



Mr. Larry Seto
Alameda County Health Care Services Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Subject: GI Trucking Company
1750 Adams Avenue, San Leandro, CA
First Quarter 1994 Groundwater Monitoring and Sampling

Dear Mr. Seto:

This letter documents the quarterly groundwater sampling for the first quarter of the sixth year of quarterly groundwater sampling at the subject facility located in San Leandro, California (Figure 1).

Four of the five existing groundwater monitoring wells (MW-2 through MW-5, Figure 2) were sampled on February 24, 1994. Monitoring well MW-1 contained an EZ Skimmer which is used to recover free product in the well, as part of the interim remedial efforts at the site. Consequently, a groundwater sample was not collected from monitoring well MW-1.

Three well casing volumes of water were removed from each of the four wells prior to sampling. A representative groundwater sample was collected from each well using a Teflon[®] bailer and placed in 1-liter amber bottles without a preservative and 40-milliliter vials containing hydrochloric acid as a preservative which were provided by the laboratory. The Well Purging and Sampling Data forms for all wells are attached. The groundwater samples were placed in a cooler with blue ice and delivered via courier to NET Pacific, Inc., a California-certified laboratory.

The groundwater samples were analyzed for Total Petroleum Hydrocarbons (TPH) as diesel by modified EPA Method 8015 and benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8020. As indicated in the enclosed analytical report, TPH as diesel was detected only in the groundwater sample collected from monitoring well MW-1. TPH as diesel has not been detected in any groundwater samples from monitoring wells MW-2, MW-4, and MW-5. BTEX was not detected in any of the groundwater samples (Table II). This is the third time groundwater samples have been analyzed for BTEX.

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HAZMAT
54 MAR 30 PM 2:28

Mr. Larry Seto
Alameda County Health Care Services Agency

March 29, 1994
BEI Job No. 88288


TPH as diesel was first detected in a groundwater sample from well MW-3 collected in February 1990. Except for the December 1990 and December 1992 sampling events, TPH as diesel has been detected in all groundwater samples from this well since February 1990, at concentrations ranging from 0.19 milligrams/liter (mg/L) to 1.6 mg/L. TPH as diesel was detected at 0.38 mg/L in well MW-3 during this sampling event. Groundwater flow direction is toward the south to southeast at this site (Figure 2). Depth to groundwater measurements are included in Table III.

Monitoring well MW-1 has consistently contained a free product layer. An EZ Skimmer was installed on October 27, 1993. The skimmer is on a monthly operation and maintenance schedule, overseen by on-site personnel. Table IV contains a summary of the amount of free product recovered to date.

If you have any questions, please call us at (510) 521-3773.

Cordially,

Blymyer Engineers, Inc.

By: 
Mark E. Detterman, C.E.G. 1788
Senior Geologist

And: 
Sue Black
V.P. - Environmental Services

Mr. Larry Seto
Alameda County Health Care Services Agency

March 29, 1994
BEI Job No. 88288

Attachments: Table I: Summary of Groundwater Sample Analytical Results; Total Petroleum Hydrocarbons as Diesel
Table II: Summary of Groundwater Sample Analytical Results; Benzene, Toluene, Ethylbenzene, and Total Xylenes
Table III: Groundwater Elevation Measurements
Table IV: Free Product Recovery From Monitoring Well MW-1

Figure 1: Site Location Map
Figure 2: Site Plan and Groundwater Contour Map, 2/24/94

Well Purging and Sampling Data Forms
Laboratory Analytical Report, NET Pacific, Inc., dated March 8, 1994

cc: Mr. Eddy So, RWQCB
Mr. Mike Bakaldin, San Leandro Fire Department
Mr. Wade Stroupe, Jr., Carolina Freight Carriers Corporation
Mr. Bob Hogencamp, GI Trucking Company
Mr. Tom McGuire, GI Trucking Company

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Table I. Summary of Groundwater Sample Analytical Results
Total Petroleum Hydrocarbons as Diesel,
Modified EPA Method 8015 (milligrams per liter)
BEI Job No. 88288,
GI Trucking Company
1750 Adams Avenue, San Leandro, California

| Date of Sampling | MW-1 | MW-2 | MW-3 | MW-4 | MW-5 |
|-------------------|------------------------|-------|-------|-------|-------|
| November 15, 1988 | 0.22 feet product | <0.20 | <0.20 | <0.20 | <0.20 |
| February 16, 1989 | 0.20 feet product | <0.09 | <0.09 | <0.09 | <0.09 |
| May 19, 1989 | 0.20 feet free product | <0.08 | <0.08 | <0.08 | <0.08 |
| August 22, 1989 | 0.18 feet free product | <0.03 | <0.03 | <0.03 | <0.03 |
| November 21, 1989 | product sheen | <0.03 | <0.03 | <0.03 | <0.03 |
| February 23, 1990 | product sheen | <0.05 | 0.34 | <0.05 | <0.05 |
| May 23, 1990 | 0.15 feet free product | <0.05 | 0.64 | <0.05 | <0.05 |
| August 27, 1990 | product sheen | <0.05 | 0.41 | <0.05 | <0.05 |
| December 3, 1990 | product sheen | <0.05 | <0.05 | <0.05 | <0.05 |
| March 13, 1991 | product sheen | <0.05 | 1.3 | <0.05 | <0.05 |
| May 29, 1991 | product sheen | <0.05 | 0.54 | <0.05 | <0.05 |
| August 28, 1991 | 0.09 feet free product | <0.05 | 0.24 | <0.05 | <0.05 |
| December 9, 1991 | 0.20 feet free product | <0.05 | 0.20 | <0.05 | <0.05 |
| February 18, 1992 | 0.09 feet free product | <0.05 | 0.89 | <0.05 | <0.05 |
| May 15, 1992 | 0.17 feet free product | <0.05 | 0.38 | <0.05 | <0.05 |
| August 13, 1992 | 0.19 feet free product | <0.05 | 0.20 | <0.05 | <0.05 |
| December 3, 1992 | 0.10 feet free product | <0.05 | <0.05 | <0.05 | <0.05 |
| March 25, 1993 | product sheen | <0.05 | 1.6 | <0.05 | <0.05 |
| May 21, 1993 | 0.09 feet free product | <0.05 | 0.72 | <0.05 | <0.05 |
| August 17, 1993 | 0.13 feet free product | <0.05 | 0.48 | <0.05 | <0.05 |
| December 13, 1993 | free product | <0.05 | 0.19 | <0.05 | <0.05 |
| February 24, 1994 | free product | <0.05 | 0.38 | <0.05 | <0.05 |

< x = Detected at less than the indicated detection limit of x.

**Table II, Summary of Groundwater Sample Analytical Results
Benzene, Toluene, Ethylbenzene, and Total Xylenes
Modified EPA Method 8020 (micrograms per liter)
BEI Job No. 88288,
GI Trucking Company
1750 Adams Avenue, San Leandro, California**

| Date of Sampling | MW-1 | MW-2 | MW-3 | MW-4 | MW-5 |
|---|------------------------|------|------|------|------|
| November 15, 1988 through May 21, 1993 | Not Analyzed | | | | |
| August 17, 1993 | 0.13 feet free product | <0.5 | <0.5 | <0.5 | <0.5 |
| December 13, 1993 | free product recovery | <0.5 | <0.5 | <0.5 | <0.5 |
| February 24, 1994 | free product recovery | <0.5 | <0.5 | <0.5 | <0.5 |

< = Detected at less than the indicated detection limit of x.

Table III, Groundwater Elevation Measurements
BEI Job No. 88288,
GI Trucking Company
1750 Adams Avenue, San Leandro, California

| Date Measured | MW-1 TOC Elevation 100.00* | | MW-2 TOC Elevation 100.24* | | MW-3 TOC Elevation 100.22* | | MW-4 TOC Elevation 99.48* | | MW-5 TOC Elevation 99.60* | |
|-------------------|---------------------------------|-------------------------|-------------------------------|-------------------------|-------------------------------|-------------------------|------------------------------|-------------------------|------------------------------|-------------------------|
| | Depth to Water/ Free Product | Water Surface Elevation | Depth to Water | Water Surface Elevation | Depth to Water | Water Surface Elevation | Depth to Water | Water Surface Elevation | Depth to Water | Water Surface Elevation |
| November 15, 1988 | No Measurements Recorded | | | | | | | | | |
| February 16, 1989 | 6.03/5.83 | NA | 6.13 | 94.11 | 6.00 | 94.22 | 5.92 | 93.56 | 5.42 | 94.18 |
| May 19, 1989 | 6.31/6.11 | NA | 6.24 | 94.00 | 6.20 | 94.02 | 5.25 | 94.23 | 5.53 | 94.07 |
| August 22, 1989 | 6.72/6.54 | NA | 6.68 | 93.56 | 6.60 | 93.62 | 6.76 | 92.72 | 5.94 | 93.66 |
| November 21, 1989 | 6.51 | 93.49 | 6.64 | 93.60 | 6.55 | 93.67 | 5.72 | 93.76 | 5.91 | 93.69 |
| February 23, 1990 | 5.74 | 94.26 | 6.04 | 94.20 | 5.83 | 94.39 | 4.92 | 94.56 | 5.69 | 93.91 |
| May 23, 1990 | 6.34/6.19 | NA | 6.40 | 93.84 | 6.38 | 93.84 | 5.39 | 94.09 | 5.92 | 93.68 |
| August 27, 1990 | 6.27 | 93.73 | 6.70 | 93.54 | 6.67 | 93.55 | 5.66 | 93.82 | 6.17 | 93.43 |
| December 3, 1990 | 6.49 | 93.51 | 6.83 | 93.41 | 6.75 | 93.47 | 5.95 | 93.53 | 6.05 | 93.55 |
| March 13, 1991 | 4.94 | 95.06 | 5.64 | 94.60 | 5.42 | 94.80 | 4.39 | 95.09 | 5.01 | 94.59 |
| May 29, 1991 | 9.46 | 90.54 | 6.31 | 93.93 | 6.28 | 93.94 | 5.27 | 94.21 | 5.57 | 94.03 |
| August 28, 1991 | 6.31/6.22 | NA | 6.68 | 93.56 | 6.62 | 93.60 | 5.70 | 93.78 | 5.90 | 93.7 |
| December 9, 1991 | 6.49/6.29 | NA | 6.69 | 93.55 | 6.65 | 93.57 | 5.78 | 93.78 | 5.99 | 93.61 |
| February 18, 1992 | 4.19/4.09 | NA | 4.96 | 95.28 | 4.73 | 95.49 | 3.60 | 95.88 | 4.45 | 95.15 |
| May 15, 1992 | 5.72/5.55 | NA | 6.07 | 94.17 | 5.99 | 94.23 | 5.03 | 94.45 | 5.33 | 94.27 |
| August 13, 1992 | 6.12/5.93 | NA | 6.42 | 93.82 | 6.32 | 93.90 | 5.40 | 94.08 | 5.62 | 93.98 |
| December 3, 1992 | 5.65/5.55 | NA | 6.25 | 93.99 | 6.23 | 93.99 | 5.14 | 94.34 | 5.58 | 94.02 |
| March 25, 1993 | 4.60 | 95.40 | 5.40 | 94.84 | 5.27 | 94.95 | 4.14 | 95.34 | 4.34 | 95.26 |
| May 21, 1993 | 5.56/5.47 | NA | 6.04 | 94.20 | 5.97 | 94.25 | 4.95 | 94.53 | 5.28 | 94.32 |
| August 17, 1993 | 6.07/5.94 | NA | 6.42 | 93.82 | 6.59 | 93.63 | 5.40 | 94.08 | 5.61 | 93.99 |
| December 13, 1993 | -- | NA | 6.09 | 94.15 | 6.33 | 93.89 | 5.08 | 94.40 | 5.38 | 94.22 |
| February 24, 1994 | -- | NA | 5.57 | 94.67 | 5.76 | 94.46 | 4.38 | 95.10 | 4.90 | 94.70 |

TOC = Top of Casing Elevation

* = Based on an Arbitrary Datum

NA = Not Applicable

-- = Not Available Due to Free Product Recovery

**Table IV, Free Product Recovery From Monitoring Well MW-1
BEI Job No. 88288,
GI Trucking Company
1750 Adams Avenue, San Leandro, California**

| Date | Volume Recovery |
|---------------|-----------------|
| November 1993 | 0.125 Gallons |
| December 1993 | 0.25 Gallons |
| January 1994 | 0.05 Gallons |
| February 1994 | <0.05 Gallons |



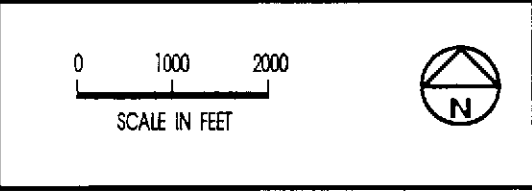
SOURCE: UNITED STATES GEOGRAPHICAL SURVEY 7.5' QUAD. "SAN LEANDRO, CA" PHOTOREVISED 1980.



BLMYER
ENGINEERS, INC.

BEI

BEI JOB NO. 88288 DATE 1/26/94



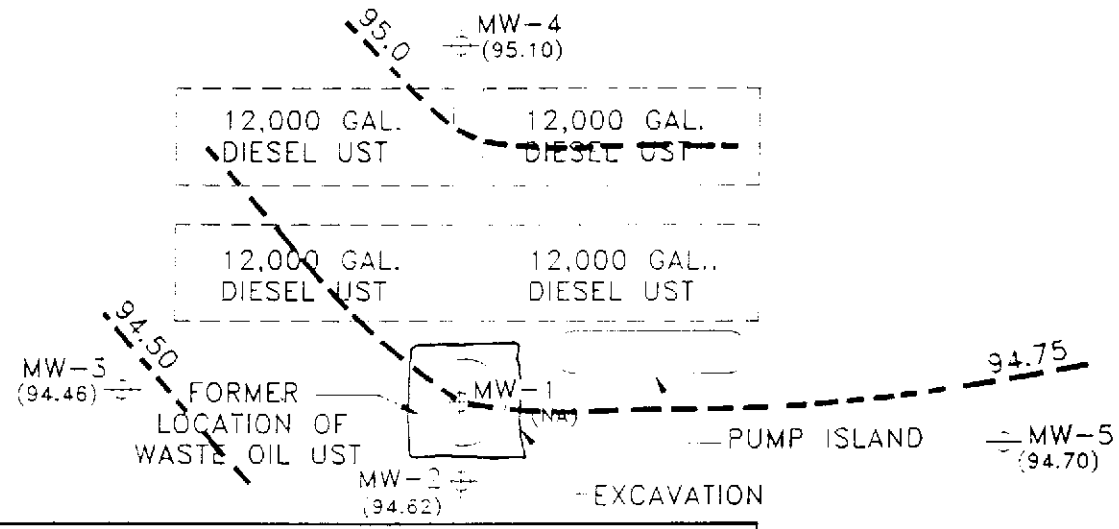
SITE LOCATION MAP

GI TRUCKING
1750 ADAMS AVE.
SAN LEANDRO, CA

FIGURE
1



APPARENT
GROUNDWATER FLOW
DIRECTION
FEBRUARY 24, 1994



0 20
SCALE IN FEET

| | | | |
|------------------------|---|--|-------------------|
| BEI ENGINEERS, INC. | LEGEND UST UNDERGROUND STORAGE TANK GROUNDWATER MONITORING WELL 95.10' GROUNDWATER ELEVATION IN FEET (ARBITRARY DATUM) CONTOUR LINE OF EQUAL ELEVATION (NA) NOT AVAILABLE | PROJECT GI TRUCKING SAN LEANDRO, CA | FIGURE |
| BEI JOB NO. 88288 | DATE 3/24/94 | SITE PLAN AND GROUNDWATER CONTOUR MAP 2/24/94 | |

Well Purging and Sampling Data

| | | | | | |
|-------------|---------|-----------------|-------|-----------------|---------------|
| Date | 2/24/94 | Project Number | 88288 | Project Name | G.I. Trucking |
| Well Number | MW-1 | Boring Diameter | N/A | Casing Diameter | 12" |

| Column of Liquid in Well | | Volume to be Removed | |
|--------------------------|----------|----------------------------|-------|
| Depth to product | N/A | Gallons per foot of casing | = N/A |
| Depth to water | 4.67 ft. | Column of water | x N/A |
| Total depth of well | N/A | Volume of casing | = N/A |
| Column of water | N/A | No. of volumes to remove | x N/A |
| | | Total volume to remove | = N/A |

| | |
|----------------------------|---|
| Method of measuring liquid | Oil/water interface probe |
| Method of purging well | N/A |
| Method of decontamination | Methanol, Liqui-nox and distilled water |

| | |
|---|-----|
| Physical appearance of water (clarity, color, particulates, odor) | |
| Initial | N/A |
| During | |
| Final | |

| Field Analysis | Initial | During | | Final |
|-----------------------|---|--------|-----|-------|
| Time | N/A | N/A | N/A | N/A |
| Temperature (F) | | | | |
| Conductivity (us/cm) | | | | |
| pH | | | | |
| Method of measurement | N/A | | | |
| Total volume purged | None | | | |
| Comments | Measure free product layer only. Layer thickness < 0.01 ft. (heavy sheen) | | | |

| Sample Number | Amount of Sample |
|---------------|------------------|
| N/A | |
| | |
| | |

| | |
|-----------------|----------------------------|
| Signed/Sampler | <i>Stephen W. M/Lone</i> |
| Signed/Reviewer | <i>Mark E. [Signature]</i> |
| Date | 2/24/94 |
| Date | 2/24/94 |

Well Purging and Sampling Data

| | | | | | |
|-------------|---------|-----------------|-------|-----------------|---------------|
| Date | 2/24/94 | Project Number | 88288 | Project Name | G.I. Trucking |
| Well Number | MW-2 | Boring Diameter | N/A | Casing Diameter | 2" |

| Column of Liquid in Well | | Volume to be Removed | |
|--------------------------|-----------|----------------------------|----------------|
| Depth to product | N/A | Gallons per foot of casing | = 0.17 gal/ft. |
| Depth to water | 5.57 ft. | Column of water | x 17.68 ft. |
| Total depth of well | 23.25 ft. | Volume of casing | = 3.0 gal. |
| Column of water | 17.68 ft. | No. of volumes to remove | x 3 |
| | | Total volume to remove | = 9.0 gal. |

| | |
|----------------------------|-------------------------------|
| Method of measuring liquid | Oil/water interface probe |
| Method of purging well | Teflon bailer |
| Method of decontamination | Liqui-nox and distilled water |

| Physical appearance of water (clarity, color, particulates, odor) | |
|---|--------------------------------------|
| Initial | Clear, no odor |
| During | Slightly silty, brown color, no odor |
| Final | Silty, brown color, no odor |

| Field Analysis | Initial | During | | Final |
|-----------------------|-------------|--------|-------|-------|
| Time | 11:30 | 11:35 | 11:45 | 11:50 |
| Temperature (F) | 60.9 | 63.7 | 63.4 | 61.9 |
| Conductivity (us/cm) | 762 | 781 | 793 | 787 |
| pH | 6.10 | 6.02 | 5.95 | 5.96 |
| Method of measurement | Hydac meter | | | |
| Total volume purged | 9.0 gal. | | | |
| Comments | | | | |

| Sample Number | Amount of Sample |
|---------------|--------------------|
| MW-2 | 3-40ml VOA w/ HCl |
| | 2-1l amber bottles |
| | |
| | |

| | |
|----------------------------|---------|
| Signed/Sampler | Date |
| <i>Stephen W. Moore</i> | 2/24/94 |
| Signed/Reviewer | Date |
| <i>Mark E. [Signature]</i> | 2/28/94 |

Well Purging and Sampling Data

| | | | | | |
|-------------|---------|-----------------|-------|-----------------|---------------|
| Date | 2/24/94 | Project Number | 88288 | Project Name | G.I. Trucking |
| Well Number | MW-3 | Boring Diameter | N/A | Casing Diameter | 2" |

| Column of Liquid in Well | Volume to be Removed |
|--------------------------|---|
| Depth to product | N/A |
| Depth to water | 5.76 ft. |
| Total depth of well | 22.75 ft. |
| Column of water | 16.99 ft. |
| | Gallons per foot of casing = 0.17 gal/ft. |
| | Column of water x 16.99 ft. |
| | Volume of casing = 2.9 gal. |
| | No. of volumes to remove x 3 |
| | Total volume to remove = 8.7 gal. |

| | |
|----------------------------|-------------------------------|
| Method of measuring liquid | Oil/water interface probe |
| Method of purging well | Teflon bailer |
| Method of decontamination | Liqui-nox and distilled water |

| | |
|---|--------------------------------------|
| Physical appearance of water (clarity, color, particulates, odor) | |
| Initial | Clear, no odor |
| During | Slightly silty, brown color, no odor |
| Final | Slightly silty, brown color, no odor |

| Field Analysis | Initial | During | | Final |
|-----------------------|-------------|--------|-------|-------|
| Time | 12:35 | 12:40 | 12:50 | 12:55 |
| Temperature (F) | 62.9 | 63.7 | 64.1 | 64.0 |
| Conductivity (us/cm) | 756 | 783 | 884 | 899 |
| pH | 6.09 | 5.92 | 5.72 | 5.73 |
| Method of measurement | Hydac meter | | | |
| Total volume purged | 9.0 gal. | | | |
| Comments | | | | |

| | |
|---------------|--------------------|
| Sample Number | Amount of Sample |
| MW-3 | 3-40ml VOA w/ HCL |
| | 2-1l amber bottles |
| | |
| | |

| | |
|---------------------------|---------|
| Signed/Sampler | Date |
| <i>Steph W White</i> | 2/24/94 |
| Signed/Reviewer | Date |
| <i>Mark Z [Signature]</i> | 2/28/94 |

Well Purging and Sampling Data

| | | | | | |
|-------------|---------|-----------------|-------|-----------------|---------------|
| Date | 2/24/94 | Project Number | 88288 | Project Name | G.I. Trucking |
| Well Number | MW-4 | Boring Diameter | N/A | Casing Diameter | 2" |

| Column of Liquid in Well | Volume to be Removed |
|--------------------------|---|
| Depth to product | N/A |
| Depth to water | 4.38 ft. |
| Total depth of well | 22.79 ft. |
| Column of water | 18.41 ft. |
| | Gallons per foot of casing = 0.17 gal/ft. |
| | Column of water x 18.41 ft. |
| | Volume of casing = 3.1 gal. |
| | No. of volumes to remove x 3 |
| | Total volume to remove = 9.3 gal. |

| | |
|----------------------------|-------------------------------|
| Method of measuring liquid | Oil/water interface probe |
| Method of purging well | Teflon bailer |
| Method of decontamination | Liqui-nox and distilled water |

| Physical appearance of water (clarity, color, particulates, odor) | |
|---|--------------------------------------|
| Initial | Clear, no odor |
| During | Slightly silty, brown color, no odor |
| Final | Silty, brown color, no odor |

| Field Analysis | Initial | During | | Final |
|-----------------------|-------------|--------|-------|-------|
| | | 09:15 | 09:20 | |
| Time | 09:05 | 09:15 | 09:20 | 09:30 |
| Temperature (F) | 60.2 | 63.3 | 64.1 | 64.9 |
| Conductivity (us/cm) | 767 | 806 | 819 | 828 |
| pH | 5.81 | 5.75 | 5.74 | 5.72 |
| Method of measurement | Hydac meter | | | |
| Total volume purged | 9.5 gal. | | | |
| Comments | | | | |

| Sample Number | Amount of Sample |
|---------------|--------------------|
| MW-4 | 3-40ml VOA w/ HCl |
| | 2-1l amber bottles |
| | |
| | |

| | |
|-------------------------|---------|
| Signed/Sampler | Date |
| <i>Stephen W. Moore</i> | 2/24/94 |
| Signed/Reviewer | Date |
| <i>Mark E. Jones</i> | 2/28/94 |

Well Purging and Sampling Data

| | | | | | |
|-------------|---------|-----------------|-------|-----------------|---------------|
| Date | 2/24/94 | Project Number | 88288 | Project Name | G.I. Trucking |
| Well Number | MW-5 | Boring Diameter | N/A | Casing Diameter | 2" |

| Column of Liquid in Well | | Volume to be Removed | |
|--------------------------|-----------|----------------------------|----------------|
| Depth to product | N/A | Gallons per foot of casing | = 0.17 gal/ft. |
| Depth to water | 4.90 ft. | Column of water | x 17.35 ft. |
| Total depth of well | 22.25 ft. | Volume of casing | = 3.0 gal. |
| Column of water | 17.35 ft. | No. of volumes to remove | x 3 |
| | | Total volume to remove | = 9.0 gal. |

| | |
|----------------------------|-------------------------------|
| Method of measuring liquid | Oil/water interface probe |
| Method of purging well | Teflon bailer |
| Method of decontamination | Liqui-nox and distilled water |

| Physical appearance of water (clarity, color, particulates, odor) | |
|---|--------------------------------------|
| Initial | Clear, no odor |
| During | Slightly silty, brown color, no odor |
| Final | Silty, brown color, no odor |

| Field Analysis | Initial | During | | Final |
|-----------------------|-------------|--------|-------|-------|
| Time | 10:15 | 10:20 | 10:30 | 10:35 |
| Temperature (F) | 60.3 | 63.0 | 63.9 | 62.7 |
| Conductivity (us/cm) | 831 | 861 | 877 | 879 |
| pH | 6.00 | 5.89 | 5.86 | 5.88 |
| Method of measurement | Hydac meter | | | |
| Total volume purged | 9.0 gal. | | | |
| Comments | | | | |

| | |
|---------------|--------------------|
| Sample Number | Amount of Sample |
| MW-5 | 3-40ml VOA w/ HCl |
| | 2-1l amber bottles |
| | |
| | |

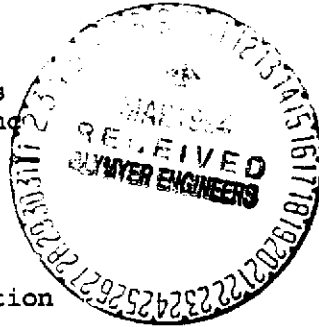
| | |
|----------------------------|---------|
| Signed/Sampler | Date |
| <i>Stephen W. White</i> | 2/24/94 |
| Signed/Reviewer | Date |
| <i>Mark E. [Signature]</i> | 2/28/94 |



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Santa Rosa Division
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

Mark Detterman
Carolina Freight Carriers
c/o Blymyer Engineers, Inc.
1829 Clement Ave.
Alameda, CA 94501




Date: 03/08/1994
NET Client Acct. No: 61900
NET Pacific Job No: 94.00770
Received: 02/25/1994

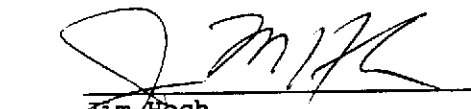
Client Reference Information

GI Trucking/San Leandro, Job No: 88288

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:


Nora Pearmain
Project Coordinator


Jim Hoch
Operations Manager

Enclosure (s)



Client Acct: 61900
Client Name: Carolina Freight Carriers
NET Job No: 94.00770

Date: 03/08/1994
ELAP Certificate: 1386
Page: 2

Ref: GI Trucking/San Leandro, Job No: 88288

SAMPLE DESCRIPTION: MW-4
Date Taken: 02/24/1994
Time Taken: 09:45
NET Sample No: 185664

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed |
|---------------------------|---------|-------|-----------------|--------|--------|----------------|---------------|
| METHOD 8020 (GC,Liquid) | | | | | | | |
| DILUTION FACTOR* | 1 | | | | | | 03/04/1994 |
| Benzene | ND | | 0.5 | ug/L | 8020 | | 03/04/1994 |
| Toluene | ND | | 0.5 | ug/L | 8020 | | 03/04/1994 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 03/04/1994 |
| Xylenes (Total) | ND | | 0.5 | ug/L | 8020 | | 03/04/1994 |
| SURROGATE RESULTS | -- | | | | | | 03/04/1994 |
| Bromofluorobenzene (SURR) | 89 | | | µ Rec. | 8020 | | 03/04/1994 |
| METHOD 3510/M8015 | | | | | | 03/01/1994 | |
| DILUTION FACTOR* | 1 | | | | | | 03/02/1994 |
| as Diesel | ND | | 0.05 | mg/L | 3510 | | 03/02/1994 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 61900
Client Name: Carolina Freight Carriers
NET Job No: 94.00770

Date: 03/08/1994
ELAP Certificate: 1386
Page: 3

Ref: GI Trucking/San Leandro, Job No: 88288

SAMPLE DESCRIPTION: MW-5
Date Taken: 02/24/1994
Time Taken: 10:50
NET Sample No: 185665

| Parameter | Results | Flags | Reporting | | Method | Date | Date |
|----------------------------|---------|-------|-----------|--------|--------|------------|------------|
| | | | Limit | Units | | Extracted | Analyzed |
| METHOD 8020 (GC,Liquid) | | | | | | | |
| DILUTION FACTOR* | 1 | | | | | | 03/04/1994 |
| Benzene | ND | | 0.5 | ug/L | 8020 | | 03/04/1994 |
| Toluene | ND | | 0.5 | ug/L | 8020 | | 03/04/1994 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 03/04/1994 |
| Xylenes (Total) | ND | | 0.5 | ug/L | 8020 | | 03/04/1994 |
| SURROGATE RESULTS | | | | | | | |
| Bromofluorobenzene (SURRE) | 89 | | | µ Rec. | 8020 | | 03/04/1994 |
| | | | | | | 03/01/1994 | |
| METHOD 3510/M8015 | | | | | | | |
| DILUTION FACTOR* | 1 | | | | | | 03/02/1994 |
| as Diesel | ND | | 0.05 | mg/L | 3510 | | 03/02/1994 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 61900
Client Name: Carolina Freight Carriers
NET Job No: 94.00770

Date: 03/08/1994
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Ref: GI Trucking/San Leandro, Job No: 88288

SAMPLE DESCRIPTION: MW-2
Date Taken: 02/24/1994
Time Taken: 12:10
NET Sample No: 185666

| Parameter | Results | Flags | Reporting | | Method | Date | Date |
|---------------------------|---------|-------|-----------|--------|--------|------------|------------|
| | | | Limit | Units | | Extracted | Analyzed |
| METHOD 8020 (GC, Liquid) | | | | | | | |
| DILUTION FACTOR* | 1 | | | | | | 03/04/1994 |
| Benzene | ND | | 0.5 | ug/L | 8020 | | 03/04/1994 |
| Toluene | ND | | 0.5 | ug/L | 8020 | | 03/04/1994 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 03/04/1994 |
| Xylenes (Total) | ND | | 0.5 | ug/L | 8020 | | 03/04/1994 |
| SURROGATE RESULTS | | | | | | | |
| Bromofluorobenzene (SURR) | 96 | | | % Rec. | 8020 | | 03/04/1994 |
| METHOD 3510/M8015 | | | | | | | |
| DILUTION FACTOR* | 1 | | | | | 03/01/1994 | |
| as Diesel | ND | | 0.05 | mg/L | 3510 | | 03/02/1994 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 61900
Client Name: Carolina Freight Carriers
NET Job No: 94.00770

Date: 03/08/1994
ELAP Certificate: 1386
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Ref: GI Trucking/San Leandro, Job No: 88288

SAMPLE DESCRIPTION: MW-3
Date Taken: 02/24/1994
Time Taken: 13:20
NET Sample No: 185667

| Parameter | Results | Flags | Reporting | | Method | Date | Date |
|---------------------------|---------|-------|-----------|--------|--------|------------|------------|
| | | | Limit | Units | | Extracted | Analyzed |
| METHOD 8020 (GC,Liquid) | | | | | | | |
| DILUTION FACTOR* | 1 | | | | | | 03/04/1994 |
| Benzene | ND | | 0.5 | ug/L | 8020 | | 03/04/1994 |
| Toluene | ND | | 0.5 | ug/L | 8020 | | 03/04/1994 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 03/04/1994 |
| Xylenes (Total) | ND | | 0.5 | ug/L | 8020 | | 03/04/1994 |
| SURROGATE RESULTS | -- | | | | | | 03/04/1994 |
| Bromofluorobenzene (SURR) | 86 | | | % Rec. | 8020 | | 03/04/1994 |
| | | | | | | 03/01/1994 | |
| METHOD 3510/M8015 | | | | | | | |
| DILUTION FACTOR* | 1 | | | | | | 03/02/1994 |
| as Diesel | 0.38 | | 0.05 | mg/L | 3510 | | 03/02/1994 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 61900
Client Name: Carolina Freight Carriers
NET Job No: 94.00770

Date: 03/08/1994
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CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

| <u>Parameter</u> | <u>CCV Standard % Recovery</u> | <u>CCV Standard Amount Found</u> | <u>CCV Standard Amount Expected</u> | <u>Units</u> | <u>Date Analyzed</u> | <u>Analyst Initials</u> |
|--------------------------|--|--|---|--------------|--------------------------|-----------------------------|
| METHOD 8020 (GC,Liquid) | | | | | | |
| Benzene | 90.4 | 4.52 | 5.00 | ug/L | 03/04/1994 | aal |
| Toluene | 101.4 | 5.07 | 5.00 | ug/L | 03/04/1994 | aal |
| Ethylbenzene | 93.0 | 4.65 | 5.00 | ug/L | 03/04/1994 | aal |
| Xylenes (Total) | 97.3 | 14.6 | 15.0 | ug/L | 03/04/1994 | aal |
| Bromofluorobenzene (SRR) | 97.0 | 97 | 100 | % Rec. | 03/04/1994 | aal |
| METHOD 3510/M8015 | | | | | | |
| as Diesel | 94.0 | 940 | 1000 | mg/L | 03/02/1994 | tts |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 61900
Client Name: Carolina Freight Carriers
NET Job No: 94.00770

Date: 03/08/1994
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METHOD BLANK REPORT

| Parameter | Method | Reporting | Units | Date | Analyst |
|---------------------------|--------|-----------|--------|------------|----------|
| | Blank | Amount | | Found | Analyzed |
| METHOD 8020 (GC,Liquid) | | | | | |
| Benzene | ND | 0.5 | ug/L | 03/04/1994 | aal |
| Toluene | ND | 0.5 | ug/L | 03/04/1994 | aal |
| Ethylbenzene | ND | 0.5 | ug/L | 03/04/1994 | aal |
| Xylenes (Total) | ND | 0.5 | ug/L | 03/04/1994 | aal |
| Bromofluorobenzene (SURR) | 92 | | % Rec. | 03/04/1994 | aal |
| METHOD 3510/M8015 | | | | | |
| as Diesel | ND | 0.05 | mg/L | 03/02/1994 | tts |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 61900
Client Name: Carolina Freight Carriers
NET Job No: 94.00770

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

| Parameter | Matrix Spike | | | Spike Amount | Sample Conc. | Matrix Spike | | Units | Date Analyzed | Analyst Initials |
|-------------------------|---------------------|------------------|-----|--------------|--------------|--------------------|------------------|-------|---------------|------------------|
| | Matrix Spike % Rec. | Spike Dup % Rec. | RPD | | | Matrix Spike Conc. | Spike Dup. Conc. | | | |
| METHOD 8020 (GC,Liquid) | | | | | | | | | | |
| Benzene | 130.0 | 130.0 | 0.0 | 30.0 | ND | 39 | 39 | ug/L | 03/04/1994 | aal |
| Toluene | 118.6 | 117.4 | 1.0 | 86.0 | ND | 102 | 101 | ug/L | 03/04/1994 | aal |
| METHOD 3510/M8015 | | | | | | | | | | |
| as Diesel | 83.0 | 88.5 | 6.4 | 2.00 | 0.38 | 2.04 | 2.15 | mg/L | 03/02/1994 | tts |

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Client Acct: 61900
Client Name: Carolina Freight Carriers
NET Job No: 94.00770

Date: 03/08/1994
ELAP Certificate: 1386
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LABORATORY CONTROL SAMPLE REPORT

| <u>Parameter</u> | <u>LCS</u> <u>% Recovery</u> | <u>RPD</u> | <u>LCS</u> <u>Amount</u> <u>Found</u> | <u>LCS</u> <u>Amount</u> <u>Expected</u> | <u>Units</u> | <u>Date</u> <u>Analyzed</u> | <u>Analyst</u> <u>Initials</u> |
|--------------------------------|---------------------------------|------------|---|--|--------------|--------------------------------|-----------------------------------|
| METHOD 3510/M8015 as Diesel | 82.0 | | 0.82 | 1.00 | mg/L | 03/02/1994 | tts |
| METHOD 3510/M8015 as Diesel | 69.0 | | 0.69 | 1.00 | mg/L | 03/02/1994 | tts |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. Actual reporting limits and results have been multiplied by the listed dilution factor. Do not multiply the reporting limits or reported values by the dilution factor.
- dw : Result expressed as dry weight.
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than the applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \text{ [Value 1 - Value 2] / mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, Rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, Rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986., Rev. 1, December 1987.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

BLYMYER

ENGINEERS, INC.

1829 Clement Avenue

Alameda, CA 94501 (510) 521-3773

FAX (510) 865-2594



CHAIN OF CUSTODY RECORD

8097

PAGE 1 OF 1

| JOB # | | PROJECT NAME/LOCATION | | | | # OF CONTAINERS | TPH AS GASOLINE + BTXE (MOD EPA 8015/8020) | TPH AS DIESEL (MOD EPA 8015) | VOC (EPA 624/8240) | SEMI-VOC (EPA 625/8270) | TRPH (EPA 418.1) | BTXE (EPA 8020/602) | HOLD | TURNAROUND TIME: Standard DAY(S) |
|---|------|------------------------------|------|---|---|--|--|------------------------------|--------------------|--------------------------|------------------|---------------------|------|----------------------------------|
| 88288 | | GI Trucking / San Leandro CA | | | | | | | | | | | | REMARKS: |
| SAMPLERS (SIGNATURE) | | | | | | | | | | | | | | |
| Steph W Moore | | | | | | | | | | | | | | |
| DATE | TIME | COMP | GRAB | SAMPLE NAME/LOCATION | | | | | | | | | | |
| 2/24/94 | 0825 | | X | BB-1 | 5 | | | | | | | | X | |
| 2/24/94 | 0945 | | X | MW-4 | 5 | X | | | | | X | | | |
| 2/24/94 | 1050 | | X | MW-5 | 5 | X | | | | | X | | | |
| 2/24/94 | 1210 | | X | MW-2 | 5 | X | | | | | X | | | |
| 2/24/94 | 1320 | | X | MW-3 | 5 | X | | | | | X | | | |
| REQUESTED BY: Mark Determan | | | | | | RESULTS AND INVOICE TO: Carolina Freight Carriers Corp c/o Blymyer Engineers, Inc | | | | | | | | |
| RELINQUISHED BY: (SIGNATURE) Steph W Moore | | DATE / TIME 2/24/94 15:10 | | RECEIVED BY: (SIGNATURE) K. Lumbre | | RELINQUISHED BY: (SIGNATURE) K. Lumbre | | DATE / TIME 2/24/94 16:30 | | RECEIVED BY: (SIGNATURE) | | | | |
| RELINQUISHED BY: (SIGNATURE) (VIANNES) | | DATE / TIME | | RECEIVED FOR LABORATORY BY: (SIGNATURE) Keng-b | | DATE / TIME 2/25/94 0800 | | REMARKS: Temp. Read 0.9C | | | | | | |

2/24/94 [Signature]
and instruct

WHITE: Accompany Sample

YELLOW: BEI, After Lab Signs

PINK: Original Sampler