

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

September 4, 2001

Christopher Wilson  
California Dept. of Transportation, District 4  
Office of Environmental Engineering  
Box 23660  
Oakland, CA 94623-0660

Dear Mr. Wilson:

Subject: Thomas A. Short Co. (TASCO), 3430 Wood St., Oakland, CA 94608;  
RO0000126

"Monitoring Well Installation and Groundwater Sampling Report..." dated June 29, 2001 by Geocon Consultants, Inc., was reviewed. We concur with your consultants' recommendation to continue quarterly groundwater monitoring and sampling. The contaminant concentrations will again need to be evaluated for human health and environmental risks using accepted risk assessment thresholds. Note that Total Petroleum Hydrocarbons-Gasoline (TPH-G) and TPH-Diesel (TPH-D) concentrations also need to be evaluated. (Preliminary Remediation Goals (PRG) do not exist for TPH-G or TPH-D.)

If you have any questions, please call me at (510) 567-6746.

Sincerely,

Don Hwang  
Hazardous Materials Specialist

*a*  
C: Matthew Hanco, Richard Day, Geocon Consultants, Inc., 2356 Research Dr., Livermore,  
CA 94550-3848

√ file

ALAMEDA COUNTY  
HEALTH CARE SERVICES

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1131 Harbor Bay Parkway, Suite 250  
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FAX (510) 337-9335

May 17, 2000

Teresa Trinh  
California Dept. of Transportation, District 4  
Office of Environmental Engineering  
Box 23660  
Oakland, CA 94623-0660

Dear Ms. Trinh:

Subject: Thomas A. Short Co. (TASCO), 3430 Wood St., Oakland, CA 94608;  
StId 386

"Former Thomas A. Short Co. (TASCO), 3430 Wood St., Oakland, CA, Caltrans Contract No. 43A0012, Task Order No. 04-190270-RM, Site Investigation Workplan" dated May 5, 2000, by Geocon, Project No. S8225-06-103, was reviewed. It is approved subject to changing the monitoring well development procedure to continue until 10 casing well volumes have been removed instead of the proposed 5 casing well volumes, or turbidity measurements are less than 5 ntu, whichever is sooner.

If you have any questions, please call me at (510) 567-6746.

Sincerely,

Don Hwang  
Hazardous Materials Specialist

ll

C: file



California Department of Transportation, District 4

Office of Environmental Engineering

Telecopier (FAX) No: (510) 286-5728

Date: 4/27/00

Time: 9:15

To: Name: DON HWANG  
 Agency: ALAMEDA COUNTY  
 Attention: \_\_\_\_\_  
 Telephone: \_\_\_\_\_

From: Name: TERESA TRINH  
 Telephone: 570 286-5701

Number of pages being sent (including this page): 02

Message:  
FOR YOUR REVIEW, IT IS IMPORTANT  
FOR YOU TO SET A TIME TO REVIEW THE  
REPORTS ~~AS~~ AS SCHEDULE SO WE  
CAN PROCEED WITH THE PROJECT.

**Thomas A. Short Company**  
 Task Order Number 04-292351- EP  
 Contact Number 43A0012

| Description  | Delivery Date  |
|--|----------------|
| 1. Caltrans Issues Task Order.....                                 | April 12, 2000 |
| 2. Task Order Finalized.....                                       | April 14       |
| 3. Consultants Return ARD.....                                     | April 18       |
| 4. Pre-work Site Visit.....  | April 20       |
| 5. Consultant Return Checklist.....                                | April 21       |
| 6. Caltrans Issues Notice to Proceed.....                          | April 25       |
| 7. Draft Health, Safety, and Work Plan to Caltrans .....           | May 5          |
| 8. Alameda County Completes Initial Review of Work Plan...         | May 17         |
| 9. Consultant Responds to Alameda County's Comments.....           | May 19         |
| 10. Alameda County Approves Work Plan .....                        | May 23         |
| 11. Complete Field Work .....                                      | May 26         |
| 12. Draft Site Investigation (SI) Report Delivered to Caltrans.... | June 14        |
| 13. Alameda County Completes Review of SI Report.....              | June 28        |
| 14. Consultant Responds to Alameda County's Comments .....         | July 7         |
| 15. Alameda County Approves SI Report .....                        | July 14        |
| 16. Final Report*.....   | July 21, 2000  |

\* Denotes key element of the Completion Schedule with liquidated damages penalty of Fifty Dollars per day.

We concur with this Completion Schedule.

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Signature of Contractor (or designee) Date

---

Signature Caltrans Contract Manager (or designee) Date

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway  
Alameda, CA 94502-6577  
(510) 567-6700  
(510) 337-9432

December 23, 1999

Peter Altherr  
State of California-Business, Transportation, Housing Agency  
Dept. of Transportation  
Office of Environmental Engineering  
Box 23660  
Oakland, CA 94623-0660

Re: Thomas A. Short Co. (TASCO), 3430 Wood St., Oakland, CA 94608;  
StId 386

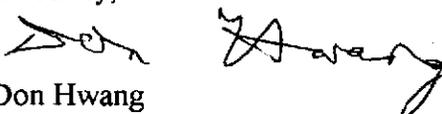
Dear Mr. Altherr:

Thank you for your e-mail reply regarding the status of the site investigation for the subject property. Initiation of groundwater monitoring on this site in the first quarter of next year would be acceptable. However, we would like to know if you are still planning to use the draft of "Monitoring Sampling and Analysis Workplan, Thomas A. Short Co. (TASCO), 3430 Wood St., Oakland, CA, Nov. 6, 1995", submitted by Ca. Dept. of Transportation, District 4, Office of Environmental Engineering, Oakland, CA., and if so, the following information is needed within 30 days:

- 1) Rational for the proposed placement of the three monitoring wells.
- 2) Construction of the monitoring wells including expected depth and diameter, sampling method and interval, well design and construction specifications, depth interval and type of seal, construction diagram, and plans for characterizing and disposing of cutting spoils and development water.

If you are not, then indicate when another workplan will be submitted. If you have any questions, please call me at (510) 567-6746.

Sincerely,

  
Don Hwang  
Hazardous Materials Specialist

C: file  
L.H.

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway  
Alameda, CA 94502-6577  
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(510) 337-9432

December 22, 1999

Peter Altherr  
State of California-Business, Transportation, Housing Agency  
Dept. of Transportation  
Office of Environmental Engineering  
Box 23660  
Oakland, CA 94623-0660

Re: Thomas A. Short Co. (TASCO), 3430 Wood St., Oakland, CA 94608;  
Stid 386

Dear Mr. Altherr:

We have not heard from you since last month when we were notified by Christopher Wilson that you were assigned this case. Were you able to review our files for this case? We are still seeking the following information about the wells proposed in the draft of "Monitoring Sampling and Analysis Workplan, Thomas A. Short Co. (TASCO), 3430 Wood St., Oakland, CA, Nov. 6, 1995", submitted by Ca. Dept. of Transportation, District 4, Office of Environmental Engineering, Oakland, CA.:

- 1) Rational for the proposed placement of the three monitoring wells.
- 2) Construction of the monitoring wells including expected depth and diameter, sampling method and interval, well design and construction specifications, depth interval and type of seal, construction diagram, and plans for characterizing and disposing of cutting spoils and development water.

Please submit the information required within 30 days. If you have any questions, please call me at (510) 567-6746.

Sincerely,

  
Don Hwang  
Hazardous Materials Specialist

C: file  
i.s.

**Hwang, Don, Public Health, EH**

**From:** Peter\_Aitherr/D04/Caltrans/CAGOV%DOT@dot.ca.gov  
[SMTP:Peter\_Aitherr/D04/Caltrans/CAGOV%DOT@dot.ca.gov]  
**Sent:** Wednesday, December 22, 1999 2:42 PM  
**To:** Dhwang@co.alameda.ca.us  
**Cc:** Celia\_Mccuaig/D04/Caltrans/CAGOV%DOT@dot.ca.gov  
**Subject:** Thomas A. Short CoA

Dear Mr. Dhwang:

This email is in response to your voice mail message regarding the status of the site investigation for the subject property.

I regret to inform you that no progress has been made on this investigation since our last conversation. I anticipate that groundwater monitoring will be initiated on this site in the first quarter of next year.

Please contact District Branch Chief, Celia McCuaig, at (510) 286-5659 if you feel that this time-frame is not acceptable.

Sincerely,

Peter Aitherr

October 12, 1999

Christopher R. Wilson, P.E.  
State of California-Business, Transportation, Housing Agency  
Dept. of Transportation  
Office of Environmental Engineering  
Box 23660  
Oakland, CA 94623-0660

**FINAL NOTICE OF VIOLATION**

Re: Thomas A. Short Co. (TASCO), 3430 Wood St., Oakland, CA 94608;  
Stid 386

Dear Mr. Wilson:

Letters dated September 8, 1999, August 3, 1999, May 21, 1999 and March 26, 1999 from this office requested additional information about the wells proposed in the draft of "Monitoring Sampling and Analysis Workplan, Thomas A. Short Co. (TASCO), 3430 Wood St., Oakland, CA, Nov. 6, 1995", submitted by Ca. Dept. of Transportation, District 4, Office of Environmental Engineering, Oakland, CA. As of this date, we have not received this information.

The following information is still required:

- 1) Rational for the proposed placement of the three monitoring wells.
- 2) Construction of the monitoring wells including expected depth and diameter, sampling method and interval, well design and construction specifications, depth interval and type of seal, construction diagram, and plans for characterizing and disposing of cutting spoils and development water.

This letter constitutes a formal request for technical reports pursuant to California Water Code Section 13267(b) and Health and Safety Code Section 25299.37 and 25299.7. Failure to comply with the request will result in referral of this case to the Alameda County District Attorney's Office. You are further advised that failure to comply may subject you to penalties of up to \$5000 per day. Please submit the information required within 30 days. If you have any questions, please call me at (510) 567-6746.

Sincerely,

Don Hwang  
Hazardous Materials Specialist

C: file

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
(510) 337-9335 (FAX)

September 8, 1999

Christopher R. Wilson, P.E.  
State of California-Business, Transportation, Housing Agency  
Dept. of Transportation  
Office of Environmental Engineering  
Box 23660  
Oakland, CA 94623-0660

2<sup>nd</sup> NOTICE OF VIOLATION

Re: Thomas A. Short Co. (TASCO), 3430 Wood St., Oakland, CA 94608;  
Stid 386

Dear Mr. Wilson:

Letters dated August 3, 1999, May 21, 1999 and March 26, 1999 from this office requested additional information about the wells proposed in the draft of "Monitoring Sampling and Analysis Workplan, Thomas A. Short Co. (TASCO), 3430 Wood St., Oakland, CA, Nov. 6, 1995", submitted by Ca. Dept. of Transportation, District 4, Office of Environmental Engineering, Oakland, CA. As of this date, we have not received this information.

The following information is still required:

- 1) Rational for the proposed placement of the three monitoring wells.
- 2) Construction of the monitoring wells including expected depth and diameter, sampling method and interval, well design and construction specifications, depth interval and type of seal, construction diagram, and plans for characterizing and disposing of cutting spoils and development water.

This letter constitutes a formal request for technical reports pursuant to California Water Code Section 13267(b) and Health and Safety Code Section 25299.37 and 25299.7. Failure to comply with the request will result in referral of this case to the Alameda County District Attorney's Office. You are further advised that failure to comply may subject you to penalties of up to \$5000 per day. Please submit the information required within 30 days. If you have any questions, please call me at (510) 567-6746.

Sincerely,

Don Hwang  
Hazardous Materials Specialist

C: The City of Oakland Fire Services, 1603 Martin Luther King, Fire Station 1,  
Oakland CA 94612

file

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250  
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(510) 567-6700  
(510) 337-9335 (FAX)

May 21, 1999

Christopher R. Wilson, P.E.  
State of California-Business, Transportation, Housing Agency  
Dept. of Transportation  
Office of Environmental Engineering  
Box 23660  
Oakland, CA 94623-0660

Re: Thomas A. Short Co. (TASCO), 3430 Wood St., Oakland, CA 94608;  
Stid 386

Dear Mr. Wilson:

A letter dated March 26, 1999 requesting additional information about the wells proposed in the draft of "Monitoring Sampling and Analysis Workplan, Thomas A. Short Co. (TASCO), 3430 Wood St., Oakland, CA, Nov. 6, 1995", submitted by Ca. Dept. of Transportation, District 4, Office of Environmental Engineering, Oakland, CA., was sent to you. The information about the proposed wells has not been received.

The following information is still required:

- 1) Rational for the proposed placement of the three monitoring wells.
- 2) Construction of the monitoring wells including expected depth and diameter, sampling method and interval, well design and construction specifications, depth interval and type of seal, construction diagram, and plans for characterizing and disposing of cutting spoils and development water.

Please submit the information requested within 30 days.

If you have any questions, I may be reached at 567-6746.

Sincerely,

Don Hwang  
Hazardous Materials Specialist

C: file

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION (LOP)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

March 26, 1999

Christopher R. Wilson, P.E.  
State of California-Business, Transportation, Housing Agency  
Dept. of Transportation  
Office of Environmental Engineering  
Box 23660  
Oakland, CA 94623-0660

Re: Thomas A. Short Co. (TASCO), 3430 Wood St., Oakland, CA 94608;  
Stid 386

Dear Mr. Wilson:

The draft of "Monitoring Sampling and Analysis Workplan, Thomas A. Short Co. (TASCO), 3430 Wood St., Oakland, CA, Nov. 6, 1995", submitted by Ca. Dept. of Transportation, District 4, Office of Environmental Engineering, Oakland, CA. was reviewed. The following information is required:

- 1) Rational for the proposed placement of the three monitoring wells.
- 2) Construction of the monitoring wells including expected depth and diameter, sampling method and interval, well design and construction specifications, depth interval and type of seal, construction diagram, and plans for characterizing and disposing of cutting spoils and development water.

If you have any questions, I may be reached at 567-6746.

Sincerely,

Don Hwang  
Hazardous Materials Specialist

C: file

ALAMEDA COUNTY  
HEALTH CARE SERVICES

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ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION (LOP)  
1131 Harbor Bay Parkway, Suite 250  
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(510) 567-6700  
FAX (510) 337-9335

March 2, 1999

Lynn Nakashima  
State of California-Environmental Protection Agency  
Dept. of Toxic Substances Control  
Region 2  
700 Heinz Ave., Suite 200  
Berkeley, CA 94710-2737

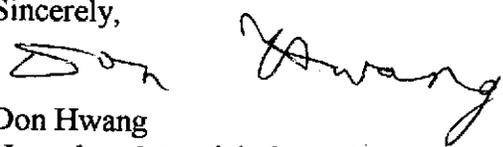
Re: Thomas A. Short Co. (TASCO), 3430 Wood St., Oakland, CA 94608;  
Stid 386

Dear Ms. Nakashima:

Our last copy of correspondence from your office is dated February 14, 1994. Please send copies of any future and past correspondence since that date which is relevant to the leak from the underground tanks to this office.

I may be reached at 567-6746.

Sincerely,

  
Don Hwang  
Hazardous Materials Specialist

C: file

20126

LOP - RECORD CHANGE REQUEST FORM

printed:  
10/22/98

Mark Out What Needs Changing and Hand to LOP Data Entry  
(Name/Address changes go to Annual Programs Data Entry)

Insp: TP

AGENCY # : 10000      SOURCE OF FUNDS: F      SUBSTANCE: 8006619  
 StID : 386      LOC:  
 SITE NAME: Thomas Short Co.      DATE REPORTED : 02/09/93  
 ADDRESS : 3430 Wood St      DATE CONFIRMED: 03/18/93  
 CITY/ZIP : Oakland      94607      MULTIPLE RPs : N

SITE STATUS

-----  
 CASE TYPE: S      CONTRACT STATUS: 4      PRIOR CODE:      EMERGENCY RESP:  
 RP SEARCH: S      DATE COMPLETED: 01/29/93  
 PRELIMINARY ASMNT:      DATE UNDERWAY:      DATE COMPLETED:  
 REM INVESTIGATION:      DATE UNDERWAY:      DATE COMPLETED:  
 REMEDIAL ACTION:      DATE UNDERWAY:      DATE COMPLETED:  
 POST REMED ACT MON:      DATE UNDERWAY:      DATE COMPLETED:

ENFORCEMENT ACTION TYPE: 1      DATE ENFORCEMENT ACTION TAKEN: 01/29/93  
 LUFT FIELD MANUAL CONSID: 2SCA  
 CASE CLOSED:      DATE CASE CLOSED:  
 DATE EXCAVATION STARTED : 01/28/93      REMEDIAL ACTIONS TAKEN:

RESPONSIBLE PARTY INFORMATION

-----  
 RP#1-CONTACT NAME: Thomas Laflamme  
 COMPANY NAME: The Thomas A. Short Co.  
 ADDRESS: 3430 Wood St.  
 CITY/STATE: Oakland, Ca 94607

INSPECTOR VERIFICATION:

NAME \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

DATA ENTRY INPUT:

Name/Address Changes Only      Case Progress Changes

ANNPGMS \_\_\_\_\_ LOP \_\_\_\_\_ DATE \_\_\_\_\_      LOP \_\_\_\_\_ DATE \_\_\_\_\_

\* ERROR CODE OR BILLING DATE LEGEND:

- 1/1/97 and beyond: Already or nearly Debited
- 1/1/87: Ineligible for Debit: either no deposit or neg. closing balance.
- 1/\*86: Error codes: need fixing before debiting.
- 1/1/85: Pre 1997 DepRef work marked as Available for Debiting.

RECORDS BETWEEN REPRINTS:

| PROJ#: | StID: 6363   |       |       |        |        | Total | Total   |
|--------|--------------|-------|-------|--------|--------|-------|---------|
| Date   | Action Taken | Init  | Time  | \$Rate | Charge | Time  | Charges |
| -----  | -----        | ----- | ----- | -----  | -----  | ----- | -----   |
| -----  | -----        | ----- | ----- | -----  | -----  | ----- | -----   |
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| -----  | -----        | ----- | ----- | -----  | -----  | ----- | -----   |

DRWrkSht; Rev 6/97

Current HazMat Dailies Statement Complete

TOTAL COUNTS: #Current Dailies: 0 Both Archived & Current: 3

ALAMEDA COUNTY HAZARDOUS MATERIALS DIVISION

10/22/98

UNDERGROUND STORAGE TANK CLEANUP SITE

|  |                              |                                  |
|--|------------------------------|----------------------------------|
| AGENCY#: 10000   | SOURCE OF FUNDS: F-FEDERAL   | INSPECTOR: TP                    |
| StID: 386  | SUBSTANCE: 8006619 -Gasoline | DATE REPORTED : 02/09/93         |
| SITE NAME: Thomas Short Co.                                |                              | DATE CONFIRMED: 03/18/93         |
| ADDRESS : 3430 Wood St                                     |                              | MULTIPLE RP's : N                |
| CITY/ZIP : Oakland, CA 94607                               |                              |                                  |
| CASE TYPE: S CONTRACT STATUS: 4 PRIOR: EMERGENCY RESPONSE: |                              |                                  |
| RP SEARCH : S  | DATE BEGIN:                  | DATE END: 01/29/93               |
| PRELIM ASSESSMENT :  | DATE BEGIN:                  | DATE END:                        |
| REMEDIAL INVESTIG :  | DATE BEGIN:                  | DATE END:                        |
| REMEDIAL ACTION :  | DATE BEGIN:                  | DATE END:                        |
| POST REMED MONITOR:  | DATE BEGIN:                  | DATE END:                        |
| TYPE ENFORCEMENT ACTION TAKEN: 1                           |                              | DATE OF ENFORC. ACTION: 01/29/93 |

UNDERGROUND STORAGE TANK CLEANUP SITE - SCREEN #2

|                                       |                  |
|---------------------------------------|------------------|
| LUFT FIELD MANUAL CONSIDERATION: 2SCA | CASE CLOSED: on: |
|---------------------------------------|------------------|

Listing all LOP DAILY activities since 1991 for StID # 386  
as of 10/22/98

Act91\_4  
Act92\_1  
Act92\_2  
Act92\_3  
Act92\_4  
Act92\_5  
Act93\_1

| ActivDat | Insp | ACT | Activ | StID | ActCostF | aComment  |
|----------|------|-----|-------|------|----------|---|
| 01/29/93 | JE   | 210 | 2.2   | 386  | \$84.12  | Overex and resampling w/ASE   |
| 02/01/93 | JE   | 212 | 0.5   | 386  | \$19.12  | Met w/D. Allen of ASE re worklan.<br>Spoke w/M. Marelllo re signature<br>authorization.   |
| 02/01/93 | BC   | 215 | 0.3   | 386  | \$13.43  | conversation with J. Eberle Ala Cty   |
| 02/01/93 | JE   | 215 | 1.5   | 386  | \$57.36  | Reviewed 1/28 workplan. Discussed<br>it (TRPH) with BC and SH.<br>Obtained copies of Thomas Short<br>site investigation from Geo<br>Resource Reports (Aug 92) |
| 02/02/93 | TP   | 212 | 0.3   | 386  | \$17.29  | w/Dave Allen  |
| 02/02/93 | JE   | 215 | 0.4   | 386  | \$15.29  | Discussed workplan w/TP   |
| 02/02/93 | SH   | 215 | 0.4   | 386  | \$18.53  | discuss case w/ T.P.  |
| 02/02/93 | TP   | 215 | 1.5   | 386  | \$86.47  | w/Dave Allen for JE w/Summary   |
| 02/03/93 | JE   | 210 | 0.8   | 386  | \$30.59  | Observed drilling of borings by<br>ASE. Includes travel time  |
| 02/03/93 | SH   | 215 | 0.2   | 386  | \$9.27   | discuss site w/ TP  |
| 02/09/93 | JE   | 212 | 0.7   | 386  | \$26.77  | Message from D. Allen of ASE re<br>lab results for tank pit. Spoke<br>w/S. DeHope. Reviewed lab results   |
| 02/09/93 | SH   | 215 | 0.3   | 386  | \$13.90  | discuss site w/ JE  |
| 03/25/93 | JE   | 212 | 0.2   | 386  | \$8.00   | Spoke w/D. Allen of ASE re reports  |
| 03/31/93 | JE   | 215 | 0.9   | 386  | \$35.99  | Reviewed 3/18/93 "Final Report,<br>UST Removal" by ASE. Spoke w/D.<br>Allen of ASE re same  |
| Act93_2  |      |     |       |      |          |   |
| 04/01/93 | JE   | 212 | 0.3   | 386  | \$12.00  | Spoke w/D. Allen of ASE re PEA  |
| 04/01/93 | TP   | 215 | 0.1   | 386  | \$5.76   | review w/JE   |
| 04/21/93 | SH   | 212 | 0.5   | 386  | \$23.16  | talked to Dave Allen re: PEA review   |
| 04/21/93 | JE   | 215 | 1.    | 386  | \$39.99  | Reviewed 4/1/93 "Draft PEA" by ASE  |
| 04/22/93 | SH   | 212 | 0.3   | 386  | \$13.90  | talked to Dave Allen re: PEA report   |
| 04/23/93 | JE   | 215 | 2.3   | 386  | \$91.99  | Continued review of 4/1/93 "Draft<br>PEA" by ASE. Wrote letter to<br>Cal-EPA DTSC w/comments.   |
| 04/28/93 | SH   | 215 | 1.5   | 386  | \$69.49  | review PEA Draft & JE's letter  |
| 05/03/93 | SH   | 215 | 0.5   | 386  | \$23.16  | review PEA draft report   |
| 05/06/93 | SH   | 215 | 1.    | 386  | \$46.33  | review PEA report   |
| 05/10/93 | JE   | 215 | 0.5   | 386  | \$20.00  | Discussed case w/SH. Revised<br>letter to DTSC  |
| 05/18/93 | SH   | 212 | 0.3   | 386  | \$14.22  | talked to Dave Allen re:PEA<br>comments   |
| 05/21/93 | JE   | 212 | 0.4   | 386  | \$16.00  | Mtg w/CalTrans  |
| 05/26/93 | SH   | 212 | 0.4   | 386  | \$19.74  | meeting, state/local coalition for<br>Cypress project, discuss status<br>of site  |
| 05/27/93 | SH   | 212 | 0.5   | 386  | \$24.48  | meeting CAC, discuss status of<br>Cypress Project   |

|          |    |     |     |     |         |  |
|----------|----|-----|-----|-----|---------|--|
| 06/02/93 | JE | 212 | 0.5 | 386 | \$20.00 | Spoke w/D. Allen of ASE re my comments to 4/1 PEA.               |
| 06/14/93 | JE | 212 | 0.3 | 386 | \$12.00 | Spoke w/D. Allen re his letter due                               |
| 06/21/93 | TP | 215 | 0.1 | 386 | \$5.76  | sup review-lustis  |
| Act93_3  |    |     |     |     |         |  |
| 07/13/93 | SH | 215 | 0.5 | 386 | \$24.43 | review updated status of site for Cypress Meeting                |
| 08/03/93 | SH | 212 | 0.5 | 386 | \$24.43 | discuss site w/ Cal Trans & RWQCB                                |
| Act93_4  |    |     |     |     |         |  |
| Act94_1  |    |     |     |     |         |  |
| 01/20/94 | JE | 212 | 0.4 | 386 | \$16.82 | mtg w/CalTrans   |
| 01/20/94 | SH | 212 | 0.4 | 386 | \$20.34 | meeting with Cal Trans (Oakland Office) re: status of site.      |
| 02/14/94 | JE | 215 | 0.3 | 386 | \$12.62 | responded to questions from DTSC                                 |
| Act94_2  |    |     |     |     |         |  |
| Act94_3  |    |     |     |     |         |  |
| Act94_4  |    |     |     |     |         |  |
| Act95_1  |    |     |     |     |         |  |
| Act95_2  |    |     |     |     |         |  |
| 04/13/95 | SH | 204 | 0.4 | 386 | \$21.32 | meeting with RWQCB (Sum Arigala) & DTSC (Lynn Nakashima) re: NAP |
| 05/11/95 | SH | 215 | 0.5 | 386 | \$26.65 | discuss case with RWQCB & DTSC                                   |
| Act95_3  |    |     |     |     |         |  |
| 07/13/95 | SH | 215 | 0.5 | 386 | \$26.65 | reviewed file for Cypress Project meeting                        |
| Act95_4  |    |     |     |     |         |  |
| 12/20/95 | SH | 212 | 0.3 | 386 | \$16.70 | talked to Chris Wilson re: site status                           |
| Act96_1  |    |     |     |     |         |  |
| Act96_2  |    |     |     |     |         |  |
| Act96_3  |    |     |     |     |         |  |
| Act96_4  |    |     |     |     |         |  |
| Act97_1  |    |     |     |     |         |  |
| Act97_2  |    |     |     |     |         |  |
| ACT97_3  |    |     |     |     |         |  |
| ACT97_4  |    |     |     |     |         |  |
| ACT98_1  |    |     |     |     |         |  |
| ACT98_2  |    |     |     |     |         |  |

complete



**Cal/EPA**

**State Water  
Resources  
Control Board**

**Division of  
Clean Water  
Programs**

**Mailing Address:  
P.O. Box 9444212  
Sacramento, CA  
94244-2120**

**2014 T Street,  
Suite 130  
Sacramento, CA  
95814  
(916) 227-4413  
FAX (916) 227-4530**

**World Wide Web  
<http://www.swrcb.ca.gov/~cwphome/fundhome.htm>**

**DEC -1 1997**

**County of Alameda  
Dept of Environmental Health  
1131 Harbor Pky, Rm 250  
Alameda, CA 94502-6577**

**FINANCIAL ALERT NOTICE/ CASE NUMBER 96-70919 TK**

**This is to advise you that Thomas A. Short Co., has a Notice of Commencement of Case under Chapter 7 of the Bankruptcy Code, Meeting of Creditors, and Fixing of Dates (Corporation/Partnership Asset Case) pending in the United States Bankruptcy Court, District of Northern California, Oakland.**

**The trustee for the debtor is: John T. Kendall  
2411 Santa Clara Ave. #12  
Alameda, CA 94501**

**If you have any questions, please call Erika Assadi at (916) 227-4529.**

**Sincerely,**

*[Handwritten signature of Doug Wilson]*  
**Doug Wilson  
Underground Storage Tank Cleanup Fund**

**Mr. Eric Wallberg  
Department of Toxic Substances Control  
P.O. Box 806  
Sacramento, CA 95812-0806**

**Ms. Linda Patrick, MIC 30  
Board of Equalization  
P.O. Box 942879  
Sacramento, CA 94279-0001**

**#38 (08)  
Thomas Short Co.  
3430 Wood St.  
Oakland CA 94607**

**97 DEC -2 PM 3:48**



**Pete Wilson  
Governor**

**STATE OF CALIFORNIA  
DEPARTMENT OF  
PROTECTION**



*Our mission is to preserve and enhance the quality of California's water resources, and ensure their proper allocation and efficient use for the benefit of present and future generations.*

## STATE WATER RESOURCES CONTROL BOARD

## DIVISION OF CLEAN WATER PROGRAMS

2014 T STREET, SUITE 130  
P.O. BOX 944212  
SACRAMENTO, CA 94244-2120

(916) 227-4325  
FACSIMILE (916) 227-4349



JAN 02 1996

Michael P. Benjamin  
Environmental Coordinator  
Thomas A. Short Company  
3430 Wood Street  
Oakland, CA 94608

Dear Mr. Benjamin:

UNDERGROUND STORAGE TANK (UST) LOCAL OVERSIGHT PROGRAM, SITE NO.  
386, ALAMEDA COUNTY

This is in response to your letter dated November 16, 1995. Your letter indicates that Caltrans took control of this property on April 1, 1994 and that our invoice dated October 26, 1995 should be paid by Caltrans. Along with a copy of this letter, I am forwarding your letter to the County for appropriate action. Please be aware that if the County identifies Caltrans as a responsible party, both yourself and Caltrans will be considered jointly and severally responsible for corrective action at this site. All invoices will be sent to both of you and payment of those invoices should be negotiated by both of you.

If you have any questions, please telephone me at (916) 227-4325.

Sincerely,

Lori Casias  
Local Oversight Program

cc: Susan Hugo (w/enclosure)  
County of Alameda  
Department of Environmental Health  
Hazardous Materials Division  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, CA 94502



THOMAS A. SHORT CO.

State Water Resources Control Board  
Underground Storage Tank Local Oversight Program  
P.O. Box 944212  
Sacramento, CA 94244-2120

November 16, 1995

Subject: Site #386

On April 1st, 1994, The Thomas A. Short Company signed a Right Of Way contract with the State of California, Department of Transportation (Caltrans) to give up our building at 3430 Wood Street. The Thomas A. Short Company was paid for the property and plans to demolish the building were made by Caltrans for the following year. Control of this property belonged to Caltrans from April 1st of 1994.

The two underground storage tanks (4000 gallon gasoline and 1000 gallon diesel #2) were removed in January of 1993. Caltrans demolished the building at 3430 Wood Street during the last week of May, 1995. The site is now going to be used as a support column for part of the new Cypress freeway. The personnel from Caltrans who were involved in the project are James Ross (510-286-5629) and Allen Chow (510-286-5646). Both worked for District 4, Environmental Engineering Division.

I don't know who paid the previous bill of \$727.81 but the current charges (01/01/95 through 06/30/95) of \$57.56 should be paid by Caltrans and the site should be closed. Please contact me if you have any questions or need any further documentation. My phone number is 510-655-9375 and FAX is 510-655-9822.

A handwritten signature in black ink that reads "Michael P. Benjamin". The signature is written in a cursive style with a long horizontal line extending to the right.

Michael P. Benjamin  
Environmental Coordinator

**DEPARTMENT OF TOXIC SUBSTANCES CONTROL**

REGION 2  
700 HEINZ AVE., SUITE 200  
BERKELEY, CA 94710-2737



(510) 540-3729

February 14, 1994

Mr. Allan Chow  
Department of Transportation  
District 4 Environmental Engineering  
P.O. Box 23660  
111 Grand Avenue  
Oakland, California 94623-0660

Dear Mr. Chow:

**REVISED PRELIMINARY ENDANGERMENT ASSESSMENT (PEA) REPORT, THOMAS A. SHORT COMPANY (TASCO), DECEMBER 8, 1993, 3430 WOOD STREET, OAKLAND, CYPRESS FREEWAY RECONSTRUCTION PROJECT**

The Department of Toxic Substances Control (Department) has reviewed the revised PEA submitted for Thomas A. Short Company located in Oakland. The Department approves the report contingent upon receipt of the following:

1. It is unclear whether the area around the fuel dispenser was investigated. The UST Closure Report shows that the area around the tanks were adequately remediated, and the associated piping was removed; however, the report does not mention the fuel dispenser. Please provide more information on this area. In the event this area was not investigated, additional sampling should be included as a recommendation.
2. The locations of soil borings A1 and A2 need to be identified on Figure 4.
3. Table 9 appears to contain a typographical error. Review of the laboratory data sheets show that the detection limits for BTEX are 0.5 ug/L, and not 50 ug/L. If the actual detection limits are 50 ug/L, please explain why lower detection limits could not be obtained.

In addition, the Department requests that Caltrans provide a time table indicating when the recommendations found in Section 4.2 will be implemented.

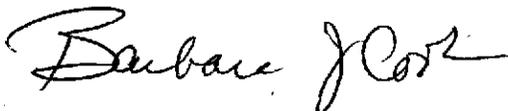


Mr. Allan Chow  
February 14, 1994  
Page Two

ALCO  
HAZMAT  
94 FEB 15 PM 4:31

If you have any questions regarding this letter, please call  
Lynn Nakashima of my staff at (510) 540-3839.

Sincerely,



Barbara J. Cook, P.E., Chief  
Site Mitigation Branch

cc: See next page.

cc:

~~████████████████████~~  
Alameda County Health Agency  
Department of Environmental Health  
80 Swan Way, Room 350  
Oakland, California 94621

Mr. Richard Hiett  
Regional Water Quality Control Board  
San Francisco Bay Region  
2101 Webster Street, Suite 500  
Oakland, California 94612

**DEPARTMENT OF TOXIC SUBSTANCES CONTROL**

REGION 2  
700 HEINZ AVE., SUITE 200  
BERKELEY, CA 94710-2737



(510) 540-3729

February 14, 1994

Mr. Allan Chow  
Department of Transportation  
District 4 Environmental Engineering  
P.O. Box 23660  
111 Grand Avenue  
Oakland, California 94623-0660

Dear Mr. Chow:

**REVISED PRELIMINARY ENDANGERMENT ASSESSMENT (PEA) REPORT, THOMAS A. SHORT COMPANY (TASCO), DECEMBER 8, 1993, 3430 WOOD STREET, OAKLAND, CYPRESS FREEWAY RECONSTRUCTION PROJECT**

The Department of Toxic Substances Control (Department) has reviewed the revised PEA submitted for Thomas A. Short Company located in Oakland. The Department approves the report contingent upon receipt of the following:

1. It is unclear whether the area around the fuel dispenser was investigated. The UST Closure Report shows that the area around the tanks were adequately remediated, and the associated piping was removed; however, the report does not mention the fuel dispenser. Please provide more information on this area. In the event this area was not investigated, additional sampling should be included as a recommendation.
2. The locations of soil borings A1 and A2 need to be identified on Figure 4.
3. Table 9 appears to contain a typographical error. Review of the laboratory data sheets show that the detection limits for BTEX are 0.5 ug/L, and not 50 ug/L. If the actual detection limits are 50 ug/L, please explain why lower detection limits could not be obtained.

In addition, the Department requests that Caltrans provide a time table indicating when the recommendations found in Section 4.2 will be implemented.



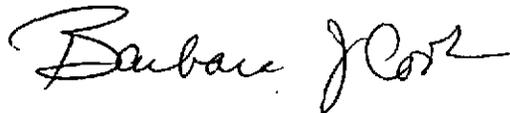
Mr. Allan Chow  
February 14, 1994  
Page Two

ALCO  
HAZMAT

94 FEB 15 PM 4:31

If you have any questions regarding this letter, please call  
Lynn Nakashima of my staff at (510) 540-3839.

Sincerely,



Barbara J. Cook, P.E., Chief  
Site Mitigation Branch

cc: See next page.

cc: Ms. Susan Hugo  
Alameda County Health Agency  
Department of Environmental Health  
80 Swan Way, Room 350  
Oakland, California 94621

Mr. Richard Hiett  
Regional Water Quality Control Board  
San Francisco Bay Region  
2101 Webster Street, Suite 500  
Oakland, California 94612

**DEPARTMENT OF TOXIC SUBSTANCES CONTROL**

REGION 2  
700 HEINZ AVE., SUITE 200  
BERKELEY, CA 94710-2737  
(510) 540-3839

August 5, 1993

93 AUG -6 PM 4:03



Mr. Allan Chow  
Department of Transportation  
District 4 - Environmental Engineering  
Box 23660  
Oakland, California 94623-0660

Dear Mr. Chow:

**DRAFT PRELIMINARY ENDANGERMENT ASSESSMENT (PEA) REPORT FOR THOMAS A. SHORT COMPANY (TASCO)**

The Department of Toxic Substances Control (Department) has reviewed the above mentioned PEA report for Thomas A. Short Company. Please find enclosed the Department's comments. The Department found that due to the lack of some laboratory analyses, additional sampling will be required to complete this PEA. More information is also requested regarding the current and past operations occurring at this site. In addition, due to the site's close proximity to marsh habitat, more information is needed to determine impacts to that community.

If you have any questions regarding this letter, or the enclosed comments, please call me at (510) 540-3839.

Sincerely,

*Lynn Nakashima*

Lynn Nakashima  
Associate Hazardous Materials  
Specialist  
Site Mitigation Branch

Enclosure

cc: See next page



Mr. Allan Chow  
August 5, 1993  
Page Two

cc: Ms. Susan Hugo  
Alameda County Health Agency  
Department of Environmental Health  
80 Swan Way, Room 350  
Oakland, California 94621

Mr. Donald Dalke  
Regional Water Quality Control Board  
San Francisco Bay Region  
2101 Webster Street, Suite 500  
Oakland, California 94612

Mr. Dave Allen  
Aqua Science Engineers, Inc.  
2411 Old Crow Canyon Road, #4  
San Ramon, California 94583

Comments to Draft  
Preliminary Endangerment Assessment Report for  
Thomas A. Short Company (TASCO)  
April 1, 1993

General Comments:

1. The report identified Methyl Ethyl Ketone (MEK) as a material used on site; however, the sample analyses conducted (SW-846 methods 8010, 8029, 601 and 602) do not include analysis for MEK. The soil and groundwater will need to be sampled to determine if MEK was released to the environment. The soil samples collected by Geo/Resource Consultants and analyzed for MEK were limited to two shallow boring locations (1.8 and 3.5 feet) and therefore may not adequately represent site conditions.
2. Additional samples need to be collected and analyzed for both trivalent and hexavalent chromium or during the risk assessment, all chromium detected will assume to be hexavalent chromium.
3. In order to complete the risk assessment, additional samples need to be collected and analyzed for Polynuclear Aromatic Hydrocarbons (PAHs) as high levels of both Total Petroleum Hydrocarbons (TPH) as gasoline and diesel were identified in soil and groundwater at this site.
4. In order to characterize the extent and content of the suspected garbage dump underlying the site, an additional investigation will need to be conducted. Prior to field activities, record searches (including aerial photographs) should be carried out to determine if documentation regarding the dump is available.
5. The report needs to address the source of volatile organics found at the site in both groundwater and soil. Additional record searches and personal interviews should be conducted to determine if VOCs other than MEK and toluene were used by the facility.
6. Additional information needs to be collected to determine groundwater flow direction, and to define the lithology underneath the site. Additional groundwater monitoring well(s) and/or hydropunch needs to be installed to determine if contaminants are migrating away from the clarifier/sump area and the UST excavation area, and to define groundwater flow. Also, cone penetrometer may be useful to help define the lithology.
7. The report needs to include a section describing whether the data collected provided the specific information required. In addition, the report needs to include a section on data

quality.

8. The report contains many typographical errors which should be corrected.

**Specific Comments:**

1. Page 2, section 2.2, Past and Current Site Activities: This section states that TASCOCO has been at the site for the past 36 years. This section needs to include the types of businesses, operating dates, and former owners and operators of the site previous to TASCOCO's occupancy.
2. Page 3, section 2.3, Hazardous Substance/Waste Management: This section needs to include a description of how toluene and MEK are used and handled by the facility.
3. Page 5, Sand Blasting, Painting and Corrosion Protection:
  - a. Specify the current and any former types of sand blast grit used by the facility, and identify any potential hazardous constituents of the grit. Material Safety Data Sheets (MSDS) may be useful in determining the composition of the grit.
  - b. The report should include any analysis of the spent sand blast grit. If the spent grit has never been analyzed, this should be stated.
  - c. Please specify whether the paint used at the facility has always been water-based. If oil-based paints were ever used, this should be stated. In addition, if any type of marine growth inhibitors or other additives were added to the paint, they should be identified in the report.
  - d. The sand blasting process needs to be described in greater detail. For example, is the sand blasting conducted in an enclosed structure; what methods are used to collect the sand blast grit; what types of dust control methods are in place, storage methods for used sand blast, etc.
4. Page 5, Stream (sic) Cleaning:
  - a. The steam cleaning process needs to include more detailed descriptions of the processes and physical unit. The text states that the steam cleaning unit is housed above an oil-water separator/clarifier, while Figure 3 indicates that the steam cleaning area/sump is separated from the clarifier. This discrepancy needs to be resolved. In addition, show any underground piping linking the two units; provide the dimensions of the sump and clarifier; state whether the sump and clarifier are located below ground surface, and if below ground, state how deep they are buried.
  - b. Explain the statement that "sump cleaning and sludge disposal records were not available." Is the sump cleaned out

or inspected, but records are not kept? If the sump has been cleaned out in the past, please indicate how the sludge was disposed of (i.e., on-site or off-site). Department records indicate that the only manifested load of waste oil and mixed oil was shipped on January 28, 1993.

5. Page 7, paragraph 2, Containment of Hazardous Substance/Wastes:
  - a. This paragraph should include statements regarding the integrity of the concrete floor and berm. For example, are cracks present; signs of patching; is the floor sealed, etc.
  - b. The report states that several floor drains are located within the building, and that "typical operations do not include runoff of liquid materials to flow into the floor drains." This statement implies that spills into the floor drains have occurred in the past. Specify the types of spills that have occurred, and what quantities.
6. Page 7, Hazardous Waste Recovery and Recycling: This section needs to include the volume of waste recovered/recycled annually by the facility.
7. Page 10, section 2.5.1: This paragraph states that chemical analyses of soil indicate levels of contaminants above "background". Please indicate how "background" levels were determined.
8. Page 11, second paragraph:
  - a. State what levels of contaminants were allowed to remain in soil after excavation of the underground storage tanks.
  - b. As soils were not analyzed for PAHs, additional soil samples will need to be collected and analyzed.
  - c. The locations of the piping associated with the tanks should be indicated on a map. Also, indicate where samples were collected along the piping lines.
  - d. The locations of borings B1, B2, H1, and W1 need to be shown with respect to the extent of the soil excavation.
  - e. Indicate whether the area around the fuel dispenser was investigated.
8. Page 12, Soil Permeability in the Unsaturated (Vadoze Zone):
  - a. The source(s) used to derive the estimates for soil permeability needs to be provided.
  - b. This section describes a sand soil type (SP) from 7 to 8 feet. Review of the UST excavation cross-sections show that a sand zone was found from 5 to 6 feet bgs, while the soil boring logs revealed that no sand zone was logged. Please resolve this discrepancy.
9. Page 13, Locations and Distances to Nearest Residential Area, etc.: Copies of all maps are not provided in Appendix IV. In addition, the map provided in the appendix does not include

the area within 1 mile of the facility, nor does it contain a legend explaining the symbols used, or a scale. Additional planning/zoning maps depicting the entire 1 mile area around the facility need to be included.

10. Page 14, section 2.5.2: This section needs to discuss the significance of the one foot sand zone found during excavation of the USTs.
11. Page 15, Aquifers Impacted by Releases at the Site and Water Use Data: This section is incomplete. Section 2.2.3.2, of the Department's Guidance for Preparation of a Preliminary Endangerment Assessment Report (PEA manual) lists specific items that need to be addressed. For example, the report does not include groundwater flow direction and velocity, or any specific descriptions of the hydrogeology beneath the site.
12. Page 15, paragraph 4: This paragraph is incomplete and does not cite any specific data.
13. Page 16, Flood Plain Identification: Include the definition of a "Zone C Flood Plain".
14. Page 17, section 2.6, paragraph 3, line 9: This sentence is incomplete.
15. Page 17, section 2.6.1, paragraph 3: The reason for comparing sample results to TTLC and STLC values needs to be explained. TTLC and STLC values are irrelevant with respect to determining clean-up numbers. TTLC and STLC values are only used to determine whether a waste is a hazardous waste.
16. Page 23, Groundwater Sample Collection and Chemical Analysis: Provide the rationale for not including metals analysis for the groundwater, especially since elevated levels of metals were detected in soil samples.
17. Page 28, section 3.2.1, fourth bullet: Provide the documentation that groundwater beneath the site is tidally influenced. Have tidal influence studies been conducted at the site?
18. Page 18, section 2.6.2:
  - a. Specify what analysis was used to detect the stoddard-type solvent (Chevron 360) used by the facility. For example stoddard solvents are often combined with carbon tetrachloride, which requires SW-846 method 8240 for analysis.
  - b. Explain why the sandblasting area was not included in the sampling investigation.
19. Page 38, section 3.3, Environmental Threat Assessment:
  - a. This paragraph states that the current concentrations of

contaminants in groundwater will not adversely impact flora or fauna. One of the reasons provided is that the levels of contaminants found, except for benzene, are below MCLs for drinking water. MCLs were established for the protection of humans consuming drinking water. Environmental receptors may be more or less susceptible to contaminants than humans; therefore, the environmental threat assessment needs to consider what levels may adversely impact the species present. The first step in this analysis is to evaluate the transport pathways from the site to the marsh. Insufficient documentation has been presented showing that groundwater is not impacting the nearby marsh community. Additional investigation is needed to address this deficiency. If an exposure pathway is shown to be complete, the next step is to assess whether the potential exists for exposure to the species of concern. Finally, toxicity and exposure values need to be derived from the literature for the species of concern.

b. Provide evidence justifying the statement that "benzene concentrations in groundwater samples from MW-1 should decrease significantly within six months time."

20. Figure 3: The locations of borings A1 and A2 need to be shown on this figure. Also, the extent of excavation for the USTs needs to be shown.

LOP - RECORD CHANGE REQUEST FORM

printed:  
06/21/93

Mark Out What Needs Changing and Hand to LOP Data Entry  
(Name/Address changes go to Annual Programs Data Entry)

AGENCY # : 10000      SOURCE OF FUNDS: F      SUBSTANCE: 8006619  
 StID : 386  
 SITE NAME: Thomas Short Co.      DATE REPORTED : 02/09/93  
 ADDRESS : 3430 Wood St.      DATE CONFIRMED: 03/18/93  
 CITY/ZIP : Oakland      94607      MULTIPLE RPs : N

SITE STATUS

CASE TYPE: S      CONTRACT STATUS: 2      EMERGENCY RESP:  
 RP SEARCH: S      DATE COMPLETED: 01/29/93  
 PRELIMINARY ASMNT:      DATE UNDERWAY:      DATE COMPLETED:  
 REM INVESTIGATION:      DATE UNDERWAY:      DATE COMPLETED:  
 REMEDIAL ACTION:      DATE UNDERWAY:      DATE COMPLETED:  
 POST REMED ACT MON:      DATE UNDERWAY:      DATE COMPLETED:

ENFORCEMENT ACTION TYPE: 1      DATE ENFORCEMENT ACTION TAKEN: 01/29/93  
 LUFT FIELD MANUAL CONSID: 2SCA  
 CASE CLOSED:      DATE CASE CLOSED:  
 DATE EXCAVATION STARTED : 01/28/93      REMEDIAL ACTIONS TAKEN:

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Thomas Laflamme  
 COMPANY NAME: The Thomas A. Short Co.  
 ADDRESS: 3430 Wood St.  
 CITY/STATE: Oakland, Ca 94607

INSPECTOR VERIFICATION:

NAME \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

DATA ENTRY INPUT:

|                           |           |            |                       |            |
|---------------------------|-----------|------------|-----------------------|------------|
| Name/Address Changes Only |           |            | Case Progress Changes |            |
| ANNPMS _____              | LOP _____ | DATE _____ | LOP _____             | DATE _____ |

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

May 10, 1993  
STID 386

DEPARTMENT OF ENVIRONMENTAL HEALTH  
State Water Resources Control Board  
Division of Clean Water Programs  
UST Local Oversight Program  
80 Swan Way, Rm 200  
Oakland, CA 94621  
(510) 271-4530

Cal-EPA, Region 2  
Dept. of Toxic Substances Control  
700 Heinz Av., Suite 200  
Berkeley CA 94710-2737  
Attn: Ms. Annina Antonio

RE: Thomas A. Short Co. (TASCO)  
3430 Wood St.  
Oakland CA 94608

Dear Ms. Antonio,

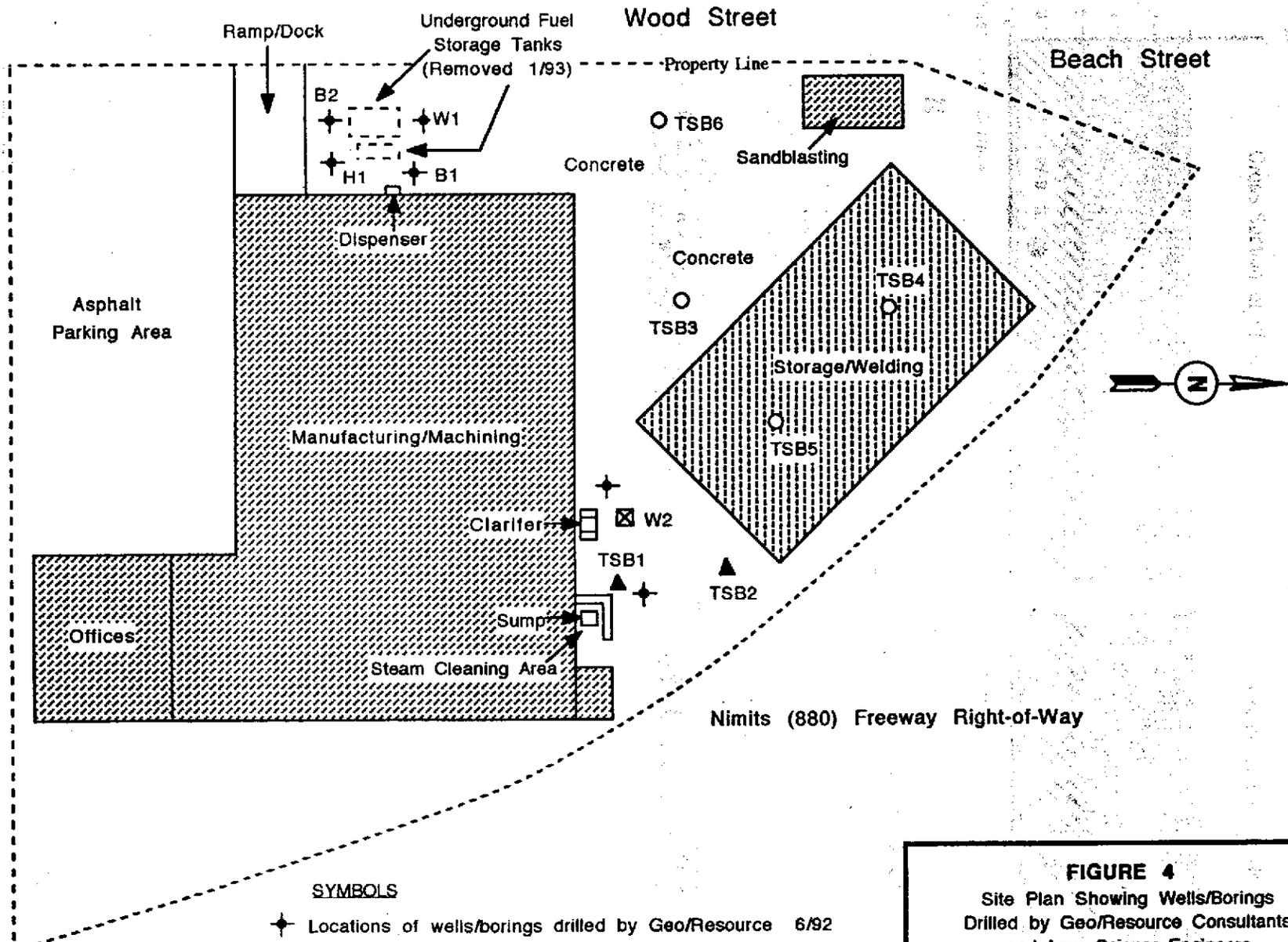
We have reviewed the "Draft Preliminary Endangerment Assessment (PEA) Report" prepared by Aqua Science Engineers, Inc. (ASE), dated 4/1/93 for the UST removals. Our comments are as follows:

1. The County representative did not indicate that no further remedial action is required (pages 11, 24, twice on page 40). However, the County did indicate that no further soil excavation would be required, in view of the non-detectable or low levels of soil contamination left in place after overexcavation. It is possible that future groundwater sampling events may reveal elevated hydrocarbon levels, which may warrant future soil remediation.
2. Although the laboratory results for the June 1992 subsurface investigation conducted by GeoResources for GalTrans were not made available to ASE, the County has a copy of these documents (see page 17). The laboratory who performed the analyses is CKV Inc. in Pleasanton. There are a few discrepancies with the results tabulated in Table 1 through Table 4:
  - a. Table 1: benzene in W-1 should read 10 ug/kg, not ND
  - b. Table 3: gasoline in W-1 should read 1.3 mg/L, not 13
3. "Approximately 175 cubic yards of gasoline and diesel impacted soil was removed." (see page 18) should be clarified to read: "Approximately 175 cubic yards of gasoline and diesel impacted soil was removed from the excavation." This soil has not yet been offhauled.
4. Page 20 states that "the tanks were last used to contain unleaded gasoline and diesel fuel." Up to this point, it was our understanding that one tank contained gasoline. How was it determined that unleaded gasoline was being stored?

Annina Antonio  
STID 386  
page 2 of 3  
May 10, 1993

5. Typographical error on page 21, end of second paragraph: should read Table 4, not Table 5.
6. Typographical error on page 23, third paragraph: should read 60,000 ppb total xylenes, not 36,000 ppb.
7. The last paragraph of page 26 should be clarified, perhaps as such: Subsequent chemical analyses conducted on groundwater samples collected by ASE from well W-1 on 2/17/93 confirm the presence of gasoline. . .
8. It is incorrect to state that "The concentrations of gasoline and BTEX were significantly lower than those detected in groundwater during the previous investigation." (see page 27, paragraph 1). Benzene was the only constituent found in a lower concentration. Gasoline increased from 1,300 ppb in July 1992 to 4,600 ppb in February 1993.
9. Typographical error on p. 27, first paragraph: The current benzene concentration of 16 ppb should read 15 ppb
10. The first paragraph of page 27 should be referenced to Appendix XIV for the laboratory report.
11. Typographical error on page 57, Table 9: the gasoline column should read ug/L, not mg/L.
12. We are in agreement with the first and third recommendations, starting on page 40.
13. How can groundwater flow direction be ascertained with only two onsite wells? A third well is needed.
14. The wells should be monitored on a quarterly basis. Contaminants detected in soil should be included in the groundwater sampling matrix.
15. An unauthorized leak/release form has not been submitted to the County.
16. Remaining soil contamination in the vicinity of the sump and clarifier needs to be delineated and addressed.

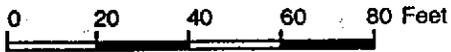




**SYMBOLS**

- ✦ Locations of wells/borings drilled by Geo/Resource 6/92
- ☒ Location of groundwater monitoring well installed by ASE 2/93
- ▲ Location of 13 ft. soil borings drilled by ASE 2/93
- Location of 3-5ft. borings drilled by ASE 2/93

**SCALE**



**FIGURE 4**  
 Site Plan Showing Wells/Borings  
 Drilled by Geo/Resource Consultants  
 and Aqua Science Engineers  
 Site: Thomas A. Short Company  
 3430 Wood Street  
 Oakland, California

Drawn by: M.M.    Date: 3/93    Scale: 1" = 40'

**Aqua Science Engineers, Inc.**

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

May 10, 1993  
STID 386

Cal-EPA, Region 2  
Dept. of Toxic Substances Control  
700 Heinz Av., Suite 200  
Berkeley CA 94710-2737  
Attn: Ms. Annina Antonio

DEPARTMENT OF ENVIRONMENTAL HEALTH  
State Water Resources Control Board  
Division of Clean Water Programs  
UST Local Oversight Program  
80 Swan Way, Rm 200  
Oakland, CA 94621  
(510) 271-4530

RE: Thomas A. Short Co. (TASCO)  
3430 Wood St.  
Oakland CA 94608

Dear Ms. Antonio,

We have reviewed the "Draft Preliminary Endangerment Assessment (PEA) Report" prepared by Aqua Science Engineers, Inc. (ASE), dated 4/1/93 for the UST removals. Our comments are as follows:

1. The County representative did not indicate that no further remedial action is required (pages 11, 24, twice on page 40). However, the County did indicate that no further soil excavation would be required, in view of the non-detectable or low levels of soil contamination left in place after overexcavation. It is possible that future groundwater sampling events may reveal elevated hydrocarbon levels, which may warrant future soil remediation.
2. Although the laboratory results for the June 1992 subsurface investigation conducted by GeoResources for CalTrans were not made available to ASE, the County has a copy of these documents (see page 17). The laboratory who performed the analyses is CKY Inc. in Pleasanton. There are a few discrepancies with the results tabulated in Table 1 through Table 4:
  - a. Table 1: benzene in W-1 should read 10 ug/kg, not ND
  - b. Table 3: gasoline in W-1 should read 1.3 mg/L, not 13
3. "Approximately 175 cubic yards of gasoline and diesel impacted soil was removed." (see page 18) should be clarified to read: "Approximately 175 cubic yards of gasoline and diesel impacted soil was removed from the excavation." This soil has not yet been offhauled.
4. Page 20 states that "the tanks were last used to contain unleaded gasoline and diesel fuel." Up to this point, it was our understanding that one tank contained gasoline. How was it determined that unleaded gasoline was being stored?

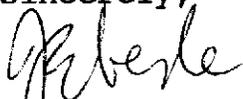
Annina Antonio  
STID 386  
page 2 of 23  
May 10, 1993

5. Typographical error on page 21, end of second paragraph: should read Table 4, not Table 5.
6. Typographical error on page 23, third paragraph: should read 60,000 ppb total xylenes, not 36,000 ppb.
7. The last paragraph of page 26 should be clarified, perhaps as such: Subsequent chemical analyses conducted on groundwater samples collected by ASE from well W-1 on 2/17/93 confirm the presence of gasoline. . .
8. It is incorrect to state that "The concentrations of gasoline and BTEX were significantly lower than those detected in groundwater during the previous investigation." (see page 27, paragraph 1). Benzene was the only constituent found in a lower concentration. Gasoline increased from 1,300 ppb in July 1992 to 4,600 ppb in February 1993.
9. Typographical error on p. 27, first paragraph: The current benzene concentration of 16 ppb should read 15 ppb
10. The first paragraph of page 27 should be referenced to Appendix XIV for the laboratory report.
11. Typographical error on page 57, Table 9: the gasoline column should read ug/L, not mg/L.
12. We are in agreement with the first and third recommendations, starting on page 40.
13. How can groundwater flow direction be ascertained with only two onsite wells? A third well is needed.
14. The wells should be monitored on a quarterly basis. Contaminants detected in soil should be included in the groundwater sampling matrix.
15. An unauthorized leak/release form has not been submitted to the County.
16. Remaining soil contamination in the vicinity of the sump and clarifier needs to be delineated and addressed.

Annina Antonio  
STID 386  
page 2 of 3  
May 10, 1993

If you have any questions, please contact me at 510-271-4530.

Sincerely,



Jennifer Eberle  
Hazardous Materials Specialist

cc: Dave Allen, Aqua Science Engineers, Inc., 2411 Old Crow  
Canyon Rd. #4, San Ramon CA 94583  
Rich Hiatt, RWQCB  
~~Ed Howell/file~~  
Susan Hugo

je

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200  
Oakland, CA 94621  
(415) 271-4320

Hazardous Materials Division Inspection Form

Site ID# \_\_\_\_\_ Site Name Thomas Short Co. (TASCO) Today's Date 1/29/93  
 Site Address 3430 Wood St. EPA ID# \_\_\_\_\_  
 City Oakland Zip 94607 Phone 655-9375

MAX Amt. Stored > 500lbs/55g/200cf?  Y  N  
 Hazardous Waste generated per month? \_\_\_\_\_

Inspection Categories:

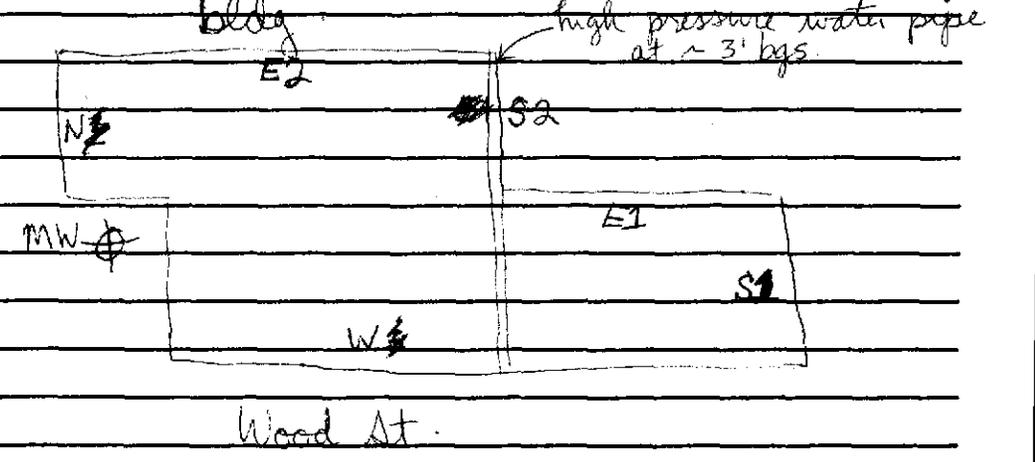
- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks overexcavation + *resampling*

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

| I.A GENERATOR (Title 22)          |                             |         |
|-----------------------------------|-----------------------------|---------|
| ___                               | 1. Waste ID                 | 66471   |
| ___                               | 2. EPA ID                   | 66472   |
| ___                               | 3. > 90 days                | 66508   |
| ___                               | 4. Label dates              | 66508   |
| ___                               | 5. Biennial                 | 66493   |
| <b>Manifest</b>                   |                             |         |
| ___                               | 6. Records                  | 66492   |
| ___                               | 7. Correct                  | 66484   |
| ___                               | 8. Copy sent                | 66492   |
| ___                               | 9. Exception                | 66484   |
| ___                               | 10. Copies Rec'd            | 66492   |
| <b>Misc.</b>                      |                             |         |
| ___                               | 11. Treatment               | 66371   |
| ___                               | 12. On-site Disp. (H.S.&C.) | 26189.5 |
| ___                               | 13. Ex Haz. Waste           | 66570   |
| <b>Prevention</b>                 |                             |         |
| ___                               | 14. Communications          | 67121   |
| ___                               | 15. Aisle Space             | 67124   |
| ___                               | 16. Local Authority         | 67126   |
| ___                               | 17. Maintenance             | 67120   |
| ___                               | 18. Training                | 67105   |
| <b>Contingency</b>                |                             |         |
| ___                               | 19. Prepared                | 67140   |
| ___                               | 20. Name List               | 67141   |
| ___                               | 21. Copies                  | 67141   |
| ___                               | 22. Emg. Coord. Trng.       | 67144   |
| <b>Containers, Tanks</b>          |                             |         |
| ___                               | 23. Condition               | 67241   |
| ___                               | 24. Compatibility           | 67242   |
| ___                               | 25. Maintenance             | 67243   |
| ___                               | 26. Inspection              | 67244   |
| ___                               | 27. Buffer Zone             | 67246   |
| ___                               | 28. Tank Inspection         | 67259   |
| ___                               | 29. Containment             | 67245   |
| ___                               | 30. Safe Storage            | 67261   |
| ___                               | 31. Freeboard               | 67257   |
| <b>I.B TRANSPORTER (Title 22)</b> |                             |         |
| ___                               | 32. Applic./Insurance       | 66428   |
| ___                               | 33. Comp. Cert./CHP insp.   | 66448   |
| ___                               | 34. Containers              | 66465   |
| <b>Manifest</b>                   |                             |         |
| ___                               | 35. Vehicles                | 66465   |
| ___                               | 36. EPA ID #s               | 66531   |
| ___                               | 37. Correct                 | 66541   |
| ___                               | 38. HW Delivery             | 66543   |
| ___                               | 39. Records                 | 66544   |
| <b>Cont'n's</b>                   |                             |         |
| ___                               | 40. Name/ Covers            | 66545   |
| ___                               | 41. Recyclables             | 66800   |

Comments:

Steve De Hope + Mike Marella (RP) from ASE onsite for overexcavation + resampling



Soil samples taken in the grey-green layer of soft clay sandy silt (5'1/2' - 7'1/2'). Clay at 7'1/2' bgs.

Stockpile not intended to be backfilled, so it'll be sampled <sup>composite</sup> 1 per 50 yd<sup>3</sup>. RP is Tom LaFlamme; <sup>use</sup> site address.

Contact: STEVE DeHope  
 Title: Construction Supervisor  
 Signature: [Signature]  
 Inspector: Jennifer Ebert  
 Signature: [Signature]

See Instructions on Back of Page 6 and Front of Page 7

Department of Health Services  
Toxic Substances Control Division  
Sacramento, California

State of California - Health and Welfare Agency  
Form Approved OMB No. 2060-0039 (Expires 9-30-91)  
Please print or type. Form designed for use on elite (12-pitch typewriter).

91041841  
IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER, 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-952-7550

|  |  |   |  |   |   |
|--|--|---|--|---|---|
| <b>UNIFORM HAZARDOUS WASTE MANIFEST</b>  |  | 1. Generator's US EPA ID No.<br><b>CACD0008600084718191</b> | Manifest Document No.<br><b>101</b>  | 2. Page 1<br><b>1 of 1</b>                    | Information in the shaded areas is not required by Federal law. |
| 3. Generator's Name and Mailing Address<br><b>THOMAS A. SHORT<br/>3430 WOOD STREET<br/>OAKLAND CALIF</b>   |  |   | A. State Manifest Document Number<br><b>91041841</b>                         |   | B. State Generator's ID   |
| 4. Generator's Phone<br><b>510 655 9375</b>  |  | 5. Transporter 1 Company Name<br><b>WASTE OIL RECOVERY</b>  | 6. US EPA ID Number<br><b>CAD009626515</b>                                   | C. State Transporter's ID<br><b>309033</b>    | D. Transporter's Phone<br><b>510 533 0750</b>                   |
| 7. Transporter 2 Company Name<br><b>ODYSSEY</b>  |  | 8. US EPA ID Number<br><b>CAD0873489019</b>                 | E. State Transporter's ID<br><b>322261</b>                                   | F. Transporter's Phone<br><b>510 786 3888</b> |   |
| 9. Designated Facility Name and Address<br><b>DEMENA O KERBOON<br/>2000 N ALAMEDA<br/>COMPTON CALIF</b>  |  |   | 10. US EPA ID Number<br><b>CAT080013352</b>                                  | G. State Facility's ID                        | H. Facility's Phone<br><b>310 537 7100</b>                      |
| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)   |  | 12. Containers<br>No. Type                                  | 13. Total Quantity   | 14. Unit<br>Wt/Vol                            | L. Waste No.  |
| a. <b>PETROLEUM OILS N.O.S. (WASTE OILS)</b>   |  |   |  |   | <b>221</b>  |
| b. <b>COMBUSTIBLE LIQUID N.A.: 1270</b>  |  | <b>0101</b>   | <b>TT00275</b>   | <b>G</b>                                      | <b>117</b>  |
| c.   |  |   |  |   |   |
| d.   |  |   |  |   |   |
| 15. Additional Descriptions for Materials Listed Above<br><b>110 WATER AND WASTE MOTOR FUELS</b>   |  |   | K. Handling Codes for Wastes Listed Above<br>a. <b>01R</b><br>b.<br>c.<br>d. |   |   |
| 16. Special Handling Instructions and Additional Information<br><b>ERG #27<br/>WORS 24HR 5105330750<br/>PROTECTIVE GEAR MUST BE WORN</b>   |  |   |  |   |   |
| 18. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.<br>If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. |  |   |  |   |   |
| Printed/Typed Name<br><b>Steve D. ...</b>  |  | Signature<br><i>[Signature]</i>                             |  | Month Day Year<br><b>01/28/91</b>             |   |
| 17. Transporter 1 Acknowledgement of Receipt of Materials  |  |   |  |   |   |
| Printed/Typed Name<br><b>A. ...</b>  |  | Signature<br><i>[Signature]</i>                             |  | Month Day Year<br><b>01/28/91</b>             |   |
| 18. Transporter 2 Acknowledgement of Receipt of Materials  |  |   |  |   |   |
| Printed/Typed Name<br><b>F. ...</b>  |  | Signature<br><i>[Signature]</i>                             |  | Month Day Year<br><b>01/29/91</b>             |   |
| 19. Discrepancy Indication Space   |  |   |  |   |   |
| 20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.  |  |   |  |   |   |
| Printed/Typed Name   |  | Signature   |  | Month Day Year                                |   |

Do Not Write Below This Line

ALAMEDA COUNTY, DEPARTMENT OF  
ENVIRONMENTAL HEALTH  
Hazardous Materials Inspection Form

II, III

white -env.health  
yellow -facility  
pink -files

Site ID # \_\_\_\_\_ Site Name THOMAS A. SHORT, CO Today's Date 1/28/93

Site Address 3430 WOOD ST  
City OAKLAND Zip 94607 Phone \_\_\_\_\_

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks REMOVAL

\* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:

1,000 GAL - DIESEL FORMERLY GASOLINE  
TAR WRAP - NO OBVIOUS HOLES  
H.W. HAULER # 308783  
H.W. MANIFEST # 91683756  
GREY STAIN UNDER TANK  
GASOLINE ODOR  
# 10536 - ERICKSON  
4,000 GAL - UNL. GASOLINE  
FIBERGLASS  
H.W. HAULER # 308784  
H.W. MANIFEST # 91688766  
NO HOLES.  
WATER UNDER TANK  
SAMPLES FROM BENEATH EACH END  
OF <sup>1,000</sup>TANK SOIL UNDER 1,000 GAL - CLAY  
GREY. SAMPLE TUBES SEALED WITH  
ELECTRICAL TAPE FILL ENDS ON SOUTH SIDE  
SAMPLES FROM 4,000 GAL TANK - ENDS INTO  
SIDEWALLS GREY MONITORING WELL  
NORTH OF ~~REAR~~ TANKS 10 FT.

II, III

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Stds. 25503(b)
- 3. RR Cars > 30 days 25503.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

II.B ACUTELY HAZ. MATLS

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Req'd? (Y/N)
- 14. OffSite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(g)
- 17. Certification 25534(i)
- 18. Exemption Request? (Y/N) 25536(b)
- 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- |                               |   |
|-------------------------------|---|
| General                       | <input type="checkbox"/> 1. Permit Application 25284 (H&S)                              |
|                               | <input type="checkbox"/> 2. Pipeline Leak Detection 25292 (H&S)                         |
|                               | <input type="checkbox"/> 3. Records Maintenance 2712                                    |
|                               | <input type="checkbox"/> 4. Release Report 2651   |
|                               | <input type="checkbox"/> 5. Closure Plans 2670  |
| Monitoring for Existing Tanks | <input type="checkbox"/> 6. Method  |
|                               | 1) Monthly Test   |
|                               | 2) Daily Vadose<br>Semi-annual groundwater<br>One time soils                            |
|                               | 3) Daily Vadose<br>One time soils<br>Annual tank test                                   |
|                               | 4) Monthly Groundwater<br>One time soils  |
|                               | 5) Daily Inventory<br>Annual tank testing<br>Cont pipe leak det<br>Vadose/gndwater mon. |
|                               | 6) Daily Inventory<br>Annual tank testing<br>Cont pipe leak det                         |
|                               | 7) Weekly Tank Gauge<br>Annual tank testing   |
|                               | 8) Annual Tank Testing<br>Daily Inventory   |
|                               | 9) Other _____  |
| New Tanks                     | <input type="checkbox"/> 7. Precip Tank Test 2643<br>Date: _____                        |
|                               | <input type="checkbox"/> 8. Inventory Rec. 2644   |
|                               | <input type="checkbox"/> 9. Soil Testing 2646   |
|                               | <input type="checkbox"/> 10. Ground Water. 2647   |
|                               | <input type="checkbox"/> 11. Monitor Plan 2632  |
|                               | <input type="checkbox"/> 12. Access, Secure 2634  |
|                               | <input type="checkbox"/> 13. Plans Submit 2711<br>Date: _____                           |
|                               | <input type="checkbox"/> 14. As Built 2635<br>Date: _____                               |

Rev 6/88

Contact: DAVID ALLEN  
Title: Project Manager  
Signature: David Allen

Inspector: \_\_\_\_\_  
Signature: Don Young

CLOSURE REPORT REQUIRED - 60 DAYS.

white -env.health  
 yellow -facility  
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200  
 Oakland, CA 94621  
 (415) 271-4320

Hazardous Materials Inspection Form

II, III

Site ID # \_\_\_\_\_ Site Name THOMAS A. SHORT CO Today's Date 1/28/93

II.A BUSINESS PLANS (Title 19)

- \_\_\_ 1. Immediate Reporting 2703
- \_\_\_ 2. Bus. Plan Stds. 25503(b)
- \_\_\_ 3. RR Cars > 30 days 25503.7
- \_\_\_ 4. Inventory Information 25504(a)
- \_\_\_ 5. Inventory Complete 2730
- \_\_\_ 6. Emergency Response 25504(b)
- \_\_\_ 7. Training 25504(c)
- \_\_\_ 8. Deficiency 25505(a)
- \_\_\_ 9. Modification 25505(b)

Site Address 3430 WOOD ST

City OAKLAND Zip 94607 Phone \_\_\_\_\_

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- \_\_\_ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- \_\_\_ II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks REMOVAL

\* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

II.B ACUTELY HAZ. MATLS

- \_\_\_ 10. Registration Form Filed 25533(a)
- \_\_\_ 11. Form Complete 25533(b)
- \_\_\_ 12. RMPP Contents 25534(c)
- \_\_\_ 13. Implement Sch. Req'd? (Y/N)
- \_\_\_ 14. OffSite Conseq. Assess. 25524(c)
- \_\_\_ 15. Probable Risk Assessment 25534(d)
- \_\_\_ 16. Persons Responsible 25534(g)
- \_\_\_ 17. Certification 25534(i)
- \_\_\_ 18. Exemption Request? (Y/N) 25536(b)
- \_\_\_ 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- |                               |   |
|-------------------------------|---|
| General                       | ___ 1. Permit Application 25284 (H&S)   |
|                               | ___ 2. Pipeline Leak Detection 25292 (H&S)  |
|                               | ___ 3. Records Maintenance 2712   |
|                               | ___ 4. Release Report 2651  |
|                               | ___ 5. Closure Plans 2670   |
| Monitoring for Existing Tanks | ___ 6. Method   |
|                               | 1) Monthly Test   |
|                               | 2) Daily Vadose<br>Semi-annual groundwater<br>One time soils                            |
|                               | 3) Daily Vadose<br>One time soils<br>Annual tank test                                   |
|                               | 4) Monthly Groundwater<br>One time soils  |
|                               | 5) Daily Inventory<br>Annual tank testing<br>Cont pipe leak det<br>Vadose/gndwater mon. |
|                               | 6) Daily Inventory<br>Annual tank testing<br>Cont pipe leak det                         |
|                               | 7) Weekly Tank Gauge<br>Annual tank testing   |
|                               | 8) Annual Tank Testing<br>Daily Inventory   |
|                               | 9) Other _____  |
| New Tanks                     | ___ 7. Precs Tank Test 2643   |
|                               | Date: _____   |
|                               | ___ 8. Inventory Rec. 2644  |
|                               | ___ 9. Soil Testing. 2646   |
|                               | ___ 10. Ground Water. 2647  |
| ___ 11. Monitor Plan 2632     |   |
| ___ 12. Access. Secure 2634   |   |
| ___ 13. Plans Submit 2711     |   |
| Date: _____                   |   |
| ___ 14. As Built 2635         |   |
| Date: _____                   |   |

Comments:

1,000 GAL - DIESEL FORMERLY GASOLINE

TAR WRAP - No OBVIOUS HOLES

H.W. HAULER # 308783

H.W. MANIFEST # 91688756

GREY STAIN UNDER TANK

GASOLINE ODOOR

# 10536 - ERICKSON

4,000 GAL - UNL. GASOLINE

FIBERGLASS

H.W. HAULER # 308784

H.W. MANIFEST # 91688766

NO HOLES.

WATER UNDER TANK

SAMPLES FROM BENEATH EACH END

OF 1,000 TANK SOIL UNDER 1,000 GAL - CLAY

GREY. SAMPLE TUBES SEALED WITH

ELECTRICAL TAPE FILL ENDS ON SOUTH

SAMPLES FROM 4,000 GAL TANK ENDING

SIDEWALLS, GREY MONITORING WELLS

NORTH of TANKS

II, III

Contact: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

Inspector: \_\_\_\_\_

Signature: \_\_\_\_\_

DEPARTMENT OF ENVIRONMENTAL HEALTH  
 HAZARDOUS MATERIALS DIVISION  
 80 SWAN WAY, ROOM 200  
 OAKLAND, CA 94621  
 PHONE NO. 510/271-4320

1/19/93

ACCEPTED

Underground Storage Tank Closure Permit Application  
 Alameda County Division of Hazardous Materials  
 80 Swan Way, Suite 200,  
 Oakland, CA 94621  
 Telephone: (510) 271-4320

These closure/removal permits have been received and found to be acceptable and are subject to the requirements of State and Local Health Law. It is up to your closure plans indicated by this Department to coordinate with State and local laws. The permit is valid for one year from the date of issuance of any required permit for excavation/destruction.

One copy of this permit must be submitted to the State and available to all concerned parties at all times during the removal.

Any changes or modifications to the permit must be submitted to the Department for review and approval. Department will issue a permit if such changes meet the requirements of State and local law.

Notify this Department at least 72 hours prior to the following required inspections:

- \_\_\_\_\_ Removal of Tank(s) and Piping
- \_\_\_\_\_ Sampling
- \_\_\_\_\_ Final Inspection

Issuance of a) permit to operate, b) permanent site closure, is dependant on compliance with accepted plans and all applicable laws and regulations.

\*THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS

Contact Specialist:

1) SAMPLE REQUIRED UNDER DISPENSER.  
 2) STOCKPILE IF CONTAMINATED WILL BE HAULED OFFSITE.  
 J. J. Murray

UNDERGROUND TANK CLOSURE PLAN

\*\*\* Complete according to attached instructions \*\*\*

1. Business Name Thomas A Short Company (TASCO)  
 Business Owner Thomas Le Flemme
  2. Site Address 3430 Wood Street  
 City Oakland Zip 94607 Phone (510) 655-9375
  3. Mailing Address 3430 Wood Street  
 City Oakland Zip 94607 Phone (510) 655-9375
  4. Land Owner Thomas Le Flemme  
 Address 3430 Wood Street City, State Oakland, CA Zip 94607
  5. Generator name under which tank will be manifested Thomas Le Flemme  
Thomas A Short Company
- EPA I.D. No. under which tank will be manifested CAC000860008

6. Contractor Aqua Science Engineers, Inc.  
Address 2411 Old Crow Canyon Road #4  
City San Ramon, CA 94583 Phone (510) 820-9391  
License Type\* "A" Hazardous ID# 487000

\*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires prime contractors to also hold Hazardous Waste Certification issued by the State Contractors License Board. Indicate that the certificate has been received, in addition, to holding the appropriate contractors license type.

7. Consultant Aqua Science Engineers, Inc.  
Address 2411 Old Crow Canyon Road #4  
City San Ramon, CA 94583 Phone (510) 820-9391

8. Contact Person for Investigation

Name Steve De Hope Title Construction Supervisor  
Phone (510) 820-9391

9. Number of tanks being closed under this plan 2  
Length of piping being removed under this plan 20'  
Total number of tanks at facility 2

10. State Registered Hazardous Waste Transporters/Facilities (see instructions).

\*\* Underground tanks are hazardous waste and must be handled \*\*  
as hazardous waste

a) Product/Residual Sludge/Rinsate Transporter

Name Waste Oil Recovery Systems EPA I.D. No. CAD000626515  
DOHS 843  
Hauler License No. CAL PWD-106390 License Exp. Date 7/93  
Address 6401 Leona Street  
City Oakland State CA Zip 94605

b) Product/Residual Sludge/Rinsate Disposal Site

Name Demence Kerdown EPA I.D. No. CAT 080013352  
Address 2000 North Alameda Avenue  
City Compton State CA Zip 90221

c) Tank and Piping Transporter

Name Erickson, Inc. EPA I.D. No. CAD009466392  
Hauler License No. 0019 License Exp. Date 5/93  
Address 255 Parr Blvd.  
City Richmond State CA Zip 94801

d) Tank and Piping Disposal Site

Name Erickson, Inc. EPA I.D. No. CAD009466392  
Address 255 Parr Blvd.  
City Richmond State CA Zip 94801

11. Experienced Sample Collector

Name David Allen / Steve DeHoge  
Company Aqua Science Engineers  
Address 2011 Old Crow Canyon Road, #1  
City San Ramon State CA Zip 94583 Phone (510) 820-9301

12. Laboratory

Name Priority Environmental Labs  
Address 1764 Hovet Court  
City Milpitas State CA Zip 95305  
State Certification No. 1708

13. Have tanks or pipes leaked in the past? Yes [ ] No [X]

If yes, describe. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

14. Describe methods to be used for rendering tank inert

By introducing 'DRY ICE' into each tank at a rate of at least 1.5 lbs. / 100 gallons of tank's volume

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be plugged.

The Bay Area Air Quality Management District (771-6000), along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of explosion proof combustible gas meters to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas meter on site to verify tank inertness.

15. Tank History and Sampling Information

| Tank          |                                | Material to be sampled (tank contents, soil, groundwater, etc.) | Location and Depth of Samples                                 |
|---------------|--------------------------------|---|---|
| Capacity      | Use History (see instructions) |   |   |
| (1) 1,000 gal | DIESEL                         | SOIL AND/OR GROUNDWATER (IF PRESENT)                            | ONE (1) SAMPLE WILL BE COLLECTED FROM EACH END OF TANK BOTTOM |
| (1) 4,000 gal | GASOLINE                       | " " "   | " " "   |

One soil sample must be collected for every 20 feet of piping that is removed. A ground water sample must be collected should any ground water be present in the excavation.

**Excavated/Stockpiled Soil**

|  |  |
|--|--|
| <p><b>Stockpiled Soil Volume (Estimated)</b></p> <p align="center">75 cu. yds.</p> | <p align="center"><b>Sampling Plan</b></p> <p>For each 50 yds<sup>3</sup>, one "composited" sample will be collected in a sterile, pre-cleaned, brass sample tube. The sample will be sealed, labeled and stored on ice pending delivery to the lab.</p> |
|--|--|

**Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.**

16. Chemical methods and associated detection limits to be used for analyzing samples

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed. See attached Table 2.

| Contaminant Sought | EPA, DHS, or Other Sample Preparation Method Number | EPA, DHS, or Other Analysis Method Number | Method Detection Limit |
|--------------------|---|---|------------------------|
| TPH - D            | 3550/8015   |   | 10 ppm                 |
| TPH - G            | 5030/8015   |   | 1.0 ppm                |
| BTEX               | 8020  |   | 0.005 ppm              |
| LEAD               | LVPI METAL METHOD                                   |   | 50 ppb                 |

17. Submit Site Health and Safety Plan (See Instructions)

18. Submit Worker's Compensation Certificate copy

Name of Insurer OHIO CASUALTY GROUP

19. Submit Plot Plan (See Instructions)

20. Enclose Deposit (See Instructions)

21. Report any leaks or contamination to this office within 5 days of discovery. The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)

22. Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true.

I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

Signature of Contractor

Name (please type) David Allen

Signature *David Allen*

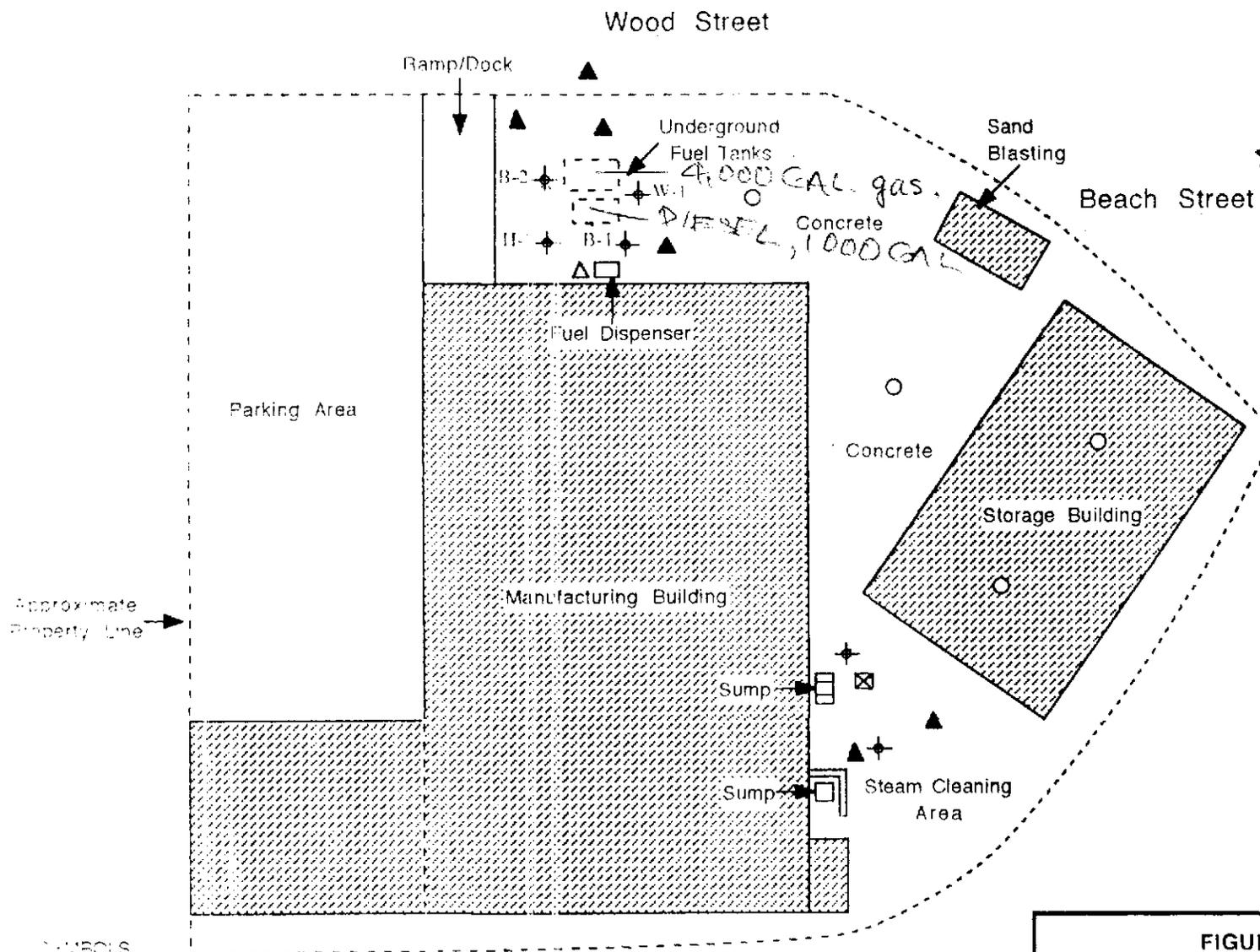
Date 1/19/93

Signature of Site Owner or Operator

Name (please type) Thomas D. LaFlamme

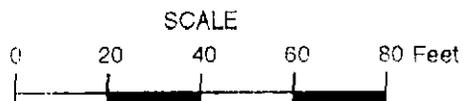
Signature *Thomas D. LaFlamme*

Date 1/19/93



**SYMBOLS**

- ⊕ Existing well/boring
- ⊗ Proposed 10 ft. monitoring well
- ▲ Proposed 13 ft. boring
- △ Proposed 8 ft. boring
- Proposed 5 ft. boring



**FIGURE 1**  
 Site Plan Showing Existing Wells/Borings  
 and Proposed Additional Wells/Borings  
 Site: Thomas A. Short Company  
 3430 Wood Street  
 Oakland, California  
**Aqua Science Engineers, Inc.**

# ACORD CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)

10/30/92

**PRODUCER**

Cal-Bay Insurance Services  
103 Town & Country Dr., Suite M  
Danville, CA 94526  
(510) 820-0901

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

**COMPANIES AFFORDING COVERAGE**

- COMPANY LETTER **A** Commercial Indemnity Assurance
- COMPANY LETTER **B** West American Insurance
- COMPANY LETTER **C**
- COMPANY LETTER **D**
- COMPANY LETTER **E**

**INSURED**

Aqua Science Engineers, Inc.  
2411 Old Crow Canyon Rd. #4  
San Ramon, CA 94583

**COVERAGES**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

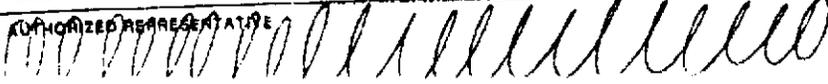
| CO LTR | TYPE OF INSURANCE   | POLICY NUMBER   | POLICY EFFECTIVE DATE (MM/DD/YY) | POLICY EXPIRATION DATE (MM/DD/YY) | LIMITS   |
|--------|---|-----------------|----------------------------------|-----------------------------------|--|
| A      | <input checked="" type="checkbox"/> GENERAL LIABILITY<br><input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY<br>CLAIMS MADE <input checked="" type="checkbox"/> OCCUR<br>OWNERS & CONTRACTOR'S PROT.                               | CGI 6926681CI   | 06/01/92                         | 06/01/93                          | GENERAL AGGREGATE \$ 1,000,000<br>PRODUCTS-COMP/OP AGG. \$ 1,000,000<br>PERSONAL & ADV INJURY \$ 1,000,000<br>EACH OCCURRENCE \$ 1,000,000<br>FIRE DAMAGE (Any one fire) \$ 50,000<br>MED. EXPENSE (Any one person) \$ 5,000<br>COMBINED SINGLE LIMIT \$<br>BODILY INJURY (Per person) \$<br>BODILY INJURY (Per accident) \$<br>PROPERTY DAMAGE \$<br>EACH OCCURRENCE \$<br>AGGREGATE \$ |
| B      | AUTOMOBILE LIABILITY<br>ANY AUTO<br>ALL OWNED AUTOS<br>SCHEDULED AUTOS<br>HIRED AUTOS<br>NON OWNED AUTOS<br>GARAGE LIABILITY<br>EXCESS LIABILITY<br>UMBRELLA FORM<br>OTHER THAN UMBRELLA FORM<br>WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY | XWW 50 43 90 08 | 08/01/92                         | 08/01/93                          | STATUTORY LIMITS<br>EACH ACCIDENT \$ 1,000,000<br>DISEASE-POLICY LIMIT \$ 1,000,000<br>DISEASE-EACH EMPLOYEE \$ 1,000,000  |

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

CERTIFICATE HOLDER

**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE 

CONTRACTORS STATE LICENSE BOARD

No. 487000

*Building Quality*

ISSUED 02-15-36

This license is the property of the Registrar of Contractors. It is not transferable, and shall be returned to the Registrar upon demand when suspended, revoked, or invalidated for any reason. It becomes void if not renewed.

# Contractor's License

Pursuant to the provisions of Chapter 9 of Division 3 of the Business and Professions Code and the Rules and Regulations of the Contractors State License Board the Registrar of Contractors does hereby issue this license to:

AQUA SCIENCE ENGINEERS INC

to engage in the business or act in the capacity of a contractor in the following classification(s):

A GENERAL ENGINEERING CONTRACTOR



WITNESS my hand and sealed this 15TH day of FEBRUARY 1936.



State of California  
Department of Consumer Affairs  
CONTRACTORS STATE LICENSE BOARD



License Number

487000

C O R P

Classification

AQUA SCIENCE ENGINEERS INC

Expiration Date

A 067 HAZ

02/29/92

Registrar of Contractors

*See renewal card*

Signature of Licensee

Signature of person who qualified on behalf of the licensee

STATE AND CONSUMER SERVICES AGENCY  
DEPARTMENT OF CONSUMER AFFAIRS



CONTRACTORS STATE LICENSE BOARD



License Number

487000

Entity

CORP

Name/Name-style

AQUA SCIENCE ENGINEERS  
INC

Classification(s)

A C57 HAZ

Expiration Date

02/28/94



COMPLIANCE CERTIFICATION  
29 CFR 1910.120  
Hazardous Waste Operations and Emergency  
Response Training

STEVE DeHOFF

Name

553-41-4943

Employer's Telephone

2/7/93

Valid Through

1188R

License Number

Geo-TECHNICS, Inc

753 N. 9th Street  
Suite 131  
San Jose, CA  
95128-2174  
408-257-8169

# DIPLOMA

## OF SAFETY TRAINING

**STEVE LABARE**

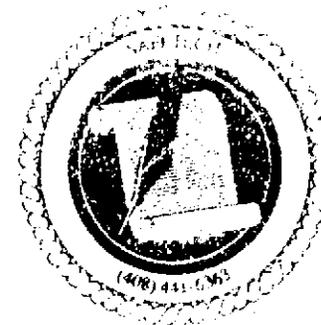
has successfully completed the  
**SAFETECH**

**Hazardous Waste Operations and Emergency Response**  
29 CFR 1910.120 and GISO 5192  
40 Hour Certification Training Course

*Jay Janaki*  
\_\_\_\_\_  
TRAINING DIRECTOR

4540

\_\_\_\_\_  
CERTIFICATE NUMBER



EXPIRES: 6-26-93



## HEALTH & SAFETY PLAN

for:

**Thomas A. Short Company (TASCO)  
3430 Wood Street  
Oakland, California 94607**

prepared by:

**Aqua Science Engineers, Inc.  
2411 Old Crow Canyon Road, #4  
San Ramon, California 94583  
(510) 820-9391**

TASCO H&S - January, 1993

-1-

**AQUA SCIENCE ENGINEERS, INC.**  
**HEALTH & SAFETY PLAN**  
for the  
**TASCO JOBSITE**

**A. GENERAL DESCRIPTION**

Site: 3430 WOOD STREET, OAKLAND, CA

Work Scope:

AQUA SCIENCE ENGINEERS WILL REMOVE AND DISPOSE OF (1) 1,000 GALLON, UNDERGROUND DIESEL TANK, AND (1) 4,000 GALLON, UNDERGROUND GASOLINE TANK FROM THE ABOVE REFERENCED SITE.

**SAFETY POLICY:**

This Health and Safety Plan is written specifically for the TASCO jobsite, located at 3430 Wood Street in Oakland, California. All persons on site will follow OSHA safe operating practices as outlined in 29 CFR 1910 and 1926, as well as established guidelines from their respective companies or organizations.

Plan Prepared by: David Allen                      Date: 1/18/93

Plan Approved by: David Schultz                      Date: 1/18/93

Proposed Start Date: January 27, 1993

Background Review Done? Complete: 1/12/93  
Preliminary:

Overall Hazard Level: Serious:                      Low: XXX  
   Moderate:                      Unknown:

**Project Organization:**

Site Manager for A.S.E.: David Allen  
A.S.E. Safety Officer: Steve DeHope  
Other A.S.E Personnel: Steve Labia

## B. SITE/WASTE CHARACTERISTICS

Waste Type(s): Solid: XXX Sludge: Liquid: XXX Gas:

Characteristics: HYDROCARBON RESIDUALS, TOXIC

Site Parameter:

A MINIMUM BOUNDARY OF THREE FEET SURROUNDING THE TANK EXCAVATION IS TO BE MAINTAINED IN AS MUCH AS IS POSSIBLE.

## C. HAZARD EVALUATION

### CHEMICAL HAZARDS

Potential chemical hazards include skin and eye contact or inhalation exposure to potentially toxic concentrations of hydrocarbon vapors. The potential toxic compounds that may exist at the site are listed below, with descriptions of specific health effects of each. The list includes the primary potential toxic constituents of gasoline and waste oil known to be on site. Exposure levels and symptoms are taken from the NIOSH Pocket Guide to Chemical Hazards.

#### 1. BENZENE

- a. Colorless, clear, highly flammable liquid with characteristic odor.
- b. High exposure levels may cause acute restlessness, convulsions, depression, respiratory failure. BENZENE IS A SUSPECTED CARCINOGEN.
- c. Permissible exposure level (PEL) for a time weighted average (TWA) over an eight hour period is 1.0 ppm.

#### 2. TOLUENE

- a. Colorless liquid with a benzene-like odor.
- b. High exposure levels may cause fatigue, euphoria, confusion, dizziness. TOLUENE IS LESS TOXIC THEN BENZENE.
- c. PEL for a ten hour TWA is 100 ppm.

#### 3. XYLENE

- a. Colorless, flammable liquid with aromatic odors.
- b. high exposure levels may case dizziness, drowsiness, narcosis.
- c. PEL for a ten hour TWA is 100 ppm.

#### 4. ETHYLBENZENE

- a. Clear, colorless, highly flammable liquid with characteristic odor.
- b. High exposure levels may cause irritation to skin, nose and throat, dizziness, constriction in chest, loss of consciousness, respiratory failure.
- c. PEL for an eight hour TWA is 100 ppm.

#### 5. LEAD

##### (Lead Arsenate)

- a. Odorless, colorless solid with properties that vary depending upon specific compounds.
- b. High exposure levels may cause nausea, diarrhea, inflamed mucous membranes, abdominal pains, weakness. **LEAD IS A SUSPECTED CARCINOGEN.**
- c. PEL for an eight hour TWA is .05 milligrams per cubic meter (airborne).

**ALL SUBSTANCES AS THEY EXIST ON SITE ARE EXPECTED TO BE STABLE.  
PHYSICAL HAZARDS**

Under no circumstances will anyone climb on any soil piles. Personnel shall maintain the maximum distance possible from the excavation while performing their activities. Other on-site hazards include physical injuries due to the proximity of workers to engine-driven heavy equipment and tools. Heavy equipment used during excavation may include backhoes, excavators, compressors, jackhammers, and whackers. Only trained personnel will operate machines, tools and equipment; all will be kept clean and in good repair. Minimum safety apparel required around heavy equipment will include a hardhat, steel-toed boots and hearing conservation devices. **ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH OSHA GUIDELINES.**

Inspections of the excavation, the adjacent areas, and protective systems are to be made by a qualified person while personnel are on site. Attention will be made to note if any evidence of potential cave-in exists.

1. **USE SAFETY EQUIPMENT, MASK RESPIRATORS WITH NIOSH APPROVED C-21 CARTRIDGES FOR ORGANIC VAPORS, AS NECESSARY.**
2. **HAVE AT LEAST ONE DRY CHEMICAL MODEL PA-200 A-B-C FIRE EXTINGUISHER PRESENT.**

## **LEVEL OF PROTECTION**

A Contamination Reduction Zone (CRZ) will be maintained and adjusted as work proceeds and moves around the site. The workers on site will wear level 'D' protective clothing. (This protection level may be upgraded after on-site conclusions of data are completed). **THE LEVEL OF PROTECTION FOR PERSONNEL WORKING IN THE AREA WILL BE UPGRADED IF;** the organic vapor levels in the operator's breathing zone exceeds 5 ppm above background levels continuously for more than five minutes. **This will be monitored by use of a hand-held Organic Vapor Meter (Gastech 1314 Oxygen/ppm Concentration Meter (PID) calibrated with Hexane).** In this event, personnel protective equipment will include full face respirators with double-cartridge filters for organic vapors and particulates, in addition to hardhat, steel-toed boots and coveralls. If work proceeds in an environment where vapor concentrations exceed 200 ppm, a self contained breathing apparatus or airline respirator will be utilized by the personnel.

Levels of Protective Clothing are defined on the following pages as described in the "EPA Standard Operating Safety Guidelines":

### **LEVEL A PROTECTION**

Components:

- 1.) Pressure-demand, supplied air respirator that is MSHA and NIOSH approved. Respirators may be pressure demand, self contained breathing apparatus (SCBA), or pressure demand, airline respirator with an escape bottle for atmospheres with an extreme IDLH.
- 2.) Fully encapsulating chemical resistant suit.
- 3.) Inner, chemical resistant gloves.
- 4.) Disposable gloves and boot covers, worn over the fully encapsulating suit.
- 5.) 2-way radio communications is highly recommended.

## LEVEL B PROTECTION

### Components:

- 1.) Pressure-demand, supplied air respirator that is MSHA and NIOSH approved. Respirators may be pressure demand, self contained breathing apparatus (SCBA), or pressure demand, airline respirator with an escape bottle for atmospheres with an extreme IDLH.
- 2.) Chemical resistant clothing which includes overalls and long sleeved jacket or, hooded one or two piece chemical splash suit or disposable chemical resistant one piece suit.
- 3.) Outer chemical resistant gloves.
- 4.) Inner chemical resistant gloves.
- 5.) Chemical resistant, steel toed and shank boots.
- 6.) Disposable chemical resistant boot covers.
- 7.) Hardhat.
- 8.) 2-way radio communications is highly recommended.

## LEVEL C PROTECTION

### Components:

- 1.) Air purifying respirator, full face, with twin cartridge or cannister equipped filters, that are MSHA and NIOSH approved.
- 2.) Chemical resistant clothing which includes coveralls or, hooded one-piece or two-piece chemical splash suit or chemical resistant hood and apron; disposable chemical resistant coveralls.
- 3.) Outer chemical resistant gloves.
- 4.) Inner chemical resistant gloves.
- 5.) Chemical resistant, steel toed and shank boots.
- 6.) Disposable chemical resistant boot covers.
- 7.) Hardhat.

## LEVEL D PROTECTION

### Components:

- 1.) Coveralls.
- 2.) Gloves.
- 3.) Leather boots, shoes or chemical resistant, with steel toe and shank.
- 4.) Safety glasses or chemical splash goggles.
- 5.) Hardhat or face shield.

## SITE ENTRY PROCEDURES

Any personnel entering the site will observe all conditions set forth by the owners/operators of the property, including vehicle travel speeds, restricted areas and conduct. Eating, drinking, smoking and other practices which increase the probability of hand-to-mouth transfer of contamination is prohibited in the work zone. All field personnel will be instructed to thoroughly wash their hands and face upon leaving the work area for breaks or cessation of day's activities.

## DECONTAMINATION PROCEDURES

If required, equipment and personnel decontamination areas will be designated by the Project Manager at the start of the project. To prevent the transfer of contamination from the work site into clean areas, all tools will be cleaned adequately prior to final removal from the work zone. Disposable protective clothing such as Tyvek coveralls, latex gloves, boot covers, etc. will be changed on a daily basis or at the discretion of the Project Manager on site. All disposable protective clothing will be put into plastic bags and disposed of in a proper manner. All respirator cartridges will be discarded and replaced with fresh units on a daily basis, disposal will be in the same manner as the protective clothing. Soil will be stockpiled in an area designated by the Project Manager, to be handled as agreed upon in the scope of work contract with the client.

In the event of a medical emergency, the injured party will be taken through decontamination procedures, if possible. However, the procedures may be omitted when it may aggravate or cause further harm to the injured party. member of the work team will accompany the injured party to the medical facility to advise on matters concerning chemical exposure. The injured person will not transport themselves to the medical facility!

Personnel Protection Level will be Level 'D'. Protective clothing levels may be upgraded in the event that on site conclusions determine a greater than anticipated danger to personnel.

Site Entry: BARRICADES, CONES, OR BANNER GUARD MAY BE ERECTED TO CONTROL FOOT TRAFFIC AWAY FROM THE WORK ACTIVITY.

#### Decontamination-

Personnel and Equipment: IF REQUIRED, PERSONNEL AND EQUIPMENT WILL BE DECONTAMINATED A PER USEPA STANDARD OPERATING SAFETY GUIDELINES. A SMALLER MODIFIED DECONTAMINATION LINE MAY BE USED DUE TO SPACE RESTRICTIONS.

Work Limitations (time, weather):

NONE ARE ANTICIPATED, HOWEVER, PERSONNEL WORKING ON SITE MAY EXPERIENCE ELEVATED TEMPERATURES DURING THE WORK DAY. IN THE EVENT THAT AMBIENT TEMPERATURES REACH OR EXCEED 80 DEGREES FAHRENHEIT, THE FOLLOWING GUIDELINES ARE RECOMMENDED.

1. Periods of work should be reduced to no less than one hour time frames and separated by breaks intended to reduce personnel stress due to reduced natural ventilation from wearing protective clothing.

2. All personnel wearing level C protective clothing or greater, will be subject to medical monitoring of body temperature after work periods, by the following guidelines;

a. Heart Rate (HR) should be measured by counting the radial pulse rate for 30 seconds and doubling count for the correct pulse rate. This should be done as early as possible in the resting period. The HR at the beginning of the rest period should not exceed 110 beats per minute.

If the HR is higher, the next work period should be shortened by 10 minutes, while the length of the rest period remains the same. If the HR is 100 beats per minute at the beginning of the next rest period, the following work period should be shortened by an additional 10 minutes.

b. Body temperatures should be measured orally with a clinical thermometer as soon as possible in each resting period. Oral Temperatures (OT) should not exceed 99 degrees Fahrenheit. If it does, the next work period should be reduced by 10 minutes while the length of the resting period remains the same. If the OT exceeds 99 degrees Fahrenheit at the beginning of the next work period, the following work period should be reduced by an additional 10 minutes. OT should be

measured at the end of each rest period to ensure that the body's temperature has dropped below 99 degrees Fahrenheit.

Body Water Loss (BWL) from sweating, could result in dehydration and further complications and stress on personnel working in protective clothing under adverse weather conditions. It is strongly recommended that plenty of stress relief beverages be available on site to replace body fluids. Commercial drink mixes that provide electrolyte balancing solutions or water are adequate for replacing body fluids.

Alternate methods of heat stress reduction can be made available such as,

- Portable showers or hose-down facilities,
- Shelter cover to protect against direct sunlight,
- Rotating teams of personnel wearing protective clothing,
- Performing extremely arduous tasks early in the workday.

## EMERGENCY INFORMATION

In the event of an injury or suspected chemical exposure, the first responsibility of the Project Manager will be to prevent any further injury. This objective will normally require an immediate stop to work until the situation is remedied. The Project Manager may order the evacuation of the work party. Other primary responsibilities in the event of an accident will be the first aid and decontamination of the injured team member(s). The injured party will be moved to a designated safe area and initial first aid will be rendered.

Employees are asked to make every effort and take personnel responsibility to prevent accidents involving machinery or any other aspect of the job, either by individual action or by notifying the Project Manager immediately of any unsafe condition that may exist.

In the event of an unexpected hazardous material discovery on site, the following actions will be taken by any employee involved;

1. The person having uncovered the unexpected material will notify the Project Manager and other workers of the danger. The site will be cleared of personnel if deemed necessary by the Project Manager. If site evacuation is required, appropriate local agencies such as the Fire Department or Health Department will be notified as well.
2. Immediate action will be taken to contain the hazardous material, provided the workers involved are properly attired with adequate protective clothing to avoid exposure.

3. Proper containment procedures will be determined for the hazardous material encountered prior to cleanup commencing. All personnel involved in the containment effort will be properly protected to prevent exposure. Backup personnel will be similarly protected while monitoring the work being done for any additional dangers.

4. The container(s) will be staged on site, away from the major activity areas and in such a way that if loss of containment occurs, the material will be withheld from further spread by a secondary containment berm or vessel.

5. The owner or agent controller of the property will be notified promptly of the incident and will be apprised as to the options available for proper disposal.

## EXPOSURE SYMPTOMS AND FIRST AID

### EXPOSURE ROUTE

### SYMPTOMS

### FIRST AID

#### **Skin**

Dermatitis, itching  
redness, swelling

Wash immediately  
with soap and water  
contact ambulance if  
evacuation is needed.

#### **Eyes**

Irritation, watering

Flush with water,  
transport directly to  
emergency room, if  
necessary.

#### **Inhalation**

Vertigo, tremors

Move person to fresh  
air, cover source of  
exposure.

#### **Ingestion**

Nausea, vomiting

Call Poison Control  
Center, DO NOT  
INDUCE VOMITING,  
transport to medical  
facility.

Local Resources:

HEALTH AND SAFETY CONTACT FOR ASE:

David Allen  
Office: (510) 820-9391  
Police : 911  
Fire

POISON CONTROL: SF (415) 476-6600  
SJ (800) 798-0720

### ROUTE TO NEAREST HOSPITAL

Exit site South  
Left on 31st Street

HOSPITAL IS ON THE RIGHT SIDE (see attached Hospital Location Map)

Hospital: HIGHLAND HOSPITAL  
1411 EAST 31ST STREET, OAKLAND, CA 94602

**(510) 437-4557**

**AQUA SCIENCE ENGINEERS INC.**

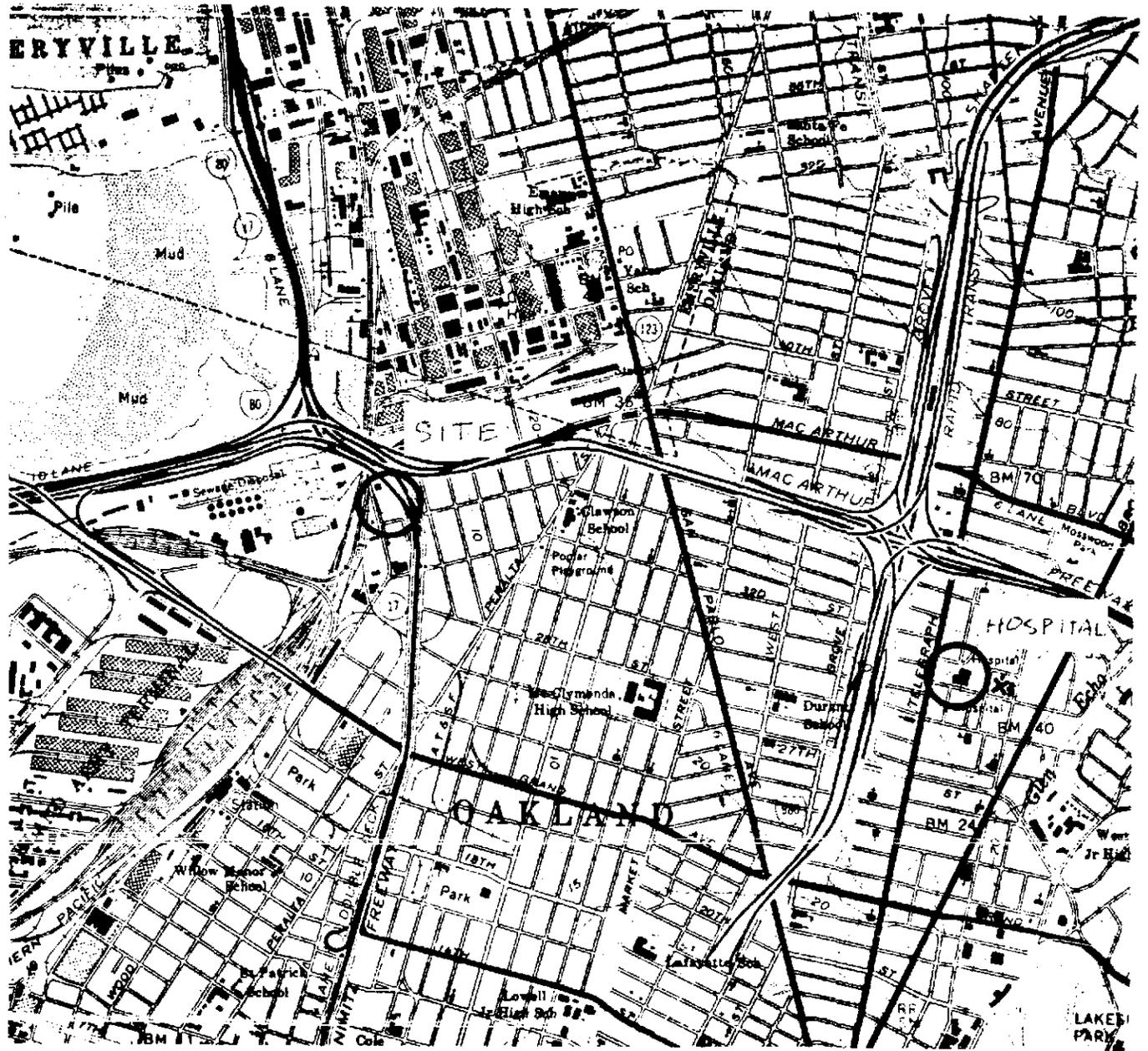
**HAZARDOUS MATERIALS SITE SAFETY PLAN**

The below signed personnel have read this plan, understand it's contents and agree to follow the guidelines set forth;

EMPLOYEE NAME (print)

SIGNATURE

DATE



HOSPITAL LOCATION MAP

TASCO  
 3430 WOOD STREET  
 OAKLAND, CALIFORNIA

Aqua Science Engineers

Figure 1