



3164 Gold Camp Drive  
Suite 200  
Rancho Cordova, CA 95670-6021  
U.S.A.  
916/638-2085  
FAX: 916/638-8385

June 20, 2002

JUN 24 2002

STP  
744 ✓

Meeks  
8/14/02

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

Subject: *Quarterly Groundwater Monitoring Report, First Quarter 2002*  
First Christian Church  
1190 Davis Street  
San Leandro, California  
Delta Project No. D000-306

Dear Reverend Phoenix:

Delta Environmental Consultants, Inc. is submitting the attached copy of the laboratory analytical results (Enclosure A) for the groundwater sample collected from monitoring well MW-5 during the first quarter 2002. This well is located at the First Christian Church, 1190 Davis Street, San Leandro, California. The groundwater sample was collected during quarterly sampling of the ARCO Service Station No. 2111, located at 1156 Davis Street, San Leandro, California.

If you have any questions regarding this letter, please call Steven Meeks at (916) 536-2613.

Sincerely,

**DELTA ENVIRONMENTAL CONSULTANTS, INC.**

Steven W. Meeks, P.E.  
Project Manager

SWM (CL013.306.doc)  
Enclosure

Cc: Amir Gholami – ACHCSA  
Paul Supple – Atlantic Richfield Company

JUN 24 2002

**ENCLOSURE A**

Copy of Certified Analytical Results  
for  
Monitoring Well MW-5  
And  
Chain of Custody



Sequoia  
Analytical

819 Striker Avenue, Suite 8  
Sacramento, CA 95834  
(916) 921-9600  
FAX (916) 921-0100  
www.sequoialabs.com

20 June, 2002

Steven Meeks  
Delta Environmental Consultants (Rancho Cordova)  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova, CA 95670

*JUN 24 2002*

RE: ARCO 2111, San Leandro, CA  
Sequoia Report: S203292

Enclosed are the results of analyses for samples received by the laboratory on 03/19/02 14:06. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lito Diaz  
Laboratory Director

CA ELAP Certificate #1624



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Delta Environmental Consultants (Rancho Cordova)  
3164 Gold Camp Drive Ste. 200  
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Project: ARCO 2111, San Leandro, CA  
Project Number: 2111, San Leandro, CA  
Project Manager: Steven Meeks

Reported:  
06/20/02 08:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5	S203292-05	Water	03/14/02 14:10	03/19/02 14:06

JUN 24 2002

Sequoia Analytical - Sacramento

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Ron Chew, Client Services Representative

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Reported:  
06/20/02 08:40

**Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT**  
**Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-5 (S203292-05) Water</b> <b>Sampled: 03/14/02 14:10</b> <b>Received: 03/19/02 14:06</b>									
Purgeable Hydrocarbons	ND	5000	ug/l	100	2030356	03/26/02	03/26/02	DHS LUFT	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	50	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>7100</b>	250	"	"	"	"	"	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>		97 %		60-140	"	"	"	"	

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Reported:  
06/20/02 08:40

**MTBE Confirmation by EPA Method 8260B**  
**Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-5 (S203292-05) Water</b> <b>Sampled: 03/14/02 14:10</b> <b>Received: 03/19/02 14:06</b>									
<b>Methyl tert-butyl ether</b>	<b>7700</b>	50	ug/l	100	2030328	03/26/02	03/26/02	EPA 8260B	
Surrogate: 1,2-DCA-d4		125 %	60-140		"	"	"	"	

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Reported:  
 06/20/02 08:40

**Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT - Quality Control**  
**Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2030356 - EPA 5030B (P/T)**

**Blank (2030356-BLK1)**

Prepared & Analyzed: 03/26/02

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.65		"	10.0		96	60-140			

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**LCS (2030356-BS1)**

Prepared & Analyzed: 03/26/02

Benzene	8.46	0.50	ug/l	10.0		85	70-130			
Toluene	9.16	0.50	"	10.0		92	70-130			
Ethylbenzene	9.52	0.50	"	10.0		95	70-130			
Xylenes (total)	29.6	0.50	"	30.0		99	70-130			
Methyl tert-butyl ether	9.63	2.5	"	10.0		96	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.4		"	10.0		104	60-140			

**Matrix Spike (2030356-MS1)**

Source: S203398-09

Prepared & Analyzed: 03/26/02

Benzene	8.25	0.50	ug/l	10.0	ND	82	60-140			
Toluene	8.82	0.50	"	10.0	ND	86	60-140			
Ethylbenzene	9.22	0.50	"	10.0	ND	92	60-140			
Xylenes (total)	28.7	0.50	"	30.0	ND	96	60-140			
Methyl tert-butyl ether	31.3	2.5	"	10.0	22	93	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.85		"	10.0		98	60-140			

**Matrix Spike Dup (2030356-MSD1)**

Source: S203398-09

Prepared & Analyzed: 03/26/02

Benzene	9.11	0.50	ug/l	10.0	ND	91	60-140	10	25	
Toluene	9.68	0.50	"	10.0	ND	95	60-140	9	25	
Ethylbenzene	10.1	0.50	"	10.0	ND	101	60-140	9	25	
Xylenes (total)	31.1	0.50	"	30.0	ND	104	60-140	8	25	
Methyl tert-butyl ether	32.1	2.5	"	10.0	22	101	60-140	3	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.1		"	10.0		101	60-140			



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Reported:  
 06/20/02 08:40

**MTBE Confirmation by EPA Method 8260B - Quality Control**  
**Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2030328 - EPA 5030B [P/T]</b>										
<b>Blank (2030328-BLK1)</b> Prepared & Analyzed: 03/26/02										
Methyl tert-butyl ether	ND	0.50	ug/l							
Surrogate: 1,2-DCA-d4	31.0		"	25.0		124	60-140			
<b>LCS (2030328-BS1)</b> Prepared & Analyzed: 03/26/02										
Methyl tert-butyl ether	31.8	0.50	ug/l	25.0		127	70-130			
Surrogate: 1,2-DCA-d4	28.8		"	25.0		115	60-140			
<b>Matrix Spike (2030328-MS1)</b> Source: S203379-01 Prepared & Analyzed: 03/26/02										
Methyl tert-butyl ether	30.5	0.50	ug/l	25.0	ND	122	60-140			
Surrogate: 1,2-DCA-d4	28.6		"	25.0		114	60-140			
<b>Matrix Spike Dup (2030328-MSD1)</b> Source: S203379-01 Prepared & Analyzed: 03/26/02										
Methyl tert-butyl ether	32.9	0.50	ug/l	25.0	ND	132	60-140	8	25	
Surrogate: 1,2-DCA-d4	29.8		"	25.0		119	60-140			

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**Reported:**  
06/20/02 08:40

#### Notes and Definitions

- QM-4X The spike recovery was outside of control limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

JUN 24 2002

Work Authorization No. **2599300**

## Chain of Custody

ARCO Facility No. <b>2111</b>			City (Facility) <b>SAN LEANDRO - CA</b>			Project Manager (Consultant) <b>STEVEN OMERKS</b>			Laboratory name																																											
ARCO engineer <b>PAUL SUPPLE</b>			Telephone no. (ARCO)			Telephone no. (Consultant) <b>638 2085</b>			Fax no. (Consultant) <b>638 8385</b>																																											
Company name (Consultant) <b>DELTA</b>					Address (Consultant) <b>Rancho Cordova</b>					Contract number																																										
Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BITX 602/EPA 8021	STEX/TPH MTBE EPA 1631/8021/8015	TPH Modified 8016 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418, MS/MOBE	BITX + MTBE EPA 8260	BITX + Standard Organics EPA 8260	VCLP Metals: VOAC VOAC CAN Metals: EPA 8210/8200 TTLCO STI CO	Land Oils Leak EPA 7420/7421 <input type="checkbox"/>			Method of shipment																															
			Soil	Water	Other	Ice	Acid																																													
MW-1		4	X			X	X	3-14-02	15:15		X																																									
MW-2									15:50																																											
MW-3									15:05																																											
MW-4									14:20																																											
MW-5									14:10																																											
MW-6									14:00																																											
MW-7									15:30																																											
TA		2							600																																											
																				Special QA/QC																																
																				Remarks <b>Carbure MTBE by 8260</b>																																
																				Type of Work <input type="checkbox"/> Dispenser Work <input type="checkbox"/> Line Job <input type="checkbox"/> Routine Sampling <input type="checkbox"/> Site Acquisitions <input type="checkbox"/> Site Assessment <input type="checkbox"/> UST Removal <input type="checkbox"/> UST Replacement <input type="checkbox"/> Other																																
																				Lab number																																
																				Turnaround time Priority Rush <input type="checkbox"/> 1 Business Day Rush <input type="checkbox"/> 2 Business Days Expedited <input type="checkbox"/> 5 Business Days Standard <input type="checkbox"/> 10 Business Days																																
Condition of sample:										Temperature received: <b>78</b>																																										
Relinquished by sampler					Date <b>3-19-02</b> Time <b>1406</b>					Received by <b>Monica Gregen</b>					Date <b>3/19/02</b> Time <b>1406</b>																																					
Relinquished by					Date					Received by					Date																																					
Relinquished by					Date					Received by laboratory					Date																																					

2002-08 MAR