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ASSOCIATED TERRA CONSULTANTS, Inc.

ENVIRONMENTAL SERVICES ENGINEERING GEOLOGY HYDROGEOLOGY
PROTECTION

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**ENVIRONMENTAL MONITORING REPORT
DECEMBER 20, 1999**

**800 FRANKLIN STREET (STID #37)
OAKLAND, CALIFORNIA**

for

**Mr. Tommy Chiu
812 5th Avenue
Oakland, California**

December 20, 1999

ASSOCIATED TERRA CONSULTANTS, Inc.

ENVIRONMENTAL SERVICES ENGINEERING GEOLOGY HYDROGEOLOGY

December 20, 1999

File No: 124576

Mr. Tommy Chiu
812 5th Avenue
Oakland, California

Subject: **ENVIRONMENTAL MONITORING REPORT,
DECEMBER 20, 1999**
800 Franklin Street (STID #37)
Oakland, California

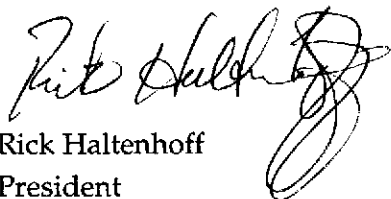
Dear Mr. Chiu:

We are pleased to present to you with this letter our report of sampling of all six monitoring wells at the site. The scope of work documented in this report is that required by the Alameda County Health Care Services Agency, Environmental Health Services in their letter dated October 18, 1999.

Please do not hesitate to call us if you have any questions. Thank you.

Respectfully submitted,

ASSOCIATED TERRA CONSULTANTS, Inc.


Rick Haltenhoff
President

Distribution: 3 copies - Addressee
1 copy - Mr. Larry Seto, Alameda County, Environmental Health
Services

TECHNICAL REPORT

DECEMBER 20, 1999

800 FRANKLIN STREET (STID #37)
OAKLAND, CALIFORNIA

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**ENVIRONMENTAL MONITORING REPORT:
DECEMBER 20, 1999**

**800 FRANKLIN STREET (STID #37)
OAKLAND, CALIFORNIA**

INTRODUCTION

Associated Terra Consultants, Inc. was retained by Mr. Tommy Chiu of Oakland, California to continue the environmental remedial investigation at and in the vicinity of 800 Franklin Street in Oakland, California. This report summarizes the work performed by Associated Terra Consultants, Inc. during 1996, 1997 and 1999, and presents the results of sampling and testing of groundwater from all the wells. This report is required pursuant to a letter to Mr. Tommy Chiu from the Alameda County Health Care Services Agency, Department of Environmental Health, SWRCB, Division of Clean Water Programs, UST Local Oversight Program, dated October 16, 1995, and as included in our approved work plan for this work, dated October 30, 1995. Additional sampling and monitoring was required by a letter from Ms. Jennifer Eberle dated March 4, 1997. The additional sampling and monitoring was required again by a letter from Mr. Larry Seto dated October 18, 1999.

SITE DESCRIPTION AND SITE HISTORY

Both the site description and site history have been included in several recent reports, the most recent of which was dated March 29, 1995, and is not repeated here.

SCOPE OF WORK: NOVEMBER 24 & DECEMBER 2, 1999

Activities performed by Associated Terra Consultants, Inc. for this report include the following:

- a) Measurement of the groundwater levels in all the wells and calculation of the ground water gradient;
- b) Sampling of all existing wells;

- c) Testing of the water samples for total petroleum hydrocarbons as gasoline (TPHg and TPHd) as diesel, with benzene, toluene, ethyl benzene, xylenes, 1,2-Dichloroethene, and MTBE distinction; and
- d) Preparation of this report of this monitoring event.

METHODS AND PROCEDURES

Site Health and Safety Plan

All personnel at the site were CFR 1910.120 Hazardous Waste Operations safety qualified. Level "D" Personal Protective Equipment was appropriate for this operation, and was worn by all present. Higher levels of Personal Protective Equipment were available on site for selected personnel. In accordance with the Site Health and Safety Plan, the Site Safety and Health Officer and Supervisor for this operation was Mr. Rick Haltenhoff of Associated Terra Consultants, Inc.

Monitoring Well Elevation and Location

All wells at the site were previously surveyed by Geotopo, of Oakland, California. The elevation is reported in Table 1, "Compilation of Groundwater Elevations in Groundwater Monitoring Wells", and the location is shown on the "Site Plan" map.

The water generated from the well development, sampling procedures and equipment cleaning was placed in 5-gallon buckets.

Groundwater Level Measurements

The Staff Geologist measured the groundwater surface levels in MW-1 through MW-3 and MW-5 and MW-6 groundwater monitoring wells on November 24, 1999. The plate cover on monitoring well MW-4 could not be removed with tools on site. The proper equipment was obtained and on December 2, 1999 all monitoring wells were re-measured for groundwater surface levels, as shown on Table 1. The well caps were unlocked and removed, and the wells allowed to equilibrate with atmospheric pressure for at least an hour prior to measurement. The depth to water in each well was measured with an electronic water level sounder to the nearest 0.01-foot relative to the surveyed top of well casing. Depth to water

data were subtracted from the surveyed wellhead elevations to calculate groundwater surface elevations relative to mean sea level. Table 1 is the "Compilation of Groundwater Elevations in Groundwater Monitoring Wells." Although gradients were different than previously noted, they are recorded as read.

Groundwater Sampling

Groundwater samples were taken from MW-1 through MW-3 and MW-5 through MW-6 groundwater monitoring wells on November 24, 1999 and MW-4 on December 2, 1999. All sampling procedures were performed in accordance with the "Standard Sampling Protocol" used in all previous samplings by KDM Environmental, Inc. (1992, 1993a, and 1993b), Frank Lee and Associates (1993), and Associated Terra Consultants, Inc. (1994a), and is not repeated here. Appendix D, "Standard Drilling, Sealing and Sampling Protocol", contains more specific information regarding the sampling.

Laboratory Sample Analyses

The soils and water samples were submitted on November 29, 1999 and December 3, 1999, respectively, to Chromalab of Pleasanton, California with positive chain of custody documentation. The laboratory was instructed to analyze each soils and water sample for petroleum hydrocarbons as gasoline (TPHg and TPHd) as diesel; for benzene, toluene, ethyl benzene, total xylenes ("BTEX"); waste oil; 1,2-Dichloroethane; and for methyl tertiary-butyl ether ("MTBE") by EPA Methods 5030/8015/602. The samples were analyzed within the holding time specified for these EPA methods. For the laboratory analyses of the samples, spike recoveries were considered acceptable. The laboratory testing reports, including the quality control results and the "Chain of Custody" documents, are included in Appendix A. Table 2 shows the analytical results of all the previous groundwater samplings known to us and the most recent sampling at the project site. Table 3 shows the analytical results of all known previous soils samplings at the project site.

INVESTIGATION RESULTS

Groundwater Elevations

The average of the elevations of the groundwater in all the wells in December were 0.17 feet lower than when last measured in May 1997. There have been significant changes in the water levels at the site with the seasons, and this level is within the range of levels previously measured at the site. The average depth below the ground surface is 11.8 feet; the average

depth below the ground surface has varied from about eight to 16 feet since 1991.

Groundwater Gradient

Based on topographical features and information generally available, the regional groundwater is believed to flow generally in a southwesterly direction toward San Francisco Bay, however, variations in the gradient direction can occur and have been reported in the vicinity of the project site. The calculated gradient based on the measurements on December 2, 1999 is shown on Plate 3.

Groundwater Sample Analyses

Monitoring wells MW-1 to MW-5 showed a decrease in analytes previously detected, MW-6 showed an increase in TPHg, Benzene, Toluene, Ethyl benzene and Xylenes as compared to testing performed in May of 1997. The previous testing of MW-6 indicated the presence of TPHg, Benzene, Toluene, Ethyl benzene, and Xylenes. Finally, levels of MTBE and Waste Oil were non-detectable in MW-1 through MW-6. The first round of testing for 1,2-Dichloroethane was non-detectable in MW-1, MW-2, MW-4, and MW-5; a reportable amount was detected in MW-3 and MW-6. Please see Table 2 and Appendix A for more detail.

RECOMMENDATIONS

1. We recommend, as a minimum, that the gradient direction and magnitude at the project site continue to be measured semi-annually, and that the groundwater in the monitoring wells be sampled and tested for TPHg, TPHd BTEX, MTBE and 1,2-Dichloroethane at least semi-annually, until the site meets state and county closure requirements. Future site activities should be based upon this information. All site activities must be done in accordance with County requirements and guidelines.

LIMITATIONS

1. This report has been prepared in accordance with generally accepted Engineering Geologic and Hydrogeologic practices. The conclusions and recommendations contained in this report have resulted from Engineering Geologic and Hydrogeologic analyses based upon

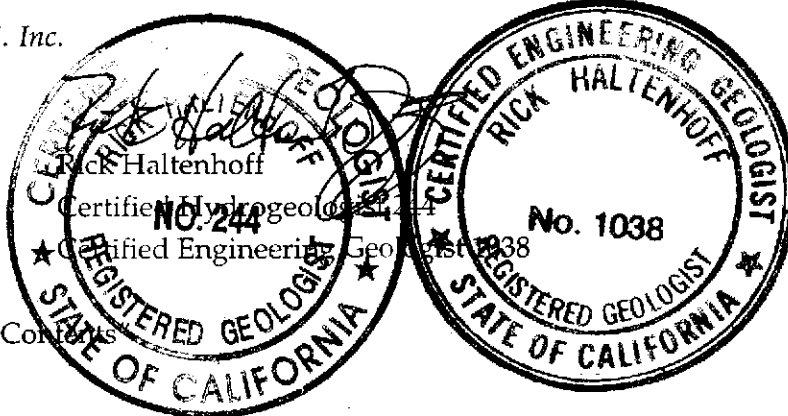
reasonable interpretations of the surface and subsurface soils, geologic, and hydrogeologic conditions based upon our points of inspection and as reported by others in their borings at the project site at locations chosen by them, and that the soils, geologic, and hydrogeologic conditions between points of inspection do not deviate from those reported. No warranty, expressed or implied, is made.

2. The migration of contaminants in vadose zone soils and shallow aquifers is somewhat irregular and poorly understood, and the state-of-the-art in environmental investigation does not provide the means to completely evaluate such conditions. However, every reasonable effort has been made within the scope of work agreed to between the Client and Consultant to characterize the extent of the contamination at the project site based upon location of the wells and the well head elevations reported by others, and the groundwater elevations in the monitoring wells and the chemical testing results from this quarterly monitoring program. It remains, however, that it cannot be stated with certainty that all locations and the full extent of contamination in the groundwater at the project site have been discovered and evaluated.

3. The findings of this report are valid as of the present time. However, the passing of time will change conditions on the existing property due to natural processes or the works of man. In addition, legislation or the broadening of knowledge may require other recommendations. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control.

Very truly yours,
ASSOCIATED TERRA CONSULTANTS, Inc.

Terri Gross
Terri Gross
Staff Engineering Geologist



Attachments as shown in the "Table of Contents"

REFERENCES

Associated Terra Consultants, Inc., 1997, Report of sampling and testing results, STID #37, 800 Franklin Street, Oakland, California: Los Gatos, California, an unpublished letter report for Mr. Tommy Chiu, Oakland, California (October 10, 1997).

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KDM Environmental, Inc., 1992, Quarterly monitoring of wells, third quarter 1992, 800 Franklin Street, Oakland, California: an unpublished report for Mr. Tommy Chiu of Continental Homes, Inc., Oakland, California.

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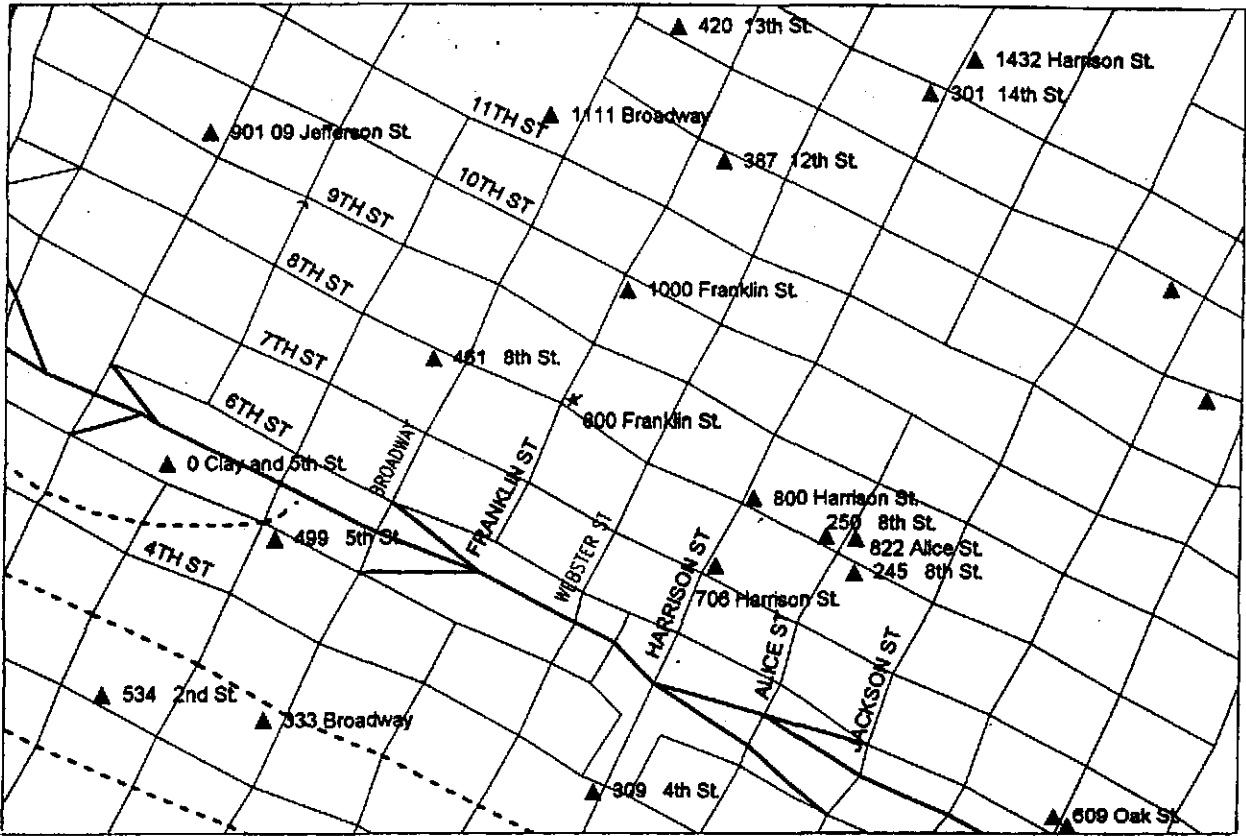
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PLATES AND TABLES
AND APPENDICES

DECEMBER 20, 1999

800 FRANKLIN STREET (STID #37)
OAKLAND, CALIFORNIA



Approximate scale: 1" = 700'



SITE VICINITY MAP

800 FRANKLIN STREET
OAKLAND, CALIFORNIA

BASE: Computer graphic provided by ACDEHHMD.

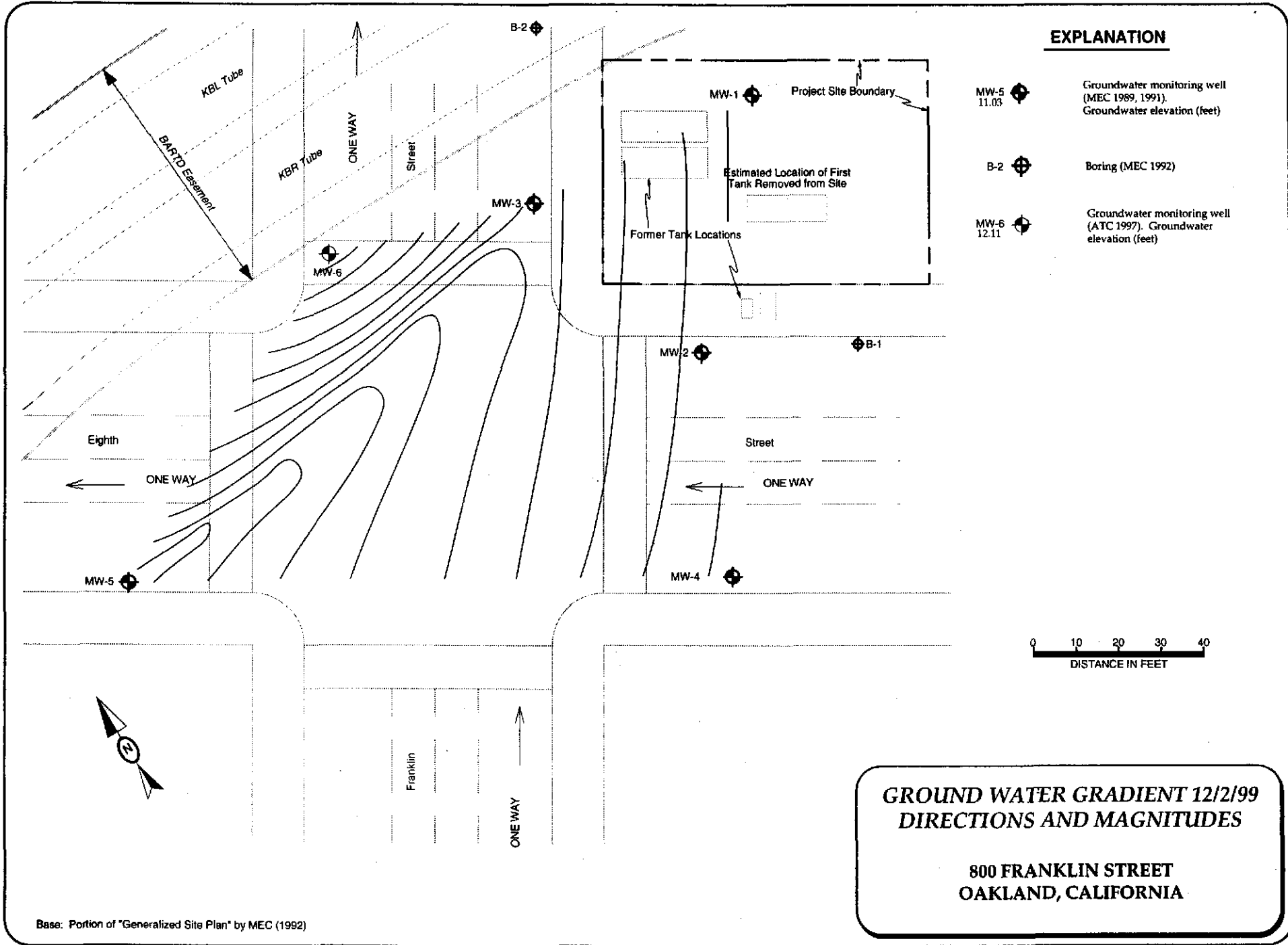


TABLE 1
COMPILATION OF
GROUNDWATER ELEVATIONS IN GROUNDWATER MONITORING WELLS
 800 Franklin Street, Oakland, California

Well	MW1			MW2	MW3	MW4	MW5	MW6
Top of Casing	33.42	34.89#	33.98	33.66	34.23	33.64	33.56	33.98
10/12/89	10.55	-	-	10.40	10.21	*	*	*
11/06/91	NA	-	-	9.64	10.71	10.32	9.56	*
10/21/92	-	11.41	-	11.24	10.91	11.54	10.32	*
02/25/93	-	12.38	-	12.16	11.72	12.51	11.16	*
04/27/93	-	12.53	-	12.40	11.86	12.90	11.41	*
10/07/93	-	12.10	-	12.04	14.19	12.52	11.06	*
03/28/94	-	-	11.91	11.88	11.52	12.34	10.95	*
04/29/94	-	-	NA	11.87	11.34	11.33	10.91	*
06/10/94	-	-	11.66	11.44	11.13	11.55	10.68	*
07/08/94	-	-	11.62	11.42	11.09	11.54	10.60	*
07/26/94	-	-	11.48	11.22	10.94	11.30	10.45	*
08/25/94	-	-	11.47	11.01	10.80	11.09	10.28	*
10/27/94	-	-	11.47	11.00	10.67	10.95	10.06	*
01/06/95	-	-	12.08	11.66	11.33	11.70	10.78	*
02/01/95	-	-	12.79	12.21	11.79	12.34	11.25	*
03/29/95	-	-	12.75	12.66	12.10	12.76	11.63	*
10/31/95	-	-	12.48	11.51	11.23	11.61	10.64	*
05/21/97	-	-	12.49	12.65	11.68	12.08	11.04	11.26
12/02/99	-	-	11.98	11.87	11.57	11.96	11.03	12.11

@ MW-1 top of casing destroyed between 10/12/89 and 11/6/91. Repaired on 03/28/94.

"#" Top of slab next to MW1. "*" - Did not exist "NA" - Not available

10/12/89 and 11/06/91 data from Miller Environmental Company. 10/21/92 through 04/27/93 data from KDM Environmental. 10/07/93 data from Frank Lee & Associates. Datum is Mean Sea Level, based on surveying by LLS Jeffery D. Black, 11/05/91; Existing wellhead, top of slab, & repaired wellhead of MW1 re-surveyed on 03/28/94 by Geotopo, Oakland, Calif.

TABLE 2
COMPILATION OF
COMPOUND CONCENTRATIONS (in ppm) IN GROUNDWATER SAMPLES
 800 Franklin Street, Oakland, California

Well (Smpl Date)	TPHg	Wst Oil	TPHd	Benzene	Toluene	Eth Benz	Xylenes	DCA (ppb)	MTBE	1,2-Dichloroethane
MW1	9/21/89	ND	ND	-	ND	ND	ND	8.600	-	-
	10/31/91	0.630	1.700	0.960	0.003	ND	0.130	0.010	-	-
	10/21/92	0.520	-	-	0.078	0.038	ND	ND	-	-
	2/25/93	1.600	-	-	0.160	0.190	0.034	0.350	-	-
	4/27/93	0.380	-	-	0.005	ND	ND	0.074	-	-
	10/7/93	1.000	-	-	0.081	0.150	0.047	0.230	-	-
	3/28/94	0.460	-	-	0.014	0.025	0.014	0.039	-	-
	10/27/94	ND	-	-	ND	ND	ND	ND	-	-
	10/30/95	1.400	-	-	0.015	0.038	0.049	0.510	-	0.019
	5/21/97	0.150	-	-	0.003	0.002	0.009	0.026	-	ND
	11/24/99	ND	-	1.100	ND	ND	ND	ND	-	ND
MW2	9/21/89	38.000	3.900	-	1.300	1.200	ND	4.700	ND	-
	10/31/91	10.000	ND	1.500	1.800	1.200	0.270	0.960	0.170	-
	10/21/92	270.000	-	-	9.700	4.540	9.600	56.000	15.400	-
	2/25/93	49.000	-	-	4.300	11.000	1.300	9.100	-	-
	4/27/93	39.000	-	-	1.400	4.000	0.220	5.200	-	-
	10/7/93	50.000	-	-	2.700	8.100	0.940	7.800	-	-
	3/28/94	20.000	-	-	0.360	1.300	0.220	1.800	-	-
	10/27/94	21.000	-	-	1.200	3.700	0.600	4.300	-	-
	10/30/95	45.000	-	-	3.100	8.800	1.200	8.400	-	0.810
	5/21/97	##18.000	-	-	##1.400	##4.200	##0.680	##3.600	-	##0.370
11/24/99	14.000	-	2.000	0.480	2.200	0.360	2.300	-	ND	ND
MW3	9/21/89	87.000	4.500	-	3.200	8.800	ND	6.500	70.000	-
	10/31/91	310.000	ND	25.000	9.300	25.000	5.600	27.000	0.058	-
	10/21/92	22.000	-	-	10.000	4.300	0.790	2.100	ND	-
	2/25/93	29.000	-	-	8.400	5.400	1.300	3.300	-	-
	4/27/93	50.000	-	-	8.200	8.700	1.000	5.400	-	-
	10/7/93	1.700	-	-	3.100	3.700	0.400	1.700	-	-
	3/28/94	53.000	-	-	3.900	4.600	0.710	2.500	-	-
	10/27/94	8.500	-	-	2.700	2.700	0.490	2.000	-	-
	10/30/95	19.000	-	-	4.400	4.600	0.720	2.900	-	0.410
	5/21/97	##4.000	-	-	##.810	##.840	##.190	##.690	-	##ND
11/24/99	7.500	-	1.600	1.900	1.100	0.330	0.800	-	ND	0.006

TABLE 2

Well (Smpl Date)	TPHg	Wst Oil	TPHd	Benzene	Toluene	Eth Benz	Xylenes	DCA (ppb)	MTBE	1,2-Dichloroethane
MW4	10/31/91	ND	ND	ND	ND	ND	ND	ND	-	-
	10/21/92	0.410	-	-	0.003	0.029	0.007	0.047	ND	-
	2/25/93	0.170	-	-	ND	ND	ND	ND	-	-
	4/27/93	0.100	-	-	ND	ND	ND	0.001	-	-
	10/7/93	0.240	-	-	ND	ND	ND	ND	-	-
	3/28/94	ND	-	-	ND	ND	ND	ND	-	-
	10/27/94	ND	-	-	ND	ND	ND	ND	-	-
	10/30/95	0.080	-	-	ND	0.001	ND	0.001	-	ND
	5/21/97	ND	-	-	0.011	0.120	0.027	0.180	-	ND
12/2/99	0.060	-	0.068	ND	ND	ND	ND	-	ND	
MW5	10/31/91	ND	ND	ND	ND	ND	ND	ND	-	-
	10/21/92	0.840	-	-	0.017	0.120	0.039	0.180	ND	-
	2/25/93	ND	-	-	ND	ND	ND	ND	-	-
	4/27/93	0.260	-	-	0.053	0.019	0.001	0.002	-	-
	10/7/93	ND	-	-	ND	ND	ND	ND	-	-
	3/28/94	ND	-	-	ND	ND	ND	ND	-	-
	10/27/94	ND	-	-	ND	ND	ND	ND	-	-
	10/30/95	ND	-	-	ND	ND	ND	ND	-	ND
	5/21/97	0.260	-	-	0.002	0.033	0.008	0.056	-	ND
11/24/99	ND	-	0.310	ND	ND	ND	ND	-	ND	
MW6	10/31/91	-	-	-	-	-	-	-	-	-
	10/21/92	-	-	-	-	-	-	-	-	-
	2/25/93	-	-	-	-	-	-	-	-	-
	4/27/93	-	-	-	-	-	-	-	-	-
	10/7/93	-	-	-	-	-	-	-	-	-
	3/28/94	-	-	-	-	-	-	-	-	-
	10/27/94	-	-	-	-	-	-	-	-	-
	10/30/95	-	-	-	-	-	-	-	-	-
	5/21/97	0.760	-	-	0.003	0.002	ND	0.025	-	0.010
11/24/99	3.100	-	1.600	0.150	0.022	0.130	0.049	-	ND	

Notes: MW1 - .8 ppb chloroform on 09/21/89; MW3 - .68 ppb dichloropropane and 1.4 ppb TCA, MW4 - 2.6 ppb chloroform, and MW5 - 1.1 ppb chloroform, on 10/31/94. "ND" - Not Detected within specified detection limit; 50 ppb for TPHg and TPHd, and 0.5 for BTEX and MTBE for all values indicated. "-" - Not Analyzed. Values rounded-off to three decimal places where necessary. See laboratory data sheets for exact reported values. Testing 10/12/89 and 10/31/91 as reported by Miller Environmental Co. Testing 10/21/92, 2/25/93, and 4/27/93 as reported by KDM Environmental. Testing 10/07/93 as reported by Frank Lee & Associates. See the laboratory testing reports for the detection limits for the specific analytes for the testing dated 5-21-97. See laboratory testing reports for specific testing methods. ACCULAB in Petaluma, California; location of NET Pacific, Inc. laboratory not reported by Miller Environmental Company/Chromalab, Pleasanton, CA. "##" - Laboratory results sheet contains notation: "Estimated concentration. Sample Exceeded linear calibration. Insufficient sample for reanalysis." Detection limits for these samples are 50 ppb for TPHg, 5ppb for MTBE, and .50 ppb for BTEX.

APPENDIX A:
LABORATORY TESTING REPORTS AND
CHAIN OF CUSTODY DOCUMENTS

DECEMBER 20, 1999

800 FRANKLIN STREET (STID #37)
OAKLAND, CALIFORNIA

Associated Terra Consultants

15881 Winchester Blvd.

Los Gatos, CA 95030

Attn.: Ms. Nicole Duarte

Project: 124576

Chiu

Dear Nicole,

Attached is our report for your samples received on Monday November 29, 1999
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after December 29, 1999
unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919

Sincerely,



Gary Cook

Environmental Services (SDB)

Volatile Organics by GC/MS - EPA8260A

Associated Terra Consultants	✉ 15881 Winchester Blvd. Los Gatos, CA 95030
Attn: Nicole Duarte	Phone: (408) 377-9094 Fax: (408) 354-7208
Project #: 124576	Project: Chiu

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	11/24/1999	1
MW-2	Water	11/24/1999	2
MW-3	Water	11/24/1999	3
MW-5	Water	11/24/1999	4
MW-6	Water	11/24/1999	5

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8260A

Attn.: Nicole Duarte

Prep Method: 5030

Volatile Organics by GC/MS - EPA8260A

Sample ID: MW-1	Lab Sample ID: 1999-11-0475-001
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 11/30/1999 17:18
Matrix: Water	QC-Batch: 1999/11/30-01.09

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
1,2-Dichloroethane	ND	0.50	ug/L	1.00	11/30/1999 17:18	
Surrogate(s)						
4-Bromofluorobenzene	102.8	86-115	%	1.00	11/30/1999 17:18	
1,2-Dichloroethane-d4	91.4	76-114	%	1.00	11/30/1999 17:18	
Toluene-d8	93.1	88-110	%	1.00	11/30/1999 17:18	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8260A

Attn.: Nicole Duarte

Prep Method: 5030

Volatile Organics by GC/MS - EPA8260A

Sample ID: MW-2	Lab Sample ID: 1999-11-0475-002
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 11/30/1999 17:56
Matrix: Water	QC-Batch: 1999/11/30-01.09

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
1,2-Dichloroethane	ND	0.50	ug/L	1.00	11/30/1999 17:56	
Surrogate(s)						
4-Bromofluorobenzene	95.6	86-115	%	1.00	11/30/1999 17:56	
1,2-Dichloroethane-d4	104.2	76-114	%	1.00	11/30/1999 17:56	
Toluene-d8	108.1	88-110	%	1.00	11/30/1999 17:56	

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Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8260A

Attn.: Nicole Duarte

Prep Method: 5030

Volatile Organics by GC/MS - EPA8260A

Sample ID: MW-3	Lab Sample ID: 1999-11-0475-003
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 11/30/1999 18:35
Matrix: Water	QC-Batch: 1999/11/30-01.09

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
1,2-Dichloroethane	6.0	0.50	ug/L	1.00	11/30/1999 18:35	
Surrogate(s)						
4-Bromofluorobenzene	99.9	86-115	%	1.00	11/30/1999 18:35	
1,2-Dichloroethane-d4	87.5	76-114	%	1.00	11/30/1999 18:35	
Toluene-d8	96.0	88-110	%	1.00	11/30/1999 18:35	

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Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8260A

Attn.: Nicole Duarte

Prep Method: 5030

Volatile Organics by GC/MS - EPA8260A

Sample ID: MW-5	Lab Sample ID: 1999-11-0475-004
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 11/30/1999 19:13
Matrix: Water	QC-Batch: 1999/11/30-01.09

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
1,2-Dichloroethane	ND	0.50	ug/L	1.00	11/30/1999 19:13	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene	102.5	86-115	%	1.00	11/30/1999 19:13	
1,2-Dichloroethane-d4	86.9	76-114	%	1.00	11/30/1999 19:13	
Toluene-d8	95.3	88-110	%	1.00	11/30/1999 19:13	

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8260A

Attn.: Nicole Duarte

Prep Method: 5030

Volatile Organics by GC/MS - EPA8260A

Sample ID: MW-6	Lab Sample ID: 1999-11-0475-005
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 11/30/1999 19:52
Matrix: Water	QC-Batch: 1999/11/30-01.09

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
1,2-Dichloroethane	2.4	0.50	ug/L	1.00	11/30/1999 19:52	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene	102.2	86-115	%	1.00	11/30/1999 19:52	
1,2-Dichloroethane-d4	100.2	76-114	%	1.00	11/30/1999 19:52	
Toluene-d8	99.5	88-110	%	1.00	11/30/1999 19:52	

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8260A

Attn.: Nicole Duarte

Prep Method: 5030

Batch QC Report

Volatile Organics by GC/MS - EPA8260A

Method Blank	Water	QC Batch # 1999/11/30-01.09
MB: 1999/11/30-01.09-001		Date Extracted: 11/30/1999 11:51

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Benzene	ND	0.5	ug/L	11/30/1999 11:51	
Chlorobenzene	ND	0.5	ug/L	11/30/1999 11:51	
1,2-Dichloroethane	ND	0.5	ug/L	11/30/1999 11:51	
1,1-Dichloroethene	ND	0.5	ug/L	11/30/1999 11:51	
Toluene	ND	0.5	ug/L	11/30/1999 11:51	
Trichloroethene	ND	0.5	ug/L	11/30/1999 11:51	
Surrogate(s)					
4-Bromofluorobenzene	100.6	86-115	%	11/30/1999 11:51	
1,2-Dichloroethane-d4	87.8	76-114	%	11/30/1999 11:51	
Toluene-d8	94.2	88-110	%	11/30/1999 11:51	

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8260A

Attn.: Nicole Duarte

Prep Method: 5030

Batch QC Report

Volatile Organics by GC/MS - EPA8260A

Method Blank**Soil****QC Batch # 1999/11/30-01.09**

MB: 1999/11/30-01.09-004

Date Extracted: 11/30/1999 12:30

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Benzene	ND	0.5	ug/L	11/30/1999 12:30	
Chlorobenzene	ND	0.5	ug/L	11/30/1999 12:30	
1,2-Dichloroethane	ND	0.5	ug/L	11/30/1999 12:30	
1,1-Dichloroethene	ND	0.5	ug/L	11/30/1999 12:30	
Toluene	ND	0.5	ug/L	11/30/1999 12:30	
Trichloroethene	ND	0.5	ug/L	11/30/1999 12:30	
Surrogate(s)					
4-Bromofluorobenzene	106.0	86-115	%	11/30/1999 12:30	
1,2-Dichloroethane-d4	84.6	76-114	%	11/30/1999 12:30	
Toluene-d8	95.8	88-110	%	11/30/1999 12:30	

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Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8260A

Attn: Nicole Duarte

Prep Method: 5030

Batch QC Report

Volatile Organics by GC/MS - EPA8260A

Laboratory Control Spike (LCS/LCSD)		Water	QC Batch # 1999/11/30-01.09	
LCS:	1999/11/30-01.09-002	Extracted:	11/30/1999 10:29	Analyzed: 11/30/1999 10:29
LCSD:	1999/11/30-01.09-003	Extracted:	11/30/1999 11:12	Analyzed: 11/30/1999 11:12

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]			RPD		Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD [%]	Recovery	RPD	LCS	LCSD	LCS	LCSD
Benzene	44.5	45.7	50.0	50.0	89.0	91.4	2.7	69-129	20				
Chlorobenzene	54.1	56.8	50.0	50.0	108.2	113.6	4.9	61-121	20				
1,1-Dichloroethene	48.5	44.5	50.0	50.0	97.0	89.0	8.6	65-125	20				
Toluene	42.8	44.3	50.0	50.0	85.6	88.6	3.4	70-130	20				
Trichloroethene	42.3	42.2	50.0	50.0	84.6	84.4	0.2	74-134	20				
Surrogate(s)													
4-Bromofluorobenzene	535	510	500	500	107.0	102.0		86-115					
1,2-Dichloroethane-d4	462	445	500	500	92.4	89.0		76-114					
Toluene-d8	489	471	500	500	97.8	94.2		88-110					

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8260A

Attn.: Nicole Duarte

Prep Method: 5030

Batch QC Report

Volatile Organics by GC/MS - EPA8260A

Matrix Spike (MS / MSD)

Water

QC Batch # 1999/11/30-01.09

Sample ID: **CRBN-EFF**

Lab Sample ID: 1999-11-0391-004

MS: 1999/11/30-01.09-005 Extracted: 11/30/1999 20:30 Analyzed: 11/30/1999 20:30 Dilution: 1.0

MSD: 1999/11/30-01.09-006 Extracted: 11/30/1999 21:09 Analyzed: 11/30/1999 21:09 Dilution: 1.0

Compound	Conc. [ug/L]			Exp. Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Benzene	45.2	46.0	ND	50.0	50.0	90.4	92.0	1.8	69-129	20		
Chlorobenzene	54.4	54.7	ND	50.0	50.0	108.8	109.4	0.6	61-121	20		
1,1-Dichloroethene	45.2	45.0	ND	50.0	50.0	90.4	90.0	0.4	65-125	20		
Toluene	43.5	44.9	ND	50.0	50.0	87.0	89.8	3.2	70-130	20		
Trichloroethene	42.9	42.3	ND	50.0	50.0	85.8	84.6	1.4	74-134	20		
Surrogate(s)												
4-Bromofluorobenzene	542	506		500	500	108.4	101.2		86-115			
1,2-Dichloroethane-d4	452	473		500	500	90.4	94.6		76-114			
Toluene-d8	460	468		500	500	92.0	93.6		88-110			

Diesel

Associated Terra Consultants



15881 Winchester Blvd.
Los Gatos, CA 95030

Attn: Nicole Duarte

Phone: (408) 377-9094 Fax: (408) 354-7208

Project #: 124576

Project: Chiu

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	11/24/1999	1
MW-2	Water	11/24/1999	2
MW-3	Water	11/24/1999	3
MW-5	Water	11/24/1999	4
MW-6	Water	11/24/1999	5

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8015m

Attn.: Nicole Duarte

Prep Method: 3510/8015M

Diesel

Sample ID: MW-1	Lab Sample ID: 1999-11-0475-001
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 12/01/1999 09:00
Matrix: Water	QC-Batch: 1999/12/01-05.10
Sample/Analysis Flag: rl (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1100	250	ug/L	5.00	12/04/1999 04:06	ndp
<i>Surrogate(s)</i> o-Terphenyl	67.0	60-130	%	5.00	12/04/1999 04:06	

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8015m

Attn.: Nicole Duarte

Prep Method: 3510/8015M

Diesel

Sample ID: MW-2	Lab Sample ID: 1999-11-0475-002
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 12/01/1999 09:00
Matrix: Water	QC-Batch: 1999/12/01-05.10
Sample/Analysis Flag: rl (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	2000	250	ug/L	5.00	12/04/1999 04:42	ed
<i>Surrogate(s)</i> o-Terphenyl	88.8	60-130	%	5.00	12/04/1999 04:42	

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Environmental Services (SDB)

To: **Associated Terra Consultants**

Attn.: Nicole Duarte

Test Method: 8015m

Prep Method: 3510/8015M

Diesel

Sample ID: MW-3	Lab Sample ID: 1999-11-0475-003
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 12/01/1999 09:00
Matrix: Water	QC-Batch: 1999/12/01-05.10
Sample/Analysis Flag: rl (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1600	250	ug/L	5.00	12/04/1999 05:19	ed
Surrogate(s) o-Terphenyl	96.5	60-130	%	5.00	12/04/1999 05:19	

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8015m

Attn.: Nicole Duarte

Prep Method: 3510/8015M

Diesel

Sample ID: MW-5	Lab Sample ID: 1999-11-0475-004
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 12/01/1999 09:00
Matrix: Water	QC-Batch: 1999/12/01-05.10
Sample/Analysis Flag: rl (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	310	250	ug/L	5.00	12/04/1999 05:56	ndp
<i>Surrogate(s)</i> o-Terphenyl	69.6	60-130	%	5.00	12/04/1999 05:56	

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8015m

Attn.: Nicole Duarte

Prep Method: 3510/8015M

Diesel

Sample ID: MW-6	Lab Sample ID: 1999-11-0475-005
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 12/01/1999 09:00
Matrix: Water	QC-Batch: 1999/12/01-05.10
Sample/Analysis Flag: rl (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1600	250	ug/L	5.00	12/07/1999 17:36	ndp
Surrogate(s) o-Terphenyl	118.3	60-130	%	5.00	12/07/1999 17:36	

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Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8015m

Attn.: Nicole Duarte

Prep Method: 3510/8015M

Batch QC Report
Diesel

Method Blank	Water	QC Batch # 1999/12/01-05.10
MB: 1999/12/01-05.10-001		Date Extracted: 12/01/1999 09:00

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	12/04/1999 03:29	
Surrogate(s) o-Terphenyl	100.5	60-130	%	12/04/1999 03:29	

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8015m

Attn: Nicole Duarte

Prep Method: 3510/8015M

Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 1999/12/01-05.10
LCS: 1999/12/01-05.10-002	Extracted: 12/01/1999 09:00	Analyzed: 12/06/1999 14:39
LCSD: 1999/12/01-05.10-003	Extracted: 12/01/1999 09:00	Analyzed: 12/06/1999 13:55

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD [%]	Recovery	RPD	LCS	LCSD
Diesel	1020	1040	1250	1250	81.6	83.2	1.9	60-130	25		
Surrogate(s)											
o-Terphenyl	17.6	21.7	20.0	20.0	88.0	108.5		60-130			

Environmental Services (SDB)

To: **Associated Terra Consultants**

Attn: Nicole Duarte

Test Method: 8015m

Prep Method: 3510/8015M

Legend & Notes

Diesel

Analysis Flags

rl

Reporting limits raised due to reduced sample size.

Analyte Flags

ed

Hydrocarbon reported is in the early Diesel range, and does not match our Diesel standard

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

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Gas/BTEX and MTBE

Associated Terra Consultants	✉ 15881 Winchester Blvd. Los Gatos, CA 95030
Attn: Nicole Duarte	Phone: (408) 377-9094 Fax: (408) 354-7208
Project #: 124576	Project: Chiu

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	11/24/1999	1
MW-2	Water	11/24/1999	2
MW-3	Water	11/24/1999	3
MW-5	Water	11/24/1999	4
MW-6	Water	11/24/1999	5

Environmental Services (SDB)

To: **Associated Terra Consultants**Test Method: 8020
8015M

Attn.: Nicole Duarte

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: MW-1	Lab Sample ID: 1999-11-0475-001
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 12/06/1999 10:28
Matrix: Water	QC-Batch: 1999/12/06-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/06/1999 10:28	
Benzene	ND	0.50	ug/L	1.00	12/06/1999 10:28	
Toluene	ND	0.50	ug/L	1.00	12/06/1999 10:28	
Ethyl benzene	ND	0.50	ug/L	1.00	12/06/1999 10:28	
Xylene(s)	ND	0.50	ug/L	1.00	12/06/1999 10:28	
MTBE	ND	5.0	ug/L	1.00	12/06/1999 10:28	
Surrogate(s)						
Trifluorotoluene	91.1	58-124	%	1.00	12/06/1999 10:28	
4-Bromofluorobenzene-FID	72.6	50-150	%	1.00	12/06/1999 10:28	

Environmental Services (SDB)

To: **Associated Terra Consultants**Test Method: 8020
8015M

Attn.: Nicole Duarte

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: MW-2	Lab Sample ID: 1999-11-0475-002
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 12/06/1999 16:23
Matrix: Water	QC-Batch: 1999/12/06-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	14000	500	ug/L	10.00	12/06/1999 16:23	
Benzene	480	5.0	ug/L	10.00	12/06/1999 16:23	
Toluene	2200	5.0	ug/L	10.00	12/06/1999 16:23	
Ethyl benzene	360	5.0	ug/L	10.00	12/06/1999 16:23	
Xylene(s)	2300	5.0	ug/L	10.00	12/06/1999 16:23	
MTBE	ND	50	ug/L	10.00	12/06/1999 16:23	
<i>Surrogate(s)</i>						
Trifluorotoluene	90.0	58-124	%	1.00	12/06/1999 16:23	
4-Bromofluorobenzene-FID	89.7	50-150	%	1.00	12/06/1999 16:23	

Environmental Services (SDB)

To: **Associated Terra Consultants**Test Method: 8020
8015M

Attn.: Nicole Duarte

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: MW-3	Lab Sample ID: 1999-11-0475-003
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 12/06/1999 18:14
Matrix: Water	QC-Batch: 1999/12/06-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	7500	1300	ug/L	25.00	12/06/1999 18:14	
Benzene	1900	13	ug/L	25.00	12/06/1999 18:14	
Toluene	1100	13	ug/L	25.00	12/06/1999 18:14	
Ethyl benzene	330	13	ug/L	25.00	12/06/1999 18:14	
Xylene(s)	800	13	ug/L	25.00	12/06/1999 18:14	
MTBE	ND	130	ug/L	25.00	12/06/1999 18:14	
<i>Surrogate(s)</i>						
Trifluorotoluene	107.6	58-124	%	1.00	12/06/1999 18:14	
4-Bromofluorobenzene-FID	83.7	50-150	%	1.00	12/06/1999 18:14	

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Environmental Services (SDB)

To: **Associated Terra Consultants**Test Method: 8020
8015M

Attn.: Nicole Duarte

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: MW-5	Lab Sample ID: 1999-11-0475-004
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 12/06/1999 17:46
Matrix: Water	QC-Batch: 1999/12/06-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/06/1999 17:46	
Benzene	ND	0.50	ug/L	1.00	12/06/1999 17:46	
Toluene	ND	0.50	ug/L	1.00	12/06/1999 17:46	
Ethyl benzene	ND	0.50	ug/L	1.00	12/06/1999 17:46	
Xylene(s)	ND	0.50	ug/L	1.00	12/06/1999 17:46	
MTBE	ND	5.0	ug/L	1.00	12/06/1999 17:46	
Surrogate(s)						
Trifluorotoluene	95.6	58-124	%	1.00	12/06/1999 17:46	
4-Bromofluorobenzene-FID	74.7	50-150	%	1.00	12/06/1999 17:46	

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Environmental Services (SDB)

To: **Associated Terra Consultants**Test Method: 8020
8015M

Attn.: Nicole Duarte

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: MW-6	Lab Sample ID: 1999-11-0475-005
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 12/06/1999 14:24
Matrix: Water	QC-Batch: 1999/12/06-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	3100	500	ug/L	10.00	12/06/1999 14:24	
Benzene	150	5.0	ug/L	10.00	12/06/1999 14:24	
Toluene	22	5.0	ug/L	10.00	12/06/1999 14:24	
Ethyl benzene	130	5.0	ug/L	10.00	12/06/1999 14:24	
Xylene(s)	49	5.0	ug/L	10.00	12/06/1999 14:24	
MTBE	ND	50	ug/L	10.00	12/06/1999 14:24	
Surrogate(s)						
Trifluorotoluene	107.5	58-124	%	1.00	12/06/1999 14:24	
4-Bromofluorobenzene-FID	90.9	50-150	%	1.00	12/06/1999 14:24	

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Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

Environmental Services (SDB)

To: **Associated Terra Consultants**Test Method: 8020
8015M

Attn.: Nicole Duarte

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank	Water	QC Batch # 1999/12/06-01.01
MB: 1999/12/06-01.01-001		Date Extracted: 12/06/1999 08:01

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	12/06/1999 08:01	
Benzene	ND	0.5	ug/L	12/06/1999 08:01	
Toluene	ND	0.5	ug/L	12/06/1999 08:01	
Ethyl benzene	ND	0.5	ug/L	12/06/1999 08:01	
Xylene(s)	ND	0.5	ug/L	12/06/1999 08:01	
MTBE	ND	5.0	ug/L	12/06/1999 08:01	
Surrogate(s)					
Trifluorotoluene	106.4	58-124	%	12/06/1999 08:01	
4-Bromofluorobenzene-FID	79.8	50-150	%	12/06/1999 08:01	

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8020
8015M

Attn: Nicole Duarte

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 1999/12/06-01.01
LCS: 1999/12/06-01.01-002	Extracted: 12/06/1999 05:50	Analyzed: 12/06/1999 05:50
LCSD: 1999/12/06-01.01-003	Extracted: 12/06/1999 06:18	Analyzed: 12/06/1999 06:18

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	498	473	500	500	99.6	94.6	5.1	75-125	20		
Benzene	108	111	100.0	100.0	108.0	111.0	2.7	77-123	20		
Toluene	110	113	100.0	100.0	110.0	113.0	2.7	78-122	20		
Ethyl benzene	109	113	100.0	100.0	109.0	113.0	3.6	70-130	20		
Xylene(s)	329	339	300	300	109.7	113.0	3.0	75-125	20		
Surrogate(s)											
Trifluorotoluene	576	583	500	500	115.2	116.6		58-124			
4-Bromofluorobenzene-FI	456	415	500	500	91.2	83.0		50-150			

99-11-0475

49279

ASSOCIATED TERRA CONSULTANTS, Inc.

15881 Winchester Boulevard

CHAIN OF CUSTODY

Les Gatos, CA 95030 (408) 354-6040 (408) Fax 354-7208

Job Name: Chiu		Job Number 124576		Sampling Round Number:		ANALYSIS REQUEST																					
Well or Sample ID	Date	Time	Matrix	Sample Container	Preservative	Turn-around Time	HOLD	TPH-Gasoline (EPA 5030, 8015)	TPH-Gasoline (EPA 5030, 8015) w/BTEX + MTBE (EPA 602, 8020)	TPH-Diesel (EPA 3510/3550, 8015)	Purgeable aromatics BTEX + MTBE (EPA 602, 8020)	Purgeable Halocarbons (EPA 601, 8010)	Volatile Organics (EPA 624, 8240, 524.2)	Base/Neutrals, Acids (EPA 625/627, 8270, 525)	Total Oil & Grease (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	Pesticides (EPA 608, 8080)	Total Recoverable Hydrocarbons (EPA 418.1)	LUFT Metals (Cd, Cr, Ni, Pb, Zn)	CAM Metals (17)	Priority Pollutant Metals (13)	Organic Lead	Total Lead	Extraction (TCLP, STLC)	Number of Containers		
MW-1	11/24		H2O	Voa	HCl standard																						6
"-2	"		"	"	"																						6
"-3	"		"	"	"																						6
"-4	/	/	/	/	/																						N/A
"-5	11/24		H2O	Voa	HCl standard																						6
"-6	"		"	"	"																						6

Relinquished by: (signature/date/time)	(1) Relinquished by: (signature/date/time)	Relinquished by: (signature/date/time)	(3)
Received by: (signature)	Received by: (signature)	Received by: (signature)	
SAMPLE RECEIPT- Field To Office	SAMPLE RECEIPT - Laboratory	COMMENTS:	
Total No. of Containers	Total No. of Containers	Micro Extraction	
Head Space	Head Space		
Rec'd in Good Condition/Cold	Rec'd in Good Condition/Cold		
Conforms to Record	Conforms to Record		
Initials/Date	Initials/Date		

CHROMALAB, INC.

Environmental Services (SDB)

Project Manager: Gary Cook

Invoice#: 1999-12-0086

Invoice Date: December 16, 1999

INVOICE

Samples Received From		Report Results To	
Associated Terra Consultants Contact: Nicole Duarte 15881 Winchester Blvd. Los Gatos, CA 95030		Associated Terra Consultants Contact: Nicole Duarte 15881 Winchester Blvd. Los Gatos, CA 95030	
Bill To		ASSTER	
Associated Terra Consultants Attn: Nicole Duarte 15881 Winchester Blvd. Los Gatos, CA 95030		Received: December 03, 1999 04:36 PM	
Project: Chiu			

Qty	Matrix	Analysis	TAT	Unit Price	Total
1	Water	DCA	5 Day	\$88.00	\$88.00
1	Water	Diesel	5 Day	\$77.00	\$77.00
1	Water	G/BTEX with MTBE	5 Day	\$93.50	\$93.50
					\$258.50

Terms and conditions:
Net30

Please Send Payment to: ChromaLab, Inc.
1220 Quarry Lane
Pleasanton, CA 94566-4756
Phone: (925) 484-1919 Fax: (925) 484-1096

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096
Federal ID# 68-0140157

Associated Terra Consultants

15881 Winchester Blvd.
Los Gatos, CA 95030

Attn.: Ms. Nicole Duarte

Project: 124576
Chiu

Dear Nicole,

Attached is our report for your samples received on Friday December 3, 1999
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after January 2, 2000
unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919

Sincerely,


Gary Cook

Environmental Services (SDB)

Volatile Organics by GC/MS - EPA8260A

Associated Terra Consultants	☒ 15881 Winchester Blvd. Los Gatos, CA 95030
Attn: Nicole Duarte	Phone: (408) 377-9094 Fax: (408) 354-7208
Project #: 124576	Project: Chiu

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-4	Water	12/02/1999	1

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8260A

Attn.: Nicole Duarte

Prep Method: 5030

Volatile Organics by GC/MS - EPA8260A

Sample ID: MW-4	Lab Sample ID: 1999-12-0086-001
Project: 124576 Chiu	Received: 12/03/1999 16:36
Sampled: 12/02/1999	Extracted: 12/08/1999 17:42
Matrix: Water	QC-Batch: 1999/12/08-01.27

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
1,1-Dichloroethane	ND	0.50	ug/L	1.00	12/08/1999 17:42	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	12/08/1999 17:42	
Surrogate(s)						
4-Bromofluorobenzene	100.4	86-115	%	1.00	12/08/1999 17:42	
1,2-Dichloroethane-d4	107.2	76-114	%	1.00	12/08/1999 17:42	
Toluene-d8	98.1	88-110	%	1.00	12/08/1999 17:42	

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8260A

Attn.: Nicole Duarte

Prep Method: 5030

Batch QC Report

Volatile Organics by GC/MS - EPA8260A

Method Blank	Water	QC Batch # 1999/12/08-01.27
MB: 1999/12/08-01.27-001		Date Extracted: 12/08/1999 13:21

Compound	Result	Rep.Limit	Units	Analyzed	Flag
1,1-Dichloroethane	ND	0.5	ug/L	12/08/1999 13:21	
1,2-Dichloroethane	ND	0.5	ug/L	12/08/1999 13:21	
Surrogate(s)					
4-Bromofluorobenzene	96.0	86-115	%	12/08/1999 13:21	
1,2-Dichloroethane-d4	109.8	76-114	%	12/08/1999 13:21	
Toluene-d8	93.2	88-110	%	12/08/1999 13:21	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8260A

Attn: Nicole Duarte

Prep Method: 5030

Batch QC Report

Volatile Organics by GC/MS - EPA8260A

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 1999/12/08-01.27	
LCS:	1999/12/08-01.27-002	Extracted:	12/08/1999 11:54	Analyzed:	12/08/1999 11:54
LCSD:	1999/12/08-01.27-003	Extracted:	12/08/1999 12:43	Analyzed:	12/08/1999 12:43

Compound	Conc. [%]		Exp. Conc. [%]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Surrogate(s)											
4-Bromofluorobenzene	467	483	500	500	93.4	96.6		86-115			
1,2-Dichloroethane-d4	535	527	500	500	107.0	105.4		76-114			
Toluene-d8	456	470	500	500	91.2	94.0		88-110			

Environmental Services (SDB)

Diesel

Associated Terra Consultants



15881 Winchester Blvd.
Los Gatos, CA 95030

Attn: Nicole Duarte

Phone: (408) 377-9094 Fax: (408) 354-7208

Project #: 124576

Project: Chiu

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-4	Water	12/02/1999	1

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8015m

Attn.: Nicole Duarte

Prep Method: 3510/8015M

Diesel

Sample ID: MW-4	Lab Sample ID: 1999-12-0086-001
Project: 124576 Chiu	Received: 12/03/1999 16:36
Sampled: 12/02/1999	Extracted: 12/08/1999 09:00
Matrix: Water	QC-Batch: 1999/12/08-04.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	68	51	ug/L	1.01	12/10/1999 08:49	ndp
<i>Surrogate(s)</i> o-Terphenyl	91.6	60-130	%	1.00	12/10/1999 08:49	

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8015m

Attn.: Nicole Duarte

Prep Method: 3510/8015M

Batch QC Report

Diesel

Method Blank	Water	QC Batch # 1999/12/08-04.10
MB: 1999/12/08-04.10-001		Date Extracted: 12/08/1999 08:00

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	12/09/1999 10:44	
<i>Surrogate(s)</i> o-Terphenyl	91.0	60-130	%	12/09/1999 10:44	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

To: **Associated Terra Consultants**

Test Method: 8015m

Attn: Nicole Duarte

Prep Method: 3510/8015M

Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD)**Water****QC Batch # 1999/12/08-04.10**

LCS: 1999/12/08-04.10-002

Extracted: 12/08/1999 08:00

Analyzed: 12/08/1999 16:23

LCSD: 1999/12/08-04.10-003

Extracted: 12/08/1999 08:00

Analyzed: 12/08/1999 16:59

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]			Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD [%]	Recovery	RPD	LCS	LCSD
Diesel	1150	1180	1250	1250	92.0	94.4	2.6	60-130	25		
Surrogate(s)											
<i>o</i> -Terphenyl	19.3	19.4	20.0	20.0	96.5	97.0		60-130			

To: **Associated Terra Consultants**

Attn: Nicole Duarte

Test Method: 8015m

Prep Method: 3510/8015M

Legend & Notes

Diesel

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Gas/BTEX and MTBE

Associated Terra Consultants	<input checked="" type="checkbox"/> 15881 Winchester Blvd. Los Gatos, CA 95030
Attn: Nicole Duarte	Phone: (408) 377-9094 Fax: (408) 354-7208
Project #: 124576	Project: Chiu

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-4	Water	12/02/1999	1

Environmental Services (SDB)

To: **Associated Terra Consultants**Test Method: 8020
8015M

Attn.: Nicole Duarte

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: MW-4	Lab Sample ID: 1999-12-0086-001
Project: 124576 Chiu	Received: 12/03/1999 16:36
Sampled: 12/02/1999	Extracted: 12/10/1999 18:32
Matrix: Water	QC-Batch: 1999/12/10-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	60	50	ug/L	1.00	12/10/1999 18:32	g
Benzene	ND	0.50	ug/L	1.00	12/10/1999 18:32	
Toluene	ND	0.50	ug/L	1.00	12/10/1999 18:32	
Ethyl benzene	ND	0.50	ug/L	1.00	12/10/1999 18:32	
Xylene(s)	ND	0.50	ug/L	1.00	12/10/1999 18:32	
MTBE	ND	5.0	ug/L	1.00	12/10/1999 18:32	
Surrogate(s)						
Trifluorotoluene	95.4	58-124	%	1.00	12/10/1999 18:32	
4-Bromofluorobenzene-FID	81.7	50-150	%	1.00	12/10/1999 18:32	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

Environmental Services (SDB)

To: **Associated Terra Consultants**Test Method: 8020
8015M

Attn.: Nicole Duarte

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank	Water	QC Batch # 1999/12/10-01.01
MB: 1999/12/10-01.01-001		Date Extracted: 12/10/1999 11:29

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	12/10/1999 11:29	
Benzene	ND	0.5	ug/L	12/10/1999 11:29	
Toluene	ND	0.5	ug/L	12/10/1999 11:29	
Ethyl benzene	ND	0.5	ug/L	12/10/1999 11:29	
Xylene(s)	ND	0.5	ug/L	12/10/1999 11:29	
MTBE	ND	5.0	ug/L	12/10/1999 11:29	
Surrogate(s)					
Trifluorotoluene	95.8	58-124	%	12/10/1999 11:29	
4-Bromofluorobenzene-FID	74.2	50-150	%	12/10/1999 11:29	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8020
8015M

Attn: Nicole Duarte

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)

Water

QC Batch # 1999/12/10-01.01

LCS: 1999/12/10-01.01-002

Extracted: 12/10/1999 10:41

Analyzed: 12/10/1999 10:41

LCSD: 1999/12/10-01.01-003

Extracted: 12/10/1999 12:02

Analyzed: 12/10/1999 12:02

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	592	547	500	500	118.4	109.4	7.9	75-125	20		
Benzene	110	108	100.0	100.0	110.0	108.0	1.8	77-123	20		
Toluene	111	109	100.0	100.0	111.0	109.0	1.8	78-122	20		
Ethyl benzene	113	110	100.0	100.0	113.0	110.0	2.7	70-130	20		
Xylene(s)	340	331	300	300	113.3	110.3	2.7	75-125	20		
Surrogate(s)											
Trifluorotoluene	561	535	500	500	112.2	107.0		58-124			
4-Bromofluorobenzene-Fl	475	447	500	500	95.0	89.4		50-150			

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8020
8015M

Attn: Nicole Duarte

Prep Method: 5030

Legend & Notes

Gas/BTEX and MTBE

Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

99-12-0086

ASSOCIATED TERRA CONSULTANTS, Inc.

15881 Winchester Boulevard
Los Gatos, CA 95030 (408) 354-6040 (408) Fax 354-7208

CHAIN OF CUSTODY

Job Name: Chiu		Job Number: 124576	Sampling Round Number:	ANALYSIS REQUEST																										
Well or Sample ID	Date	Time	Matrix	Sample Container	Preservative	Turn-around Time	HOLD	TPH-Gasoline (EPA 5030, 8015)	TPH-Gasoline (EPA 5030, 8015)	w/BTEX + MTBE (EPA 602, 8020)	TPH-Diesel (EPA 3510/3550, 8015)	Purgeable aromatics	BTEX + MTBE (EPA 602, 8020)	Purgeable Halocarbons (EPA 601, 8010)	Volatile Organics (EPA 624, 8240, 524.2)	Base/Neutrals, Acids (EPA 625/627, 8270, 525)	Total Oil & Grease (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	Pesticides (EPA 608, 8080)	Total Recoverable	Hydrocarbons (EPA 418.1)	LUFT Metals (Cd, Cr, Ni, Pb, Zn)	CAM Metals (17)	Priority Pollutant Metals (13)	Organic Lead	Total Lead	Extraction (TCLP, STLC)	Number of Containers		
MW-4	12/2		1420	00a 8 liter	HCL Standard					X	X																			7
Relinquished by: (signature/date/time) <i>[Signature]</i> 12/3/99							Relinquished by: (signature/date/time) <i>[Signature]</i> 12-3-99 (2) 1636							Relinquished by: (signature/date/time) (3)																
Received by: (signature) <i>[Signature]</i> 12-3-99							Received by: (signature) <i>Denise Harrington</i> 12/3/99 @ 1636							Received by: (signature)																
SAMPLE RECEIPT - Field To Office							SAMPLE RECEIPT - Laboratory							COMMENTS:																
Total No. of Containers <u>7</u>							Total No. of Containers _____																							
Head Space <u>—</u>							Head Space _____																							
Rec'd in Good Condition/Cold <u>✓</u>							Rec'd in Good Condition/Cold _____																							
Conforms to Record <u>✓</u>							Conforms to Record _____																							
Initials/Date <u>[Signature]</u> 12/3							Initials/Date _____																							

CHROMALAB, INC.

Submission #: 1999-11-0475

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8015m

Attn.: Nicole Duarte

Prep Method: 3510/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID: MW-1	Lab Sample ID: 1999-11-0475-001
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 12/01/1999 09:00
Matrix: Water	QC-Batch: 1999/12/01-05.10
Sample/Analysis Flag: n (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Motor Oil	ND	2500	ug/L	5.00	12/04/1999 04:06	
Surrogate(s) o-Terphenyl	67.0	60-130	%	5.00	12/04/1999 04:06	

CHROMALAB, INC.

Submission #: 1999-11-0475

Environmental Services (SOB)

To: **Associated Terra Consultants**
 Attn.: Nicole Duarte

Test Method: 8015m
 Prep Method: 3510/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID: MW-2	Lab Sample ID: 1999-11-0475-002
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 12/01/1999 09:00
Matrix: Water	QC-Batch: 1999/12/01-05.10
Sample/Analysis Flag: n (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Motor Oil	ND	2500	ug/L	5.00	12/04/1999 04:42	
Surrogate(s) o-Terphenyl	88.8	60-130	%	5.00	12/04/1999 04:42	

CHROMALAB, INC.

Submission #: 1999-11-0475

Environmental Services (SDB)

To: **Associated Terra Consultants**
 Attn.: Nicole Duarte

Test Method: 8015m
 Prep Method: 3510/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID: MW-3	Lab Sample ID: 1999-11-0475-003
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 12/01/1999 09:00
Matrix: Water	QC-Batch: 1999/12/01-05.10
Sample/Analysis Flag: r (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Motor Oil	ND	2500	ug/L	5.00	09/04/1999 05:09	
Surrogate(s) o-Terphenyl	88.8	60-130	%	5.00	09/04/1999 05:09	

1220 Quarry Lane * Pleasanton, CA 94568-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Submission #: 1999-11-0475

Environmental Services (SDB)

To: **Associated Terra Consultants**
 Attn.: Nicole Duarte

Test Method: 8015m
 Prep Method: 3510/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID: MW-5	Lab Sample ID: 1999-11-0475-004
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 12/01/1999 09:00
Matrix: Water	QC-Batch: 1999/12/01-05.10
Sample/Analysis Flag: n (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Motor Oil	ND	2500	ug/L	5.00	12/04/1999 05:56	
<i>Surrogate(s)</i> o-Terphenyl	69.6	60-130	%	5.00	12/04/1999 05:56	

CHROMALAB, INC.

Submission #: 1999-11-0475

Environmental Services (SOB)

To: **Associated Terra Consultants**

Test Method: 8015m

Attn.: Nicole Duarte

Prep Method: 3510/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID: MW-6	Lab Sample ID: 1999-11-0475-005
Project: 124576 Chiu	Received: 11/29/1999 17:50
Sampled: 11/24/1999	Extracted: 12/01/1999 09:00
Matrix: Water	QC-Batch: 1999/12/01-05.10
Sample/Analysis Flag: ri (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Motor Oil	ND	2500	ug/L	5.00	12/07/1999 17:36	
Surrogate(s) o-Terphenyl	118.3	60-130	%	5.00	12/07/1999 17:36	

CHROMALAB, INC.

Submission #: 1999-11-0475

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8015m

Attn.: Nicole Duarte

Prep Method: 3510/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Method Blank	Water	QC Batch # 1999/12/01-05.10
MB: 1999/12/01-05.10-001		Date Extracted: 12/01/1999 09:00

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	12/04/1999 03:29	
Motor Oil	ND	500	ug/L	12/04/1999 03:29	
Surrogate(s) o-Terphenyl	100.5	60-130	%	12/04/1999 03:29	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1010 * Facsimile: (925) 484-1096

Printed on: 12/23/1999 17:20

Page 7 of 9

CHROMALAB, INC.

Submission #: 1999-11-0475

Environmental Services (SDB)

To: **Associated Terra Consultants**

Test Method: 8015m

Attn: Nicole Duarte

Prep Method: 3510/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 1999/12/01-05.10	
LCS:	1999/12/01-05.10-002	Extracted:	12/01/1999 09:00	Analyzed:	12/06/1999 14:39
LCSD:	1999/12/01-05.10-003	Extracted:	12/01/1999 09:00	Analyzed:	12/06/1999 13:55

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Diesel	1020	1040	1250	1250	81.6	83.2	1.9	60-130	25		
Surrogate(s) o-Terphenyl	17.6	21.7	20.0	20.0	88.0	108.5		60-130			

1220 Quarry Lane * Pleasanton, CA 94566-4758
 Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Submission #: 1999-11-0475

Environmental Services (SDB)

To: **Associated Terra Consultants**
Attn: Nicole Duarte

Test Method: 8015m
Prep Method: 3510/8015M

Legend & Notes

Total Extractable Petroleum Hydrocarbons (TEPH)

Analysis Flags

rf

Reporting limits raised due to reduced sample size.

**APPENDIX B:
SAMPLING PROTOCOL**

DECEMBER 20, 1999

**800 FRANKLIN STREET (STID #37)
OAKLAND, CALIFORNIA**

APPENDIX B

SAMPLING PROTOCOL

SUBSURFACE INVESTIGATION AND TESTING

800 FRANKLIN STREET (STID #37), OAKLAND, CALIFORNIA

SAMPLING

General

1. All chemical sampling, handling, and storage will be conducted under the direction of our Registered Environmental Assessor.
2. All sample containers will be properly tagged and identified in the field with a label containing the date, sample identification, and the Associated Terra Consultants, Inc. job number for the work being performed.
3. At no time will the time elapsed between sample acquisition and sample delivery to the outside laboratory be greater than three days.
4. Under no circumstances will preservatives be added to the samples.
5. At no time will sample containers be opened by other than laboratory personnel who will perform the specified chemical analyses.
6. We have been advised by our outside laboratory that the useful durations of soils and ground water samples for the appropriate chemical testing are one month and two weeks, respectively.
7. Ground water and soils samples will be disposed of in Class 1 or Class 2-1 sites as necessary after acceptance of our report or upon receipt of your authorization.