



**Sequoia  
Analytical**

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1 March, 2002

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

RE: Arco 5387, Hayward, CA  
Sequoia Report: S202097

Enclosed are the results of analyses for samples received by the laboratory on 02/07/02 15:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew  
Client Services Representative

Lito Diaz  
Laboratory Director

CA ELAP Certificate #1624



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

Project: Arco 5387, Hayward, CA  
Project Number: 5387, Hayward, CA  
Project Manager: Steven Meeks

**Reported:**  
03/01/02 17:48

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
UST-8-15.0	S202097-01	Soil	02/07/02 10:30	02/07/02 15:10
UST-7-15.0	S202097-02	Soil	02/07/02 10:35	02/07/02 15:10
UST-5-15.0	S202097-03	Soil	02/07/02 11:16	02/07/02 15:10
UST-6-15.0	S202097-04	Soil	02/07/02 11:19	02/07/02 15:10

Sequoia Analytical - Sacramento

Ron Chew, Client Services Representative

*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.*



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Reported:  
 03/01/02 17:48

**Total Purgeable Hydrocarbons and BTEX by DHS LUFT**  
**Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>UST-8-15.0 (S202097-01) Soil Sampled: 02/07/02 10:30 Received: 02/07/02 15:10</b>									
<b>Purgeable Hydrocarbons</b>	<b>43</b>	<b>5.0</b>	<b>mg/kg</b>	<b>1</b>	<b>2020080</b>	<b>02/07/02</b>	<b>02/07/02</b>	<b>DHS LUFT</b>	<b>HC-12</b>
Benzene	ND	0.050	"	"	"	"	"	"	"
Toluene	0.081	0.050	"	"	"	"	"	"	"
Ethylbenzene	0.086	0.050	"	"	"	"	"	"	"
Xylenes (total)	0.28	0.050	"	"	"	"	"	"	"
Surrogate: <i>a,a,a-Trifluorotoluene</i>		100 %	60-140		"	"	"	"	"
<b>UST-7-15.0 (S202097-02) Soil Sampled: 02/07/02 10:35 Received: 02/07/02 15:10</b>									
<b>Purgeable Hydrocarbons</b>	<b>50</b>	<b>5.0</b>	<b>mg/kg</b>	<b>1</b>	<b>2020080</b>	<b>02/07/02</b>	<b>02/07/02</b>	<b>DHS LUFT</b>	<b>HC-12</b>
Benzene	ND	0.050	"	"	"	"	"	"	"
Toluene	0.065	0.050	"	"	"	"	"	"	"
Ethylbenzene	0.23	0.050	"	"	"	"	"	"	"
Xylenes (total)	0.12	0.050	"	"	"	"	"	"	"
Surrogate: <i>a,a,a-Trifluorotoluene</i>		90.9 %	60-140		"	"	"	"	"
<b>UST-5-15.0 (S202097-03) Soil Sampled: 02/07/02 11:16 Received: 02/07/02 15:10</b>									
<b>Purgeable Hydrocarbons</b>	<b>45</b>	<b>5.0</b>	<b>mg/kg</b>	<b>1</b>	<b>2020080</b>	<b>02/07/02</b>	<b>02/07/02</b>	<b>DHS LUFT</b>	<b>HC-12</b>
Benzene	ND	0.050	"	"	"	"	"	"	"
Toluene	0.080	0.050	"	"	"	"	"	"	"
Ethylbenzene	ND	0.050	"	"	"	"	"	"	"
Xylenes (total)	ND	0.050	"	"	"	"	"	"	"
Surrogate: <i>a,a,a-Trifluorotoluene</i>		84.0 %	60-140		"	"	"	"	"
<b>UST-6-15.0 (S202097-04) Soil Sampled: 02/07/02 11:19 Received: 02/07/02 15:10</b>									
<b>Purgeable Hydrocarbons</b>	<b>270</b>	<b>5.0</b>	<b>mg/kg</b>	<b>1</b>	<b>2020080</b>	<b>02/07/02</b>	<b>02/07/02</b>	<b>DHS LUFT</b>	<b>HC-12</b>
Benzene	ND	0.050	"	"	"	"	"	"	"
Toluene	0.87	0.050	"	"	"	"	"	"	"
Ethylbenzene	0.80	0.050	"	"	"	"	"	"	"
Xylenes (total)	0.70	0.050	"	"	"	"	"	"	"
Surrogate: <i>a,a,a-Trifluorotoluene</i>		83.4 %	60-140		"	"	"	"	"



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Project Manager: Steven Meeks

**Reported:**  
03/01/02 17:48

**Total Metals by EPA 6000/7000 Series Methods  
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>UST-8-15.0 (S202097-01) Soil Sampled: 02/07/02 10:30 Received: 02/07/02 15:10</b>									
Lead	ND	10	mg/kg	4	2020093	02/08/02	02/11/02	EPA 6010B	
<b>UST-7-15.0 (S202097-02) Soil Sampled: 02/07/02 10:35 Received: 02/07/02 15:10</b>									
Lead	ND	10	mg/kg	4	2020093	02/08/02	02/11/02	EPA 6010B	
<b>UST-5-15.0 (S202097-03) Soil Sampled: 02/07/02 11:16 Received: 02/07/02 15:10</b>									
Lead	ND	10	mg/kg	4	2020093	02/08/02	02/11/02	EPA 6010B	
<b>UST-6-15.0 (S202097-04) Soil Sampled: 02/07/02 11:19 Received: 02/07/02 15:10</b>									
Lead	ND	10	mg/kg	4	2020093	02/08/02	02/11/02	EPA 6010B	



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**Volatile Organic Compounds by EPA Method 8260B**  
**Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>UST-8-15.0 (S202097-01) Soil</b>									<b>R-05</b>
Sampled: 02/07/02 10:30 Received: 02/07/02 15:10									
Tert-butyl alcohol	ND	1.0	mg/kg	1	2020085	02/07/02	02/08/02	EPA 8260B	
Methyl tert-butyl ether	1.3	0.10	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.10	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.10	"	"	"	"	"	"	
Ethanol	ND	10	"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>		92.4 %	60-140		"	"	"	"	
<b>UST-7-15.0 (S202097-02) Soil</b>									<b>R-05</b>
Sampled: 02/07/02 10:35 Received: 02/07/02 15:10									
Tert-butyl alcohol	ND	1.0	mg/kg	1	2020085	02/07/02	02/08/02	EPA 8260B	
Methyl tert-butyl ether	0.53	0.10	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.10	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.10	"	"	"	"	"	"	
Ethanol	ND	10	"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>		92.4 %	60-140		"	"	"	"	
<b>UST-5-15.0 (S202097-03) Soil</b>									<b>R-05</b>
Sampled: 02/07/02 11:16 Received: 02/07/02 15:10									
Tert-butyl alcohol	ND	1.0	mg/kg	1	2020085	02/07/02	02/08/02	EPA 8260B	
Methyl tert-butyl ether	0.47	0.10	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.10	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.10	"	"	"	"	"	"	
Ethanol	ND	10	"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>		99.2 %	60-140		"	"	"	"	



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**Volatile Organic Compounds by EPA Method 8260B**  
**Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>UST-6-15.0 (S202097-04) Soil</b> <b>Sampled: 02/07/02 11:19</b> <b>Received: 02/07/02 15:10</b>									
Tert-butyl alcohol	ND	1.0	mg/kg	1	2020085	02/07/02	02/08/02	EPA 8260B	R-05
Methyl tert-butyl ether	0.22	0.10	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.10	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.10	"	"	"	"	"	"	
Ethanol	ND	10	"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>		93.6 %		60-140	"	"	"	"	



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**Total Purgeable Hydrocarbons and BTEX by DHS LUFT - Quality Control  
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2020080 - EPA 5030B (MeOH)</b>										
<b>Blank (2020080-BLK1)</b> <span style="float:right">Prepared &amp; Analyzed: 02/07/02</span>										
Purgeable Hydrocarbons	ND	5.0	mg/kg							
Benzene	ND	0.050	"							
Toluene	ND	0.050	"							
Ethylbenzene	ND	0.050	"							
Xylenes (total)	ND	0.050	"							
Surrogate: a,a,a-Trifluorotoluene	0.956		"	1.00		95.6	60-140			
<b>LCS (2020080-BS1)</b> <span style="float:right">Prepared &amp; Analyzed: 02/07/02</span>										
Benzene	0.859	0.050	mg/kg	1.00		85.9	70-130			
Toluene	1.06	0.050	"	1.00		106	70-130			
Ethylbenzene	1.17	0.050	"	1.00		117	70-130			
Xylenes (total)	3.45	0.050	"	3.00		115	70-130			
Surrogate: a,a,a-Trifluorotoluene	0.996		"	1.00		99.6	60-140			
<b>LCS Dup (2020080-BSD1)</b> <span style="float:right">Prepared &amp; Analyzed: 02/07/02</span>										
Benzene	0.841	0.25	mg/kg	1.00		84.1	70-130	2.12	25	
Toluene	1.06	0.25	"	1.00		106	70-130	0.00	25	
Ethylbenzene	1.18	0.25	"	1.00		118	70-130	0.851	25	
Xylenes (total)	3.57	0.25	"	3.00		119	70-130	3.42	25	
Surrogate: a,a,a-Trifluorotoluene	1.05		"	1.00		105	60-140			



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**Total Metals by EPA 6000/7000 Series Methods - Quality Control  
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2020093 - EPA 3050B</b>									
<b>Blank (2020093-BLK1)</b>					Prepared: 02/08/02 Analyzed: 02/11/02				
Lead	ND	2.5	mg/kg						
<b>LCS (2020093-BS1)</b>					Prepared: 02/08/02 Analyzed: 02/11/02				
Lead	55.0	2.5	mg/kg	50.0		110 80-120			
<b>Matrix Spike (2020093-MS1)</b>					Source: S202097-04 Prepared: 02/08/02 Analyzed: 02/11/02				
Lead	57.0	10	mg/kg	50.0	ND	98.0 80-120			
<b>Matrix Spike Dup (2020093-MSD1)</b>					Source: S202097-04 Prepared: 02/08/02 Analyzed: 02/11/02				
Lead	58.7	10	mg/kg	50.0	ND	101 80-120	2.94	20	





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**Volatile Organic Compounds by EPA Method 8260B - Quality Control  
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2020085 - EPA 5030B [MeOH]</b>									
<b>Blank (2020085-BLK1)</b>					Prepared: 02/07/02 Analyzed: 02/08/02				
Tert-butyl alcohol	ND	1.0	mg/kg						
Methyl tert-butyl ether	ND	0.10	"						
Di-isopropyl ether	ND	0.10	"						
Ethyl tert-butyl ether	ND	0.10	"						
Tert-amyl methyl ether	ND	0.10	"						
Ethanol	ND	10	"						
<i>Surrogate: 1,2-DCA-d4</i>	2.63		"	2.50		105 60-140			
<b>LCS (2020085-BS1)</b>					Prepared: 02/07/02 Analyzed: 02/08/02				
Methyl tert-butyl ether	2.46	0.10	mg/kg	2.50		98.4 60-140			
<i>Surrogate: 1,2-DCA-d4</i>	2.79		"	2.50		112 60-140			
<b>LCS Dup (2020085-BSD1)</b>					Prepared: 02/07/02 Analyzed: 02/08/02				
Methyl tert-butyl ether	2.37	0.10	mg/kg	2.50		94.8 60-140	3.73	25	
<i>Surrogate: 1,2-DCA-d4</i>	2.74		"	2.50		110 60-140			



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#### Notes and Definitions

- HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting 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



**ENCLOSURE D**

Completion Letter for Soil Removed

DILLARD TRUCKING, INC. dba  
DILLARD ENVIRONMENTAL SERVICES  
P. O. Box 579  
Byron, CA 94514  
Phone (925) 634-6850 Fax (925) 634-0874

Via email: [bbardsley@deltaenv.com](mailto:bbardsley@deltaenv.com)

February 22, 2002

Attn: Mr. Scott Listar

**RE: ARCO #5387  
20200 Hesperian  
Hayward, CA**

Dear Mr. Bardsley:

On 2/11/02, 4,450 gallons of hazardous liquid was transported to Romic.

On 2/14/02 and 2/15/02, 185.54 tons of non-hazardous soil was transported to Forward Landfill, Manteca, California on 02/14/02 and 02/15/02.

Should you have any questions, please do not hesitate to call.

Sincerely,

Dillard Trucking, Inc. dba,  
**DILLARD ENVIRONMENTAL SERVICES**

Patty Dillard

Patty Dillard  
President