437
DATE SAMPLED: 5-17-94 TIME (2400 HR): 1440 DTW: 13.5

TIME (2400 HR)	VOLUME (GAL)	pH (UNITS)	(E.C. X 1,000) (UMHOS/CM@25 C)	TEMP. (F)	COLOR (VISUAL)
1416	4	7.01	1.68	73.5	CLEAR
1420	8	6.79	1.75	72.9	CLEAR
1427	12	7.29	1.77	72.4	CLEAR
1437	16	7.33	1.68	71.0	CLEAR

Total purge: 16

PURGING EQUIP.: Centrifugal Pump Bailer Disp. SAMPLING EQUIP: Bailer Disp.

REMARKS: WELL PUMPED DRY AT [redacted], [redacted], [redacted], 12, 13, 14, 15, AND 16 GALLONS
Well has a slow recharge rate.

WELL ID: MW-3 TD 15.02 DTW 9.11 X 0.66 (Gal. / Linear Ft.) X 3 (Casing Volume) = 11.70 (Calculated Purge)

DATE PURGED: 5-17-94 START (2400 HR): 1446 END (2400 HR) 1452
DATE SAMPLED: 5-17-94 TIME (2400 HR): 1455 DTW: 13.4

TIME (2400 HR)	VOLUME (GAL)	pH (UNITS)	(E.C. X 1,000) (UMHOS/CM@25 C)	TEMP. (F)	COLOR (VISUAL)
1447	3	7.48	1.55	74.3	CLEAR
1450	6	7.06	1.63	74.1	CLEAR
1452	7	7.10	1.65		

Total purge: 7

PURGING EQUIP.: Centrifugal Pump Bailer Disp. SAMPLING EQUIP: Bailer Disp.

REMARKS: WELL PUMPED DRY AT 5 TO 7 GALLONS

WELL ID: ____ TD ____ DTW ____ X Gal. (Linear Ft.) ____ X Casing (Volume) ____ = Calculated (Purge) ____

DATE PURGED: ____ START (2400 HR): ____ END (2400 HR) ____
DATE SAMPLED: ____ TIME (2400 HR): ____ DTW: ____

TIME (2400 HR)	VOLUME (GAL)	pH (UNITS)	(E.C. X 1,000) (UMHOS/CM@25 C)	TEMP. (F)	COLOR (VISUAL)

Total purge: ____

PURGING EQUIP.: Centrifugal Pump Bailer Disp. SAMPLING EQUIP: Bailer Disp.

REMARKS:

PRINT NAME: FRANCISCO ALONGAN SIGNATURE: Francisco Alongan

CASING DIAMETER (inches):	2	3	4	6	8	12	Other:
GALLON/LINEAR FOOT:	0.17	0.38	0.66	1.5	2.6	5.8	Other: