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QUARTERLY GROUNDWATER MONITORING REPORT

5930 College Avenue Oakland, California STID # 514

July 10, 2001

prepared for

William G, Sheaff TTE Trust Mr. Brian Sheaff 1945 Parkside Drive Concord, CA 94519

prepared by

Golden Gate Tank Removal 255 Shipley Street San Francisco, CA 94107

GGTR Job No. 7335

Mark Youngkin
Registered Geologist CEC 1.80 CERTIFIED
ENGINEERING
GEOLOGIST

General Manager

No. 06237

QUARTERLY GROUNDWATER MONITORING REPORT July 10, 2001

5930 College Avenue, Oakland, California STID # 514

Introduction

This report presents the results and findings of the July 10, 2001 groundwater monitoring conducted by GOLDEN GATE TANK REMOVAL (GGTR) at 5930 College Avenue in Oakland, California. This monitoring episode was the 6th monitoring event of all three wells at the site. Well MW-1 been monitored a total of 8 times now. The Alameda County Health Services Agency (ACHSA) designated the site as case STID #514. A vicinity map showing the general area of the site is presented on Figure 1, Vicinity Map. Features of the site are shown on Figure 2, Site Plan. The groundwater gradient is graphically shown on Figure 3, Groundwater Gradient. Figure 4, Groundwater Monitoring Results at 5930 College Avenue, summarizes the results of historical groundwater monitoring at the site.

Results of Groundwater Sampling and Laboratory Analysis

Copies of the official laboratory Certificates of Analysis and the Chain-of-Custody Form are included in the Appendix. Documentation of the purging and sampling is contained in the Field Data Sheets of the Appendix.

Table - July 10, 2001 Groundwater Sampling Results

| Well Label | TPH-G (ug/L) | MTBE (ug/L) | BTEX (ug/L) |
|---------------|-----------------|----------------|--------------------------------|
| MW1 | 79,000 | 660 | 15,000 / 7,800 / 3000 / 15,000 |
| MW2 | 39,000 | 180 | 6,200 / 730 / 2,300 / 6,100 |
| MW3 | 12,000 | 35 | 39 / 10 / 690 / 1600 |

NOTES:

TPH-G - Total Petroleum Hydrocarbons as Gasoline,

BTEX - Benzene / Toluene / Ethylbenzene / Xylenes,

MTBE - Methyl Tertiary Butyl Ether

ug/L - micrograms per liter (equivalent to parts per billion - ppb)

ND - not detected above laboratory reporting limit

In general, TPH-g, BTEX and MTBE have demonstrated fluctuating concentrations in all three monitoring wells at the site. Total Petroleum Hydrocarbons as gasoline (TPH-g) decreased in well MW-1 to 79,000 ug/L, a historically low concentration. TPH-g decreased in well MW2 to 39,000 ug/L this quarter. TPH-g increased in well MW-3 to 12,000 ug/L and the increase exceeds the maximum historical value of 8,400 ug/L from the last monitoring episode. MTBE concentrations decreased in all wells from the last monitoring episode. Benzene concentration decreased in all three wells.

No floating free product or noticeable sheen occurred in any of the groundwater wells during this monitoring episode. Gasoline-like odors were noted in purge water from all three monitoring wells.

Total Extractable Petroleum Hydrocarbons (TEPH) and oxygenates were not detected in prior sampling episodes and by agreement with the regulatory agency, TEPH and oxygenates were not included in this groundwater sampling.

Results of Groundwater Elevation Measurements

On April 26, 2001, GGTR arranged for Virgil Chavez Land Surveying to survey the casing elevations on all three monitoring wells at the site. The top-of-casing elevations are now show in relation to mean sea level. The groundwater gradient for the July 10, 2001 monitoring event was measured at 0.5 ft / 100 feet (0.005 ft/ft) in a direction of 4° east of north. The groundwater gradient is graphically shown on figure 3, Groundwater Gradient.

The table shown below lists the historical data on mean groundwater elevation, flow direction and groundwater slope for the site.

Groundwater Elevation, Flow Direction and Slope

| Date | Mean Groundwater Elevation in feet | Direction of Flow | Slope in ft / 100 ft |
|----------|---------------------------------------|--|----------------------|
| 10/07/99 | 39.87 | 11° west of south (169° west of north) | 0.67 feet / 100 feet |
| 01/26/00 | 43.1 | 23° west of north | 9.12 feet / 100 feet |
| 10/25/00 | 39.96 | 40° east of north | 0.64 feet / 100 feet |
| 04/25/01 | 188.6 | 55° west of north | 0.69 feet / 100 feet |
| 07/10/01 | 186.26 | 4° east of north | 0.5 feet / 100 feet |

Note that the groundwater elevations prior to April 25, 2001 are referenced to a site-specific datum of 50 feet at well MWI (no relation to sea level).

Discussion of Monitoring Results

We reviewed the results of the July 10, 2001 sampling episode in comparison with the results of the previous monitoring episodes. The groundwater gradient is similar to previous measurements. The flow direction of North 4 East is between the last two measurements. The range of the last three groundwater flow directions is 95 degrees. The last three groundwater measurements have a shallow slope (0.5-0.6 ft/100 ft) but differ in flow direction. Previous measurements suggest that the shallow groundwater changes in response to rainfall. Utility trenches occur along the western margin of the site.

Benzene concentrations decreased in all three wells. TPH as gasoline decreased in wells MW1 and MW2. TPH as gasoline increased in well MW1. MTBE decreased in all three wells.

GGTR recommends that the monitoring of the three groundwater wells be continued on a quarterly basis as required by the LUFT manual and the HSA. The three samples obtained at that time should be analyzed for TPH-G, BTEX and MTBE.

Water Sample Analytical Methods

The groundwater samples collected from the three monitoring wells on July 10, 2001 were analyzed for the following fuel constituents:

- Total Petroleum Hydrocarbons as Gasoline (TPH-G)
- Benzene, Toluene, Ethylbenzene and total Xylenes (BTEX)
- Methyl Tertiary Butyl Ether (MTBE)

North State Environmental Laboratory of South San Francisco, California analyzed the groundwater samples on July 10-12, 2001. All analytical results are tabulated on figure 4, Groundwater Monitoring Results at 5930 College Avenue. Copies of the Laboratory Certificates of Analysis, Field Data Sheets and Chain of Custody Forms are included in the Appendix.

Field Procedures

The GGTR monitoring of three groundwater wells was performed on July 10, 2001, in accordance with the requirements and procedures of the California Regional Water Quality

sampling each well, the well casing elevations were surveyed and the depth to groundwater in the well was measured from the top of casing to the nearest 0.01 foot using an electronic sounding probe. A preliminary groundwater sample was also collected at this time and checked for the presence of liquid-phase hydrocarbons or sheen with a clear bailer.

After measuring, each well was purged a minimum of five casing volumes. Groundwater samples for analyses were collected by lowering a disposable, bottom-fill, polyvinyl chloride (PVC) bailer to just below the air-water interface in each well. The sample was then carefully decanted from the bailer into the appropriate containers. All volatile organic analysis (VOA) vials were inverted and checked to insure that no entrapped air was present. The samples were then properly labeled with the sample number, well number, sample date, and the sampler's initials. The samples were then stored in an iced cooler for delivery to a California certified laboratory following proper preservation and chain-of-custody procedures.

Quality Assurance / Quality Control

Quality Assurance and Quality Control (QA/QC) details are shown on the laboratory Certificates of Analysis in the Appendix. The laboratory reported no quality assurance or quality control problems during the laboratory analysis procedures. All samples were analyzed within specified laboratory holding times.

Project History and Chronology

During 1996, GGTR removed two underground storage tanks (UST) and fuel dispenser from a common location at the site. The following table shows a summary of the tank designations, size, type of construction and contents:

| Designation | Construction | diameter | length | size | contents |
|-------------|--------------|----------|--------|-----------|---------------------------------------|
| | | (feet) | (feet) | (gallons) | · · · · · · · · · · · · · · · · · · · |
| TANK 1 | steel | 4 | 7 | 675 | gasoline |
| TANK 2 | steel | 4 | 3.5 | 340 | waste oil |

The ages of the tanks are unknown but are believed to be between 40 and 60 years old. During the UST removal there was evidence of a gasoline leak in surrounding soils and GGTR over-excavated gasoline-contaminated soil from surrounding the former UST location. The removal and over-excavation was documented in the GGTR report dated October 11, 1996.

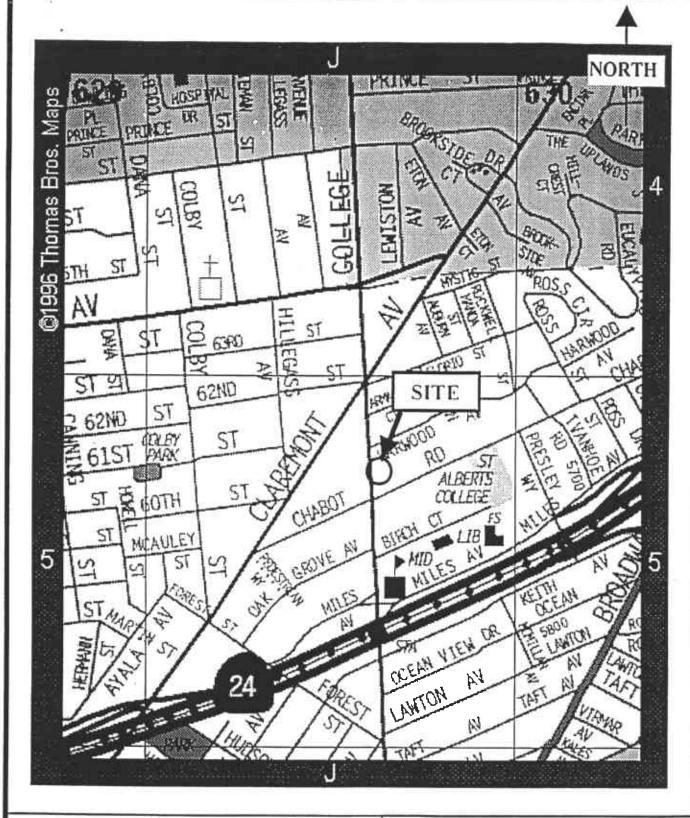
The following list of activities shows the significant investigation and remedial action performed at the site:

| 08/06/96 | Underground storage tanks 1 and 2 were removed and samples recovered |
|----------|--|
| 08/15/96 | A work plan was submitted by GGTR for over excavation and disposal of |
| | gasoline-contaminated soil surrounding the UST |
| 09/30/96 | Over-excavation of gasoline-contaminated soil performed |
| 10/01/96 | Last of additional excavation soil disposed of at a Class II facility |
| 10/11/96 | TANK REMOVAL REPORT published by GGTR |
| 12/30/96 | ACHSA submitted letter requiring soil and groundwater investigation |
| 03/10/97 | GGTR authorized to prepare a work plan for additional investigation |
| 04/01/97 | GGTR submitted work plan for a Soil and Groundwater Investigation |
| 04/21/97 | ACHSA submitted letter authorizing work plan |
| 05/06/98 | GGTR drills borings B! through B3 |
| 05/20/98 | GGTR drills borings B4 (Monitoring Well MW1) |
| 05/27/98 | GGTR develops monitoring well MW1 |
| 06/01/98 | GGTR measures, purges and samples monitoring well MW1 |
| 06/17/98 | GGTR submitted Soil and Groundwater Investigation Report |
| 07/21/98 | GGTR submitted Work Plan Addendum for installation of two additional |
| | groundwater monitoring wells |
| 09/10/98 | GGTR measures, purges and samples monitoring well MW1 then submits a |
| | groundwater monitoring report |
| 10/02/99 | GGTR drills two borings (B5 and B6) and converts them to groundwater |
| | monitoring Wells (MW2 and MW3) |
| 10/04/99 | GGTR develops monitoring wells MW2 and MW3 |
| 10/07/99 | GGTR surveys monitoring wells MW2 / MW3; measures, purges and samples |
| | monitoring wells MW1, MW2 and MW3 then submits a groundwater |
| | monitoring report |
| 10/22/99 | GGTR submitted Summary Report |
| 11/24/99 | HCS submitted letter requiring quarterly monitoring and setting parameters |
| | for January 2000 analyses |
| 01/26/00 | GGTR measures, purges and samples monitoring wells MW1, MW2 and |
| | MW3 then submits a groundwater monitoring report |
| 10/25/00 | GGTR measures, purges and samples monitoring wells MW1, MW2 and |
| | MW3 then submits a groundwater monitoring report |
| 04/25/01 | GGTR surveys, measures and samples monitoring wells MW1, MW2 and |
| | MW3 then submits a groundwater monitoring report |
| 07/10/01 | GGTR surveys, measures and samples monitoring wells MW1, MW2 |
| | and MW3 then submits a groundwater monitoring report |

Report Submittal to Regulatory Agencies

As per local environmental guidelines, GGTR recommends that a copy of this quarterly groundwater monitoring report be submitted to the local regulatory agency as soon as possible:

Alameda County Health Care Services Environmental Health Services Environmental Protection (LOP) 1131 Harbor Bay Parkway Suite 250 Alameda, CA 94502 Attention: Eva Chu



GOLDEN GATE TANK REMOVAL

255 Shipley Street San Francisco, California 94107

Telephone (415) 512 1555 Fax (415) 512 0964

Project 7335

By: jnc

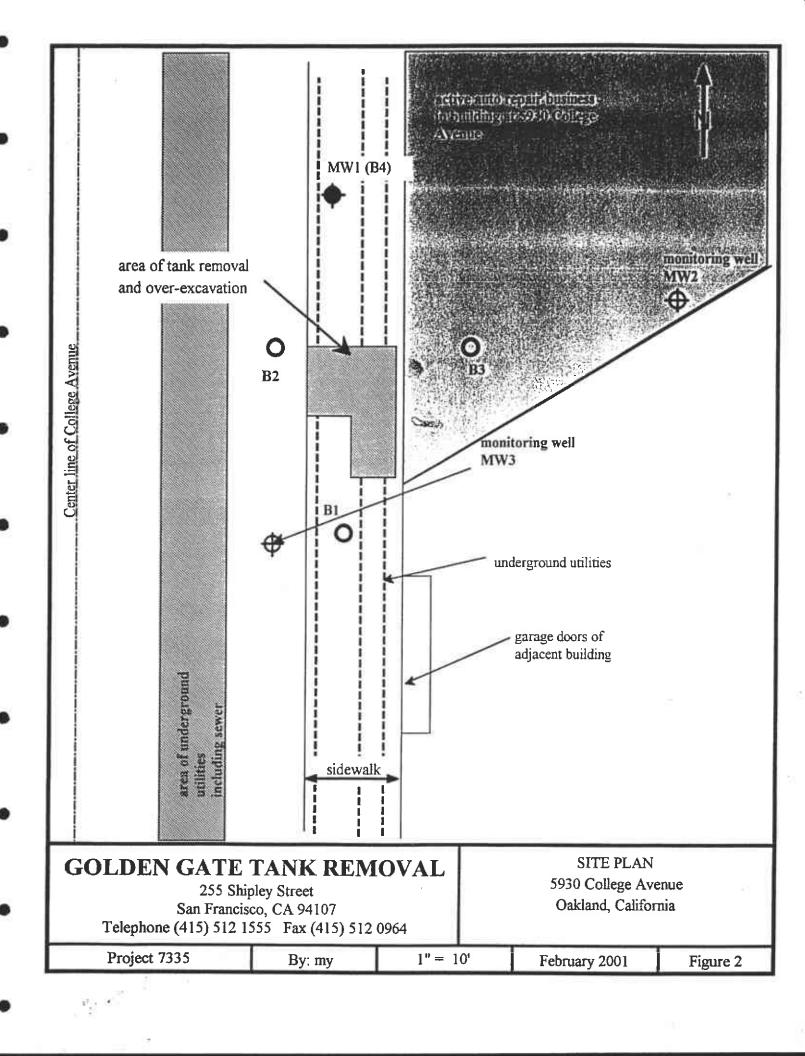
Not to scale

VICINITY MAP

5930 College Avenue Oakland, California

January, 2000

Figure 1



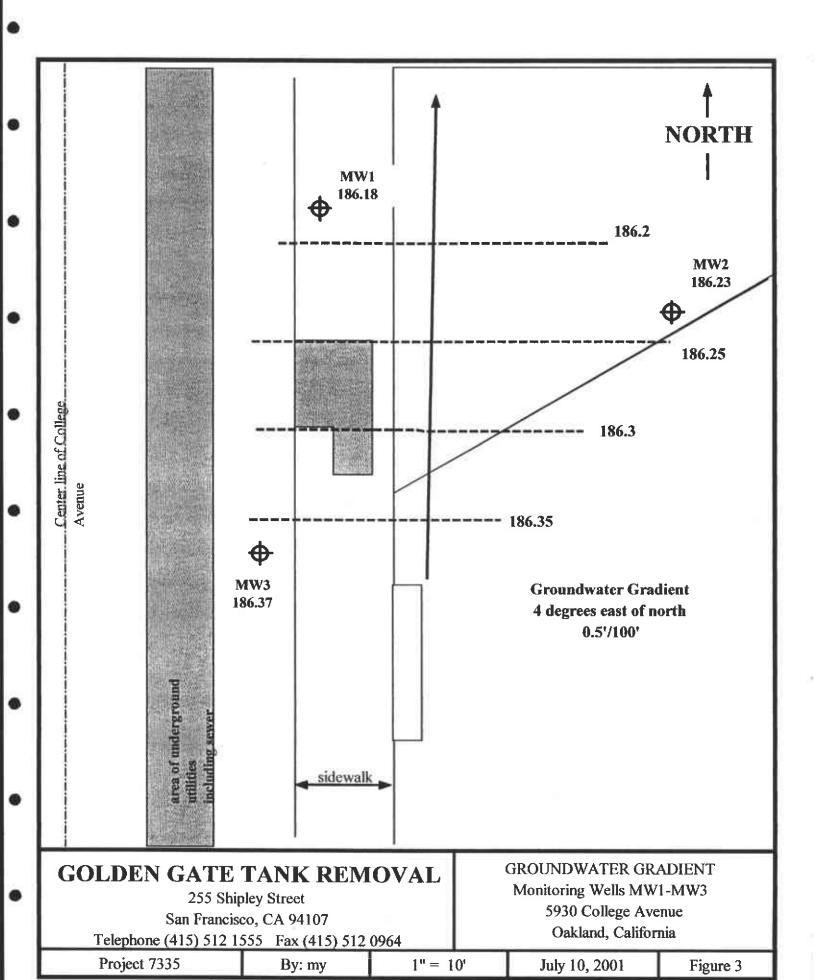


Figure 4 - Groundwater Monitoring Results at 5930 College Avenue

| Well | Date of | Casing | Depth | Water | Free | TPH-G | TEPH | VO | MTBE | BTEX |
|--------|----------|-----------|--------|-----------|--------------|---------|--------|--------|--------|----------------------------------|
| Label | Sampling | Elevation | to | Elevation | Product, | | | | | |
| | | (feet) | Water | (feet) | Odor or | (ug/L) | (ug/L) | (ug/L) | (ug/L) | (ug/L) |
| | | | (feet) | | Sheen | | | | | |
| MW1 | 06/01/98 | 50.00* | 4.81 | 45.19 | slight sheen | 160,000 | ND | | 1,900 | 28,000 / 21,000 / 3,800 / 21,000 |
| | 09/10/98 | 50.00* | 7.50 | 42.50 | odor | 290,000 | ND | | 440 | <50 / 25,000 / 7,100 / 32,000 |
| | 10/07/99 | 50.00* | 10.04 | 39.96 | odor | 85,000 | ND | | 1,100 | 20,000 / 13,000 / 3,800 / 17,000 |
| | 01/26/00 | 50.00* | 8.26 | 41.74 | slight sheen | 130,000 | | | 470 | 25,000 / 18,000 / 4,500 / 22,000 |
| | 10/25/00 | 50.00* | 10.10 | 39.90 | odor | 130,000 | | ND | 1,300 | 23,000 / 12,000 / 3,900 / 18,000 |
| | 02/02/01 | 50.00* | 9.61 | 40.39 | 0dor | 128,000 | | | 780 | 19,000 / 11,000 / 3,800 / 18,000 |
| | 04/25/01 | 195.90 | 7.39 | 188.51 | odor | 120,000 | | | 900 | 21,000 / 13,000 / 390 / 18,000 |
| | 07/10/01 | 195.90 | 9.72 | 186.18 | odor | 79,000 | | | 660 | 15,000 / 7,800 / 3000 / 15,000 |
| | | | | | | | | | | |
| MW2 | 10/07/99 | 51.42* | 11.49 | 39.93 | slight odor | 18,000 | ND | | 490 | 3,000 / 1,700 / 1,000 / 3,900 |
| | 01/26/00 | 51.42* | 7.85 | 43.57 | none | 42,000 | | | 560 | 9,300 / 2,200 / 2,300 / 7,700 |
| | 10/25/00 | 51.42* | 11.57 | 39.85 | slight odor | 31,000 | | ND | 500 | 5,500 / 370 / 1,700 / 2,600 |
| | 02/02/01 | 51.42* | 10.77 | 40.65 | odor | 36,000 | | | 400 | 4,300 / 530 / 1,800 / 4,500 |
| | 04/25/01 | 197.28 | 8.52 | 188.76 | odor | 56,000 | | | 460 | 6,700 / 1700 / 2,600 / 8,200 |
| | 07/10/01 | 197.28 | 11.05 | 186.23 | odor | 39,000 | | | 180 | 6,200 / 730 / 2,300 / 6,100 |
| MW3 | 10/07/99 | 49.39* | 9.67 | 39.72 | none | 6,600 | ND | | 390 | 310 / 110 / 430 / 1,000 |
| 1(1,1) | 01/26/00 | 49.39* | 5.40 | 43.99 | none | 3,300 | | | 40 | 110 / 8 / 100 / 32 |
| | 10/25/00 | 49.39* | 9.24 | 40.15 | slight odor | 4,500 | | ND | ND | 100 / 2 / 120 / 130 |
| | 02/02/01 | 49.39* | 8.73 | 40.66 | slight odor | 2,900 | | | 35 | 35 / 3 / 160 / 298 |
| | 04/25/01 | 195.22 | 6.61 | 188.61 | slight odor | 8,400 | | ~- | 56 | 260 / 33 / 290 / 510 |
| | 07/10/01 | 195.22 | 8.85 | 186.37 | slight odor | 12,000 | | | 35 | 39 / 10 / 690 / 1600 |

NOTES:

TPH-G - Total Petroleum Hydrocarbons as Gasoline & BTEX - Benzene / Toluene / Ethylbenzene / Xylenes TEPH - Total Extractable Petroleum Hydrocarbons; Oxygenates or Volatile Organics by GC/MS Method 8260 MTBE - Methyl Tertiary Butyl Ether

ug/L - micrograms per liter (equivalent to parts per billion - ppb)

ND - not detected above laboratory detection limits

^{* -} assumed local datum of 50 feet prior to survey on April 26, 2001

⁻⁻ not analyzed

APPENDIX

LABORATORY CERTIFICATES OF ANALYSIS, FIELD DATA SHEETS & CHAIN OF CUSTODY FORMS

GROUNDWATER MONITORING

FOR

5930 College Avenue Oakland, California STID # 514

Project No. 7335 July 10, 2001 90 South Spruce Avenue, Suite V • South San Francisco, CA 94080 • (650) 266-4563 • FAX (650) 266-4560

CERTIFICATE OF ANALYSIS

Lab Number:

01-0985

Client:

Golden Gate Tank

Project:

#7335-5930 COLLEGE AVE. OAK, CA

Date Reported: 07/17/2001

Gasoline, BTEX and MTBE by Methods 8015M and 8020

| | Method | <u>Result</u> | Unit_ | Date Sampled | <u>Date Analyzec</u> |
|--------------------|------------|---------------|-------|-------------------|----------------------|
| Analyte | | | | 07/10/2001 | WATER |
| ouni, 200 or | 8015M | 79,000 | ug/L | | 07/12/2001 |
| Gasoline | | 15,000 | ug/L | | |
| Benzene | 8020 | 3000 | ug/L | | |
| Ethylbenzenc | 8020 | *660 | ug/L | | |
| MTBE | 8020 | | | | |
| Toluene | 8020 | 7800 | ug/L | | |
| Xylenes | 8020 | 15,000 | ug/L | | |
| Sample: 01-0985 02 | Client ID: | 7335-MW2 | | <u>07/10/2001</u> | WATER |
| | 8015M | 39,000 | ug/L | | 07/10/2001 |
| Gasoline | 8020 | 6200 | .ug/L | | |
| Benzene | 8020 | 2300 | ug/L | | |
| Ethylbenzene | 8020 | 180 | ug/L | | |
| MTBE | 8020 | 730 | ug/L | | |
| Toluene | | 6100 | ug/L | | |
| Xylenes | 8020 | 0100 | | | - CAMPA |
| Sample: 01-0985-03 | Client ID: | 7335-MW3 | | 07/10/2001 | WATER |
| Gasoline | 8015M | 12,000 | ug/L | | 07/10/2001 |
| Benzene | 8020 | 39 | ug/L | | |
| Ethylbenzene | 8020 | 690 | ug/L | | |
| "- | 8020 | 35 | ug/L | | |
| MTBE | 8020 | 10 | ug/L | | |
| Toluene | 8020 | 1600 | ug/L | | |
| Xylenes | 0020 | 1000 | • | | |

^{*} Confirmed by GC/MS

90 South Spruce Avenue, Suite V · South San Francisco, CA 94080 · (650) 266-4563 · FAX (650) 266-4560

CERTIFICATE OF ANALYSIS

Quality Control/Quality Assurance

Lab Number:

01-0985

Client:

Golden Gate Tank

Project:

#7335-5930 COLLEGE AVE. OAK, CA

Date Reported: 07/17/2001

Gasoline, BTEX and MTBE by Methods 8015M and 8020

| Analyte | Method | Reporting Limit | Unit | Blank | Avg MS/MSD Recovery | RPD |
|--------------|--------|--------------------|-----------------|-------|------------------------|-----|
| Carolino | 8015M | 50 | uq/J. | ND | 92 | 11 |
| Gasoline | 8020 | 0.5 | ug/L | ND | 92 | 16 |
| Benzene | | 0.5 | ug/L | ND | 96 | 17 |
| Toluene | 8020 | | ug/L | ND | 100 | 19 |
| Ethylbenzene | 8020 | 0.5 | _ | ND | 98 | 20 |
| Xylenes | 8020 | 1.0 | $\mathrm{ug/L}$ | | | |
| MTBE | 8020 | 0.5 | ug/L | ND | 91 | 18 |

ELAP Certificate NO:1753

Reviewed and Amproved

John A.Murphy, Laboratory Director

Page 2 of 2



North State Environmental Analytical Laboratory 90 South Spruce Avenue, Suite W, South San Francisco, CA 94080 Phone: (650) 266-4563 Fax: (650) 266-4560

| Chain of | ' Custody / | Request for | Anaiysis |
|----------|-------------|-------------|-------------------------|
| Lab Job | No.: | Page_ | <i>_</i> _of <i>_</i> _ |

| 1 (10)10. | <u> </u> | | | 1.00 | 4 : A c = | | | Phone: | (415)9 | 17-15 | 55 | Т | urnaround Time |
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| Client: Garai GAT | E TANK | REMOVAL | | to: T. WA | Lily The | | | Fax: 6 | 15)51 | 2-096 | 4 | 2 | 24-HA |
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| #7335-5930 | Corlection | CAUS, C | DAK. C | 17 | ested | | 1 1 | | <u> </u> | | | | /Comments / Hazards |
| Sample ID | Sample Type | Container No. / Type | Pres. | Sampling Date / Tin | ne / | | <u> </u> |) <u> </u> | / | / · | / | (| |
| 7335-NWI | WATER | ZUCA | COOL | 07044 | | X | <u>X</u> _ | \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \ | | | | | |
| 7335-MWZ | WATER | CNOW 12AK | Cec | 070401 9 | | $\frac{\chi}{\lambda}$ | K | X | | | | | |
| 7335-MWZ 7335-MW3 | WATER | 240A/IAM | Cool | 07-01-01/9: | 25 | <u> </u> | | -/- | | | | | |
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GROUNDWATER WELL MONITORING FIELD DATA SHEET

| Project Number Well Number | MW3 | | T. WALLACE | <u> </u> | <u>07-09-</u> 01 |
|-------------------------------|--------------------|-----------------------------|-------------------------------------|------------------------------|--|
| MOLL IN | LETER FOR | TEMP, CO | 201 FM - US | ed elections | CAST, USED RONC WATER BAILER FER |
| Well Depth Well Diameter | <u>897 ft.</u> tin | ne of sample | 9:25 A Depth sheen or free produ | i to water (| 3.95 A |
| Volume Height of water | | Diameter inch 4 ir | nch Volume | Number of well volumes | total gallons to purge |
| - | <u>212 n.</u> | (0.16) 0.6 | (7) | 5 No 900 | <u>8</u> gal |
| | VOLUME PURGI | ED pli ls 105 ls 9.91 | CONDUCTIVITY 5.2 5.24 5.28 5.35 | TEMP 632 62-9 62-1 62-1 | NOTES |
| | | | | * | |



GROUNDWATER WELL MONITORING FIELD DATA SHEET

| tes, including -SOE MA | field condition | | e, methods used, w | | |
|---------------------------|-----------------|--------------------------|---------------------------|------------------------------|------------------------------|
| /ell Depth | <u>Юн</u> tim | e of sample | Depti Sheen or free produ | | 9.72 n |
| olume · leight of | <u>~~</u> | Diameter Linch 4 incl | h Volume | Number of well volumes | total gallons to purge |
| Column 4.9 | 6 ft. | 0.16) 0.65 | <u>. 79</u> gals. | <u>5</u> | - <u>4</u> gal |
| | LUME PURGE | 9.(8.3 8.5 8 | CONDUCTIVITY 7.85 7.81 | TEMP 64.1 | NOTES |
| Additional con | ga ga ga | s s | 41766· | | |



GROUNDWATER WELL MONITORING FIELD DATA SHEET

| | w3 | | | | | |
|-----------------------|-----------|--|----------------|------------------------------------|--------------------------------------|------------------------------|
| ll Depth ll Diame | 19.7 n. | time of sam | ole <u>9:5</u> | Deptlen or free produ | i to water act <u>5116</u> 4 | 11.05 A |
| ume glit of ter | | Diameter 2 inch | 4 inch | Volume | Number of well yolumes | total gallons to purge |
| lumn | 80:65 ft. | (0.16) | | /, 3 gals. | 5 | - <u>7</u> gal |
| ME 320 | VOLUME P | URGED pH gals 9. gals 9. gals 9. gals 9. gals 9. gals 9. | co 7 | NBUCTIVITY 7 99 7 35 7.64 | TEMP 63.6 64.3 63.4 63.7 | NOTES 63.7 63.7 |
| | | gals gals gals | | | | |