

ALCO  
HAZMAT

**RESNA**  
Working to Restore Nature

94 MAY 31 PM 2:42

42501 Albrae Street, Suite 100  
Fremont, California 94538  
Phone: (510) 440-3300  
FAX: (510) 651-2233

## TRANSMITTAL

TO: Mr. Scott Seery  
Alameda County Health  
Care Services Agency  
80 Swan Way, Room 200  
Oakland, California 94612

DATE: May 25, 1994  
PROJECT NUMBER: 69034.15  
SUBJECT: ARCO Station 601

FROM: John C. Young

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1	05/17/94	Letter to Mr. John Sullivan including Laboratory Analytical Results of First Quarter 1994 Groundwater Samples at Chateau Manor Apartments, 724 Lewelling Boulevard, San Leandro, California.

THESE ARE TRANSMITTED as checked below:

<input type="checkbox"/> For review and comment	<input type="checkbox"/> Approved as submitted	<input type="checkbox"/> Resubmit ___ copies for approval
<input checked="" type="checkbox"/> As requested	<input type="checkbox"/> Approved as noted	<input type="checkbox"/> Submit ___ copies for distribution
<input type="checkbox"/> For approval	<input type="checkbox"/> Return for corrections	<input type="checkbox"/> Return ___ corrected prints
<input checked="" type="checkbox"/> For your files	<input checked="" type="checkbox"/> Regular Mail	<input type="checkbox"/> Certified Mail

### REMARKS:

Copies: 1 to RESNA project file no. 69034.15

  
John C. Young, Project Manager

cc: Mr. Michael Whelan, ARCO  
Mr. John Meck, ARCO  
Mr. Gary Grimm, RWQCB  
Mr. John Jang, RWQCB  
Mr. John Sullivan

ALCO  
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3315 Almaden Expressway, Suite 34  
San Jose, CA 95118  
Phone: (408) 264-7723  
FAX: (408) 264-2435

**May 17, 1994**

Mr. John Sullivan  
17760 Sweetbriar Place  
Castro Valley, California 94546


Subject: Laboratory Analytical Results of First Quarter 1994 Groundwater Samples  
Chateau Manor Apartments  
724 Lewelling Boulevard, San Leandro, California.

Mr. Sullivan:

Enclosed please find copies of laboratory analytical results for groundwater samples collected from wells MW-9 and MW-10, located at Chateau Manor Apartments, 724 Lewelling Boulevard, San Leandro, California. The groundwater samples were collected during quarterly sampling of ARCO Station 601, located at 712 Lewelling Boulevard in San Leandro, California, on February 14, 1994. The laboratory analytical results indicate that concentrations of total petroleum hydrocarbons as gasoline, and the gasoline constituents benzene, toluene, ethylbenzene, and total xylenes were not detected.

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

Sincerely,  
RESNA Industries Inc.

  
Mary E. Rysdale  
Geologic Technician

Enclosures: Plate 1, Generalized Site Plan  
Copy of Laboratory Analytical Results of Groundwater Samples  
for wells MW-9 and MW-10

cc: Mike Whelan, ARCO Products Company  
John Meck, ARCO Products Company  
Gary Grimm, RWQCB  
John Jang, RWQCB  
Scott Seery, ACHCSA

LEWELLING BOULEVARD

ARCO STATION 601

APPROXIMATE PROPERTY LINE

WALL

EXISTING BUILDING

DRIVEWAY

EXISTING BUILDING

B-33/  
MW-10

B-34/  
MW-9

EXPLANATION

B-33/  
MW-10  = Groundwater monitoring well

Approximate Scale



Source: Surveyed by Ron Archer, Civil Engineer Inc  
modified by John Koch Land Surveyor.

**RESNA**  
Working to Restore Nature

PROJECT 69034.15

6903415G

GENERALIZED SITE PLAN  
ARCO Station 601  
712 Lewelling Boulevard  
San Leandro, California

PLATE

1

**Columbia  
Analytical  
Services<sup>INC.</sup>**

February 28, 1994

Service Request No. SJ94-0220

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

Re: **ARCO Facility No. A601**

Dear Ms. Austin/Mr. DeLon:

Attached are the results of the water samples submitted to our lab on February 18, 1994. For your reference, these analyses have been assigned our service request number SJ94-0220.


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/kmh

## **COLUMBIA ANALYTICAL SERVICES, Inc.**

### **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

# COLUMBIA ANALYTICAL SERVICES, INC.

## Analytical Report

Client: IWM  
Project: ARCO Facility No. A601  
Sample Matrix: Water

Dates Collected: 02/14/94  
Date Received: 02/18/94  
Date Extracted: N/A  
Date Analyzed: 2/23/94 (a)  
Service Request: SJ94-0220

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

Analyte:	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH as Gasoline
Units:	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)
Method Reporting Limit:	0.5	0.5	0.5	0.5	50

### Sample Name

MW-9 (9.0)	ND	ND	ND	ND	ND
MW-10 (7.0)	ND	ND	ND	ND	ND
Method Blank	ND	ND	ND	ND	ND

(a) These samples were part of the analytical batch started on February 23, 1994. However, they were analyzed after midnight so the actual date analyzed is February 24, 1994.

Approved By:

*Keenan M. [Signature]*

Date:

*February 28, 1994*

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: IWM  
Project: ARCO Facility No. A601  
Sample Matrix: Water

Dates Collected: 02/14/94  
Date Received: 02/18/94  
Date Extracted: N/A  
Date Analyzed: 02/23/94  
Service Request: SJ94-0220

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

Sample Name

Percent Recovery  
a.a.a-Trifluorotoluene

MW-9 (9.0)	85.
MW-10 (7.0)	85.
MS	78.
DMS	83.
Method Blank	81.

CAS Acceptance Limits: 62-112

Approved By: \_\_\_\_\_

*Kenneth Murphy*

Date: \_\_\_\_\_

*February 28*

## COLUMBIA ANALYTICAL SERVICES, INC.

## QA/QC Report

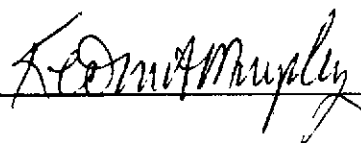
Client: IWM  
Project: ARCO Facility No. A601  
Sample Matrix: Water

Dates Collected: 02/14/94  
Date Received: 02/18/94  
Date Extracted: N/A  
Date Analyzed: 02/23/94  
Service Request: SJ94-0220

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

<u>Analyte</u>	<u>True Value</u>	<u>Result</u>	<u>Percent Recovery</u>	<u>CAS Acceptance Criteria</u>
Benzene	25.	28.2	113.	85-115
Toluene	25.	27.9	112.	85-115
Ethylbenzene	25.	27.8	111.	85-115
Total Xylenes	75.	85.0	113.	85-115
TPH as Gasoline	250.	260.	104.	90-110

Approved By:



Date:

February 23, 1994



## COLUMBIA ANALYTICAL SERVICES, INC.

## QA/QC Report

Client: IWM  
Project: ARCO Facility No. A601  
Sample Matrix: Water

Dates Collected: 02/14/94  
Date Received: 02/18/94  
Date Extracted: N/A  
Date Analyzed: 02/23/94  
Service Request: SJ94-0220

## Matrix Spike/Duplicate Matrix Spike Summary

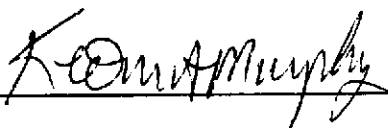
BTE

EPA Methods 5030/8020

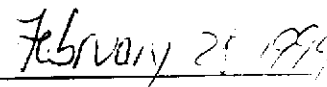
Units: µg/L (ppb)

<u>Analyte</u>	<u>Spike Level</u>	<u>Sample Result</u>	<u>Spike Result</u>		<u>Percent Recovery</u>		<u>Acceptance Criteria</u>
			<u>MS</u>	<u>DMS</u>	<u>MS</u>	<u>DMS</u>	
Benzene	25.	ND	28.8	25.6	115.	102.	75-135
Toluene	25.	ND	28.6	25.4	114.	102.	73-136
Ethylbenzene	25.	ND	28.5	24.9	114.	100.	69-142

Approved By: \_\_\_\_\_



Date: \_\_\_\_\_



Division of Atlantic Richfield Company

## Chain of Custody

1987, 1990, 1991)