



DEPARTMENT OF ENVIRONMENTAL HEALTH
Environmental Protection Division
1131 Harbor Bay Parkway, #250
Alameda, CA 94502-6577
(510) 567-6700

September 26, 1995
StID # 3757

REMEDIAL ACTION COMPLETION CERTIFICATION

Mr. Bill Traverso
United Glass Company
Oakland CA 94612

RE: United Glass Company, 477 25th Street, Oakland 94612

Dear Mr. Traverso:

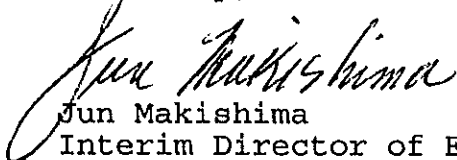
This letter confirms the completion of site investigation and remedial action for the one 500 gallon gasoline underground storage tank at the above described location.

Based upon the available information and with provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to the regulation contained in Title 23, Division 3, Chapter 16, Section 2721 (e) of the California Code of Regulations.

Please contact Jennifer Eberle at (510) 567-6761 if you have any questions regarding this matter.

Sincerely,


Jun Makishima

Interim Director of Environmental Health

c: George Young, Acting Chief, Hazardous Materials Division-files
Kevin Graves, RWQCB
Mike Harper, SWRCB

3757RACC.dkt

AUG 21 1995 KG

8/11/95
8/11/95

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: 8/11/95

Agency name: **Alameda County-HazMat**
City/State/Zip: **Alameda CA 94502**
Responsible staff person: **Jennifer Eberle**

Address: **1131 Harbor Bay Pky**
Phone: **(510) 567-6700**
Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: **United Glass Company**
Site facility address: **477-25th St., Oakland CA 94612**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **3757**
URF filing date: **11/11/92** SWEEPS No: **N/A**

Responsible Parties: **Addresses:** **Phone Numbers:**
Bill Traverso, United Glass, 477-25th St., Oakland CA 94612 (510-832-6514)

| <u>Tank No:</u> | <u>Size in gal.:</u> | <u>Contents:</u> | <u>Closed in-place or removed?:</u> | <u>Date:</u> |
|-----------------|----------------------|------------------|-------------------------------------|--------------|
| 1 | 500 | gasoline | removed | 11/7/90 |

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: unknown
Site characterization complete? YES
Date approved by oversight agency: n/a
Monitoring Wells installed? YES Number: 1
Proper screened interval? YES
Highest GW depth below ground surface: 8.20'bgs Lowest depth: 9.40'bgs
Flow direction: assumed SE, towards Lake Merritt. GW at nearby sites flowed South: Sears at 2630 Telegraph Ave, Exxon at 2225 Telegraph Av., and Shell at 2800 Telegraph Ave.
Most sensitive current use: commercial (glass company)
Are drinking water wells affected? NO Aquifer name:
Is surface water affected? NO Nearest affected SW name:
Off-site beneficial use impacts (addresses/locations): unknown

Report(s) on file? YES Where is report(s) filed?
Alameda County, 1131 Harbor Bay Pky, Alameda Ca 94502

5 OCT 16 PM 2:57
ENVIRONMENTAL PROTECTION

Leaking Underground Fuel Storage Tank Program

Treatment and Disposal of Affected Material:

| <u>Material</u> | <u>Amount</u> <u>(include units)</u> | <u>Action (Treatment</u> <u>of Disposal w/destination)</u> | <u>Date</u> |
|-----------------|---|---|-------------|
| Tank | 400 gal | disposed to H&H in SF (manifest #90389297) | 11/7/90 |
| Piping | | | |
| Free Product | | | |
| Soil | 28 tons | disposed to Remco in Richmond (a recycler) | 3/1/91 |
| purge water | 50 gal | disposed to Evergreen Environmental | 11/22/94 |

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued) Maximum Documented Contaminant Concentrations - - Before and After Cleanup

| Contaminant | Soil (ppm) | | Water (ppm) | |
|--------------|------------|-------|-------------|--------|
| | Before | After | Before | After |
| TPH (Gas) | 120* | 1.0 | 23** | 1.8 |
| TPH (Diesel) | NA | | NA | |
| Benzene | 0.51* | 0.10 | ND** | ND |
| Toluene | 0.36 | 0.012 | 0.012 | 0.0009 |
| Xylene | 14 | 0.091 | 0.033 | 0.0014 |
| Ethylbenzene | 2.5 | 0.037 | 0.015 | 0.016 |
| Oil & Grease | NA | | NA | |
| Heavy metals | NA | | NA | |

Comments (Depth of Remediation, etc.): * the stockpiled soils had higher concentrations. See Section VII.
**water from the pit during tank removal had higher concentrations. See Section VII.

Leaking Underground Fuel Storage Tank Program

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Undetermined

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Undetermined

Does corrective action protect public health for current land use? YES
Site management requirements: NA

Should corrective action be reviewed if land use changes? YES

Monitoring wells Decommissioned: Not yet

Number Decommissioned: Number Retained:

List enforcement actions taken: NOV written on 7/21/93

List enforcement actions rescinded:

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Jennifer Eberle Title: Hazardous Materials Specialist

Signature:  Date: 8-16-95

Reviewed by

Name: Dale Klettke Title: Hazardous Materials Specialist

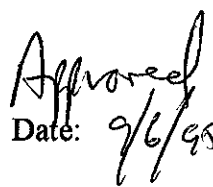
Signature:  Date: 8/16/95

Name: eva chu Title: Hazardous Materials Specialist

Signature:  Date: 8/16/95

VI. RWQCB NOTIFICATION

Date Submitted to RB: 8-16-95

RB Response: 

RWQCB Staff Name: Kevin Graves

Title: AWRCE Date: 9/6/95



Leaking Underground Fuel Storage Tank Program

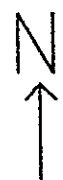
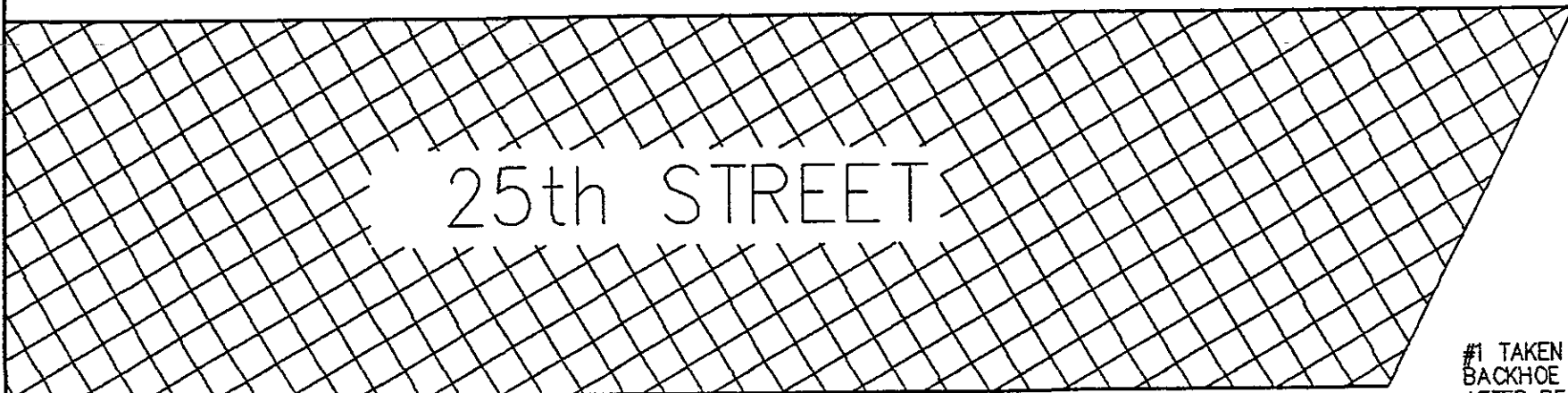
VII. ADDITIONAL COMMENTS, DATA, ETC.

On 11/7/90, one 500-gallon gasoline UST was removed. Some holes were noted on the top of the UST, and half way down the UST; no holes were noted on the bottom of the UST. One soil sample was taken at approx 11'bgs below the UST in the native bay mud. A water sample was also grabbed from seepage at the bottom of the pit. **See Figure 1.** Soil results indicated 0.51 ppm benzene, 0.36 ppm toluene, 2.5 ppm ethylbenzene, 14 ppm xylenes, and 120 ppm TPH-gasoline. The 4-point composite taken from the stockpile had 1,500 ppm TPH-gasoline, 6.5 ppm benzene and TEX. Water results indicated 13,000 ppb TPH-gasoline, 260 ppb benzene, and TEX.

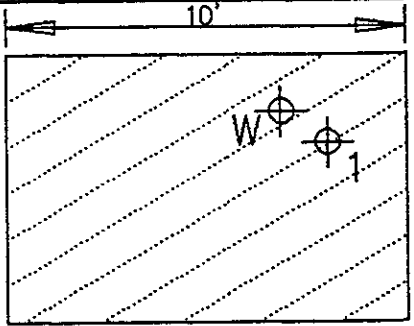
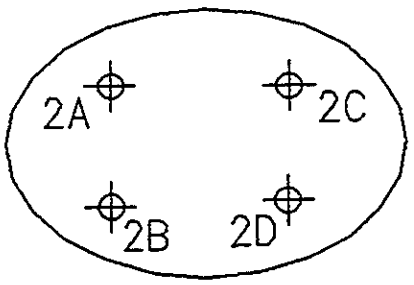
The pit was overexcavated on 12/10/90, and soils were resampled at 13'bgs. **See Figure 2.** Soil results indicated up to 1.0 ppm TPH-gasoline and up to 0.10 ppm benzene, 0.012 ppm toluene, 0.037 ppm ethylbenzene, and 0.091 ppm xylenes. Approximately 28 tons of soil were removed during this phase of work.

Based on gw flow direction data from nearby sites, the gradient was assumed to be South. These nearby sites are Sears at 2630 Telegraph Ave, Exxon at 2225 Telegraph Av., and Shell at 2800 Telegraph Ave. One well was installed in January 1994. Soils sampled from the borehole had ND benzene and ND TPH-g at 5.0'bgs, and ND benzene and 23 ppm TPHg at 9.0'bgs. **See Table 1.**

Groundwater was sampled for four consecutive quarters. Benzene was ND during all four quarters. TPH-g decreased steadily from 25,000 ppb to 1,800 ppb. **See Table 2.** Considering the absence of benzene, the very low concentrations of TEX, and the natural attenuation observed in the decreasing TPH-g concentrations, as well as the absence of soil contamination (post-overexcavation), this case can be closed.



STOCKPILE
14'X 8'X 4.5'



EXCAVATION
DEPTH 11'

#1 TAKEN FROM
BACKHOE BUCKET
AFTER REACHING
NATIVE SOIL
(BAY MUD)

#2A,B,C,D
COMPOSITED
FROM STOCKPILE
AFTER REMOVAL
OF 8"-12" OF SOIL

#W WATER SAMPLE
TAKEN FROM
SEEPAGE AT
BOTTOM OF PIT

UNITED GLASS CO.

FRONT DOOR

12.5'

Fig. 1

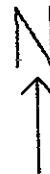
UNITED GLASS CO.
477 25th STREET
OAKLAND, CA

Sample Log#: 1975
DATE: 11/7/90

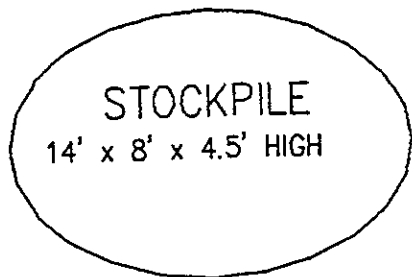
WEST Western Environmental
Science & Technology
1046 Olive Drive #3, Davis, CA 95616
Phone: (916) 753-9500

Drawn by: PJT

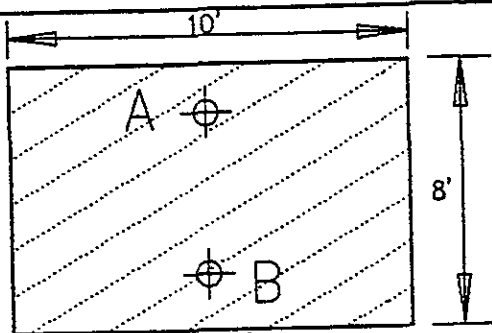
25th STREET



SIDEWALK



STOCKPILE
14' x 8' x 4.5' HIGH



10'

8'

EXCAVATION

FRONT DOOR

12.5'

NOTE:

Samples A and B
were taken
from a depth
of 13 feet.

UNITED GLASS CO.

UNITED GLASS CO. (SCOTT)
477 25th STREET
OAKLAND, CALIFORNIA

Sample Log#: 2093
DATE: 12/10/1990



Western Environmental
Science & Technology

1046 Olive Drive #3, Davis, CA 95616
Phone: (916) 753-9500

Drawn by: TGT

Fig 2

container was tightly sealed with a teflon-lined septum; and (3) Each container was then labeled and placed in cold storage for transport to the analytical laboratory under formal chain-of-custody. All purged ground water was stored on site in a sealed drum pending analytical results of the ground water samples. All sampling equipment was thoroughly cleaned and decontaminated between each sample collection by triple rinsing as described above.

2.5 Laboratory Analysis of Soil and Ground Water Samples

A total of two soil samples and one water sample, were analyzed for total petroleum hydrocarbons as gasoline (TPH-gasoline); and benzene, toluene, xylenes, and ethylbenzene (BTXE) by NET Pacific, Inc.

3.0 RESULTS OF INVESTIGATION

3.1 General Subsurface Conditions

Brown to grey-green clayey silts were encountered in the well boring down to approximately nine feet in depth. A green coarse sand exhibiting strong hydrocarbon odors was encountered from nine to approximately 13 feet below grade. Prior to well development and sampling, ground water was measured at 8.79 feet below top of casing in the well. During well development and sampling, ground water exhibited slight to moderate hydrocarbon odors with no hydrocarbon sheen.

3.3 Results of Laboratory Analyses

Soil and ground water analytical results are summarized in Table 1. Laboratory data reports and chain-of-custody records are contained in Appendix D.

| Sample ID | Sample Depth | Concentration (ppm) ✓ | | | | |
|-----------------------------|--------------|-----------------------|--------------|---------|------------|--------------|
| | | TPH-gas | Benzene | Toluene | Xylenes | Ethylbenzene |
| Soil Samples | | | | | | |
| SB-1 | 5.0 ft | ND(1) ¹ ✓ | ND(0.0025) ✓ | 0.0092 | ND(0.0025) | ND(0.0025) |
| SB-2 | 9.0 ft | 23.0 ✓ | ND(0.0025) ✓ | 0.110 | 0.100 | 0.039 |
| Ground Water Samples | | | | | | |
| MW-1 | -- | 23.0 ² ✓ | ND(0.0025) ✓ | 0.012 | 0.033 | 0.150 |

1 - Not detected above the value expressed in parentheses.

2 - NET laboratory report states "The positive result has an atypical pattern for gasoline analysis."

RESULTS OF QUARTERLY MONITORING

Hydrologic Conditions

Slight hydrocarbon odors and sheen were noted during purging of the monitoring well. In addition, all parameters (pH, temperature, and conductivity) stabilized rapidly during purging. A ground water sampling data sheet is contained in Appendix A.

Analytical Results

The ground water sample from MW-1 was analyzed for total petroleum hydrocarbons as gasoline (TPH-gas) and benzene, toluene, ethylbenzene and xylenes (BTEX) with a two-week turn around time on analytical results. Table 1 summarizes these analytical results. Laboratory data reports and chain-of-custody records are contained in Appendix B.

| Well Number | Sample Date | Water Depth ¹ | Constituent (ppm) | | | | |
|-------------|-------------|--------------------------|-------------------|-------------------------|--------|-------|--------|
| | | | TPH-gas | B | T | E | X |
| MW-1 | 01/28/94 | 8.79 | 25 ² | ND(0.0025) ³ | 0.012 | 0.15 | 0.033 |
| | 05/09/94 | 8.66 | 3.5 | ND(0.0005) | 0.0011 | 0.036 | 0.012 |
| | 07/25/94 | 9.40 | 3.3 ⁴ | ND(0.0005) | 0.0025 | 0.033 | 0.0028 |
| | 11/14/94 | 8.20 | 1.8 | ND(0.0005) | 0.0009 | 0.016 | 0.0014 |

- 1 - Water depth in feet below top of casing.
- 2 - Laboratory results state; "The positive result has an atypical pattern for gasoline analysis".
- 3 - Not detected above the concentration expressed in the parentheses.
- 4 - Laboratory results state; "The positive results appears to be a heavier hydrocarbon than gasoline".

CONCLUSIONS

Based on both field and analytical results for the four quarters of ground water monitoring, Century West Engineering concludes that: (1) Relatively low levels of TPH-gasoline are