



June 27, 1997  
Project 20805-127.005

Reverend Sura D. Phoenix  
First Christian Church  
1190 Davis Street  
San Leandro, California 94577

Re: First quarter 1997 laboratory analytical results, groundwater samples,  
First Christian Church, 1190 Davis Street, San Leandro, California

Dear Reverend Phoenix:

Enclosed please find copies of the laboratory analytical results for the groundwater sample collected from well MW-5 during the first quarter of 1997. This well is located at the First Christian Church, 1190 Davis Street, San Leandro, California. The groundwater samples were collected on March 24, 1997, during quarterly sampling of the ARCO Products Company service station 2111, 1156 Davis Street, San Leandro. The laboratory analytical results indicate that the groundwater sample concentrations were not detectable for total petroleum hydrocarbons as gasoline, and the gasoline constituents benzene, toluene, ethylbenzene, and total xylenes.

Please call if you have questions.

Sincerely,

EMCON

Valli Voruganti  
Project Manager

Attachments: Figure 1 - Generalized Site Plan  
Attachment A - Copy of Analytical Results and Chain-of-Custody  
Documentation, Well MW-5, First Quarter 1997

cc: Kevin Tinsley, ACHCSA  
Kevin Graves, RWQCB - SFBR  
Paul Supple, ARCO Products Company  
File



**ATTACHMENT A**

**COPY OF ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY  
DOCUMENTATION, WELL MW-5, FIRST QUARTER 1997**



April 7, 1997

Service Request No.: S9700525

Mr. John Young  
EMCON  
1921 Ringwood Avenue  
San Jose, CA 95131

**RE: 2111 SAN LEANDRO/20805-127.003/TO#19350.00**

Dear Mr. Young:

The following pages contain analytical results for sample(s) received by the laboratory on March 24, 1997. Results of sample analyses are followed by Appendix A which contains sample custody documentation and quality assurance deliverables requested for this project. The work requested has been assigned the Service Request No. listed above. To help expedite our service, please refer to this number when contacting the laboratory.

Analytical results were produced by procedures consistent with Columbia Analytical Services' (CAS) Quality Assurance Manual (with any deviations noted). Signature of this CAS Analytical Report below confirms that pages 2 through 7, following, have been thoroughly reviewed and approved for release in accord with CAS Standard Operating Procedure ADM-DatRev3.

Please feel welcome to contact me should you have questions or further needs.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven L. Green".

Steven L. Green  
Project Chemist

A handwritten signature in black ink, appearing to read "Greg Anderson".

Greg Anderson  
Regional QA Coordinator

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** ARCO Products Company  
**Project:** 2111 SAN LEANDRO/20805-127.003/TO#19350.00  
**Sample Matrix:** Water

**Service Request:** S9700525  
**Date Collected:** 3/24/97  
**Date Received:** 3/24/97  
**Date Extracted:** NA

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

Sample Name:	<b>MW-5 (14)</b>	<b>Method Blank</b>	<b>Method Blank</b>
Lab Code:	S9700525-001	S9700402-WB1	S9700401-WB1
Date Analyzed:	4/2/97	4/2/97	4/1/97

Analyte	MRL			
TPH as Gasoline	50	ND	ND	ND
Benzene	0.5	ND	ND	ND
Toluene	0.5	ND	ND	ND
Ethylbenzenc	0.5	ND	ND	ND
Total Xylenes	0.5	ND	ND	ND
Methyl <i>tert</i> -Butyl Ether	3	460	ND	ND



CEDAR GROVE APARTMENTS

DRIVEWAY

ARCO SERVICE STATION

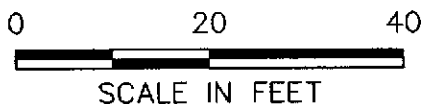
ND  
ND

MW-5

FIRST CHRISTIAN CHURCH/  
COMMUNITY CENTER

SIDEWALK

DAVIS STREET



SCALE IN FEET

EXPLANATION

- ⊙ Groundwater monitoring well
- ND / TPHG concentration in groundwater (ppb)
- ND / Benzene concentration in groundwater (ppb)
- ND Not detected



DATE JUNE 1997  
 DWN KMM  
 APP \_\_\_\_\_  
 REV 0  
 PROJECT NO.  
 20805-127.005

**FIGURE 1**  
 FIRST CHRISTIAN CHURCH  
 1190 DAVIS STREET  
 SAN LEANDRO, CALIFORNIA  
**QUARTERLY GROUNDWATER MONITORING  
 GENERALIZED SITE PLAN**

EA-SANJOSE-CAD/DRAWINGS: G:\805-127\SJFIG1.dwg Xrefs: <NONE>  
 Scale: 1 = 20.00 DimScale: 1 = 20.00 Date: 6/5/97 Time: 12:44 PM Operator: KMM

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** ARCO Products Company  
**Project:** 2111 SAN LEANDRO/20805-127.003/TO#19350.00  
**Sample Matrix:** Water

**Service Request:** S9700525  
**Date Collected:** 3/24/97  
**Date Received:** 3/24/97  
**Date Extracted:** NA  
**Date Analyzed:** NA

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

Sample Name	Lab Code	PID Detector	FID Detector
		Percent Recovery 4-Bromofluorobenzene	Percent Recovery $\alpha,\alpha,\alpha$ -Trifluorotoluene
MW-5 (14)	S9700525-001	98	94
Method Blank	S9700402-WB1	97	92
Method Blank	S9700401-WB1	96	91
Batch QC	S9700526-001MS	103	95
Batch QC	S9700526-001DMS	102	96

CAS Acceptance Limits: 69-116 69-116

**COLUMBIA ANALYTICAL SERVICES, INC.**

**QA/QC Report**

<b>Client:</b>	ARCO Products Company	<b>Service Request:</b>	S9700525
<b>Project:</b>	2111 SAN LEANDRO/20805-127.003/TO#19350.00	<b>Date Collected:</b>	3/24/97
<b>Sample Matrix:</b>	Water	<b>Date Received:</b>	3/24/97
		<b>Date Extracted:</b>	NA
		<b>Date Analyzed:</b>	4/2/97

**Matrix Spike/Duplicate Matrix Spike Summary**

BTE

EPA Methods 5030/8020

Units: ug/L (ppb)

Sample Name: Batch QC  
 Lab Code: S9700526-001MS, DMS

Analyte	Spike Level		Sample Result	Spike Result		Percent Recovery				Relative Percent Difference
	MS	DMS		MS	DMS	CAS		Acceptance Limits		
						MS	DMS			
Benzene	25	25	ND	26	26	104	104	75-135	<1	
Toluene	25	25	ND	26	26	104	104	73-136	<1	
Ethylbenzene	25	25	ND	26	26	104	104	69-142	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** ARCO Products Company  
**Project:** 2111 SAN LEANDRO/20805-127.003/TO#19350.00

**Service Request:** S9700525  
**Date Analyzed:** 4/2/97

Initial Calibration Verification (ICV) Summary  
BTEX, MTBE 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	26	104	85-115
Toluene	25	27	108	85-115
Ethylbenzene	25	28	112	85-115
Xylenes, Total	75	81	108	85-115
Gasoline	250	230	92	90-110
Methyl <i>tert</i> -Butyl Ether	25	24	96	85-115



Lab # 59700525

Task Order No. 19350.00

Chain of Custody

ARCO Facility no. 2111 City (Facility) San Leandro Project manager (Consultant) John Young Laboratory name CAS  
 ARCO engineer Paul Supple Telephone no. (ARCO) — Telephone no. (Consultant) (408) 453-7300 Fax no. (Consultant) — Contract number —  
 Consultant name EMCON/OUT Address (Consultant) 1921 RINGWOOD AVE

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX EPA 802/EPA 8020	INCL BTEX/TPH EPA 8020/8020/8015	TPH Modified 8015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	Semi Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	CAM Metals EPA 8010/7000 TTLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead Org./DHS <input type="checkbox"/> Lead EPA 7420/7421 <input type="checkbox"/>	Method of shipment
			Soil	Water	Other	Ice	Acid															
<u>MW-5(14)</u>	<u>1</u>	<u>2</u>		<u>X</u>		<u>X</u>	<u>X</u>	<u>3-24-97</u>	<u>1140</u>		<u>X</u>											<u>Will Be Delivered</u>
																						Special detection Limit/reporting <u>Lowest Possible</u>
																						Special QA/QC <u>AS Normal</u>
																						Remarks <u>2 - 40ml (vials) HLL</u>
																						<u>20805-127,003</u>
																						Lab number <u>525 95</u> <u>59700525</u> <u>3/24/97</u>
																						Turnaround time <u>2</u>
																						Priority Rush 1 Business Day <input type="checkbox"/>
																						Rush 2 Business Days <input type="checkbox"/>
																						Expedited 5 Business Days <input type="checkbox"/>
																						Standard 10 Business Days <input checked="" type="checkbox"/>

Condition of sample: ok Temperature received: Cool

Relinquished by sampler <u>[Signature]</u>	Date <u>3-24-97</u>	Time <u>1445</u>	Received by
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by laboratory
			Date <u>3/24/97</u>
			Time <u>1445</u>