*ASSOCIATED TERRA CONSULTANTS, Inc.*
*ENVIRONMENTAL SERVICES ENGINEERING GEOLOGY HYDROGEOLOGY*



# ENVIRONMENTAL MONITORING REPORT

## OCTOBER 1995

## 800 FRANKLIN STREET (STID #37)

## OAKLAND, CALIFORNIA

11-30-95

for

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

**November 30, 1995**

**File No: 124574**

*15039 Downing Oak Court, Suite 3, Los Gatos, California 95032 (408) 377-9094 (408) 377-1810 fax*

# *ASSOCIATED TERRA CONSULTANTS, Inc.*

*ENVIRONMENTAL SERVICES ENGINEERING GEOLOGY HYDROGEOLOGY*


November 30, 1995
File No: 124574

Mr. Tommy Chiu
812 5th Avenue
Oakland, California

Subject: **ENVIRONMENTAL MONITORING REPORT, OCTOBER 1995**
800 Franklin Street (STID #37)
Oakland, California

Dear Mr. Chiu:

We are pleased to present to you with this letter the results of the October 1995 monitoring of the five monitoring wells at the project site. This monitoring and report are required by the Alameda County Health Care Services Agency, Department of Environmental Health, SWRCB, Division of Clean Water Programs, UST Local Oversight Program in their letter dated October 16, 1995.

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. Tom Peacock, Alameda County, Department of Environmental Health, Hazardous Materials Division
1 copy - Mr. Michael Burns, Tracy Federal Bank


*15039 Downing Oak Court, Suite 3, Los Gatos, California 95032 (408) 377-9094 (408) 377-1810 fax*

File No: 124574 November 30, 1995

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# ENVIRONMENTAL MONITORING REPORT:

# OCTOBER 1995

# 800 FRANKLIN STREET (STID #37)

# OAKLAND, CALIFORNIA

## INTRODUCTION

This report presents the results of the October 1995 ground water level gauging and sampling event for the five existing groundwater monitoring wells at and in the vicinity of 800 Franklin Street in Oakland, California. 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. This work has included:

a) Measurement of the ground water levels in all the wells and calculation of the ground water flow direction and gradient;

b) Sampling of all existing wells;

c) Testing of the water samples for total petroleum hydrocarbons as gasoline, with benzene, toluene, ethylbenzene, xylenes and MTBE distinction; and

d) Preparation of this letter report of this monitoring event based on those measurements, within a month of the field sampling.

## 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.

## OCTOBER 1995 SITE ACTIVITIES: METHODS, PROCEDURES AND RESULTS

### *Groundwater Elevations*

The depths to the stabilized groundwater levels were measured in all the wells on October 30, 1995 (Table 1). The elevations of the groundwater in all of the wells were then calculated based on the surveyed elevations of the tops of the casings.

### *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 October 30, 1995 is shown on Plate 1.

The calculated gradient directions and magnitudes to date for all the dates the water elevations were measured, including the most recent measurement, are summarized in the following table:

**TABLE A**

**History of Site Ground Water Gradient Directions and Magnitudes**

| Date | Gradient Direction | Gradient Magnitude | Comments |
|---|---|---|---|
| 10/12/89 | N 72° W | .011 ft/ft | Three wells |
| 11/06/91 | N 82° W | .001 ft/ft | Trough |
| 10/21/92 | N 41° W | .009 ft/ft | |
| 02/25/93 | N 37° W | .009 ft/ft | |
| 04/27/93 | N 32° W | .011 ft/ft | |
| 10/07/93 | N 81° W | .010 ft/ft | Trough |
| 03/28/94 | N 42° W | .010 ft/ft | |
| 04/29/94 | N 79° W | .007 ft/ft | Ridge |
| 06/10/94 | N 49° W | .006 ft/ft | |
| 07/08/94 | Varies | Varies | Complex |
| 07/26/94 | N 51° W | .006 ft/ft | |
| 08/25/94 | N 56° W | .006 ft/ft | |
| 10/27/94 | N 59° W | .006 ft/ft | |
| 01/06/95 | N 51° W | .007 ft/ft | |
| 02/01/95 | N 43° W | .008 ft/ft | |
| 03/29/95 | N 55° W | .008 ft/ft | |
| 10/30/95 | N 61° W | .006 ft/ft | |

The method(s) used to determine these gradient directions were listed in our report for the Second Quarter 1994 (July 15, 1994), and are not repeated here. The average gradient direction and magnitude for all measurements reported were N 55° W at .008 feet/foot.

***Chemical Sampling and Testing***

***Groundwater Sampling*** - Groundwater samples were taken from all five groundwater monitoring wells on October 30, 1995. 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) and Frank Lee and Associates (1993), and Associated Terra Consultants, Inc. (1994a), and is not repeated here.

***Laboratory Testing*** - Laboratory testing was performed to help determine the presence and quantity of contamination in the groundwater samples recovered. All the groundwater samples were analyzed for TPHg with BTEX and MTBE distinctions. For this testing we used Chromalab in Pleasanton, California, which is EPA-certified for these analyses. All samples were tracked under chain-of-custody documentation from sample collection to receipt by the laboratory. All laboratory testing of the samples was performed within the specified holding times. For the laboratory analyses of the samples, spike recoveries were considered acceptable. The laboratory analyses, 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.

***Results of Chemical Testing*** - TPHg, BTEX and MTBE were not detected in monitoring well MW-5, and the concentrations of the constituents that were detected in MW-4 were very low. These results are consistent with previous samplings of MW-4 and MW-5. Low levels of these substances were detected in MW-1, which is consistent with most previous samplings of this well. The levels in MW-2 and MW-3 are similar to the results from previous samplings, which have consistently shown the presence of higher levels that the other wells.

## INTERPRETATION OF DATA

### *Hydrogeology*

1. The groundwater gradient direction and magnitude has been somewhat complex at times, but has been relatively consistently to the northwest. The data to date indicate little difference in the gradient directions and magnitudes with seasonal changes in precipitation.

### *Levels of Contamination*

2. Table 2 shows that the highest levels of contamination have thus far consistently been measured in MW-2 and MW-3. The levels of TPHg and BTEX have been decreasing

steadily in MW-2 until this last sampling. The levels in MW-3 also have declined significantly, but showed some increase in the last samplings.

## RECOMMENDATIONS FOR NEXT ACTION

1. The preponderance of gradient information to date indicates that a portion of the contaminant plume may be located to the northwest of the site. This information indicates that a well should be installed in the approximate average down-gradient direction, in the vicinity of the north corner of Franklin and Eighth Streets.

2. We feel that the groundwater in monitoring wells MW-4 and MW-5 need not be sampled and tested as frequently as the other existing wells due to the consistently very low to "ND" levels of the analytes tested for in these wells, and that annual sampling and testing of these wells will be adequate. We recommend that the gradient direction and magnitude at the project site continue to be measured quarterly, and that the ground water in MW-1, MW-2 and MW-3 be sampled and tested for TPHg, BTEX and MTBE at least semi-annually, and in the new well once it is installed as recommended above, and that 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 practices. The conclusions and recommendations contained in this report have resulted from Engineering Geologic and Hydrogeologic analyses based upon our interpretations of the surface and subsurface soils and geologic conditions reported by others in their borings at locations chosen by them at the project site, and that the soils conditions and geologic conditions at the project site 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.*


Rick Haltenhoff
Certified Hydrogeologist 244
Certified Engineering Geologist 1038

Attachments as shown on "Table of Contents".

## REFERENCES

Associated Terra Consultants, Inc., 1994a, 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 (April 8, 1994).

_____, 1994b, Environmental monitoring report, Second Quarter 1994, 800 Franklin Street (STID #37), Oakland, California: Los Gatos, California, an unpublished report for Mr. Tommy Chiu, Oakland, California (July 15, 1994).

_____, 1994c, Report of sampling and testing results, Third Quarter 1994, STID #37, 800 Franklin Street, Oakland, California: Los Gatos, California, an unpublished letter report for Mr. Tommy Chiu, Oakland, California (November 17, 1994).

_____, 1995, Report of sampling and testing results, Fourth Quarter 1994, STID #37, 800 Franklin Street, Oakland, California: Los Gatos, California, an unpublished letter report for Mr. Tommy Chiu, Oakland, California (March 29, 1995).

Frank Lee and Associates, 1993, Transmittal of testing results, former service station, 800 Franklin Street, Oakland, California: Los Gatos, California, an unpublished letter for Mr. Tommy Chiu, Oakland, California.

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.

_____, 1993a, Quarterly monitoring of wells, fourth quarter 1992, 800 Franklin Street, Oakland, California: an unpublished report for Mr. Tommy Chiu of Continental Homes, Inc., Oakland, California.

_____, 1993b, Quarterly monitoring of wells, first quarter 1993, 800 Franklin Street, Oakland, California: an unpublished report for Mr. Tommy Chiu of Continental Homes, Inc., Oakland, California.

Miller Environmental Company, 1992, Report on subsurface investigation related to well installation and borings, 800 Franklin Street, Oakland, CA: Richmond, California, an unpublished report for Mr. Tommy Chiu of the Montclair Valle Vista Partnership, Oakland California.

File No: 124574 November 30, 1995

TABLE 1

**COMPILATION OF**

**GROUNDWATER ELEVATIONS IN GROUNDWATER MONITORING WELLS**

800 Franklin Street, Oakland, California

| Well | Top of Casing | 10/12/89 | 11/6/91@ | 10/21/92 | 02/25/93 | 04/27/93 | 10/07/93 | 03/28/94 | 04/29/94 | 06/10/94 | 07/08/94 | 07/26/94 | 08/25/94 | 10/27/94 | 01/06/95 | 02/01/95 | 03/29/95 | 10/31/95 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW1** | 33.42 | 10.55 | NA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 34.89# | - | - | 11.41 | 12.38 | 12.53 | 12.10 | | - | - | - | - | - | - | - | - | - | |
| | 33.98 | - | - | - | - | - | - | 11.91 | NA | 11.66 | 11.62 | 11.48 | 11.47 | 11.47 | 12.08 | 12.79 | 12.75 | 12.48 |
| **MW2** | 33.66 | 10.40 | 9.64 | 11.24 | 12.16 | 12.40 | 12.04 | 11.88 | 11.87 | 11.44 | 11.42 | 11.22 | 11.01 | 11.00 | 11.66 | 12.21 | 12.66 | 11.51 |
| **MW3** | 34.23 | 10.21 | 10.71 | 10.91 | 11.72 | 11.86 | 14.19 | 11.52 | 11.34 | 11.13 | 11.09 | 10.94 | 10.80 | 10.67 | 11.33 | 11.79 | 12.10 | 11.23 |
| **MW4** | 33.64 | * | 10.32 | 11.54 | 12.51 | 12.90 | 12.52 | 12.34 | 11.33 | 11.55 | 11.54 | 11.30 | 11.09 | 10.95 | 11.70 | 12.34 | 12.76 | 11.61 |
| **MW5** | 33.56 | * | 9.56 | 10.32 | 11.16 | 11.41 | 11.06 | 10.95 | 10.91 | 10.68 | 10.60 | 10.45 | 10.28 | 10.06 | 10.78 | 11.25 | 11.63 | 10.64 |

NA - Not available "*" - Did not exist

@ 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.

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, and repaired wellhead of MW1 re-surveyed on 03/28/94 by Geotopo, Oakland, California.

*ASSOCIATED TERRA CONSULTANTS, Inc.*

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 |
|---|---|---|---|---|---|---|---|---|---|---|
| MW1 | 09/21/89 | ND | ND | - | ND | ND | ND | ND | 8.6 | - |
| | 10/31/91 | 0.630 | 1.7 | 0.96 | 0.003 | ND | ND | 0.130 | 0.0098 | - |
| | 10/21/92 | 0.520 | - | - | 0.078 | 0.038 | ND | 0.120 | ND | - |
| | 02/25/93 | 1.600 | - | - | 0.160 | 0.190 | 0.034 | 0.350 | - | - |
| | 04/27/93 | 0.380 | - | - | 0.005 | ND | ND | 0.074 | - | - |
| | 10/07/93 | 1.000 | - | - | 0.081 | 0.150 | 0.047 | 0.230 | - | - |
| | 03/28/94 | 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 | - | .019 |
| MW2 | 09/21/89 | 38.000 | 3.9 | - | 1.300 | 1.200 | ND | 4.700 | ND | - |
| | 10/31/91 | 10.000 | ND | 1.5 | 1.800 | 1.200 | 0.270 | 0.960 | 0.17 | - |
| | 10/21/92 | 270.000 | - | - | 9.700 | 4.540 | 9.600 | 56.000 | 15.4 | - |
| | 02/25/93 | 49.000 | - | - | 4.300 | 11.000 | 1.300 | 9.100 | - | - |
| | 04/27/93 | 39.000 | - | - | 1.400 | 4.000 | 0.220 | 5.200 | - | - |
| | 10/07/93 | 50.000 | - | - | 2.700 | 8.100 | 0.940 | 7.800 | - | - |
| | 03/28/94 | 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 | - | .810 |
| MW3 | 09/21/89 | 87.000 | 4.5 | - | 3.200 | 8.800 | ND | 6.500 | 70 | |
| | 10/31/91 | 310.000 | ND | 25 | 9.300 | 25.000 | 5.600 | 27.000 | 0.058 | - |
| | 10/21/92 | 22.000 | - | - | 10.000 | 4.300 | 0.790 | 2.100 | ND | - |
| | 02/25/93 | 29.000 | - | - | 8.400 | 5.400 | 1.300 | 3.300 | - | - |
| | 04/27/93 | 50.000 | - | - | 8.200 | 8.700 | 1.000 | 5.400 | - | - |
| | 10/07/93 | 1.700 | - | - | 3.100 | 3.700 | 0.400 | 1.700 | - | - |
| | 03/28/94 | 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 | - | .410 |
| MW4 | 10/31/91 | ND | ND | ND | ND | ND | ND | ND | ND | - |
| | 10/21/92 | 0.410 | - | - | 0.003 | 0.029 | 0.007 | 0.047 | ND | - |
| | 02/25/93 | 0.170 | - | - | ND | ND | ND | ND | - | - |
| | 04/27/93 | 0.100 | - | - | ND | ND | ND | 0.001 | - | - |
| | 10/07/93 | 0.240 | - | - | ND | ND | ND | ND | - | - |
| | 03/28/94 | ND | - | - | ND | ND | ND | ND | - | - |
| | 10/27/94 | ND | - | - | ND | ND | ND | ND | - | - |
| | 10/30/95 | 0.080 ↑ | - | - | ND | 0.0006 | ND | 0.001 | - | ND |
| MW5 | 10/31/91 | ND | ND | ND | ND | ND | ND | ND | ND | - |
| | 10/21/92 | 0.840 | - | - | 0.017 | 0.120 | 0.039 | 0.180 | ND | - |
| | 02/25/93 | ND | - | - | ND | ND | ND | ND | - | - |
| | 04/27/93 | 0.260 | - | - | 0.053 | 0.019 | 0.001 | 0.002 | - | - |
| | 10/07/93 | ND | - | - | ND | ND | ND | ND | - | - |
| | 03/28/94 | ND | - | - | ND | ND | ND | ND | - | - |
| | 10/27/94 | ND | - | - | ND | ND | ND | ND | - | - |
| | 10/30/95 | ND | - | - | ND | ND | ND | ND | - | ND |

Also: 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. "-" - 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 reported by KDM Environmental. Testing 10/07/93 reported by Frank Lee & Associates.

# CHROMALAB, INC.

Environmental Services (SDB)


RECEIVED NOV 1 8 1995

November 9, 1995 *Submission #:* 9511047

ASSOCIATED TERRA CONSULTANTS

*Atten:* Nicole Duarte

*Project:* CHIU *Project#:* 124573
*Received:* November 2, 1995

*re:* One sample for Gas/BTEX with Methyl Tert-Butyl Ether analysis.
*Method:* EPA 5030/8015M/602/8020

*SampleID:* **MW1**
*Sample #:* 109132 *Matrix:* WATER
*Sampled:* October 31, 1995 *Run:* 9244-4 *Analyzed:* November 3, 1995

| Analyte | RESULT (ug/L) | REPORTING LIMIT (ug/L) | BLANK RESULT (ug/L) | BLANK SPIKE RESULT (%) |
|---|---|---|---|---|
| GASOLINE | 1400 | 50 | N.D. | 101 |
| *For above analyte:* | *BTE and MTBE detection limit=0.6ug/L, Xylene detection limit=2.5ug/L, and Gasoline detection limit=60ug/L.* | | | |
| BENZENE | 15 | 0.5 | N.D. | 115 |
| TOLUENE | 38 | 0.5 | N.D. | 111 |
| ETHYL BENZENE | 49 | 0.5 | N.D. | 112 |
| XYLENES | 510 | 0.5 | N.D. | 111 |
| MTBE | 19 | 0.5 | N.D. | -- |

Jaspal Singh
Chemist

Eric Tam
Laboratory Director


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Federal ID #68-0140157

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*Atten:* Nicole Duarte

*Project:* CHIU *Project#:* 124573
*Received:* November 2, 1995

*re:* One sample for Gas/BTEX with Methyl Tert-Butyl Ether analysis.
*Method:* EPA 5030/8015M/602/8020

*SampleID:* **MW2**
*Sample #:* 109133 *Matrix:* WATER
*Sampled:* October 31, 1995 *Run:* 9244-4 *Analyzed:* November 3, 1995

| Analyte | RESULT (ug/L) | REPORTING LIMIT (ug/L) | BLANK RESULT (ug/L) | BLANK SPIKE RESULT (%) |
|---|---|---|---|---|
| GASOLINE | 45000 | 50 | N.D. | 101 |
| *For above analyte:* | *BTEX detection limit=35.7ug/L and Gasoline detection limit=3570ug/L.* | | | |
| BENZENE | 3100 | 0.5 | N.D. | 115 |
| TOLUENE | 8800 | 0.5 | N.D. | 111 |
| ETHYL BENZENE | 1200 | 0.5 | N.D. | 112 |
| XYLENES | 8400 | 0.5 | N.D. | 111 |
| MTBE | 810 | 0.5 | N.D. | -- |

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*Atten:* Nicole Duarte

*Project:* CHIU *Project#:* 124573
*Received:* November 2, 1995

*re:* One sample for Gas/BTEX with Methyl Tert-Butyl Ether analysis.
*Method:* EPA 5030/8015M/602/8020

*SampleID:* **MW3**
*Sample #:* 109134 *Matrix:* WATER
*Sampled:* October 31, 1995 *Run:* 9244-4 *Analyzed:* November 3, 1995

| Analyte | RESULT (ug/L) | REPORTING LIMIT (ug/L) | BLANK RESULT (ug/L) | BLANK SPIKE RESULT (%) |
|---|---|---|---|---|
| GASOLINE | 19000 | 50 | N.D. | 101 |
| *For above analyte:* | *BTEX detection limit=25ug/L and Gasoline detection limit=2500ug/L.* | | | |
| BENZENE | 4400 | 0.5 | N.D. | 115 |
| TOLUENE | 4600 | 0.5 | N.D. | 111 |
| ETHYL BENZENE | 720 | 0.5 | N.D. | 112 |
| XYLENES | 2900 | 0.5 | N.D. | 111 |
| MTBE | 410 | 0.5 | N.D. | -- |

Jaspal Singh
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Eric Tam
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*Atten:* Nicole Duarte

*Project:* CHIU *Project#:* 124573
*Received:* November 2, 1995

*re:* One sample for Gas/BTEX with Methyl Tert-Butyl Ether analysis.
*Method:* EPA 5030/8015M/602/8020

*SampleID:* **MW4**
*Sample #:* 109135 *Matrix:* WATER
*Sampled:* October 31, 1995 *Run:* 9244-4 *Analyzed:* November 3, 1995

| Analyte | RESULT (ug/L) | REPORTING LIMIT (ug/L) | BLANK RESULT (ug/L) | BLANK SPIKE RESULT (%) |
|---|---|---|---|---|
| GASOLINE | 80 | 50 | N.D. | 101 |
| BENZENE | N.D. | 0.5 | N.D. | 115 |
| TOLUENE | 0.6 | 0.5 | N.D. | 111 |
| ETHYL BENZENE | N.D. | 0.5 | N.D. | 112 |
| XYLENES | 1.0 | 0.5 | N.D. | 111 |
| MTBE | N.D. | 0.5 | N.D. | -- |

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ASSOCIATED TERRA CONSULTANTS

*Atten:* Nicole Duarte

*Project:* CHIU *Project#:* 124573
*Received:* November 2, 1995

*re:* One sample for Gas/BTEX with Methyl Tert-Butyl Ether analysis.
*Method:* EPA 5030/8015M/602/8020

*SampleID:* **MW5**
*Sample #:* 109136 *Matrix:* WATER
*Sampled:* October 31, 1995 *Run:* 9244-4 *Analyzed:* November 3, 1995

| Analyte | RESULT (ug/L) | REPORTING LIMIT (ug/L) | BLANK RESULT (ug/L) | BLANK SPIKE RESULT (%) |
|---|---|---|---|---|
| GASOLINE | N.D. | 50 | N.D. | 101 |
| BENZENE | N.D. | 0.5 | N.D. | 115 |
| TOLUENE | N.D. | 0.5 | N.D. | 111 |
| ETHYL BENZENE | N.D. | 0.5 | N.D. | 112 |
| XYLENES | N.D. | 0.5 | N.D. | 111 |
| MTBE | N.D. | 0.5 | N.D. | -- |

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047/109132-109136

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*ASSOCIATED TERRA CONSULTANTS, Inc.*

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# CHAIN OF CUSTODY

SUBN #: 9511047 REP: GC
CLIENT: ASSTER
DUE: 11/09/95
REF #:24769

| Job Name: | Job Number | Sampling Round Number: |
|---|---|---|
| CHIU | 124573 | |

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW1 | 951031 | N/A | $H_2O$ | VOA VIAL | N/A | 5 DAY | | | X | | | | | | | | | | | | | | | | | | | 3 |
| MW2 | | | | | | | | | X | | | | | | | | | | | | | | | | | | | 3 |
| MW3 | | | | | | | | | X | | | | | | | | | | | | | | | | | | | 3 |
| MW4 | | | | | | | | | X | | | | | | | | | | | | | | | | | | | 3 |
| MW5 | | | | | | | | | X | | | | | | | | | | | | | | | | | | | 3 |

| Relinquished by: (signature/date/time) (1) | Relinquished by: (signature/date/time) (2) | Relinquished by: (signature/date/time) (3) |
|---|---|---|
| 951102.1623 | | |
| Received by: (signature) | Received by: (signature) | Received by: (signature) |
| Gary Cook 951102 16:23 | | |

| SAMPLE RECEIPT- Field To Office | | SAMPLE RECEIPT - Laboratory | | COMMENTS: |
|---|---|---|---|---|
| Total No. of Containers | 15 | Total No. of Containers | | |
| 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 | | PROJ. MANAGER NICOLE DUARTE |