

**BASELINE**  
ENVIRONMENTAL CONSULTING

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ENVIRONMENTAL  
PROTECTION

**TRANSMITTAL**

**TO:** Mr. Andrew Clark-Clough  
City of Oakland, Environmental Services  
1333 Broadway, Suite 330  
Oakland, Ca 94612

**Date:** 1 November 1996

**Project No:** 92404-D1

**SUBJECT:** June 1996 Semi-Annual Groundwater Monitoring Report,  
2662 Fruitvale Avenue, Oakland, CA

# 4457

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**COMMENTS:**

cc:Barney Chan, Alameda Co. Dept. of Env. Health (w/enclosure)

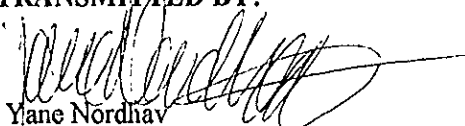
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Principal

**BASELINE**  
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12 August 1996  
92404-D1

COPY

Mr. Andrew Clark-Clough  
City of Oakland  
Environmental Services  
1333 Broadway Suite 330  
Oakland, CA 94612

**Subject: June 1996 Semi-Annual Groundwater Monitoring Report, 2662 Fruitvale Avenue, Oakland, California**

Dear Andrew:

This report documents the June 1996 groundwater monitoring event performed by BASELINE Environmental Consulting at the City of Oakland's property located at 2662 Fruitvale Avenue in Oakland, California (Figure 1). BASELINE has been performing groundwater monitoring of the site since August 1993. The purpose of the groundwater monitoring is to identify any changes in shallow groundwater quality at the site.

**Background**

A Phase I site assessment conducted at the site indicated that a service station, which included an auto repair facility, was present on the site from the 1940s to the 1980s. In 1983, the City of Oakland purchased the site from Texaco. The site was subsequently rented for use as a produce stand and Christmas tree sales lot.

In January and August 1993, BASELINE performed soil and groundwater investigations at the site. The results of these investigations identified the presence of petroleum hydrocarbons at varying concentrations in the soil throughout the site. The groundwater investigation, which included installation of three monitoring wells (MW-F1, MW-F2, and MW-F3), indicated that groundwater quality beneath the site was not significantly impacted. Following the completion of these investigations, the City of Oakland demolished the structures on-site.

In September 1994, BASELINE installed a fourth monitoring well, MW-F4, and five soil borings on-site, and two well points, HP-F1 and HP-F3, off-site. Petroleum hydrocarbons were detected in the groundwater samples from MW-F4, HP-F1, and HP-F3. Oil and grease were detected in soil samples collected in the vicinity of a former sump location. An off-site well, MW-13, installed by others to investigate a release of petroleum hydrocarbons at 2681

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12 August 1996  
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Fruitvale Avenue, was monitored. Approximately 0.5 foot of floating product was identified by BASELINE in this well following purging of the well.

To assess the extent of gasoline contaminants in groundwater downgradient of the site and downgradient of MW-13, two additional monitoring wells were installed in April and June 1995. Well MW-F5 was installed in April 1995 and well MW-F6 was installed in June 1995 along Fruitvale Avenue south of Davis Street. The results of groundwater sampling performed in June 1995 indicated 0.10 mg/L of TPH as gasoline in a sample collected from MW-F5; all other TPH and BTEX results were below detection limits for both wells. Floating product was detected again in MW-13. These results indicated that the limits of groundwater contamination at the site had been identified. Following the June 1995 sampling episode, groundwater sampling was changed to semi-annual from quarterly.

### **Groundwater Sampling Activities, June 1996**

Groundwater samples were collected from monitoring wells MW-F2, MW-F3, MW-F4, and off-site wells, MW-F5, MW-F6, and MW-13, on 27 June 1996 (Figure 2). Prior to sampling activities, the presence of floating product was checked and water levels were measured in each of the wells using a dual-interface probe. The probe was decontaminated by washing in a trisodium phosphate solution and rinsing in deionized water after use in each well. Approximately 1/3-inch of product was detected in MW-13. Floating product was not detected in any other wells.

Approximately three to four well volumes were slowly purged from each well using a double-diaphragm pump and new disposable polyethylene tubing. The temperature, pH, and electrical conductivity of the groundwater were monitored during purging until they appeared to have stabilized. All decontamination rinsate and purge water were stored on-site in a sealed drum pending laboratory analysis.

After the water levels recovered to at least 90 percent of the original level, groundwater samples were collected from each well using a new disposable PVC bailer. The sample bottles were labeled, placed in a cooler containing ice, and transported using chain-of-custody procedures to Chromalab, Inc., a California certified laboratory. The groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline and benzene, toluene, ethylbenzene, and xylenes (BTEX). Groundwater sampling forms documenting the June 1996 sampling activities are included as Attachment A.

### **Analytical Results**

TPH as gasoline and BTEX were not identified in the groundwater samples collected from off-site monitoring wells MW-F5 and MW-F6. Low concentrations of TPH as gasoline were detected in the samples from MW-F2 (0.064 mg/L) and MW-F3 (0.088 mg/L). TPH as

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gasoline was also detected in samples from MW-F4 (6.2 mg/L) and MW-13 (18 mg/L). Low but detectable levels of benzene were identified in samples from MW-F2 (0.0012 mg/L) and MW-F3 (0.002 mg/L). The samples from MW-F4 and MW-13 contained BTEX. The analytical results are summarized in Table 1; the laboratory report for the July 1996 sampling event is included in Attachment B.

### **Groundwater Flow Direction and Gradient**

The depth to groundwater measurements collected in monitoring wells MW-F1 through MW-F6 and MW-13 during this groundwater monitoring event ranged from 9.75 to 11.51 feet below ground surface. The direction of groundwater at the site was calculated to be toward the west to northwest (N85W), with a gradient magnitude of 0.03 ft/ft. Groundwater elevation data and calculated flow direction are summarized in Table 2 and shown on Figure 3.

### **Conclusions**

- The groundwater quality at the southwestern corner of the site has been impacted by a release of gasoline. Gasoline and BTEX concentrations in all the samples have decreased or remained at levels not reported above the laboratory reporting limit, except in the sample from MW-F2.
- The sample from MW-F2 contained reportable concentrations of gasoline and benzene during this sampling event; during the last groundwater monitoring event (December 1995), gasoline and BTEX were not identified above the laboratory reporting limits. The samples collected from this well between August 1993 and December 1995 did not contain benzene above the laboratory reporting limits.
- Floating product continues to be present in the off-site well MW-13, downgradient of the project site. The detection of floating product confirms the presence of a thin layer of non-aqueous phase liquid on the groundwater at the location of this well.
- The westward groundwater flow direction calculated during this monitoring event is consistent with the groundwater flow directions from previous monitoring events (S47W to N87W).

### **Recommendations**

- Semi-annual groundwater monitoring should be continued at MW-F2 through MW-F6 and MW-13 to monitor changes in groundwater quality and the thickness of floating

# BASELINE

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product in MW-13. The next groundwater monitoring event should be conducted in December 1996.

- In response to a request made by Mr. Barney Chan of the Alameda County Department of Environmental Health (ACDEH), the appropriateness of placement of oxygen releasing compounds (ORCs) in Monitoring Wells MW-13 and MW-F4 will be evaluated. Following development of the installation strategy for the ORCs, a work plan should be submitted to ACDEH and the San Francisco Regional Water Quality Control Board for review and approval.
- Copies of this report should be submitted to Mr. Barney Chan of the Alameda County Department of Environmental Health and Mr. Richard Hiatt of the San Francisco Bay Regional Water Quality Control Board.

Should you have any questions regarding this report or need further information, please do not hesitate to contact us at your convenience.

Sincerely,



Kevin O'Dea  
Senior Engineering Geologist  
Cert. Eng. Geologist No. 1702

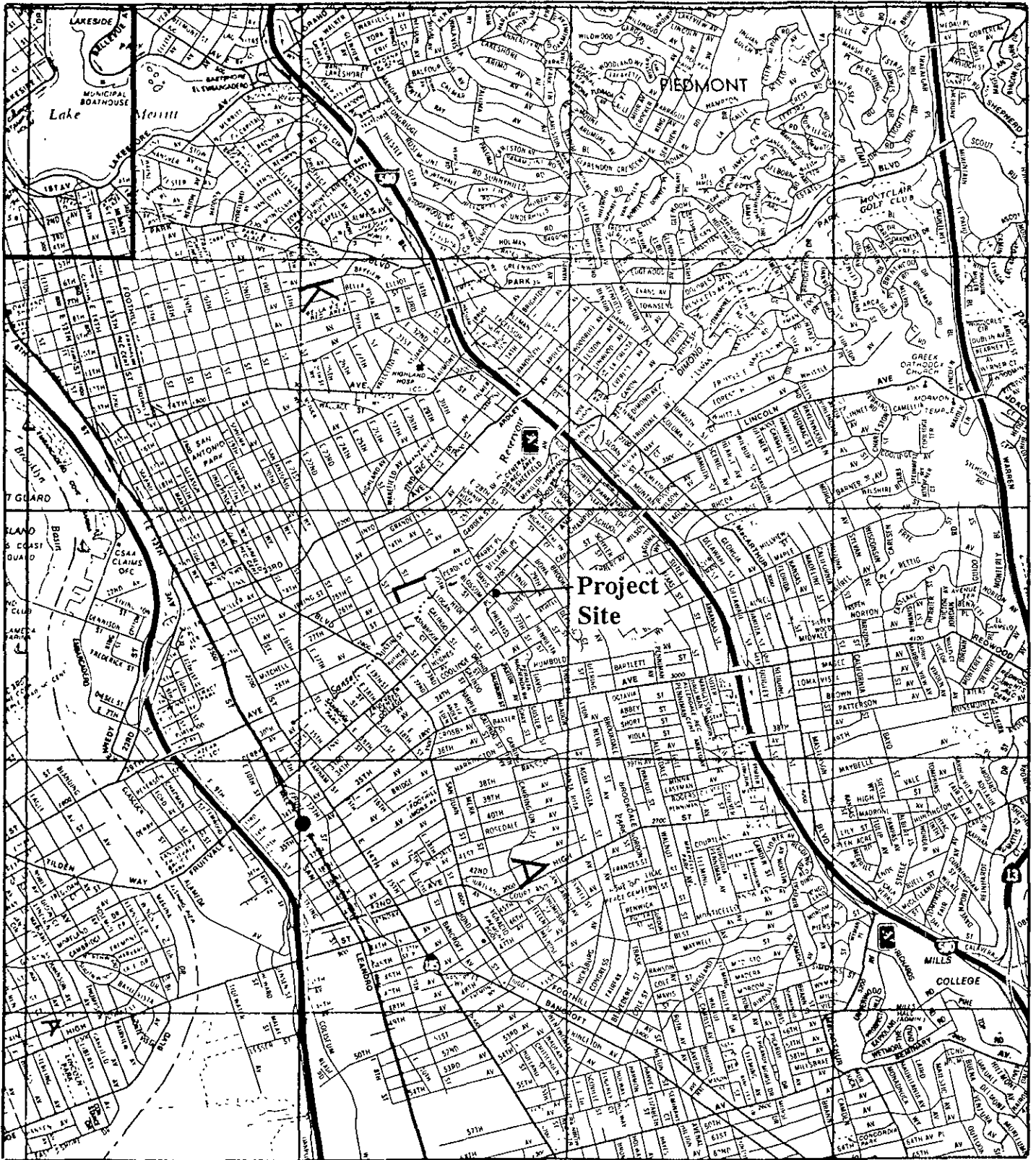


Rhodora Del Rosario  
Civil Engineer

KOD:RD:cr  
Attachment

# REGIONAL LOCATION

# Figure 1

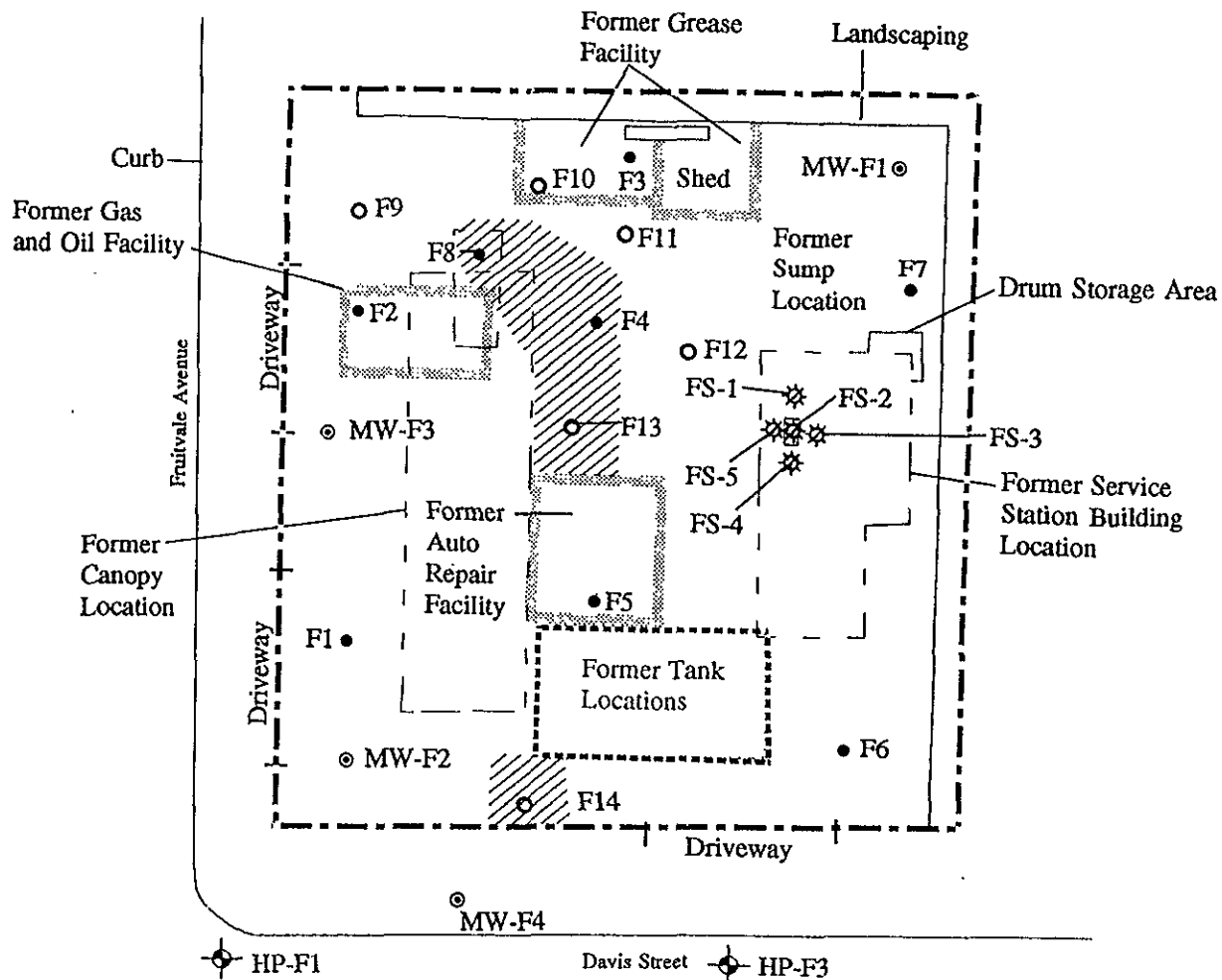


2662 Fruitvale Avenue  
Oakland, California



# SITE PLAN

# Figure 2



⊙ MW-13

## Legend



Areas with Elevated TPH Concentrations

F1 to F8 • Soil Boring Location - Phase II

F9 to F14 ○ Soil Boring Location - Phase III

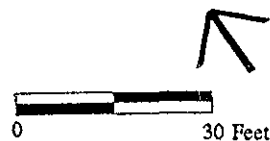
FS-1 ✱ Sump Area Boring Location

MW-F2 ⊙ Monitoring Well Location

HP-F1 ⊕ Temporary Well Location

--- Project Site Boundary

**2662 Fruitvale Avenue  
Oakland, California**

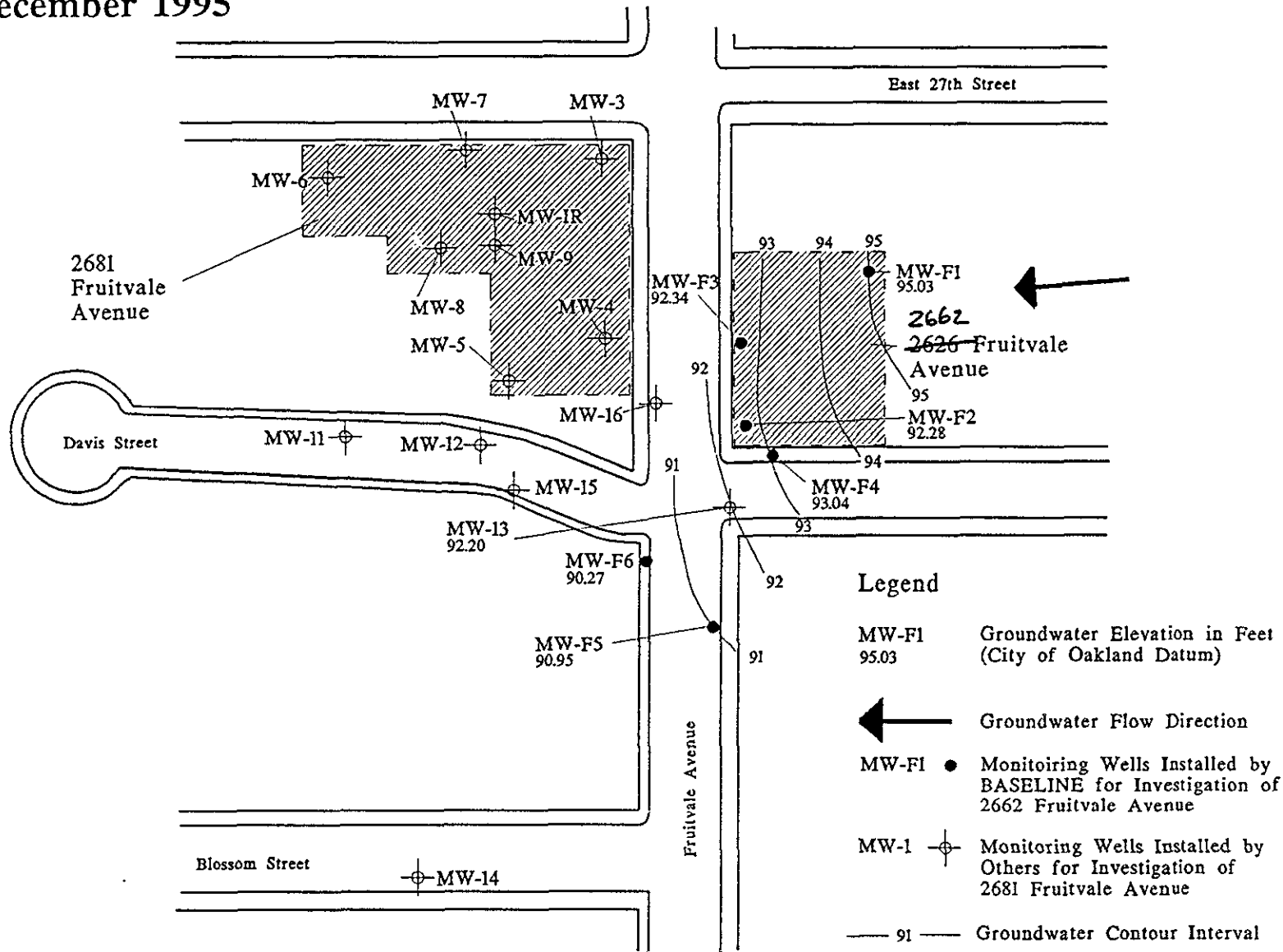


**BASELINE**

# GROUNDWATER ELEVATION MAP

29 December 1995

Figure 3



## 2662 Fruitvale Avenue Oakland, California

Source: Base Map - Modified from Groundwater Technology, Inc., 1993, Site Plan Map.



TABLE I

SUMMARY OF ANALYTICAL RESULTS, GROUNDWATER  
2662 Fruitvale Avenue, Oakland, California

(mg/L)

| Sample Location         | Sample Date | TPH as Gasoline <sup>1</sup> | TPH as Motor Oil <sup>2</sup> | Benzene <sup>3</sup> | Toluene <sup>3</sup> | Ethyl-benzene <sup>3</sup> | Xylenes <sup>3</sup> |
|-------------------------|-------------|------------------------------|-------------------------------|----------------------|----------------------|----------------------------|----------------------|
| <u>Monitoring Wells</u> |             |                              |                               |                      |                      |                            |                      |
| MW-F1                   | 08-16-93    | <0.05                        | <0.5                          | <0.002               | <0.002               | <0.002                     | <0.002               |
|                         | 06-29-94    | <0.05                        | --                            | <0.0005              | <0.0005              | <0.0005                    | <0.0005              |
|                         | 09-09-94    | <0.9                         | --                            | <0.0009              | <0.0009              | <0.0009                    | <0.0009              |
|                         | 12-21-94    | <0.05                        | --                            | <0.0005              | <0.0005              | <0.0005                    | <0.0005              |
|                         | 06-30-95    | <0.05                        | --                            | <0.0005              | <0.0005              | <0.0005                    | <0.0005              |
|                         | 12-29-95    | <0.05                        | --                            | <0.0005              | <0.0005              | <0.0005                    | <0.0005              |
| MW-F2                   | 08-16-93    | <0.05                        | <0.5                          | <0.002               | <0.002               | <0.002                     | <0.002               |
|                         | 06-29-94    | <0.05                        | --                            | <0.0005              | <0.0005              | <0.0005                    | <0.0005              |
|                         | 09-09-94    | <0.9                         | --                            | <0.0009              | <0.0009              | <0.0009                    | <0.0009              |
|                         | 12-21-94    | <b>0.096</b>                 | --                            | <0.0005              | <0.0005              | <0.0005                    | <0.0005              |
|                         | 06-30-95    | <b>0.34</b>                  | --                            | <0.0005              | <0.0005              | <0.0005                    | <b>0.0005</b>        |
|                         | 12-29-95    | <0.05                        | --                            | <0.0005              | <0.0005              | <0.0005                    | <0.0005              |
| MW-F3                   | 08-16-93    | <0.1                         | <0.5                          | <0.002               | <0.002               | <0.002                     | <0.002               |
|                         | 06-29-94    | <0.05                        | --                            | <0.0005              | <0.0005              | <0.0005                    | <0.0005              |
|                         | 09-09-94    | <0.9                         | --                            | <0.0009              | <0.0009              | <0.0009                    | <0.0009              |
|                         | 12-21-94    | <b>0.13</b>                  | --                            | <0.0005              | <b>0.0013</b>        | <0.0005                    | <0.0005              |
|                         | 06-30-95    | <b>0.11</b>                  | --                            | <0.0005              | <0.0005              | <0.0005                    | <0.0005              |
|                         | 12-29-95    | <b>0.35</b>                  | --                            | <b>0.0008</b>        | <0.0005              | <b>0.0012</b>              | <b>0.0007</b>        |
| MW-F4                   | 06-27-96    | <b>0.088</b>                 | --                            | <b>0.002</b>         | <0.0005              | <0.0005                    | <0.0005              |
|                         | 09-09-94    | 3.4-3.5                      | --                            | 0.029/0.028          | 0.0030/0.0028        | 0.038/0.033                | 0.094/0.099          |
|                         | 12-21-94    | 37                           | --                            | 0.66                 | <0.1                 | 2.3                        | 5.9                  |
|                         | 06-30-95    | 9.2                          | --                            | 0.18                 | 0.019                | 0.76                       | 1.0                  |
|                         | 12-29-95    | 38                           | --                            | 0.61                 | 0.14                 | 4.3                        | 5.8                  |
|                         | 06-27-96    | 6.2                          | --                            | 0.081                | 0.0095               | 0.52                       | 0.29                 |

12/96 27

,390

Table 1 - Summary of Analytical Results, Groundwater - *continued*

| Sample Location                 | Sample Date | TPH as Gasoline <sup>1</sup> | TPH as Motor Oil <sup>2</sup> | Benzene <sup>3</sup> | Toluene <sup>3</sup> | Ethylbenzene <sup>3</sup> | Xylenes <sup>3</sup> |
|---------------------------------|-------------|------------------------------|-------------------------------|----------------------|----------------------|---------------------------|----------------------|
| MW-F5                           | 06-30-95    | <b>0.10</b>                  | --                            | <0.0005              | <0.0005              | <0.0005                   | <0.0005              |
|                                 | 12-29-95    | <0.05                        | --                            | <0.0005              | <0.0005              | <0.0005                   | <b>0.0007</b>        |
|                                 | 06-27-96    | <0.05                        | --                            | <0.0005              | <0.0005              | <0.0005                   | V                    |
| MW-F6                           | 06-30-95    | <0.05                        | --                            | <0.0005              | <0.0005              | <0.0005                   | <0.0005              |
|                                 | 12-29-95    | <0.05                        | --                            | <0.0005              | <0.0005              | <0.0005                   | <0.0005              |
|                                 | 06-27-96    | <0.05                        | --                            | <0.0005              | <0.0005              | <0.0005                   | <0.0005              |
| MW-13                           | 12-21-94    | <b>3.3</b>                   | --                            | <b>0.33</b>          | <0.013               | <b>0.024</b>              | <b>0.24</b>          |
|                                 | 06-30-95    | <b>22</b>                    | --                            | <b>0.85</b>          | <0.0005              | <b>1.2</b>                | <b>1.6</b>           |
|                                 | 12-29-95    | <b>22</b>                    | --                            | <b>0.97</b>          | <b>0.078</b>         | <b>1.8</b>                | <b>2.4</b>           |
|                                 | 06-27-96    | <b>18</b>                    | --                            | <b>0.63</b>          | <b>0.026</b>         | <b>1.1</b>                | <b>1.0</b>           |
| <u>Soil Borings<sup>4</sup></u> |             | <u><b>16</b></u>             |                               | <u><b>.67</b></u>    | <u><b>.040</b></u>   |                           |                      |
| F1 <sup>5</sup>                 | 1-20-93     | <b>13</b>                    | <0.5                          | <b>0.61</b>          | <0.018               | <b>0.83</b>               | <b>0.046</b>         |
| F2 <sup>5,6</sup>               | 1-20-93     | <b>6.8</b>                   | <0.5                          | <b>0.011</b>         | <0.002               | <b>0.016</b>              | <0.002               |
| F5                              | 1-20-93     | <0.05                        | --                            | --                   | --                   | --                        | --                   |
| F7                              | 1-20-93     | <0.05                        | <0.5                          | --                   | --                   | --                        | --                   |
| <u>Hydropunch</u>               |             |                              |                               |                      |                      |                           |                      |
| HP-F1                           | 9-09-94     | <b>26</b>                    | --                            | <b>0.46</b>          | <b>0.16</b>          | <b>1.5</b>                | <b>4.4</b>           |
| HP-F3                           | 9-09-94     | <b>0.21</b>                  | --                            | <b>0.0009</b>        | <b>0.0007</b>        | <b>0.0049</b>             | <b>0.02</b>          |

Notes: <x.x = Compound not identified above reporting limits.

x.x = Bold values indicate compound identified above reporting limits.

x.x/x.x = Analytical testing results for duplicate samples.

-- = Compound not analyzed.

TPH = Total petroleum hydrocarbons.

Sample locations are shown on Figures 2 and 3.

Laboratory reports for July 1996 groundwater analyses are included in Attachment B.

<sup>1</sup> Test Method = EPA 5030/8015.

<sup>2</sup> Test Method = EPA 3510/8015.

<sup>3</sup> Test Method = EPA 602 or 624.

<sup>4</sup> Water collected from open boreholes in January 1993.

<sup>5</sup> Sample also analyzed for Title 26 metals; all metal concentrations less than STLC.

<sup>6</sup> Sample contained trans-1,3-dichloropropene.

TABLE 2

**GROUNDWATER ELEVATION AND GRADIENT DETERMINATION DATA**  
2662 Fruitvale Avenue, Oakland, CA

| Monitoring Well    | Date                    | TOC Elevation (feet) <sup>1</sup> | Depth to Groundwater (feet) | Groundwater Elevation (feet) <sup>1</sup> | Groundwater Gradient |           |
|--------------------|-------------------------|-----------------------------------|-----------------------------|---|----------------------|-----------|
|                    |                         |                                   |                             |   | Direction            | Magnitude |
| MW-F1              | 08/16/93                | 104.41                            | 11.13                       | 93.28                                     | S88W                 | 0.025     |
|                    | 06/29/94                |                                   | 10.38                       | 93.53                                     | N87W                 | 0.026     |
|                    | 09/09/94                |                                   | 11.56                       | 92.85                                     | S82W                 | 0.03      |
|                    | 12/21/94                |                                   | 8.96                        | 95.45                                     | S47W                 | 0.028     |
|                    | 06/30/95                |                                   | 10.49                       | 93.92                                     | S86W                 | 0.025     |
|                    | 12/29/95                |                                   | 9.38                        | 95.03                                     | N79W                 | 0.027     |
|                    | 06/27/96                |                                   | 10.69                       | 93.72                                     | N85W                 | 0.03      |
| MW-F2              | 08/16/93                | 102.22                            | 12.15                       | 90.07                                     |                      |           |
|                    | 06/29/94                |                                   | 11.74                       | 90.48                                     |                      |           |
|                    | 09/09/94                |                                   | 12.21                       | 90.01                                     |                      |           |
|                    | 12/21/94                |                                   | 10.34 <sup>4</sup>          | 91.88                                     |                      |           |
|                    | 06/30/95                |                                   | 11.32                       | 90.90                                     |                      |           |
|                    | 12/29/95                |                                   | 9.94                        | 92.28                                     |                      |           |
|                    | 06/27/96                |                                   | 11.51                       | 90.71                                     |                      |           |
| MW-F3              | 08/16/93                | 102.42                            | 11.99                       | 90.43                                     |                      |           |
|                    | 06/29/94                |                                   | 11.40                       | 91.02                                     |                      |           |
|                    | 09/09/94                |                                   | 12.39                       | 90.03                                     |                      |           |
|                    | 12/21/94                |                                   | 9.32                        | 93.10                                     |                      |           |
|                    | 06/30/95                |                                   | 11.14                       | 91.28                                     |                      |           |
|                    | 12/29/95                |                                   | 10.08                       | 92.34                                     |                      |           |
|                    | 06/27/96                |                                   | 11.31                       | 91.11                                     |                      |           |
| MW-F4              | 09/09/94                | 101.56                            | 11.21                       | 90.35                                     |                      |           |
|                    | 12/21/94                |                                   | 8.00                        | 93.56                                     |                      |           |
|                    | 06/30/95                |                                   | 10.08                       | 91.48                                     |                      |           |
|                    | 12/29/95                |                                   | 8.52                        | 93.04                                     |                      |           |
|                    | 06/27/96                |                                   | 9.75                        | 91.81                                     |                      |           |
| MW-F5              | 06/30/95                | 100.32                            | 11.09                       | 89.23                                     |                      |           |
|                    | 12/29/95                |                                   | 9.37                        | 90.95                                     |                      |           |
|                    | 06/27/96                |                                   | 11.33                       | 88.99                                     |                      |           |
| MW-F6              | 06/30/95                | 100.11                            | 10.96                       | 89.15                                     |                      |           |
|                    | 12/29/95                |                                   | 9.84                        | 90.27                                     |                      |           |
|                    | 06/27/96                |                                   | 10.98                       | 89.13                                     |                      |           |
| MW-13 <sup>2</sup> | 09/09/94 <sup>3</sup>   | 101.20                            | 12.27                       | 88.93                                     |                      |           |
|                    | 12/21/94 <sup>4,5</sup> |                                   | 9.32                        | 91.88                                     |                      |           |
|                    | 06/30/95 <sup>6</sup>   |                                   | 11.32                       | 89.88                                     |                      |           |
|                    | 12/29/95 <sup>7</sup>   |                                   | 9.00                        | 92.20                                     |                      |           |
|                    | 06/27/96 <sup>8</sup>   |                                   | 11.49                       | 89.71                                     |                      |           |

Note: See Figure 3 for groundwater flow direction and contours.

- <sup>1</sup> Elevations are presented as feet above City of Oakland datum (which is three feet below mean sea level datum).
- <sup>2</sup> Monitoring well installed by Resna for investigation of 2681 Fruitvale Avenue.
- <sup>3</sup> Approximately 0.04 feet of hydrocarbon product detected by dual interface probe.
- <sup>4</sup> Groundwater level had not completely stabilized prior to measurement.
- <sup>5</sup> Approximately 0.25 inch free product measured in bailer prior to purging.
- <sup>6</sup> Hydrocarbon sheen observed on dual interface probe when removed from the well; hydrocarbon not detected by probe.
- <sup>7</sup> Groundwater level approximate - hydrocarbon/water level not detected by probe - measurement not used in groundwater flow calculations.
- <sup>8</sup> Approximately 1/3-inch of free product measured in bailer prior to purging.

**ATTACHMENT A**  
**GROUNDWATER SAMPLING FORMS**

# GROUNDWATER SAMPLING

|  |   |                      |
|--|---|----------------------|
| Project no.: <u>92404-D0</u>                             | Well no.: <u>MW-F2</u>                                      | Date: <u>6/27/96</u> |
| Project name: <u>Fruitvale Avenue</u>                    | Depth of well from TOC (feet): <u>19.88</u>                 |                      |
| Location: <u>2662 Fruitvale Avenue</u>                   | Well diameter (inch): <u>2</u>                              |                      |
| <u>Oakland, CA</u>                                       | Screened interval from TOC (feet): <u>8.5-19.88</u>         |                      |
| Recorded by: <u>WKS</u>                                  | TOC elevation (feet): <u>102.22 (City of Oakland datum)</u> |                      |
| Weather: <u>Overcast with drizzle (AM) to sunny (PM)</u> | Water level from TOC (feet): <u>11.51</u>                   | Time: <u>7:20</u>    |
| Precip in past   | Product level from TOC (feet): <u>None</u>                  | Time: <u>7:20</u>    |
| 5 days (inch): <u>Trace</u>                              | Water level measurement device: <u>Dual interface probe</u> |                      |

## VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING:

|   |                                       |
|---|---------------------------------------|
| $[(19.88 \text{ ft}) - (11.51 \text{ ft})] \times (0.083 \text{ ft})^2 \times 3.14 \times 7.48 =$ | <u>1.4</u> gallons in one well volume |
| Well depth    Water level    Well radius  | <u>7.0</u> gallons in 5 well volumes  |
|   | <u>5</u> total gallons removed        |

## CALIBRATION:

|                       | <u>Time</u> | <u>Temp</u><br>(° C) | <u>pH</u> | <u>EC</u><br>(µmho/cm) |
|-----------------------|-------------|----------------------|-----------|------------------------|
| Calibration Standard: |             |                      | 7.00      | 1,000                  |
| Before Purging:       | 7:51        | 17.4                 | 7.00      | 900                    |
| After Purging:        | 11:47       | 18.1                 | 6.84      | 900                    |

## FIELD MEASUREMENTS:

| <u>Time</u> | <u>Temp</u><br>(° C) | <u>pH</u> | <u>EC</u><br>(µmho/cm) | <u>Cumulative</u><br><u>Gallons</u><br><u>Removed</u> | <u>Appearance</u> |
|-------------|----------------------|-----------|------------------------|---|-------------------|
| 9:14        | 18.0                 | 6.35      | 420                    | 1   | Clear             |
| 9:20        | 18.5                 | 6.38      | 420                    | 2.5   | Clear             |
| 9:31        | 18.1                 | 6.41      | 420                    | 5   | Clear             |

|   |                                      |  |
|---|--------------------------------------|--|
| Water level after purging prior to sampling (feet): | <u>11.74</u>                         | Time: <u>12:55 PM</u>                          |
| Appearance of sample:                               | <u>Clear</u>                         | Time: <u>1:00 PM</u>                           |
| Duplicate/blank number:                             | <u>None</u>                          | Time: <u>--</u>                                |
| Purge method:                                       | <u>Double diaphragm pump</u>         |  |
| Sampling equipment:                                 | <u>Disposable PVC bailer</u>         | VOC attachment: <u>--</u>                      |
| Sample containers:                                  | <u>3 40-ml VOAs</u>                  |  |
| Sample analyses:                                    | <u>TPH as gasoline, BTXE</u>         | Laboratory: <u>Chromalab</u>                   |
| Decontamination method:                             | <u>TSP and water, DI water rinse</u> | Rinsate disposal: <u>MW-F1 to F6 and MW-13</u> |

92404696 XLS (7/11/96)

# GROUNDWATER SAMPLING

|                |   |                                    |                                       |       |                |
|----------------|---|------------------------------------|---------------------------------------|-------|----------------|
| Project no.:   | <u>92404-D0</u>                                 | Well no.:                          | <u>MW-F3</u>                          | Date: | <u>6/27/96</u> |
| Project name:  | <u>Fruitvale Avenue</u>                         | Depth of well from TOC (feet):     | <u>24.45</u>                          |       |                |
| Location:      | <u>2662 Fruitvale Avenue</u>                    | Well diameter (inch):              | <u>2</u>                              |       |                |
|                | <u>Oakland, CA</u>                              | Screened interval from TOC (feet): | <u>8.5-24.45</u>                      |       |                |
| Recorded by:   | <u>WKS</u>                                      | TOC elevation (feet):              | <u>102.42 (City of Oakland datum)</u> |       |                |
| Weather:       | <u>Overcast with drizzle (AM) to sunny (PM)</u> | Water level from TOC (feet):       | <u>11.31</u>                          | Time: | <u>7:22</u>    |
| Precip in past |   | Product level from TOC (feet):     | <u>None</u>                           | Time: | <u>7:22</u>    |
| 5 days (inch): | <u>Trace</u>                                    | Water level measurement device:    | <u>Dual interface probe</u>           |       |                |

## VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING:

$$[(24.45 \text{ ft}) - (11.31 \text{ ft})] \times (0.083 \text{ ft})^2 \times 3.14 \times 7.48 =$$

|            |             |             |                                |
|------------|-------------|-------------|--------------------------------|
| Well depth | Water level | Well radius | 2.1 gallons in one well volume |
|            |             |             | 10.6 gallons in 5 well volumes |
|            |             |             | 7 total gallons removed        |

## CALIBRATION:

|                       | Time  | Temp<br>(° C) | pH   | EC<br>(µmho/cm) |
|-----------------------|-------|---------------|------|-----------------|
| Calibration Standard: |       |               | 7.00 | 1,000           |
| Before Purging:       | 7:51  | 17.4          | 7.00 | 900             |
| After Purging:        | 11:47 | 18.1          | 6.84 | 900             |

## FIELD MEASUREMENTS:

| Time | Temp<br>(° C) | pH   | EC<br>(µmho/cm) | Cumulative<br>Gallons<br>Removed | Appearance |
|------|---------------|------|-----------------|----------------------------------|------------|
| 9:41 | 18.7          | 6.44 | 480             | 1                                | Clear      |
| 9:46 | 18.8          | 6.31 | 490             | 2.5                              | Clear      |
| 9:51 | 18.9          | 6.31 | 490             | 5                                | Clear      |
| 9:57 | 18.8          | 6.36 | 490             | 7                                | Clear      |

|   |                                      |                   |                              |
|---|--------------------------------------|-------------------|------------------------------|
| Water level after purging prior to sampling (feet): | <u>12.28</u>                         | Time:             | <u>12:45 PM</u>              |
| Appearance of sample:                               | <u>Clear</u>                         | Time:             | <u>12:50 PM</u>              |
| Duplicate/blank number:                             | <u>None</u>                          | Time:             |                              |
| Purge method:                                       | <u>Double diaphragm pump</u>         |                   |                              |
| Sampling equipment:                                 | <u>Disposable PVC bailer</u>         | VOC attachment:   | <u>--</u>                    |
| Sample containers:                                  | <u>3 40-ml VOAs</u>                  |                   |                              |
| Sample analyses:                                    | <u>TPH as gasoline, BTXE</u>         | Laboratory:       | <u>Chromalab</u>             |
| Decontamination method:                             | <u>TSP and water, DI water rinse</u> | Rinsate disposal: | <u>MW-F1 to F6 and MW-13</u> |

92404696.XLS (7/11/96)

# GROUNDWATER SAMPLING

|                |  |                                    |                                       |       |                |
|----------------|--|------------------------------------|---------------------------------------|-------|----------------|
| Project no.:   | <u>92404-D0</u>                                    | Well no.:                          | <u>MW-F4</u>                          | Date: | <u>6/27/96</u> |
| Project name:  | <u>Fruitvale Avenue</u>                            | Depth of well from TOC (feet):     | <u>16.84</u>                          |       |                |
| Location:      | <u>2662 Fruitvale Avenue</u><br><u>Oakland, CA</u> | Well diameter (inch):              | <u>2</u>                              |       |                |
| Recorded by:   | <u>WKS</u>   | Screened interval from TOC (feet): | <u>8.5-16.84</u>                      |       |                |
| Weather:       | <u>Overcast with drizzle (AM) to sunny (PM)</u>    | TOC elevation (feet):              | <u>101.56 (City of Oakland datum)</u> |       |                |
| Precip in past |  | Water level from TOC (feet):       | <u>9.75</u>                           | Time: | <u>7:24</u>    |
| 5 days (inch): | <u>Trace</u>                                       | Product level from TOC (feet):     | <u>None</u>                           | Time: | <u>7:24</u>    |
|                |  | Water level measurement device:    | <u>Dual interface probe</u>           |       |                |

## VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING:

$$[(16.84 \text{ ft}) - (9.75 \text{ ft})] \times (0.083 \text{ ft})^2 \times 3.14 \times 7.48 =$$

|            |             |             |  |                                       |
|------------|-------------|-------------|--|---------------------------------------|
| Well depth | Water level | Well radius |  | <u>1.1</u> gallons in one well volume |
|            |             |             |  | <u>5.7</u> gallons in 5 well volumes  |
|            |             |             |  | <u>4</u> total gallons removed        |

## CALIBRATION:

|                       | Time  | Temp<br>(° C) | pH   | EC<br>(µmho/cm) |
|-----------------------|-------|---------------|------|-----------------|
| Calibration Standard: |       |               |      |                 |
| Before Purging:       | 7:51  | 17.4          | 7.00 | 1,000           |
| After Purging:        | 11:47 | 18.1          | 6.84 | 900             |

## FIELD MEASUREMENTS:

| Time | Temp<br>(° C) | pH   | EC<br>(µmho/cm) | Cumulative<br>Gallons<br>Removed | Appearance            |
|------|---------------|------|-----------------|----------------------------------|-----------------------|
| 7:54 | 17.8          | 6.21 | 440             | 0.3                              | Clear, petroleum odor |
| 7:57 | 18.5          | 6.15 | 440             | 1                                | Clear, petroleum odor |
| 8:10 | 19.4          | 6.07 | 460             | 2                                | Clear, petroleum odor |
| 8:23 | 19.1          | 6.22 | 460             | 4                                | Clear, petroleum odor |

|   |                                      |                   |                              |
|---|--------------------------------------|-------------------|------------------------------|
| Water level after purging prior to sampling (feet): | <u>11.21</u>                         | Time:             | <u>1:05 PM</u>               |
| Appearance of sample:                               | <u>Clear</u>                         | Time:             | <u>1:10 PM</u>               |
| Duplicate/blank number:                             | <u>None</u>                          | Time:             | <u>--</u>                    |
| Purge method:                                       | <u>Double diaphragm pump</u>         |                   |                              |
| Sampling equipment:                                 | <u>Disposable PVC bailer</u>         | VOC attachment:   | <u>--</u>                    |
| Sample containers:                                  | <u>3 40-ml VOAs</u>                  |                   |                              |
| Sample analyses:                                    | <u>TPH as gasoline, BTXE</u>         | Laboratory:       | <u>Chromalab</u>             |
| Decontamination method:                             | <u>TSP and water, DI water rinse</u> | Rinsate disposal: | <u>MW-F1 to F6 and MW-13</u> |

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# GROUNDWATER SAMPLING

|  |   |                      |
|--|---|----------------------|
| Project no.: <u>92404-D0</u>                             | Well no.: <u>MW-F5</u>                                      | Date: <u>6/27/96</u> |
| Project name: <u>Fruitvale Avenue</u>                    | Depth of well from TOC (feet): <u>24.01</u>                 |                      |
| Location: <u>2662 Fruitvale Avenue</u>                   | Well diameter (inch): <u>2</u>                              |                      |
| <u>Oakland, CA</u>                                       | Screened interval from TOC (feet): <u>8.5-24.01</u>         |                      |
| Recorded by: <u>WKS</u>                                  | TOC elevation (feet): <u>100.32 (City of Oakland datum)</u> |                      |
| Weather: <u>Overcast with drizzle (AM) to sunny (PM)</u> | Water level from TOC (feet): <u>11.33</u>                   | Time: <u>7:26</u>    |
| Precip in past   | Product level from TOC (feet): <u>None</u>                  | Time: <u>7:26</u>    |
| 5 days (inch): <u>Trace</u>                              | Water level measurement device: <u>Dual interface probe</u> |                      |

## VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING:

$$[(24.01 \text{ ft}) - (11.33 \text{ ft})] \times (0.083 \text{ ft})^2 \times 3.14 \times 7.48 =$$

|            |             |             |                                       |
|------------|-------------|-------------|---------------------------------------|
| Well depth | Water level | Well radius | <u>2.0</u> gallons in one well volume |
|            |             |             | <u>10.0</u> gallons in 5 well volumes |
|            |             |             | <u>7</u> total gallons removed        |

## CALIBRATION:

|                       | Time  | Temp<br>(° C) | pH   | EC<br>(µmho/cm) |
|-----------------------|-------|---------------|------|-----------------|
| Calibration Standard: |       |               | 7.00 | 1,000           |
| Before Purging:       | 7:51  | 17.4          | 7.00 | 900             |
| After Purging:        | 11:47 | 18.1          | 6.84 | 900             |

## FIELD MEASUREMENTS:

| Time | Temp<br>(° C) | pH   | EC<br>(µmho/cm) | Cumulative<br>Gallons<br>Removed | Appearance                    |
|------|---------------|------|-----------------|----------------------------------|-------------------------------|
| 8:36 | 18.1          | 6.35 | 400             | 0.5                              | Clear to very slightly turbid |
| 8:43 | 18.3          | 6.23 | 410             | 2.5                              | Clear                         |
| 8:50 | 18.3          | 6.24 | 410             | 4                                | Clear                         |
| 8:57 | 18.2          | 6.24 | 400             | 6                                | Clear                         |
| 9:02 | 18.4          | 6.23 | 400             | 7                                | Clear                         |

|   |                                      |  |
|---|--------------------------------------|--|
| Water level after purging prior to sampling (feet): | <u>11.39</u>                         | Time: <u>12:35 PM</u>                          |
| Appearance of sample:                               | <u>Clear</u>                         | Time: <u>12:40 PM</u>                          |
| Duplicate/blank number:                             | <u>None</u>                          | Time: <u>--</u>                                |
| Purge method:                                       | <u>Double diaphragm pump</u>         |  |
| Sampling equipment:                                 | <u>Disposable PVC bailer</u>         | VOC attachment: <u>--</u>                      |
| Sample containers:                                  | <u>3 40-ml VOAs</u>                  |  |
| Sample analyses:                                    | <u>TPH as gasoline, BTXE</u>         | Laboratory: <u>Chromalab</u>                   |
| Decontamination method:                             | <u>TSP and water, DI water rinse</u> | Rinsate disposal: <u>MW-F1 to F6 and MW-13</u> |

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# GROUNDWATER SAMPLING

Project no.: 92404-D0 Well no.: MW-F6 Date: 6/27/96  
 Project name: Fruitvale Avenue Depth of well from TOC (feet): 21  
 Location: 2662 Fruitvale Avenue Well diameter (inch): 2  
Oakland, CA Screened interval from TOC (feet): 9.0-21.0  
 Recorded by: WKS TOC elevation (feet): 100.11 (City of Oakland datum)  
 Weather: Overcast with drizzle (AM) to sunny (PM) Water level from TOC (feet): 10.98 Time: 7:29  
 Precip in past Product level from TOC (feet): None Time: 7:29  
 5 days (inch): Trace Water level measurement device: Dual interface probe

## VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING:

$$[(21.00 \text{ ft}) - (10.98 \text{ ft})] \times (0.083 \text{ ft})^2 \times 3.14 \times 7.48 =$$

|  |                                       |
|--|---------------------------------------|
|  | <u>1.6</u> gallons in one well volume |
| Well depth    Water level    Well radius | <u>8.1</u> gallons in 5 well volumes  |
|  | <u>6.5</u> total gallons removed      |

## CALIBRATION:

|                       | <u>Time</u> | <u>Temp</u><br><u>(° C)</u> | <u>pH</u> | <u>EC</u><br><u>(µmho/cm)</u> |
|-----------------------|-------------|-----------------------------|-----------|-------------------------------|
| Calibration Standard: |             |                             | 7.00      | 1,000                         |
| Before Purging:       | 7:51        | 17.4                        | 7.00      | 900                           |
| After Purging:        | 11:47       | 18.1                        | 6.84      | 900                           |

## FIELD MEASUREMENTS:

| <u>Time</u> | <u>Temp</u><br><u>(° C)</u> | <u>pH</u> | <u>EC</u><br><u>(µmho/cm)</u> | <u>Cumulative</u><br><u>Gallons</u><br><u>Removed</u> | <u>Appearance</u> |
|-------------|-----------------------------|-----------|-------------------------------|---|-------------------|
| 10:35       | 18.7                        | 6.58      | 400                           | 1   | Clear             |
| 10:39       | 18.7                        | 6.57      | 400                           | 2   | Clear             |
| 10:44       | 18.2                        | 6.58      | 400                           | 3.5   | Clear             |
| 10:49       | 18.7                        | 6.57      | 400                           | 5   | Clear             |
| 10:53       | 18.7                        | 6.57      | 400                           | 6.5   | Clear             |

Water level after purging prior to sampling (feet): 10.99 Time: 12:25 PM  
 Appearance of sample: Clear Time: 12:30 PM  
 Duplicate/blank number: None Time: --  
 Purge method: Double diaphragm pump  
 Sampling equipment: Disposable PVC bailer VOC attachment: --  
 Sample containers: 3 40-ml VOAs  
 Sample analyses: TPH as gasoline, BTXE Laboratory: Chromalab  
 Decontamination method: TSP and water, DI water rinse Rinsate disposal: MW-F1 to F6 and MW-13

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# GROUNDWATER SAMPLING

|                |   |                                    |                                       |       |                |
|----------------|---|------------------------------------|---------------------------------------|-------|----------------|
| Project no.:   | <u>92404-D0</u>                                 | Well no.:                          | <u>MW-13 (Chevron)</u>                | Date: | <u>6/27/96</u> |
| Project name:  | <u>Fruitvale Avenue</u>                         | Depth of well from TOC (feet):     | <u>24.13 (Soft bottom detected)</u>   |       |                |
| Location:      | <u>2662 Fruitvale Avenue</u>                    | Well diameter (inch):              | <u>2</u>                              |       |                |
|                | <u>Oakland, CA</u>                              | Screened interval from TOC (feet): | <u>8.5-24.5</u>                       |       |                |
| Recorded by:   | <u>WKS</u>                                      | TOC elevation (feet):              | <u>101.24 (City of Oakland datum)</u> |       |                |
| Weather:       | <u>Overcast with drizzle (AM) to sunny (PM)</u> | Water level from TOC (feet):       | <u>11.49</u>                          | Time: | <u>7:33</u>    |
| Precip in past |   | Product level from TOC:            | <u>Present*</u>                       | Time: | <u>7:33</u>    |
| 5 days (inch): | <u>Trace</u>                                    | Water level measurement device:    | <u>Disposable PVC bailer</u>          |       |                |

## VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING:

$$[(24.13 \text{ ft}) - (11.49 \text{ ft})] \times (0.083 \text{ ft})^2 \times 3.14 \times 7.48 =$$

|            |             |             |                                       |
|------------|-------------|-------------|---------------------------------------|
| Well depth | Water level | Well radius | <u>2.0</u> gallons in one well volume |
|            |             |             | <u>10.2</u> gallons in 5 well volumes |
|            |             |             | <u>7</u> total gallons removed        |

## CALIBRATION:

|                       | Time  | Temp<br>(° C) | pH   | EC<br>(µmho/cm) |
|-----------------------|-------|---------------|------|-----------------|
| Calibration Standard: |       |               | 7.00 | 1,000           |
| Before Purging:       | 7:51  | 17.4          | 7.00 | 900             |
| After Purging:        | 11:47 | 18.1          | 6.84 | 900             |

## FIELD MEASUREMENTS:

| Time  | Temp<br>(° C) | pH   | EC<br>(µmho/cm) | Cumulative<br>Gallons<br>Removed | Appearance                          |
|-------|---------------|------|-----------------|----------------------------------|-------------------------------------|
| 11:12 | 19.8          | 6.31 | 500             | 1.5                              | Clear, strong petroleum odor, sheen |
| 11:18 | 18.9          | 6.28 | 550             | 3                                | Clear, strong petroleum odor, sheen |
| 11:23 | 19.0          | 6.24 | 550             | 5                                | Clear, strong petroleum odor, sheen |
| 11:25 | 19.1          | 6.25 | 550             | 6                                | Clear, strong petroleum odor, sheen |
| 11:27 | 19.0          | 6.24 | 550             | 7                                | Clear, strong petroleum odor, sheen |

\* Trace of petroleum product evident on probe; 1/3-inch product encountered in bailer before purging.

|   |                                      |                   |                              |
|---|--------------------------------------|-------------------|------------------------------|
| Water level after purging prior to sampling (feet): | <u>11.54</u>                         | Time:             | <u>1:15 PM</u>               |
| Appearance of sample:                               | <u>Clear</u>                         | Time:             | <u>1:20 PM</u>               |
| Duplicate/blank number:                             | <u>None</u>                          | Time:             | <u>--</u>                    |
| Purge method:                                       | <u>Double diaphragm pump</u>         |                   |                              |
| Sampling equipment:                                 | <u>Disposable PVC bailer</u>         | VOC attachment:   | <u>--</u>                    |
| Sample containers:                                  | <u>3 40-ml VOAs</u>                  |                   |                              |
| Sample analyses:                                    | <u>TPH as gasoline, BTXE</u>         | Laboratory:       | <u>Chromalab</u>             |
| Decontamination method:                             | <u>TSP and water, DI water rinse</u> | Rinsate disposal: | <u>MW-F1 to F6 and MW-13</u> |

92404696.XLS (7/11/96)

**ATTACHMENT B**  
**LABORATORY REPORTS**

# CHROMALAB, INC.

Environmental Services (SDB)

July 8, 1996

Submission #: 9606924

BASELINE ENVIRONMENTAL/EMRYVL

Atten: Rhodora Del Rosario

Project: FRUITVALE AVE  
Received: June 28, 1996

Project#: 92404-DO

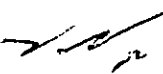
re: 2 samples for Gasoline and BTEX compounds analysis.  
Method: EPA 5030/8015M/8020


Sampled: June 27, 1996

Matrix: WATER  
Run#: 2064

Analyzed: July 5, 1996

| Spl#                   | CLIENT SPL ID | Gasoline<br>(ug/L) | Benzene<br>(ug/L) | Toluene<br>(ug/L) | Ethyl<br>Benzene<br>(ug/L) | Total<br>Xylenes<br>(ug/L) |
|------------------------|---------------|--------------------|-------------------|-------------------|----------------------------|----------------------------|
| 90256                  | MW-F2         | 64                 | 1.2               | N.D.              | N.D.                       | N.D.                       |
| 90257                  | MW-F3         | 88                 | 2.0               | N.D.              | N.D.                       | N.D.                       |
| Reporting Limits       |               | 50                 | 0.50              | 0.50              | 0.50                       | 0.50                       |
| Blank Result           |               | N.D.               | N.D.              | N.D.              | N.D.                       | N.D.                       |
| Blank Spike Result (%) |               | 107                | 102               | 101               | 103                        | 106                        |

  
June Zhao  
Chemist

  
Marianne Alexander  
Gas/BTEX Supervisor

# CHROMALAB, INC.

Environmental Services (SDB)

July 8, 1996

Submission #: 9606924

BASELINE ENVIRONMENTAL/EMRYVL

Atten: Rhodora Del Rosario

Project: FRUITVALE AVE  
Received: June 28, 1996

Project#: 92404-DO


re: 1 sample for Gasoline and BTEX compounds analysis.  
Method: EPA 5030/8015M/8020


Sampled: June 27, 1996

Matrix: WATER  
Run#: 2064

Analyzed: July 5, 1996

| Spl#                   | CLIENT SPL ID | Gasoline<br>(ug/L) | Benzene<br>(ug/L) | Toluene<br>(ug/L) | Ethyl<br>Benzene<br>(ug/L) | Total<br>Xylenes<br>(ug/L) |
|------------------------|---------------|--------------------|-------------------|-------------------|----------------------------|----------------------------|
| 90258                  | MW-F4         | 6200               | 81                | 9.5               | 520                        | 290                        |
| Reporting Limits       |               | 500                | 5.0               | 5.0               | 5.0                        | 5.0                        |
| Blank Result           |               | N.D.               | N.D.              | N.D.              | N.D.                       | N.D.                       |
| Blank Spike Result (%) |               | 107                | 102               | 101               | 103                        | 106                        |

  
June Zhao  
Chemist

  
Marianne Alexander  
Gas/BTEX Supervisor

# CHROMALAB, INC.

Environmental Services (SDB)

July 8, 1996

Submission #: 9606924

BASELINE ENVIRONMENTAL/EMRYVL

Atten: Rhodora Del Rosario

Project: FRUITVALE AVE  
Received: June 28, 1996

Project#: 92404-DO


re: 2 samples for Gasoline and BTEX compounds analysis.  
Method: EPA 5030/8015M/8020


Sampled: June 27, 1996

Matrix: WATER  
Run#: 2064

Analyzed: July 5, 1996

| Spl#                   | CLIENT SPL ID | Gasoline<br>(ug/L) | Benzene<br>(ug/L) | Toluene<br>(ug/L) | Ethyl<br>Benzene<br>(ug/L) | Total<br>Xylenes<br>(ug/L) |
|------------------------|---------------|--------------------|-------------------|-------------------|----------------------------|----------------------------|
| 90259                  | MW-F5         | N.D.               | N.D.              | N.D.              | N.D.                       | N.D.                       |
| 90260                  | MW-F6         | N.D.               | N.D.              | N.D.              | N.D.                       | N.D.                       |
| Reporting Limits       |               | 50                 | 0.50              | 0.50              | 0.50                       | 0.50                       |
| Blank Result           |               | N.D.               | N.D.              | N.D.              | N.D.                       | N.D.                       |
| Blank Spike Result (%) |               | 107                | 102               | 101               | 103                        | 106                        |

  
June Zhao  
Chemist

  
Marianne Alexander  
Gas/BTEX Supervisor

# CHROMALAB, INC.

Environmental Services (SDB)

July 8, 1996

Submission #: 9606924

BASELINE ENVIRONMENTAL/EMRYVL

Atten: Rhodora Del Rosario

Project: FRUITVALE AVE  
Received: June 28, 1996

Project#: 92404-DO


re: 1 sample for Gasoline and BTEX compounds analysis.  
Method: EPA 5030/8015M/8020


Sampled: June 27, 1996

Matrix: WATER  
Run#: 2064

Analyzed: July 5, 1996

| Spl#                   | CLIENT SPL ID | Gasoline<br>(ug/L) | Benzene<br>(ug/L) | Toluene<br>(ug/L) | Ethyl<br>Benzene<br>(ug/L) | Total<br>Xylenes<br>(ug/L) |
|------------------------|---------------|--------------------|-------------------|-------------------|----------------------------|----------------------------|
| 90261                  | MW-13         | 18000              | 630               | 26                | 1100                       | 1000                       |
| Reporting Limits       |               | 500                | 5.0               | 5.0               | 5.0                        | 5.0                        |
| Blank Result           |               | N.D.               | N.D.              | N.D.              | N.D.                       | N.D.                       |
| Blank Spike Result (%) |               | 107                | 102               | 101               | 103                        | 106                        |

  
June Zhao  
Chemist

  
Marianne Alexander  
Gas/BTEX Supervisor



CHROMALAB, INC.  
SAMPLE RECEIPT CHECKLIST

Client Name BASELINE Date/Time Received 6/28/96 0835  
Project FRUITVALE AVE. Received by M. Dwyer Date / Time  
Reference/Subm # 28546/9606924 Carrier name \_\_\_\_\_  
Checked by [Signature] 7/1/96 Logged in by CR 6/28/96  
Signature / Date Matrix: H2O Initials / Date

Shipping container in good condition? NA \_\_\_ Yes \_\_\_ No \_\_\_  
Custody seals present on shipping container? Intact \_\_\_ Broken \_\_\_ Yes \_\_\_ No \_\_\_  
Custody seals on sample bottles? Intact \_\_\_ Broken \_\_\_ Yes \_\_\_ No \_\_\_  
Chain of custody present? Yes  No \_\_\_  
Chain of custody signed when relinquished and received? Yes  No \_\_\_  
\* Chain of custody agrees with sample labels? Yes \_\_\_ No   
Samples in proper container/bottle? Yes  No \_\_\_  
Samples intact? Yes  No \_\_\_  
Sufficient sample volume for indicated test? Yes  No \_\_\_  
VOA vials have zero headspace? NA \_\_\_ Yes  No \_\_\_  
Trip Blank received? NA \_\_\_ Yes  No   
All samples received within holding time? Yes  No \_\_\_  
Container temperature? 5.8°C  
pH upon receipt \_\_\_\_\_ pH adjusted \_\_\_\_\_ Check performed by: \_\_\_\_\_ NA

Any NO response must be detailed in the comments section below. If items are not applicable, they should be marked NA.

Client contacted? \_\_\_\_\_ Date contacted? \_\_\_\_\_  
Person contacted? \_\_\_\_\_ Contacted by? \_\_\_\_\_

Regarding? \_\_\_\_\_

Comments: Sample ID'S listed on COC as:  
MW-F2, F3, F4, F5 - labeled MW-2, 3,  
4, & 5

pH checked by Chemist

Corrective Action: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

BASELINE  
5900 Hollis Street, Suite D  
Emeryville, CA 94608  
(510) 420-8686

CHAIN OF CUSTODY RECORD

Turn-around Time  
Lab  
BASELINE Contact Person

Standard IAT  
Chromalab  
Rhodora Del Rosario

924/90256-90262

| Project No.           |         | Project Name and Location                  |       |       |                   | Analysis |                                  | SUBM #: 0606924 REP: NV<br>CLIENT: BASE<br>DUE: 07/08/96<br>REF #: 28546 |           |      |                 |            |                   |  |  |  |                  |
|-----------------------|---------|--|-------|-------|-------------------|----------|----------------------------------|--|-----------|------|-----------------|------------|-------------------|--|--|--|------------------|
| 92404-DO              |         | Fruitvale Ave; 2662 Fruitvale Ave, Oakland |       |       |                   |          |                                  |  |           |      |                 |            |                   |  |  |  |                  |
| Samplers: (Signature) |         |  |       |       |                   |          |                                  |  |           |      |                 |            |                   |  |  |  |                  |
| Sample ID No. Station | Date    | Time                                       | Media | Depth | No. of Containers | TEH      | Gasoline & BTEX (TPH with BTX&E) | Oil & Grease   | Motor Oil | PNAs | Title 22 Metals | Total Lead | Remarks/Composite |  |  |  | Detection Limits |
| MW-F2                 | 6/27/96 | 12:00                                      | GW    | -     | 3                 | X        |                                  |  |           |      |                 |            |                   |  |  |  |                  |
| MW-F3                 | 6/27/96 | 12:30                                      | GW    | -     | 3                 | X        |                                  |  |           |      |                 |            |                   |  |  |  |                  |
| MW-F4                 | 6/27/96 | 13:10                                      | GW    | -     | 3                 | X        |                                  |  |           |      |                 |            |                   |  |  |  |                  |
| MW-F5                 | 6/27/96 | 12:40                                      | GW    | -     | 3                 | X        |                                  |  |           |      |                 |            |                   |  |  |  |                  |
| MW-F6                 | 6/27/96 | 12:30                                      | GW    | -     | 3                 | X        |                                  |  |           |      |                 |            |                   |  |  |  |                  |
| MW-13                 | 6/27/96 | 13:20                                      | GW    | -     | 3                 | X        |                                  |  |           |      |                 |            |                   |  |  |  |                  |
| MW-F1                 | 6/27/96 | 12:20                                      | GW    | -     | 3                 | X        |                                  |  |           |      |                 |            |                   |  |  |  |                  |
|                       |         |  |       |       |                   |          |                                  |  |           |      |                 |            |                   |  |  |  |                  |
|                       |         |  |       |       |                   |          |                                  |  |           |      |                 |            |                   |  |  |  |                  |
|                       |         |  |       |       |                   |          |                                  |  |           |      |                 |            |                   |  |  |  |                  |
|                       |         |  |       |       |                   |          |                                  |  |           |      |                 |            |                   |  |  |  |                  |
|                       |         |  |       |       |                   |          |                                  |  |           |      |                 |            |                   |  |  |  |                  |

|                              |               |                          |              |   |
|------------------------------|---------------|--------------------------|--------------|---|
| Relinquished by: (Signature) | Date / Time   | Received by: (Signature) | Date / Time  | Conditions of Samples Upon Arrival at Laboratory:     |
| <i>William K Scott</i>       | 6/27/96 16:00 | <i>JMD</i>               | 6/27/96 1600 |   |
| Relinquished by: (Signature) | Date / Time   | Received by: (Signature) | Date / Time  | Remarks:  |
| <i>JMD</i>                   | 6/28/96 8:35  | <i>Minnie Jav</i>        | 6/28/96 0835 | * please include chromatograms for Gasoline analysis. |
| Relinquished by: (Signature) | Date / Time   | Received by: (Signature) | Date / Time  | and standards   |
|                              |               |                          |              |   |