TANK PROTECT ENGINEERING
of Northern California, Inc.



Revised September 11, 1997

August 12, 1997

Messrs. Aaron and Stanley Wong
2200 E. 12th Street
Oakland, CA 94606

Re: Second Quarter Report, 1997, Credit World Auto Sales, 2345 E. 14th Street, Oakland, CA 94601

Dear Messrs. Wong:

Tank Protect Engineering of Northern California, Inc. (TPE) is pleased to submit this quarterly letter report of environmental services conducted at the subject site. Previous work conducted prior to January 1, 1997 is summarized in TPE's January 10, 1997 Fourth Quarter Report, 1996, Credit World Auto Sales, 2345 E. 14th Street, Oakland, CA 94601. Work conducted after January 1, 1997 is summarized and work conducted during the subject quarter is presented in detail.

Work performed by TPE during first quarter, 1997

- January 10, 1997 - Submitted a Fourth Quarter Report, 1996, Credit World Auto Sales, 2345 E. 14th Street, Oakland, CA 94601 to Messrs. Wong for their approval and delivery to the Alameda County Health Care Services Agency (ACHCSA).

- February 2, 1997 - Submitted an Addendum to August 4, 1995, Credit World Auto Sales, 2345 E. 14th Street, Oakland, CA 94601 to Messrs. Wong for their approval and delivery to ACHCSA.

- February 10, 1997 - ACHCSA approves the addendum to the workplan.

- March 6, 1997 - Supervised the removal of 400 gallons of hydrocarbon contaminated groundwater stored in drums.

- March 7 and 10, 1997 - Measured depth-to-groundwater and free product thickness in wells MW-1 through TMW-5 for evaluation of groundwater flow direction and gradient and collected groundwater samples from wells MW-1 through TMW-5 for analysis for total petroleum hydrocarbons as gasoline (TPHG) and methyl t-buty ether, benzene, toluene, ethyl benzene and xylene (MBTEX). Additionally, a trip blank was analyzed for TPHG and MBTEX.

WORK PERFORMED BY TPE DURING SECOND QUARTER, 1997

- April 7, 1997 - Submitted a First Quarter Report, 1997, Credit World Auto Sales, 2345 E. 14th Street, Oakland, CA 94601 to Messrs. Wong for their approval and delivery to the Alameda County Health Care Services Agency (ACHCSA).

- April 21 and May 1, 1997 - Drilled 5 soil borings for the collection of soil and groundwater samples to investigate the horizontal extent of groundwater contamination.

- June 3, 1997 - Submitted a Site Assessment Report Credit World Auto Sales, 2345 E. 14th Street, Oakland, CA 94601 providing results of the soil boring program.

- June 12, 1997 - ACHCSA submits a letter requesting a workplan to enhance bioremediation.

- June 27 and 28, 1997 - Measured depth-to-groundwater and free product thickness in wells MW-1 through TMW-4 for evaluation of groundwater

flow direction and gradient and collected groundwater samples from wells MW-1 through TMW-4 for analysis for TPHG and MBTEX.

Details of work conducted during the second quarter are presented below.

Site Activities

On June 12, 1997 ACHCSA issued a letter requesting additional analysis of groundwater parameters in order to determine the proper method or methods in which to enhance bioremediation at the site. ACHCSA agreed to continue quarterly monitoring (see attached).

Groundwater Gradient

On June 26, 1997 a TPE representative loosened well caps on all wells to allow groundwater levels to stabilize to atmospheric pressure within the wells prior to making depth-to-groundwater measurements for evaluation of groundwater flow direction and gradient.

On June 27 and June 28, 1997 depth-to-groundwater was measured from the top of casing (TOC) in all wells to the nearest 0.01 foot using an electronic Keck Instrument, Inc., KIR-89 interface probe. A minimum of 3 repetitive measurements were made for each level determination to ensure accuracy. Depth-to-groundwater was subtracted from the TOC elevation, measured relative to mean sea level, to calculate the elevation of the groundwater level in each well (see attached Table 1). When floating product was present, the groundwater elevation was corrected by multiplying the floating product thickness by a density of .75 and adding the resultant value to the groundwater elevation. Field measurements using the interface probe during this quarterly monitoring period, did not match measurements taken from bailer. Water levels shown in table 1 were adjusted according to field observations.

Attached Figure 1 is a groundwater gradient map constructed from the data collected on June 27, 1997. Groundwater flow direction was to the north-northwest with a gradient about .027-.040 feet per foot, respectively. Average groundwater elevations,

changes in average groundwater elevations, groundwater gradients, and groundwater flow directions are tabulated in attached Table 2.

Groundwater Sampling and Analytical Results

On June 27 and 28, 1997 groundwater samples were collected from groundwater monitoring wells MW-1 through TMW-4. Monitoring well TMW-5 was obstructed by construction debris. Before sampling, the wells were purged of about 35 to 42 liters of water with dedicated polyethylene bailers and until the temperature, conductivity, and pH of the water in the wells had stabilized (see attached Records of Water Sampling). Since dedicated bailers were used for each well sampled, no decontamination was necessary between sampling events. The water samples were collected in laboratory provided, sterilized, 40-milliliter glass vials having Teflon-lined screw caps; measured for turbidity and labeled with project name, date, time collected, sample number, and sampler name. The samples were immediately stored in an iced-cooler for transport to California State Department of Health Services (DHS) certified Entech Analytical Labs, Inc., located in Sunnyvale, California accompanied by chain-of-custody documentation.

All groundwater samples, were analyzed for TPHG by the United States Environmental Protection Agency (EPA) Method 8015M and for MBTEX by the Modified EPA Method 8020.

Floating product was measured in all of the monitoring wells, except TMW-4 during this quarterly period. Attached Table 3 summarizes the thickness of floating product measured in each well. Hydrocarbon odor and/or sheen were observed in all wells, except TMW-4.

Purge water was stored on site in 55-gallon drums labeled to show material stored, known or suspected chemical contaminant, date filled, expected removal date, company name, contact person, and telephone number.

See attached protocols for TPE's sample handling, groundwater monitoring well sampling, and quality assurance and quality control procedures.

TPHG was detected in wells MW-1, MW-2, and MW-3, at concentrations of 54,000 parts per billion (ppb), 12,000 ppb, and 15,000 ppb, respectively. Well TMW-4 was nondetectable for TPHG and MBTEX. MTBE was nondetectable in all wells. Some or all BTEX chemicals also were detected. The reader is referred to Table 4 for a summary of BTEX chemical concentrations.

All analytical results are summarized in attached Table 4 and documented in an attached certified analytical report and a chain-of-custody.

## RECOMMENDATIONS

During the next quarterly monitoring event, TPE will monitor the wells for the additional requested analyses and will submit a workplan for the enhancement of bioremediation in the near future.

Floating product was measured in MW-1, MW-2 and MW-3. Based on field observations, floating product was not observed in well TMW-4.

TPE recommends that quarterly groundwater sampling of all 5 groundwater monitoring wells be continued to evaluate gradient, to monitor contaminant concentrations and to continue removal of free product from the wells. Concentrations of TPHG and MBTEX remained consistent in all wells.

The next sampling event is due on about September 19, 1997.

An additional copy of this report has been included for your delivery to:

Mr. Barney Chan
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

TPE recommends that this quarterly report be submitted with a signed cover letter from Messrs. Aaron and Stanley Wong.

If you have any questions, please call TPE at (510) 429-8088.

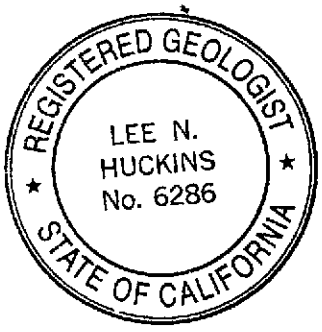
Sincerely,

Frederick G. Moss, P.E.
Registered Engineer

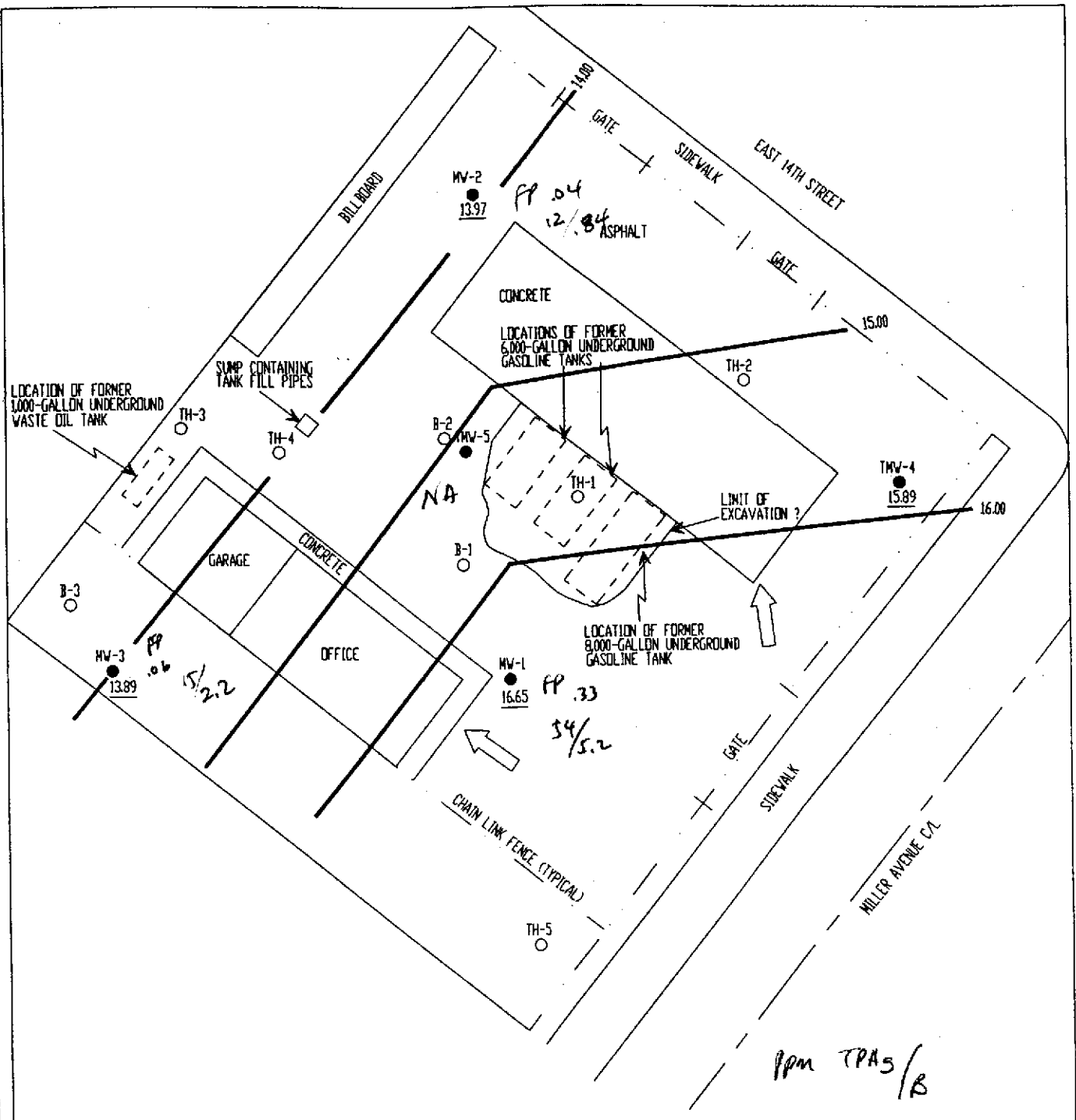
Jeff Farhoomand, M.S.
Principal Engineer


Reviewed by:

Lee N. Huckins
Registered Geologist




Expiration Date 5/31/99




NOTE: REVISED SEPTEMBER 10, 1997

## LEGEND

| | |
|---|---|
| TMW-4 ● | NAME AND LOCATION OF MONITORING WELL INSTALLED BY TPE |
| MW-1 ● | NAME AND LOCATION OF MONITORING WELL INSTALLED BY OTHERS |
| B-1 ○ | NAME AND APPROXIMATE LOCATION OF SOIL BORING DRILLED BY OTHERS |
| 15.71 | POTENTIOMETRIC ELEVATION |
| 15.50 | POTENTIOMETRIC CONTOUR |
| | GROUNDWATER FLOW DIRECTION |

-N-

0 30

SCALE IN FEET

# TANK PROTECT ENGINEERING

SITE PLAN:
GROUNDWATER GRADIENT MAP (06/27/97)

CREDIT WORLD AUTO SALES
2345 E. 14TH STREET
OAKLAND, CA 94601

| | |
|---|---|
| DATE | 9/10/97 |
| FIGURE | 1 |
| FILE # | 267-3-N |
| DRAWN BY | VK |
| CHECKED BY | LNH |

# TABLE 1
# GROUNDWATER ELEVATION

| Well Name | Date | TOC[1] Elevation (Feet MSL[4]) | Depth-to-Water From TOC (Feet) | Depth to Product From TOC (Feet) | Corrected[3] Groundwater Elevation (Feet MSL) |
|---|---|---|---|---|---|
| MW-1 | 08/23/91[5] | 100.00[2] | 15.42 | NA[9] | 84.58 |
| | 04/16/92[6] | 27.33[7] | 16.66 | 11.54 | 14.51[8] |
| | 06/11/93 | | 12.61 | 12.60 | 14.73 |
| | 08/17/93 | | 14.40 | 13.63 | 13.50[7] |
| | 03/31/94 | | 12.64 | ND | 14.69 |
| | 06/27/94 | | 14.32 | 13.16 | 13.88 |
| | 09/16/94 | | 15.86 | 13.64 | 13.14 |
| | 03/31/95 | | 11.82 | 9.48 | 17.27 |
| | 06/28/95 | | 13.50 | 12.60 | 14.51 |
| | 09/28/95 | | 14.27 | 13.96 | 13.29 |
| | 12/26/95 | | 11.77 | 11.62 | 15.67 |
| | 03/22/96 | | 10.52 | 10.44 | 16.87 |
| | 06/20/96 | | 13.38 | 12.49 | 14.63 |
| | 09/24/96 | | 14.60 | 13.40 | 13.63 |
| | 12/27/96 | | 9.17 | 9.08 | 18.23 |
| | 03/06/97 | | 12.35 | ND | 14.98 |
| | 06/28/97 | | 10.93 | 10.60 | 16.65 |
| MW-2 | 08/23/91[5] | 98.585[2] | 13.77 | NA | 84.815 |
| | 04/16/92[6] | 25.92[7] | 15.38 | 12.57 | 12.65[8] |
| | 06/11/93 | | 13.185 | ND[10] | 12.74 |
| | 08/17/93 | | 14.04 | 14.03 | 11.89 |
| | 03/31/94 | | 13.61 | 13.07 | 12.72[8] |
| | 06/27/94 | | 14.24 | 13.44 | 12.28 |
| | 09/16/94 | | 17.82 | 13.36 | 11.45 |
| | 03/31/95 | | 16.72 | 9.28 | 14.78 |
| | 06/28/95 | | 13.50 | 12.77 | 12.97 |
| | 09/28/95 | | 14.63 | 14.09 | 11.70 |
| | 12/26/95 | | 12.58 | 11.68 | 14.01 |

TABLE 1
GROUNDWATER ELEVATION

| Well Name | Date | TOC[1] Elevation (Feet MSL[4]) | Depth-to-Water From TOC (Feet) | Depth to Product From TOC (Feet) | Corrected[3] Groundwater Elevation (Feet MSL) |
|---|---|---|---|---|---|
| MW-2 | 03/22/96 | | 11.46 | 11.31 | 14.57 |
| | 06/20/96 | | 13.08 | 12.71 | 13.12 |
| | 09/30/96 | | 16.67 | 12.92 | 12.06 |
| | 12/27/96 | | 15.74 | 8.17 | 15.86 |
| | 03/06/97 | | 12.55 | ND | 13.37 |
| | 06/28/97 | | 11.98 | 11.94 | 13.97 |
| MW-3 | 08/23/91[5] | 99.25[2] | 15.07 | NA | 84.18 |
| | 04/16/92[6] | 27.57[7] | 14.14 | 13.98 | 13.55[8] |
| | 06/11/93 | | 14.275 | ND | 13.30 |
| | 08/17/93 | | 15.77 | ND | 11.80 |
| | 03/31/94 | | 14.35 | ND | 13.22 |
| | 06/27/94 | | 14.77 | ND | 12.80 |
| | 09/16/94 | | 15.42 | 15.37 | 12.19 |
| | 03/31/95 | | 12.98 | 12.52 | 14.94 |
| | 06/28/95 | | 14.20 | 14.15 | 13.41 |
| | 09/28/95 | | 15.17 | ND | 12.40 |
| | 12/26/95 | | 13.33 | 13.27 | 14.28 |
| | 03/22/96 | | 12.81 | 12.77 | 14.79 |
| | 06/20/96 | | 13.95 | 13.88 | 13.67 |
| | 09/24/96 | | 14.86 | 14.82 | 12.74 |
| | 12/27/96 | | 11.04 | 10.98 | 16.58 |
| | 03/07/97 | | 13.80 | ND | 13.77 |
| | 06/28/97 | | 13.72 | 13.66 | 13.89 |
| TMW-4 | 08/17/93 | 26.50[7] | 13.26 | ND | 13.24 |
| | 03/31/94 | | 12.40 | ND | 14.10 |
| | 06/27/94 | | 12.84 | ND | 13.66 |
| | 09/16/94 | | 13.58 | ND | 12.92 |
| | 03/31/95 | | 10.23 | ND | 16.27 |

TABLE 1
GROUNDWATER ELEVATION

| Well Name | Date | TOC[1] Elevation (Feet MSL[4]) | Depth-to-Water From TOC (Feet) | Depth to Product From TOC (Feet) | Corrected[3] Groundwater Elevation (Feet MSL) |
|---|---|---|---|---|---|
| TMW-4 | 06/28/95 | 26.50[7] | 12.21 | ND | 14.29 |
| | 09/28/95 | | 13.38 | ND | 13.12 |
| | 12/26/95 | | 11.32 | ND | 15.18 |
| | 03/22/96 | | 10.54 | ND | 15.96 |
| | 06/20/96 | | 12.14 | ND | 14.36 |
| | 09/24/96 | | 13.01 | ND | 13.49 |
| | 12/27/96 | | 9.51 | ND | 16.99 |
| | 03/07/97 | | 11.92 | ND | 14.58 |
| | 06/28/97 | | 10.70 | ND | 15.80 |
| TMW-5 | 08/17/93 | 26.51[7] | 12.98 | 12.95 | 13.55 |
| | 03/31/94 | | 11.39 | ND | 15.12 |
| | 06/27/94 | | 12.24 | ND | 14.27 |
| | 09/16/94 | | 13.02 | 12.97 | 13.53 |
| | 03/31/95 | | 7.38 | ND | 19.13 |
| | 06/28/95 | | 11.31 | 11.25 | 15.25 |
| | 09/28/95 | | 14.42 | ND | 12.09 |
| | 12/26/95 | | 10.16 | 10.11 | 16.38 |
| | 03/22/96 | | 7.59 | 7.54 | 18.96 |
| | 06/26/96[11] | | 7.12 | ND | NA |
| | 09/30/96[11] | | 7.42 | ND[10] | NA[9] |
| | 12/27/96[11] | | 6.38 | ND | NA |
| | 03/07/97[11] | | 11.12 | ND | NA |
| | 06/28/97[12] | | NM[12] | NM[12] | --- |

1 TOP-OF-CASING.
2 RELATIVE TO SITE DATUM ESTABLISHED BY ESE.
3 ELEVATION CORRECTED FOR FLOATING PRODUCT USING 0.75 DENSITY FOR GASOLINE.
4 MEAN SEA LEVEL.
5 WATER LEVEL MEASUREMENTS BY ESE.
6 WATER LEVEL MEASUREMENTS BY NKJ.

[7] TOC SURVEYED 8/10/93 BY PROFESSIONAL ENGINEER.
[8] CORRECTED GROUNDWATER ELEVATION BY TANK PROTECT ENGINEERING
[8] CORRECTED GROUNDWATER ELEVATION BY TANK PROTECT ENGINEERING.
[9] NOT AVAILABLE.
[10] NOT DETECTED.
[11] WELL TOP DESTROYED DURING REMEDIATION
[12] NOT MEASURED - WELL OBSTRUCTED

# TABLE 2
# GROUNDWATER GRADIENTS, FLOW DIRECTIONS, AND ELEVATION DATA

| Date | Average Groundwater Elevation (Feet-MSL[1]) | Change in Average Groundwater Elevation (Feet) | Groundwater Gradient | Groundwater Flow Direction |
|---|---|---|---|---|
| 04/16/92 | 13.57 | --- | .021 | NW |
| 06/11/93 | 13.59 | 0.02 | .026 | NW |
| 08/17/93 | 12.80 | -0.79 | .029 | RADIAL |
| 03/31/94 | 13.97 | +1.17 | .050 | RADIAL |
| 06/27/94 | 13.38 | -0.59 | .020 | RADIAL |
| 09/16/94 | 12.65 | -0.73 | .0179-.0411 | RADIAL |
| 03/31/95 | 16.48 | +3.83 | .075 | RADIAL |
| 06/28/95 | 14.09 | -2.39 | .025-.053 | RADIAL |
| 09/28/95 | 12.52 | -1.57 | .025 | NW |
| 12/26/95 | 15.09 | +2.57 | .048 | RADIAL |
| 03/22/96 | 16.23 | +1.14 | .034-.132 | RADIAL |
| 06/20/96[2] | 13.95 | -2.28 | .016 | NW |
| 09/30/96[2] | 12.98 | -0.97 | .019 | NW |
| 12/27/96[2] | 16.41 | +3.43 | .024-.029 | N-NW |
| 03/07/97[2] | 14.18 | -2.23 | .020-.035 | N-NW |
| 06/28/97[2] | 15.07 | +.89 | .027-.04 | NW |

[1] MEAN SEA LEVEL.

[2] DOES NOT INCLUDE DATA FOR TMW-5; WELL TOP DESTROYED DURING REMEDIATION ACTIVITIES.

# TABLE 3
# SUMMARY OF FLOATING PRODUCT THICKNESS

| Well Name | Date | Depth-to-Water From TOC[1] (Feet) | Depth-to-Product From TOC (Feet) | Product Thickness (Feet) |
|---|---|---|---|---|
| MW-1 | 04/16/92[2] | 16.66 | 11.54 | 5.12 |
| | 06/11/93 | 12.61 | 12.60 | 0.01 |
| | 08/17/93 | 14.40 | 13.63 | 0.77 |
| | 03/31/94 | 12.64 | ND | --- |
| | 06/27/94 | 14.32 | 13.16 | 1.16 |
| | 09/16/94 | 15.86 | 13.64 | 2.22 |
| | 03/31/95 | 11.82 | 9.48 | 2.34 |
| | 06/28/95 | 13.50 | 12.60 | 0.90 |
| | 09/28/95 | 14.27 | 13.96 | 0.31 |
| | 12/26/95 | 11.77 | 11.62 | 0.15 |
| | 03/22/96 | 10.52 | 10.44 | 0.08 |
| | 06/20/96 | 13.38 | 12.49 | 0.089 |
| | 09/24/96 | 14.60 | 13.40 | 1.20 |
| | 12/27/96 | 9.17 | 9.08 | 0.09 |
| | 03/06/97 | 12.35 | ND | --- |
| | 06/28/97 | 10.93 | 10.60 | 0.33 |
| MW-2 | 04/16/92[2] | 15.38 | 12.57 | 2.81 |
| | 06/11/93 | 13.185 | ND[3] | --- |
| | 08/17/93 | 14.04 | 14.03 | 0.01 |
| | 03/31/94 | 13.61 | 13.07 | 0.54 |
| | 06/27/94 | 14.24 | 13.44 | 0.80 |
| | 09/16/94 | 17.82 | 13.36 | 4.46 |
| | 03/31/95 | 16.72 | 9.28 | 7.44 |
| | 06/28/95 | 13.50 | 12.77 | 0.73 |
| | 09/28/95 | 14.63 | 14.09 | 0.54 |
| | 12/26/95 | 12.58 | 11.68 | 0.90 |
| | 03/22/96 | 11.46 | 11.31 | 0.15 |
| | 06/20/96 | 13.08 | 12.71 | 0.37 |

# TABLE 3
## SUMMARY OF FLOATING PRODUCT THICKNESS

| Well Name | Date | Depth-to-Water From TOC[1] (Feet) | Depth-to-Product From TOC (Feet) | Product Thickness (Feet) |
|---|---|---|---|---|
| MW-2 | 09/30/96 | 16.67 | 12.92 | 3.75 |
| | 12/27/96 | 15.74 | 8.17 | 7.57 |
| | 03/06/97 | 12.55 | ND | --- |
| | 06/28/97 | 11.98 | 11.94 | 0.04 |
| MW-3 | 04/16/92[2] | 14.14 | 13.98 | 0.16 |
| | 06/11/93 | 14.275 | ND | --- |
| | 08/17/93 | 15.77 | ND | --- |
| | 03/31/94 | 14.35 | ND | --- |
| | 06/27/94 | 14.77 | ND | |
| | 09/16/94 | 15.42 | 15.37 | |
| | 03/31/95 | 12.98 | 12.52 | 0.46 |
| | 06/28/95 | 14.20 | 14.15 | 0.05 |
| | 09/28/95 | 15.7 | ND | -- |
| | 12/26/95 | 13.33 | 13.27 | 0.06 |
| | 03/22/96 | 12.81 | 12.77 | 0.04 |
| | 06/20/96 | 13.95 | 13.88 | 0.07 |
| | 09/24/96 | 14.86 | 14.82 | 0.04 |
| | 12/27/96 | 11.04 | 10.98 | 0.06 |
| | 03/07/97 | 13.80 | ND | --- |
| | 06/28/97 | 13.72 | 13.66 | 0.06 |
| TMW-4 | 08/17/93 | 13.26 | ND | --- |
| | 03/31/94 | 12.40 | ND | --- |
| | 06/27/94 | 12.84 | ND | --- |
| | 09/16/94 | 13.58 | ND | --- |
| | 03/31/95 | 10.23 | ND | --- |
| | 06/28/95 | 12.21 | ND | --- |
| | 09/28/95 | 13.38 | ND | --- |
| | 12/26/95 | 11.32 | ND | --- |

TABLE 3
SUMMARY OF FLOATING PRODUCT THICKNESS

| Well Name | Date | Depth-to-Water From TOC[1] (Feet) | Depth-to-Product From TOC (Feet) | Product Thickness (Feet) |
|---|---|---|---|---|
| | 03/22/96 | 10.54 | ND | --- |
| | 06/20/96 | 12.14 | ND | --- |
| TMW-4 | 09/24/96 | 13.01 | ND | --- |
| | 12/27/96 | 9.51 | ND | --- |
| | 03/07/97 | 11.92 | ND | --- |
| | 06/28/97 | 10.70 | ND | --- |
| TMW-5 | 08/17/93 | 12.98 | 12.95 | 0.03 |
| | 03/31/94 | 11.39 | ND | --- |
| | 06/27/94 | 12.24 | ND | --- |
| | 09/16/94 | 13.02 | 12.97 | 0.05 |
| | 03/31/95 | 7.38 | ND | --- |
| | 06/28/95 | 11.31 | 11.25 | 0.06 |
| | 09/28/95 | 14.42 | ND | --- |
| | 12/26/95 | 10.16 | 10.11 | 0.05 |
| | 03/22/96 | 7.59 | 7.54 | 0.05 |
| | 06/20/96[11] | 7.12 | ND | --- |
| | 09/30/96[11] | 7.42 | ND | --- |
| | 12/27/96[11] | 6.38 | ND | --- |
| | 03/07/97[11] | 11.12 | ND | --- |
| | 06/28/97[12] | NM[12] | NM[12] | --- |

[1] TOP-OF-CASING.
[2] RELATIVE TO SITE DATUM ESTABLISHED BY ESE.
[3] ELEVATION CORRECTED FOR FLOATING PRODUCT USING 0.75 DENSITY FOR GASOLINE.
[4] MEAN SEA LEVEL
[5] WATER LEVEL MEASUREMENTS BY ESE.
[6] WATER LEVEL MEASUREMENTS BY NKJ.
[7] TOC SURVEYED 8/10/93 BY PROFESSIONAL ENGINEER.
[8] CORRECTED GROUNDWATER ELEVATION BY TANK PROTECT ENGINEERING.
[9] NOT AVAILABLE.
[10] NOT DETECTED.
[11] WELL TOP DESTROYED DURING REMEDIATION
[12] NOT MEASURED - WELL OBSTRUCTED

TABLE 4
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
(ppb[1])

| Sample ID Name | Date | TPHG | Methyl t-Butyl Ether | Benzene | Toluene | Ethyl-benzene | Xylenes |
|---|---|---|---|---|---|---|---|
| MW-1 | 08/17/93 | 110,000 | NA[2] | 270 | 690 | 730 | 3,100 |
| | 03/28/94 | 34,000 | NA | 4,900 | 1,800 | 1,200 | 4,000 |
| | 06/27/94 | 21,000 | NA | 12,000 | 810 | 760 | 2,500 |
| | 09/16/94 | 37,000 | NA | 7,900 | 2,400 | 1,300 | 3,300 |
| | 03/31/95 | 43,000 | NA | 8,100 | 1,900 | 1,000 | 4,200 |
| | 06/28/95 | 80,000 | NA | 7,900 | 3,200 | 1,800 | 7,300 |
| | 09/28/95 | 24,000 | <1,200 | 4,900 | 470 | 470 | 1,700 |
| | 12/26/95 | 61,000 | <1,200 | 12,000 | 4,200 | 1,500 | 5,500 |
| | 03/22/96 | 19,000 | <2,500 | 6,000 | 47 | 260 | <750 |
| | 06/20/96 | 15,000 | 910 | 2,900 | 100 | 240 | 98 |
| | 09/24/96 | 20,000 | 340 | 4,800 | 220 | 300 | 770 |
| | 12/27/96 | 24,000 | <5.0 | 5,900 | 440 | 310 | 740 |
| | 03/07/97 | 30,000 | <5.0 | 5,700 | 370 | 290 | 780 |
| | 06/28/97 | 54,000 | <5.0 | 5,200 | 1,300 | 1,000 | 4,900 |
| MW-2 | 08/17/93 | 49,000 | NA | 94 | 240 | 250 | 980 |
| | 03/28/94 | 14,000 | NA | 4,200 | <250 | 910 | 1,400 |
| | 06/27/94 | 24,000 | NA | 4,400 | 72 | 1,100 | 1,700 |
| | 09/16/94 | 40,000 | NA | 2,300 | 250 | 2,000 | 4,100 |
| | 03/31/95 | 28,000 | NA | 4,000 | <120 | 1,100 | 1,400 |
| | 06/28/95 | 40,000 | NA | 2,700 | 130 | 1,700 | 2,900 |
| | 09/28/95 | 7,500 | <62 | 420 | 14 | 250 | 190 |
| | 12/26/95 | 22,000 | <250 | 1,300 | 88 | 950 | 1,800 |
| | 03/22/96 | 9,800 | <1,200 | 2,200 | <120 | 400 | <380 |
| | 06/20/96 | 35,000 | 550 | 770 | <0.50 | 240 | <0.50 |
| | 09/30/96 | 58,000 | <5.0 | 1,600 | 230 | 2,200 | 4,000 |
| | 12/27/96 | 29,000 | <5.0 | 2,100 | <0.50 | 1,200 | 1,800 |
| | 03/07/97 | 13,000 | <5.0 | 1,300 | 37 | 290 | 180 |
| | 06/28/97 | 12,000 | <5.0 | 840 | <0.50 | 640 | 360 |

TABLE 4
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
(ppb[1])

| Sample ID Name | Date | TPHG | Methyl t-butyl ether | Benzene | Toluene | Ethyl-benzene | Xylenes |
|---|---|---|---|---|---|---|---|
| MW-3 | 08/17/93 | 9,600 | NA | 4.1 | 17 | 28 | 54 |
| | 03/28/94 | 8,400 | NA | 2,400 | 56 | 67 | 200 |
| | 06/27/94 | 9,900 | NA | 3,300 | <22 | <25 | 73 |
| | 09/16/94 | 16,000 | NA | 2,300 | 80 | 620 | 240 |
| | 03/31/95 | 16,000 | NA | 2,800 | 70 | <25 | 920 |
| | 06/28/95 | 11,000 | NA | 2,300 | 32 | 81 | 240 |
| | 09/28/95 | 6,300 | <420 | 1,900 | <42 | 200 | <120 |
| | 12/26/95 | 25,000 | <250 | 3,800 | 97 | 94 | 1,600 |
| | 03/22/96 | 16,000 | 250 | 3,100 | 75 | 69 | 350 |
| | 06/20/96 | 8,500 | 220 | 1,400 | 28 | 140 | 15 |
| | 09/24/96 | 12,000 | <5.0 | 2,400 | 87 | 340 | 110 |
| | 12/27/96 | 5,800 | 240 | 1,700 | 28 | <0.50 | 42 |
| | 03/10/97 | 9,000 | <5.0 | 1,700 | <0.5 | 110 | <0.5 |
| | 06/28/97 | 15,000 | <5.0 | 2,200 | <0.50 | 160 | 190 |
| TMW-4 | 08/17/93 | 150 | NA | <0.50 | 0.8 | 1.4 | 3.7 |
| | 03/28/94 | <50 | NA | <0.50 | <0.50 | <0.50 | <1.5 |
| | 06/27/94 | <50 | NA | <0.50 | <0.50 | <0.50 | <1.5 |
| | 09/16/94 | <50 | NA | <0.50 | <0.50 | <0.50 | <1.5 |
| | 03/31/95 | <50 | NA | <0.50 | <0.50 | <0.50 | <1.5 |
| | 06/28/95 | <50 | NA | <0.50 | <0.50 | <0.50 | <1.5 |
| | 09/28/95 | <50 | <5.0 | <0.50 | <0.50 | <0.50 | <1.5 |
| | 12/26/95 | <50 | <5.0 | <0.50 | <0.50 | <0.50 | <1.5 |
| | 03/22/96 | <50 | <5.0 | <0.50 | <0.50 | <0.50 | <1.5 |
| | 06/20/96 | <50 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 09/24/96 | <50 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 12/27/96 | <50 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 03/10/97 | <50 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 06/27/97 | <50 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 |
| TMW-5 | 08/17/93 | 120,000 | NA | 340 | 730 | 790 | 3,600 |
| | 03/28/94 | 70,000 | NA | 23,000 | 1,500 | 4,100 | 15,000 |

TABLE 4
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
(ppb[1])

| Sample ID Name | Date | TPHG | Methyl t-butyl ether | Benzene | Toluene | Ethyl-benzene | Xylenes |
|---|---|---|---|---|---|---|---|
| TMW-5 | 06/28/94 | 56,000 | NA | 26,000 | 940 | 5,500 | 26,000 |
| | 09/16/94 | 96,000 | NA | 17,000 | 720 | 3,500 | 12,000 |
| | 03/31/95 | 64,000 | NA | 13,000 | 470 | 3,500 | 6,100 |
| | 06/28/95 | 65,000 | NA | 9,000 | 240 | 2,600 | 5,300 |
| | 09/28/95 | 79,000 | <1,200 | 17,000 | 1,800 | 2,700 | 7,000 |
| | 12/26/95 | 110,000 | <1,200 | 11,000 | 800 | 2,300 | 4,500 |
| | 06/26/96 | 30,000 | 830 | 4,000 | 180 | 1,500 | 2,500 |
| | 09/30/96 | 6,900 | <5.0 | 1,600 | 79 | 130 | 370 |
| | 12/27/96 | 78,000 | <5.0 | 12,000 | 1,900 | 2,900 | 9,700 |
| | 03/10/97 | 84,000 | <5.0 | 9,900 | 1,100 | 2,600 | 8,800 |
| | 06/28/97 | NA | NA | NA | NA | NA | NA |

[1] PARTS PER BILLION.
[2] NOT ANALYZED.

# RECORD OF WATER SAMPLING

PROJECT NO.: 267 DATE: 6/28/97

PROJECT NAME: CWAS

PROJECT LOCATION: 2345 E. 14th

SAMPLER: Fred Moss

ANALYSES: TPHG & BTEX

WELL DEPTH (from construction detail): _____

WELL DEPTH (measured): 34.04 SOFT BOTTOM?: yes

DEPTH TO WATER: 314.67 ~~10.70~~ TIME: 1420

PRESSURE (circle one)?: YES OR (NO) DTP 10.60

IF YES, WAS PRESSURE (circle one): POSITIVE OR NEGATIVE?

WELL NO.: MW-1

WELL DIAMETER: 2"

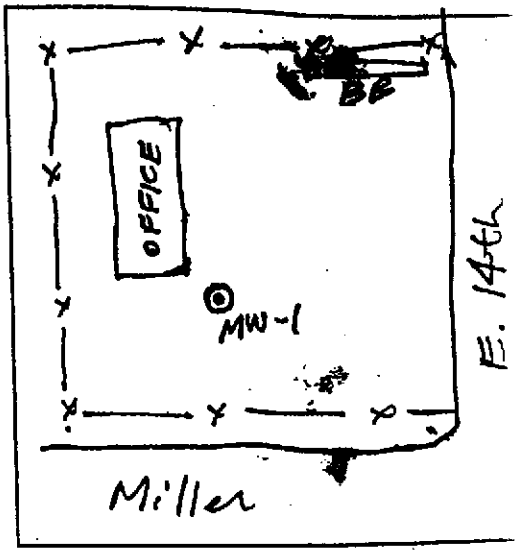
TOC ELEV: _____

LOCK NO.: 605

WATER VOLUME IN WELL: 3.10

[2-INCH CASING = 0.16 GAL/FT] [4-INCH CASING = 0.65 GAL/FT]

[6-INCH CASING = 1.47 GAL/FT] [1 GAL = 3.78 L]




LOCATION MAP

CALCULATED PURGE VOL. (GAL): 9.30 (L): 35 ACTUAL PURGE VOL. (GAL): _____ (L): 35

PURGE METHOD: Poly SAMPLE METHOD: Poly

FIELD MEASUREMENTS

| Time | Depth to Water (FT) | Vol (L) | Temp (Deg. F) | pH | EC | Clarity | Turbidity (NTU) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 1400 | | 1 | | 5.82 | 1000 | | cloudy | strong odor |
| 1420 | | 28 | | 5.88 | 990 | | " | 1" - 2" product |
| 1425 | | 30 | | 5.91 | 1000 | | " | in bailer |
| 1430 | | 33 | | 5.94 | 1050 | | " | " |
| 1435 | | 35 | | 5.93 | 1090 | | " | " |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 1450 | Well Sampled | | | | | | | |

SIGNATURE: Fred Moss

WATER VOL. IN DRUM: 85?

NEED NEW DRUM?: No

# RECORD OF WATER SAMPLING

PROJECT NO.: 267 DATE: 6/28/97

PROJECT NAME: CWAS

PROJECT LOCATION: 2345 E. 14th / Oakland

SAMPLER: Fred Moss

ANALYSES: TPHG & BTEX

WELL DEPTH (from construction detail): _____

WELL DEPTH (measured): 33.04 SOFT BOTTOM?: YES

DEPTH TO WATER: 11.98 TIME: _____

PRESSURE (circle one)?: YES OR (NO)

IF YES, WAS PRESSURE (circle one): POSITIVE OR NEGATIVE?

Depth to Product 11.94

WATER VOLUME IN WELL: 3.37

[2-INCH CASING = 0.16 GAL/FT] [4-INCH CASING = 0.65 GAL/FT]

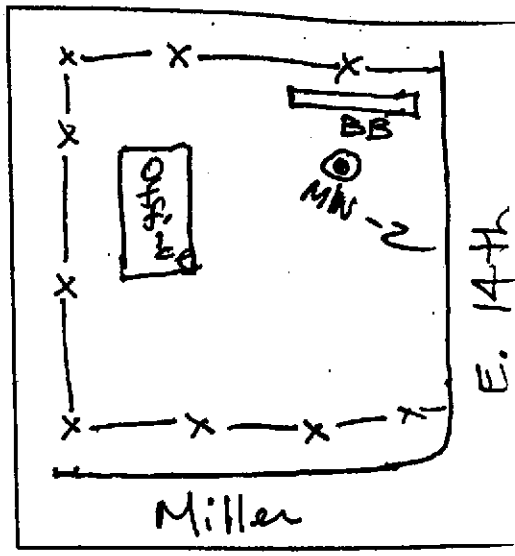
[6-INCH CASING = 1.47 GAL/FT] [1 GAL = 3.78 L]

WELL NO.: MW-2

WELL DIAMETER: 2"

TOC ELEV: _____

LOCK NO.: 605




LOCATION MAP

CALCULATED PURGE VOL. (GAL): 10.1 (L): 38 ACTUAL PURGE VOL. (GAL): _____ (L): 38

PURGE METHOD: Poly SAMPLE METHOD: Poly

FIELD MEASUREMENTS

| Time | Depth to Water (FT) | Vol (L) | Temp (Deg. F) | pH | EC | Clarity | Turbidity (NTU) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 1300 | | 1 | | 6.30 | 850 | | clear | odor |
| 1305 | | 12 | | 6.24 | 880 | | " | " |
| 1330 | | 34 | | 6.04 | 920 | | " | " |
| 1340 | | 36 | | 6.35 | 880 | | " | " |
| 1345 | | 38 | | 6.40 | 900 | | " | " |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 1445 Well Sampled | | | | | | | | |

SIGNATURE: Fred Moss

WATER VOL. IN DRUM: 80% F

NEED NEW DRUM?: No

# RECORD OF WATER SAMPLING

PROJECT NO.: 261 DATE: 6/28/91

PROJECT NAME: CNAS

PROJECT LOCATION: 2345 E. 14th St/Oakland

SAMPLER: Fred Moss

ANALYSES: TPHG & BTEX

WELL DEPTH (from construction detail): _____

WELL DEPTH (measured): 34.82 SOFT BOTTOM?: yes

DEPTH TO WATER: 13.72 TIME: _____

PRESSURE (circle one)?: YES OR (NO)

IF YES, WAS PRESSURE (circle one): POSITIVE OR NEGATIVE?

DTP 13.66

WATER VOLUME IN WELL: 3.38

[2-INCH CASING = 0.16 GAL/FT] [4-INCH CASING = 0.65 GAL/FT]

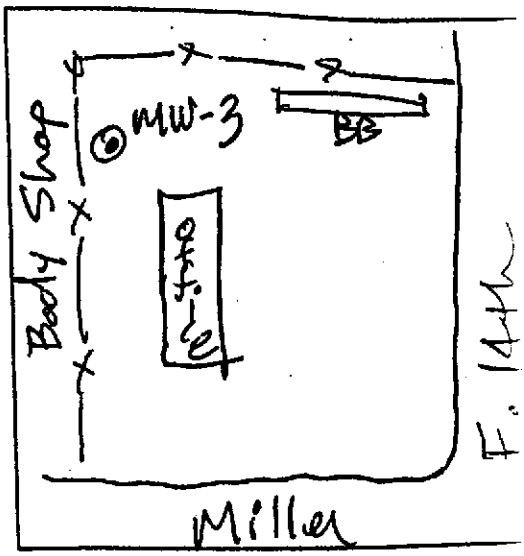
[6-INCH CASING = 1.47 GAL/FT] [1 GAL = 3.78 L]

WELL NO.: MW-3

WELL DIAMETER: 2"

TOC ELEV: _____

LOCK NO.: 605




LOCATION MAP

CALCULATED PURGE VOL. (GAL): 10.1 (L): 38 ACTUAL PURGE VOL. (GAL): _____ (L): 38

PURGE METHOD: Poly SAMPLE METHOD: Poly

FIELD MEASUREMENTS

| Time | Depth to Water (FT) | Vol (L) | Temp (Deg. F) | pH | EC | Clarity | Turbidity (NTU) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 1515 | | 1 | | 7.30 | 1010 | | cloudy | odor - orangl |
| 1530 | | 21 | | 7.27 | 1000 | | " | " brown |
| 1545 | | 32 | | 7.72 | 900 | | " | " tint |
| 1546 | | 35 | | 7.72 | 990 | | " | " |
| 1546 | | 38 | | 7.74 | 860 | | " | " |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 1550 | Well Sampled | | | | | | | |

SIGNATURE: Fred Moss

WATER VOL. IN DRUM: Full

NEED NEW DRUM?: Yes

# RECORD OF WATER SAMPLING

PROJECT NO.: 267 DATE: 6/27/97 WELL NO.: MW-4

PROJECT NAME: CWAS WELL DIAMETER: 2"

PROJECT LOCATION: 2345 E. 14th/Oakland TOC ELEV: _____

SAMPLER: FGM LOCK NO.: 605

ANALYSES: TPHG & BTEX

WELL DEPTH (from construction detail): _____

WELL DEPTH (measured): 33.98 SOFT BOTTOM?: yes

DEPTH TO WATER: 10.70 TIME: 1425

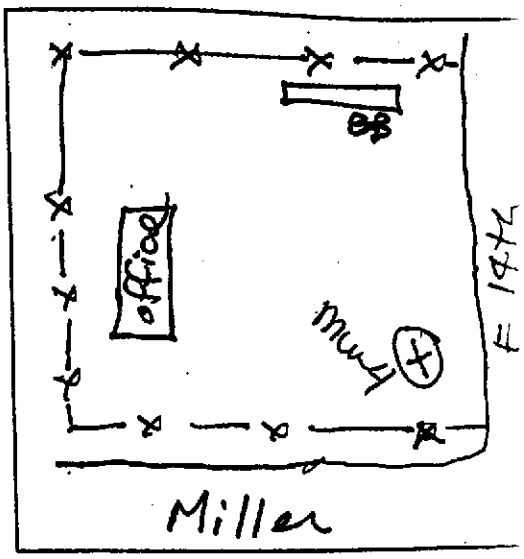
PRESSURE (circle one)?: YES OR (NO) DTP 10.65 ?

IF YES, WAS PRESSURE (circle one): POSITIVE OR NEGATIVE?

WATER VOLUME IN WELL: 3.72

[2-INCH CASING = 0.16 GAL/FT] [4-INCH CASING = 0.65 GAL/FT]

[6-INCH CASING = 1.47 GAL/FT] [1 GAL = 3.78 L]




LOCATION MAP

CALCULATED PURGE VOL. (GAL): 11.16 (L): 42 ACTUAL PURGE VOL. (GAL): _____ (L): 42

PURGE METHOD: Poly SAMPLE METHOD: Poly

FIELD MEASUREMENTS

| Time | Depth to Water (FT) | Vol (L) | Temp (Deg. F) | pH | EC | Clarity | Turbidity (NTU) | Remarks |
|---|---|---|---|---|---|---|---|---|
| 1430 | | 1 | | 7.60 | 900 | | clear | odor ? |
| 1455 | | 35 | | 6.88 | 880 | | " | " |
| 1510 | | 40 | | 6.33 | 830 | | " | " |
| 1512 | | 41 | | 6.27 | 840 | | " | " |
| 1515 | | 42 | | 6.23 | 850 | | " | " |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 1520 | Well | Sample | ck | | | | | |

SIGNATURE: Fred Mork

WATER VOL. IN DRUM: 60% F

NEED NEW DRUM?: NO

# SAMPLE HANDLING PROCEDURES

Soil and groundwater samples will be packaged carefully to avoid breakage or contamination and will be delivered to the laboratory in an iced-cooler. The following sample packaging requirements will be followed.

- Sample bottle/sleeve lids will not be mixed. All sample lids will stay with the original containers and have custody seals affixed to them.

- Samples will be secured in coolers to maintain custody, control temperature and prevent breakage during transportation to the laboratory.

- A chain-of-custody form will be completed for all samples and accompany the sample cooler to the laboratory.

- Ice, blue ice or dry ice (dry ice will be used for preserving soil samples collected for the Alameda County Water District) will be used to cool samples during transport to the laboratory.

- Water samples will be cooled with crushed ice. In the Alameda County Water District, water samples will be buried in the crushed ice with a thermometer, and the laboratory will be requested to record thermometer temperature at the time of receipt.

- Each sample will be identified by affixing a pressure sensitive, gummed label or standardized tag on the container(s). This label will contain the site identification, sample identification number, date and time of sample collection and the collector's initials.

- Soil samples collected in brass tubes will be preserved by covering the ends with Teflon tape and capping with plastic end-caps. The tubes will

be labeled, sealed in quart size bags and placed in an iced-cooler for transport to the laboratory.

All groundwater sample containers will be precleaned and will be obtained from a State Department of Health Services certified analytical laboratory.

Sample Control/Chain-of-Custody: All field personnel will refer to this workplan to verify the methods to be employed during sample collection. All sample gathering activities will be recorded in the site file; all sample transfers will be documented in the chain-of-custody; samples will be identified with labels; all sample bottles will be custody-sealed. All information is to be recorded in waterproof ink. All TPE field personnel are personally responsible for sample collection and the care and custody of collected samples until the samples are transferred or properly dispatched.

The custody record will be completed by the field technician or professional who has been designated by the TPE project manager as being responsible for sample shipment to the appropriate laboratory. The custody record will include, among other things, the following information: site identification, name of person collecting the samples, date and time samples were collected, type of sampling conducted (composite/grab), location of sampling station, number and type of containers used and signature of the TPE person relinquishing samples to a non-TPE person with the date and time of transfer noted. The relinquishing individual will also put all the specific shipping data on the custody record.

Records will be maintained by a designated TPE field employee for each sample: site identification, sampling location, station number, date, time, sampler's name, designation of the sample as a grab or composite, notation of the type of sample (e.g., groundwater, soil boring, etc.), preservatives used, onsite measurement data and other observations or remarks.

# GROUNDWATER MONITORING WELL SAMPLING PROCEDURES

Groundwater monitoring wells will not be sampled until at least 24 to 72 hours (according to local regulatory guidelines) after well development. Groundwater samples will be obtained using a bladder pump, clear Teflon bailer or dedicated polyethylene bailer. Prior to collecting samples, the sampling equipment will be thoroughly decontaminated to prevent introduction of contaminants into the well and to avoid cross-contamination. Monitoring wells will be sampled after 3 to 10 wetted casing volumes of groundwater have been evacuated and pH, electrical conductivity and temperature have stabilized as measured with a Hydac Digital Tester. If the well is emptied before 3 to 10 well volumes are removed, the sample will be taken when the water level in the well recovers to 80% or more of its initial water level.

When a water sample is collected, turbidity of the water will be measured and recorded with a digital turbidimeter. Degree of turbidity will be measured and recorded in nephelometric turbidity units (NTU).

TPE will also measure the thickness of any floating product in the monitoring wells using an interface probe or clear Teflon or polyethylene bailer. The floating product will be measured after well development but prior to the collection of groundwater samples. If floating product is present in the well, TPE will recommend to the client that product removal be commenced immediately and reported to the appropriate regulatory agency.

Unless specifically waived or changed by the local, prevailing regulatory agency, water samples will be handled and preserved according to the latest United States Environmental Protection Agency methods as described in the Federal Register (Volume 44, No. 233, Page 69544, Table II) for the type of analysis to be performed.

Development and/or purge water will be stored on site in labeled containers. The disposal of the containers and development and/or purge water is the responsibility of the client.

MEASUREMENTS

Purged Water Parameter: During purging, discharged water will be measured for the following parameters.

| Parameter | Units of Measurement |
|---|---|
| pH | None |
| Electrical Conductivity | Micromhos |
| Temperature | Degrees F or C |
| Depth to Water | Feet/Hundredths |
| Volume of Water Discharged | Gallons |
| Turbidity | NTU |

Documentation: All parameter measurements will be documented in writing on TPE development logs.

# QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES

The overall objectives of the field sampling program include generation of reliable data that will support development of a remedial action plan. Sample quality will be checked by the use of proper sampling, handling and testing methods. Additional sample quality control methods may include the use of background samples, equipment rinsate samples and trip and field blanks. Chain-of-custody forms, use of a qualified laboratory, acceptable detection limits and proper sample preservation and holding times also provide assurance of accurate analytical data.

TPE will follow a quality assurance and quality control (QA/QC) program in the field to ensure that all samples collected and field measurements taken are representative of actual field and environmental conditions and that data obtained are accurate and reproducible. These activities and laboratory QA/QC procedures are described below.

Field Samples: Additional samples may be taken in the field to evaluate both sampling and analytical methods. Three basic categories of QA/QC samples that may be collected are trip blanks, field blanks and duplicate samples.

Trip blanks are a check for cross-contamination during sample collection, shipment, and laboratory analysis. They are water samples that remain with the collected samples during transportation and are analyzed along with the field samples to check for residual contamination. Analytically confirmed organic-free water will be used for organic parameters and deionized water for metal parameters. Blanks will be prepared by the laboratory supplying the sample containers. The blanks will be numbered, packaged and sealed in the same manner as the other samples. One trip blank will be used for each sample set of less than 20 samples. At least 5% blanks will be used for sets greater than 20 samples. The trip blank is not to be opened by either the sample collectors or the handlers.

The field blank is a water sample that is taken into the field and is opened and exposed at the sampling point to detect contamination from air exposure. The water

sample is poured into appropriate containers to simulate actual sampling conditions. Contamination due to air exposure can vary considerably from site to site.

The laboratory will not be informed about the presence of trip and field blanks, and false identifying numbers will be put on the labels. Full documentation of these collection and decoy procedures will be made in the site log book.

Duplicate samples are identical sample pairs (collected in the same place and at the same time), placed in identical containers. For soils, adjacent sample liners will be analyzed. For the purpose of data reporting, one is arbitrarily designated the sample, and the other is designated as a duplicate sample. Both sets of results are reported to give an indication of the precision of sampling and analytical methods.

The laboratory's precision will be assessed without the laboratory's knowledge by labeling one of the duplicates with false identifying information. Data quality will be evaluated on the basis of the duplicate results.

Laboratory QA/QC: Execution of a strict QA/QC program is an essential ingredient in high-quality analytical results. By using accredited laboratory techniques and analytical procedures, estimates of the experimental values can be very close to the actual value of the environmental sample. The experimental value is monitored for its precision and accuracy by performing QC tests designed to measure the amount of random and systematic errors and to signal when correction of these errors is needed.

The QA/QC program describes methods for performing QC tests. These methods involve analyzing method blanks, calibration standards, check standards (both independent and the United States Environmental Protection Agency-certified standards), duplicates, replicates and sample spikes. Internal QC also requires adherence to written methods, procedural documentation and the observance of good laboratory practices.

CERTIFIED ANALYTICAL REPORTS AND
CHAIN-OF-CUSTODY DOCUMENTATION

# Entech Analytical Labs, Inc.

CA ELAP# 2224

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

**Tank Protect Engineering**
**2821 Whipple Road**
**Union City, CA 94587**
**Attn: Lee Huckins**

| | |
|---|---|
| Date: | 7/16/97 |
| Date Received: | 7/1/97 |
| Date Analyzed: | 7/11/97 |
| Project #: | 267 |
| P.O. #: | 1416 |
| Sampled By: | Client |

## Certified Analytical Report

**Water Sample Analysis:**

| *Test* | *MW-1* | *MW-2* | *MW-3* | *MW-4* | *Units* | *PQL* | *EPA Method #* |
|---|---|---|---|---|---|---|---|
| Sample Matrix | Water | Water | Water | Water | | | |
| Sample Date | 6/28/97 | 6/28/97 | 6/28/97 | 6/27/97 | | | |
| Sample Time | 1450 | 1445 | 1550 | 1520 | | | |
| Lab # | D10600 | D10601 | D10602 | D10603 | | | |
| DF-Gas/BTEX | 400 | 80 | 200 | 1 | | | |
| **TPH-Gas** | **54,000** | **12,000** | **15,000** | **ND** | µg/liter | 50.0 µg/l | 8015M |
| **MTBE** | **ND** | **ND** | **ND** | **ND** | µg/liter | 5.0 µg/l | 8020 |
| **Benzene** | **5,200** | **840** | **2,200** | **ND** | µg/liter | 0.5 µg/l | 8020 |
| **Toluene** | **1,300** | **ND** | **ND** | **ND** | µg/liter | 0.5 µg/l | 8020 |
| **Ethyl Benzene** | **1,000** | **640** | **160** | **ND** | µg/liter | 0.5 µg/l | 8020 |
| **Xylenes** | **4,900** | **360** | **190** | **ND** | µg/liter | 0.5 µg/l | 8020 |

1. DLR=DF x PQL
2. Analysis performed by Entech Analytical Labs, Inc. (CAELAP #2224)

Michael N. Golden, Lab Director

DF=Dilution Factor
DLR=Detection Reporting Limit

PQL=Practical Quantitation Limit
ND=None Detected at or above DLR

TANK PROTECT ENGINEERING
of Northern California, Inc.
2821 Whipple Rd., Union City, CA 94587-1233
(510) 429-8088 • (800) 523-8088 • Fax (510) 429-8089

LAB: Entech
TURNAROUND: 15 day
P.O. #: 1416

PAGE 1 OF 1

# CHAIN OF CUSTODY

PROJECT NO.: 267
SITE NAME & ADDRESS: Credit Word (CNAS) Oakland
SAMPLER NAME, ADDRESS AND TELEPHONE NUMBER: Fred Moss, 2821 WHIPPLE ROAD, UNION CITY, CA 94587 (415) 429-8088

| LAB NO. | DATE | TIME | SOIL | WATER | SAMPLING LOCATION | TYPE OF CONTAINER (1) | ANALYTES REQUESTED: TOTAL LIGHT HC | AROMATIC HC (BTX) | TOTAL HEAVY HC | OIL & GREASE | VOC SCAN (624's) | OTHER TPH gasoline | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 6/28 | 1450 | | X | Mon. Well | VOA | X | | | | | X | D10600 |
| MW-2 | 6/28 | 1445 | | X | " " | (2) | X | | | | | X | D10601 |
| MW-3 | 6/28 | 1550 | | X | " " | " | X | | | | | X | D10602 |
| MW-4 | 6/27 | 1500 | | X | " " | " | X | | | | | X | D10603 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| Relinquished by : (Signature) | Date / Time | Received by : (Signature) | Relinquished by : (Signature) | Date / Time | Received by : (Signature) |
|---|---|---|---|---|---|
| Fred Moss | 6/30/97 1500 | Brenda Sloan 7/1/97 | | | |
| Relinquished by : (Signature) | Date / Time | Received by : (Signature) | Relinquished by : (Signature) | Date / Time | Received by : (Signature) |
| | | | | | |
| Relinquished by : (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks | |
| | | | | | |

DATE: 6/30/97