

WEST & ASSOCIATES ENGINEERS, INC.

TELEFAX TRANSMITTAL COVER PAGE

TO:
TELEFAX NO. (408) 356-8315

ATTN: Bruce McCall
Exploration Geoservices

FROM: Diana West
WEST & ASSOCIATES ENVIRONMENTAL ENGINEERS, INC.
PO BOX 5891
VACAVILLE, CA 95696
(707) 451-1360 (voice)
(707) 447-0631 (telefax)

TRANSMITTED FROM A BROTHER INTELLIFAX 900 TELEFAX MACHINE

DATE: November 18, 1999 TIME: 1:15 AM PM

NUMBER OF PAGES INCLUDING COVER PAGE: 2

ADDITIONAL INFORMATION:

Larry Seltis Fax # (510) 337-9335

WEST ASSOCIATES
ENVIRONMENTAL ENGINEERS, INC.

November 8, 1999

Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
Attn: Mr. Larry Seto

SUBJECT: ABANDONMENT OF GROUNDWATER MONITORING WELLS, WEYERHAEUSER PAPER COMPANY, 1801 HIBBARD ST., 95401, ALAMEDA; STID 1202

Dear Mr. Seto,

On November 8, 1999 the eight remaining groundwater monitoring wells at 1801 Hibbard Street were properly decommissioned as requested in your correspondence of October 5, 1999. The wells were abandoned under permit 99WR632 issued by the Alameda County Public Works Agency on October 28, 1999 (copy attached).

The following monitoring wells were decommissioned:

MW-3B, MW-4B, MW-5, MW-6, MW-7, MW-10, MW-11, MW-12

These wells were abandoned by a well drilling contractor licensed in California (Exploration Geoservices C57-484288). I personally observed and inspected the work completed.

It is my understanding that completion of the monitoring well abandonment concludes Weyerhaeuser's responsibilities at this site and that a closure letter can now be released.

For any additional information please contact me at (707) 451-1360.

Yours truly,

Brian W. West PE
RCE 32319 (expires 12/31/00)
West & Associates Environmental Engineers, Inc.
BWW/eb

WELL DRILLERS CERTIFICATION

The above described well abandonment activity was completed by us on November 8, 1999 as presented above:

Bruce McColl, Pres. Exploration Geoservices, Inc. 11/8/99
Bruce McColl; License 484288 C-57 Tel#(408)280-6822

PHONE: (707) 451-1360 • P.O. BOX 5891, VACAVILLE, CALIFORNIA 95696

WEST
ASSOCIATES
ENVIRONMENTAL ENGINEERS, INC.

ENVIRONMENTAL
PROTECTION

99 NOV 10 AM 10:05

November 8, 1999

Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
Attn: Mr. Larry Seto

**SUBJECT: ABANDONMENT OF GROUNDWATER MONITORING WELLS, WEYERHAEUSER
PAPER COMPANY, 1801 HIBBARD ST., 95401, ALAMEDA; STID 1202**

Dear Mr. Seto,

On November 8, 1999 the eight remaining groundwater monitoring wells at 1801 Hibbard Street were properly decommissioned as requested in your correspondence of October 5, 1999. The wells were abandoned under permit 99WR632 issued by the Alameda County Public Works Agency on October 28, 1999 (copy attached).

The following monitoring wells were decommissioned:

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It is my understanding that completion of the monitoring well abandonment concludes Weyerhaeuser's responsibilities at this site and that a closure letter can now be released.

For any additional information please contact me at (707) 451-1360.

Yours truly,



Brian W. West PE
RCE 32319 (expires 12/31/00)
West & Associates Environmental Engineers, Inc.

BWW/eb



cc: Mr. James McCourt PE, Weyerhaeuser - Tacoma

JUL 12 1999 11:35 FR

ALAMEDA COUNTY PUBLIC WORKS AGENCY



WATER RESOURCES SECTION
361 TURNER COURT, SUITE 200, RAYWARD, CA 94543-7491
PHONE (510) 878-5375 ANDREAS GODFREY FAX (510) 878-5262
(510) 878-5248 ALVIN KAN

DRLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 1801 Hibbard
Alameda

CC/County Council/and Survey _____ ft. Accuracy _____ ft.
CC# _____ ft. _____ ft.
APN _____

CLIENT
Name Weyerhaeuser
Address PO Box 2499 Phone 253 924 6513
City TACOMA WA Zip 98477

APPLICANT
Name WEST & ASSOCIATES
Address 630 EUBANKS Phone 207 447 0631
City YACQUILLE Zip 93682

TYPE OF PROJECT
Well Construction Geotechnical Investigation
Cathodic Protection Seismic
Water Supply Contamination
Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE
New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other _____

DRILLING METHOD:
NA Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S LICENSE NO. C-57 484288

WELL PROJECTS
Drill Hole Diameter _____ in. Maximum Depth 20 ft.
Casing Diameter 2 INCH in. Number _____
Surface Seal Depth _____ ft.

GEOTECHNICAL PROJECTS
NA Number of Borings _____ Maximum Depth _____ ft.
Hole Diameter _____ in.

ESTIMATED STARTING DATE 11-2-99
ESTIMATED COMPLETION DATE 11-2-99

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 13-98.

APPLICANT'S SIGNATURE Bruce L. ... DATE 10-28-99

FOR OFFICE USE

PERMIT NUMBER 99WR632
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

- (A) GENERAL**
 1. A permit application should be submitted to us in triplicate at the ACPWA office five days prior to proposed starting date.
 2. Submit to ACPWA within 60 days after completion of pertinent work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
 3. Permit is void if project not begun within 90 days of approval date.
- B. WATER SUPPLY WELLS**
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth is 20 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
- (D) GEOTECHNICAL**
Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, emptied cement grout shall be used in place of compacted cuttings.
- E. CATHODIC**
Fill hole above anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION**
See attached.
- G. SPECIAL CONDITIONS**

APPROVED Shane L. ... DATE 10-28-99

FAXED
11-29-99

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)

October 5, 1999

Mr. Mick McCourt
CH1L28
Tocoma, WA 98477

RE: 1801 Hibbard Street, Alameda, CA 94501

Dear Mr. McCourt:

This office and the San Francisco Regional Water Quality Control Board have reviewed the case closure summary for the above referenced site. We concur that no further action related to the underground tank release is required at this time. Before a remedial action completion letter is sent, the on-site monitoring wells must be decommissioned, if they will no longer be used for monitoring. Please notify this office upon completion of well destruction so a closure letter can be issued.

Well destruction permits may be obtained from Alameda County Public Works by contacting them at (510) 670-5248.

If you have any questions, please contact me at (510) 567-6774.

Sincerely,



Larry Seto
Sr. Hazardous Materials Specialist

Cc: Brian West, West & Associates, P.O. Box 5891, Vacaville, CA 95696
Files

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)

Mr. Mick McCourt
Weyerhaeuser Paper Company
CH1L28
Tocoma, WA 98477
STID 1202

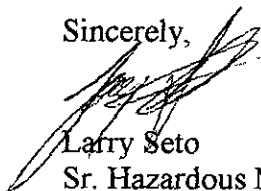
RE: 1801 Hibbard Street, Alameda, CA 94501

Dear Mr. McCourt:

Before site closure can be granted for the above site, further characterization of the contaminated soil left in place under the main plant building is required. At a minimum, two borings must be advanced on the other side of the building foundation of SB-1 and SB-2. A minimum of one soil and one groundwater sample must be collected from each boring. The samples must be analyzed for all chemicals of concern (coc) detected in previous soil and groundwater samples.

If you have any questions, please contact me at (510) 567-6774.

Sincerely,



Larry Seto

Sr. Hazardous Materials Specialist

Cc: Brian West, West Associates, PO Box 5891, Vacaville, CA 95696
Peng Leong, Innovative & Creative Environmental Solutions, PO Box 99288,
Emeryville, CA 94662-9288

Files

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)

June 23, 1999

Mr. Mick McCourt
Weyerhaeuser Paper Company
CHIL28
Tocoma, WA 98477

INTENT TO MAKE A DETERMINATION THAT NO FURTHER ACTION IS
REQUIRED OR ISSUE A CLOSURE LETTER FOR WEYERHAEUSER PAPER
COMPANY @ 1801 HIBBARD STREET, ALAMEDA CA 94501

Dear Mr. McCourt:

This letter is to inform you that Alameda County Environmental Health Department, Local Oversight Program (LOP), intends to make a determination that no further action is required at the above site or to issue a closure letter. Please notify this agency of any input and recommendations you may have on these proposed actions within 20 days of the date of this letter.

In accordance with section 25297.15 of Ch. 6.7 of the Health & Safety Code, you must provide certification to the local agency that all of the current record fee title owners have been informed of the proposed action. Please provide this certification to this office within 20 days of the date of this letter.

If you have any questions about these proposed actions, please contact Larry Seto at (510) 567-6774.

Sincerely,

Thomas Peacock
Manager, LOP

cc: Chuck Headlee, RWQCB
City of Alameda, Fire Department, 1300 Park Street, Alameda, CA 94501
Larry Seto, Alameda County Environmental Health
Files

WEST & ASSOCIATES ENGINEERS, INC.

TELEFAX TRANSMITTAL COVER PAGE

TO:
TELEFAX NO. 1 (510) 337-9335

ATTN: Larry Seto
Alameda County

FROM: Dorian West
WEST & ASSOCIATES ENVIRONMENTAL ENGINEERS, INC.
PO BOX 5891
VACAVILLE, CA 95696
(707) 451-1360 (voice)
(707) 447-0631 (telefax)

TRANSMITTED FROM A BROTHER INTELLIFAX 900 TELEFAX MACHINE

DATE: June 23, 1999 TIME: 10:49 AM PM

NUMBER OF PAGES INCLUDING COVER PAGE: 2

ADDITIONAL INFORMATION:

WEST
ASSOCIATES
ENVIRONMENTAL ENGINEERS, INC.

June 22, 1999

Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
Attn: Mr. Larry Seto

**SUBJECT: WEYERHAEUSER PAPER COMPANY, 1801 HIBBARD ST., 95401
ALAMEDA; STID 1202**

Dear Mr. Seto,

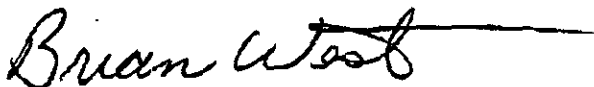
As per your request of June 21, 1999 regarding drinking water wells in the Alameda area I can provide the following information:

We conducted a search in 1994 and found no evidence of active or permitted drinking water wells within one mile of the former Weyerhaeuser Paper Company site. The City of Alameda is supplied by the East Bay Municipal Water District which relies predominantly on imported water from distant reservoirs. East Bay MUD has no production wells within one mile of the site.

The contaminated aquifer under the site is brackish and not suitable as a drinking water source. It is unlikely that any unknown drinking water wells draw from this source.

I hope this information assists you in your closure activities. For any additional information please contact me at (707) 451-1360.

Yours truly,



Brian W. West PE
West & Associates Environmental Engineers, Inc.

BWW/eb

cc: Mr. James McCourt, Weyerhaeuser

PHONE: (707) 451-1360 • P.O. BOX 5891, VACAVILLE, CALIFORNIA 95696

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)

June 23, 1999

Mr. Mick McCourt
Weyerhaeuser Paper Company
CHIL28
Tocoma, WA 98477

INTENT TO MAKE A DETERMINATION THAT NO FURTHER ACTION IS
REQUIRED OR ISSUE A CLOSURE LETTER FOR WEYERHAEUSER PAPER
COMPANY @ 1801 HIBBARD STREET, ALAMEDA CA 94501

Dear Mr. McCourt:

This letter is to inform you that Alameda County Environmental Health Department, Local Oversight Program (LOP), intends to make a determination that no further action is required at the above site or to issue a closure letter. Please notify this agency of any input and recommendations you may have on these proposed actions within 20 days of the date of this letter.

In accordance with section 25297.15 of Ch. 6.7 of the Health & Safety Code, you must provide certification to the local agency that all of the current record fee title owners have been informed of the proposed action. Please provide this certification to this office within 20 days of the date of this letter.

If you have any questions about these proposed actions, please contact Larry Seto at (510) 567-6774.

Sincerely,

Thomas Peacock
Manager, LOP

cc: Chuck Headlee, RWQCB
City of Alameda, Fire Department, 1300 Park Street, Alameda, CA 94501
Larry Seto, Alameda County Environmental Health
Files

WEST
ASSOCIATES
ENVIRONMENTAL ENGINEERS, INC.

June 22, 1999

Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
Attn: Mr. Larry Seto

**SUBJECT: WEYERHAEUSER PAPER COMPANY, 1801 HIBBARD ST., 95401
ALAMEDA; STID 1202**

Dear Mr. Seto,

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The contaminated aquifer under the site is brackish and not suitable as a drinking water source. It is unlikely that any unknown drinking water wells draw from this source.

I hope this information assists you in your closure activities. For any additional information please contact me at (707) 451-1360.

Yours truly,



Brian W. West PE
West & Associates Environmental Engineers, Inc.

BWW/eb

cc: Mr. James McCourt, Weyerhaeuser

ENVIRONMENTAL
PROTECTION
99 JUN 29 PM 3:39



Facsimile Cover

Total number of pages (including cover page) 3		Date 6/14/99	Time 3:14 PM
To Larry Seto		From Mick McCourt	
Facsimile Number (510) 337-9335		Facsimile Number (253) 924-2013	
Department Environmental Health Services/Environmental Protection		Department Environment, Health and Safety	
Company Alameda County Health Care Services		Company Weyerhaeuser	
Phone Number (510) 567-6700		Phone Number (253) 924-6513	

MESSAGE

Mr. Seto,

The attached documents are for your review. If you have any questions regarding this fax, please feel free to contact me.

Thank you,

James E. 'Mick' McCourt
Sr. Environmental Manager
Weyerhaeuser Company





Corporate Headquarters
Tacoma WA 98477-0001
Tel (253) 924 2345

June 3, 1999

Alameda County Health Care Services
Environmental Protection (LOP)
131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6574

Subject: NOTICE OF PROPOSED ACTION SUBMITTED TO LOCAL AGENCY FOR
1801 Hibbard Street
Alameda, CA 94501

In accordance with section 25297.15(a) of Chapter 6.7 of the Health and Safety Code, we, Weyerhaeuser Company, certify that we have notified all responsible landowners of the enclosed proposed action. Check space for applicable proposed action(s):

- cleanup proposal
- site closure proposal
- local agency intention to make a determination that no further action is required
- local agency intention to issue a closure letter

Sincerely,

A handwritten signature in black ink that reads 'James E. 'Mick' McCourt'.

James E. 'Mick' McCourt
Senior Environmental Manager
Weyerhaeuser Company

cc: Attn: Ray Panek
Kaufman & Broad
2201 Walnut Avenue, Suite 100
Fremont, CA 94538



Corporate Headquarters
Tacoma WA 98477-0001
Tel (253) 924 2345

June 3, 1999

Alameda County Health Care Services
Environmental Protection (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6574

Subject: CERTIFIED LIST OF RECORD FEE TITLE OWNERS FOR
1801 Hibbard Street
Alameda, CA 94501

In accordance with section 25297.15(a) of Chapter 6.7 of the Health and Safety Code, we, Weyerhaeuser Company, certify that the following is a complete list of current record fee title owners and their mailing addresses for the above site:

Attn: Ray Panek
Kaufman & Broad
2201 Walnut Avenue, Suite 100
Fremont, CA 94538

Sincerely,

A handwritten signature in black ink that reads 'James E. 'Mick' McCourt'. The signature is written in a cursive style with a large initial 'J'.

James E. 'Mick' McCourt
Senior Environmental Manager
Weyerhaeuser Company

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

Certified Mailer#

May 24, 1999

Mr. Mick McCourt
Weyerhaeuser Paper
CH1L28
Tacoma WA 98477
STID 1201

RE: Weyerhaeuser Paper Company, 1801 Hibbard Street, Alameda, CA 94501

LANDOWNER NOTIFICATION AND PARTICIPATION REQUIREMENTS

Dear Mr. McCourt:

This letter is to inform you of new legislative requirements pertaining to cleanup and closure of sites where an unauthorized release of hazardous substance, including petroleum, has occurred from an underground storage tank (UST). Section 25297.15(a) of Ch. 6.7 of the Health & Safety Code requires the primary or active responsible party to notify all current record owners of fee title to the site of: 1) a site cleanup proposal, 2) a site closure proposal, 3) a local agency intention to make a determination that no further action is required, and 4) a local agency intention to issue a closure letter. Section 25297.15(b) requires the local agency to take all reasonable steps to accommodate responsible landowners' participation in the cleanup or site closure process and to consider their input and recommendations.

For purposes of implementing these sections, you have been identified as the primary or active responsible party. Please provide to this agency, within twenty (20) calendar days of receipt of this notice, a complete mailing list of all current record owners of fee title to the site. You may use the enclosed "list of landowners" form (sample letter 2) as a template to comply with this requirement. If the list of current record owners of fee title to the site changes, you must notify the local agency of the change within 20 calendar days from when you are notified of the change.

If you are the sole landowner, please indicate that on the landowner list form. The following notice requirements do not apply to responsible parties who are the sole landowner for the site.

LANDOWNER NOTIFICATION

Re: Weyerhaeuser Paper Company, 1801 Hibbard Street, Alameda, CA 94501
May 24, 1999
Page 2 of 2

In accordance with Section 25297.15(a) of Ch. 6.7 of the Health & Safety Code, you must certify to the local agency that all current record owners of fee title to the site have been informed of the proposed action before the local agency may do any of the following:

- 1) consider a cleanup proposal (corrective action plan)
- 2) consider a site closure proposal
- 3) make a determination that no further action is required
- 4) issue a closure letter

You may use the enclosed "notice of proposed action" form (sample letter 3) as a template to comply with this requirement. Before approving a cleanup proposal or site closure proposal, determining that no further action is required, or issuing a closure letter, the local agency will take all reasonable steps necessary to accommodate responsible landowner participation in the cleanup and site closure process and will consider all input and recommendations from any responsible landowner.

Please call me at (510) 567-6774 should you have any questions about the content of this letter.

Sincerely,



Larry Seto
Sr. Hazardous Materials Specialist

Attachments

cc: Chuck Headlee, RWQCB

SAMPLE LETTER (2): LIST OF LANDOWNERS FORM

Name of local agency
Street address
City

SUBJECT: CERTIFIED LIST OF RECORD FEE TITLE OWNERS FOR (*Site Name and Address*)

(Note: Fill out item 1 if there are multiple site landowners. If you are the sole site landowner, skip item 1 and fill out item 2.)

1. In accordance with section 25297.15(a) of Chapter 6.7 of the Health & Safety Code, I, (*name of primary responsible party*), certify that the following is a complete list of current record fee title owners and their mailing addresses for the above site:

2. In accordance with section 25297.15(a) of Chapter 6.7 of the Health & Safety Code, I, (*name of primary responsible party*), certify that I am the sole landowner for the above site.

Sincerely,

Signature of primary responsible party

Name of primary responsible party

SAMPLE LETTER 3: NOTICE OF PROPOSED ACTION SUBMITTED TO LOCAL AGENCY

Name of local agency
Street address
City

SUBJECT: NOTICE OF PROPOSED ACTION SUBMITTED TO LOCAL AGENCY FOR *(Site Name and Address)*

In accordance with section 25297,15(a) of Chapter 6.7 of the Health & Safety Code, I, *(name of primary responsible party)*, certify that I have notified all responsible landowners of the enclosed proposed action. Check space for applicable proposed action(s):

- cleanup proposal (corrective action plan)
- site closure proposal
- local agency intention to make a determination that no further action is required
- local agency intention to issue a closure letter

Sincerely,

Signature of primary responsible party

Name of primary responsible party

cc: Names and addresses of all record fee title owners

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



Certified Mailer# P 368 729 422

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

May 24, 1999

Mr. Mick McCourt
Weyerhaeuser Paper
CH1L28
Tacoma WA 98477
STID 1201

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LANDOWNER NOTIFICATION AND PARTICIPATION REQUIREMENTS

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LANDOWNER NOTIFICATION

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May 24, 1999
Page 2 of 2

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Please call me at (510) 567-6774 should you have any questions about the content of this letter.

Sincerely,



Larry Seto
Sr. Hazardous Materials Specialist

Attachments

cc: Chuck Headlee, RWQCB

P 368 729 422

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to Mr. MICK McCOURT	
Street & Number WEYERHAEUSER PAPER CHIL 28	
Post Office, State, & ZIP Code TACOMA, WA. 98477	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date MAY 27 1999 JAN 1 1 1999	

PS Form 3800 April 1995

WEST & ASSOCIATES ENGINEERS, INC.

TELEFAX TRANSMITTAL COVER PAGE

TO:
TELEFAX NO. 510-337-9335
Alameda County
Environmental Health

ATTN: _____
LARRY SETO

FROM: Brian West
WEST & ASSOCIATES ENVIRONMENTAL ENGINEERS, INC.
PO BOX 5891
VACAVILLE, CA 95696
(707) 451-1360 (voice)
(707) 447-0631 (telefax)

TRANSMITTED FROM A BROTHER INTELLIFAX 900 TELEFAX MACHINE

DATE: 5/17/ 1999 TIME: 11:10 AM PM

NUMBER OF PAGES INCLUDING COVER PAGE: 4

ADDITIONAL INFORMATION:

Larry -

Per your request -

BWW

WEST ASSOCIATES

ENVIRONMENTAL ENGINEERS, INC.

May 17, 1999

Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
Attn: Mr. Larry Seto

**SUBJECT: WEYERHAEUSER PAPER COMPANY, 1801 HIBBARD ST., 95401
ALAMEDA; STID 1202**

Dear Mr. Seto,

As per your request of May, 5, 1999 for additional technical data concerning the above referenced site, we are submitting the following:

- 1) Discussion of existing solvent concentrations and their impact to the environment and human health

Monitoring of volatile chlorinated organic and semi-volatile chlorinated organic concentrations in groundwater over a period of time (1993-1998) have demonstrated a clear and definite declining trend. Results of the last groundwater monitoring event (August 1998) indicated only two wells with volatile chlorinated organic concentrations greater than 5 PPB (MW-5, 7.6 PPB & MW-3B, 37.4 PPB: both 1,1-Dichloroethane). This represents a significant reduction in volatile and semi-volatile concentrations from 1993.

It can be presumed that volatile and semi-volatile concentrations will continue to decline with time and that within a reasonable time period no groundwater concentrations would exceed 5 PPB.

Impact to the environment and human health from low concentrations of volatile and semi-volatile chlorinated organics at the Weyerhaeuser site is insignificant. Due to high salinity, groundwater under the Weyerhaeuser site is unsuitable as a drinking water source. So it can be presumed that there are no drinking water impacts. The other potential human impact, contact by construction workers during redevelopment activities, is minimal since the contaminant concentrations are low, the area affected is small, and construction worker contact would be short term.

San Francisco Bay is a potential environmental receptor, however it has been demonstrated that groundwater contamination is not migrating off-site. Consequently, impact to Bay water quality is non-existent.

In summary, existing concentrations of solvents in groundwater at the Weyerhaeuser site are quite low and are improving with time. Contamination is not migrating off-site and potential impact to humans is minimal.

**WEST
ASSOCIATES**

WEYERHAEUSER PAPER COMPANY, 1801 HIBBARD, ALAMEDA; STID 1202, Page 2

2) Total Oil and Grease groundwater analysis since July 1993

All existing groundwater monitoring wells were tested for total oil & grease in February 1994. Results for each well were non-detect. This data was submitted to the Alameda County Health Care Services Agency in our report; "Site Investigation Report, Former Underground Tank Sites, Weyerhaeuser Paper Company, Alameda Corrugated Box Facility" dated January 1995. A copy of Data Table 4-8 (page 4-17) is included for your reference.

I hope this information assists you in your closure activities. For any additional information please contact me at (707) 451-1360.

Yours truly,



Brian W. West PE
West & Associates Environmental Engineers, Inc.

BWW/eb

Attachment: Data Table 4-8

cc: Mr. James McCourt, Weyerhaeuser

**TABLE 4-8
 PETROLEUM CONTAMINATION ANALYSES - GROUNDWATER
 FEBRUARY 1994
 All Values in ug/l**

WELL ID	OIL & GREASE	TPH (diesel)	TPH (gas)	BENZENE	TOLUENE	XYLENES	ETHYL BENZENE
MW-1	ND	ND	ND	1.5	ND	ND	ND
MW-2	ND	ND	200	390	25	50	7.1
MW-3	ND	ND	5400	3900	680	840	390
MW-4	ND	ND	1000	54	2.7	4.7	1.4
MW-5	ND	ND	ND	1.8	ND	ND	ND
MW-6	ND	ND	ND	2.6	ND	ND	ND
MW-7	ND	ND	ND	ND	ND	ND	ND
MW-9	ND	ND	1,900	63	4.3	14	22
MW-10	ND	ND	ND	ND	ND	ND	ND
MW-11	ND	ND	ND	ND	ND	ND	ND
QC	ND	ND	ND	ND	ND	ND	ND

NOTES

ND: Not Detected, Minimum detection limits for each compound listed on original laboratory report forms

4-17

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

May 5, 1999

Mr. Brian West, PE
West & Associates
P.O. Box 5891
Vacaville, CA 95696
STID 1201

RE: Weyerhaeuser Paper Company, 1801 Hibbard Street, Alameda, CA 94501

Dear Mr. West:

I am finalizing the case closure summary for the above site. Please provide me with the following information to assist me in my task.

- 1) Discussion of the volatile chlorinated organics and semi-volatile chlorinated organics left in place, and its impact to the environment and human health
- 2) A copy of the most recent Total Oil and Grease (TOG) groundwater analysis from existing monitoring well(s): MW-3B, MW-4B, MW-5, MW-6, MW-7, MW-10, MW-11, MW-12. The most recent TOG analysis in the case file is a groundwater sample taken on July 12, 1993.

If you have any questions, please contact me at (510) 567-6774.

Sincerely,



Larry Seto
Sr. Hazardous Materials Specialist

Cc: Files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



February 16, 1999

ENVIRONMENTAL HEALTH SERVICES

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

Mr. Brian West
West Associates
P.O. Box 5891
Vacaville, CA 95696

RE: Weyerhaeuser Paper Company, 1801 Hibbard Street, Alameda, CA 94501

Dear Mr. West:

Please forward to this office any analytical documentation for contaminants left in place. Residual contamination is located beneath the main plant building, below underground pipelines, adjacent to former excavations backfilled with pea gravel, and between various sections of the remedial excavation). This information is contained in your company's report titled Remedial Action Report, Soil Excavation and Groundwater Sparging System Construction dated January 1996, page 17, section 4.3.

If you have any questions, please contact me at (510) 567-6774.

Sincerely,



Larry Seto
Sr. Hazardous Materials Specialist

Cc: Files

WEST
ASSOCIATES

ENVIRONMENTAL
PROTECTION
99 FEB - 8 PM 4:04

February 4, 1999

TO: Larry Seto
Alameda County Health Agency

CC: Mr. James McCourt
Weyerhaeuser Company

FROM: Brian West
West & Associates Engineers

SUBJECT: Soil Analytical - Weyerhaeuser Paper Company
1801 Hibbard St., Alameda

Larry,

Attached is a copy of the table we prepared summarizing all available analytical data for monitoring well No. 1 at the Weyerhaeuser Paper Company facility in Alameda.

With regard to your question concerning contaminant concentrations remaining around the periphery of the excavation, there is no detectable contamination in any soil sample collected outside the excavation limits, with the exception of sample E-SE. In other words, the analytical results for soil sample E-SE are the only data available describing contamination not removed from the site.

Please contact me at (707) 451-1360 if I can be of any further assistance.

WEYERHAEUSER - ALAMEDA
 PETROLEUM CONTAMINATION ANALYSES - GROUNDWATER
 MW-1
 All Values in PPM

DATE	OIL & GREASE	TPH (diesel)	TPH (gas)	BENZENE	TOLUENE	XYLENES	ETHYL BENZENE
12/91	NA	ND	ND	NA	ND	ND	ND
4/92	ND	ND	0.15	0.0015	0.0012	0.002	0.0018
7/92	<i>0.006</i> 0.6	ND	0.31	0.002	0.0018	0.0045	0.0012
1/93	0.8	ND	0.14	0.006	0.0012	0.0022	0.0006
4/93	1.6	1.3	ND	ND	ND	ND	ND
7/93	0.7	0.14	ND	ND	ND	ND	ND
2/94	ND	ND	ND	0.0015	ND	ND	ND
6/94	NA	ND	0.05	ND	ND	ND	ND
12/94	NA	NA	0.093	ND	ND	ND	ND
3/95	NA	NA	ND	0.00062	ND	ND	ND
9/95	NA	NA	ND	ND	ND	ND	ND

NOTES

ND: Not Detected, Minimum detection limits for each compound listed on original laboratory report forms

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)

February 1, 1999

Mr. Brian West
West Associates
P.O. Box 5891
Vacaville, CA 95696

RE: Weyerhaeuser Paper Company, 1801 Hibbard Street, Alameda, CA 94501

Dear Mr. West:

I am preparing the case closure summary for the above site. Please submit the items identified below to assist me in preparing this summary.

- 1) A summary history of MW-1 with dates in chronological order, and the units in parts per billion (ppb)
- 2) A summary of all contaminants left in place. Identify the highest concentration of each contaminate, it's location, and which report(s) this information is contained in. (Residual contamination is located beneath the main plant building, below underground pipelines, adjacent to former excavations backfilled with pea gravel, and between various sections of the remedial excavation).

If you have any questions, please contact me at (510) 567-6774.

Sincerely,



Larry Seto
Sr. Hazardous Materials Specialist

Cc: Files

WEST & ASSOCIATES ENGINEERS, INC.

TELEFAX TRANSMITTAL COVER PAGE

TO:
TELEFAX NO. 510-337-9335

Alameda County
Environmental Health

ATTN: LARRY SETO

FROM: Brian West
WEST & ASSOCIATES ENVIRONMENTAL ENGINEERS, INC.
PO BOX 5891
VACAVILLE, CA 95696
(707) 451-1360 (voice)
(707) 447-0631 (telefax)

TRANSMITTED FROM A BROTHER INTELLIFAX 900 TELEFAX MACHINE

DATE: Jan. 28, 1999 TIME: 3:10 AM PM

NUMBER OF PAGES INCLUDING COVER PAGE: 2

ADDITIONAL INFORMATION:

Larry -
Soil Analytical you
requested -
Brian West

**WEST
ASSOCIATES**

January 28, 1999

TO: Larry Seto
Alameda County Health Agency

CC: Mr. James McCourt
Weyerhaeuser Company

FROM: Brian West
West & Associates Engineers

SUBJECT: Soil Analytical - Weyerhaeuser Paper Company
1801 Hibbard St., Alameda

Larry,

I have compiled the following analytical data for soil samples collected around the perimeter of the excavation at 1801 Hibbard St.

South Side

Soil samples collected in boring MW-12: ND for all constituents

West Side

Soil samples collected in boring MW-5: ND for all constituents
Soil sample collected from the pit wall of the diesel tank excavation:
ND for all constituents

North Side

Soil samples collected in boring MW-10: ND for all constituents

East Side

Sample E-SE collected from the excavation wall: TPH-g = 160 PPM
BTXE = ND

Please contact me at (707) 451-1360 if I can be of any further assistance.

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.		
REPORT DATE 1 <u>2</u> <u>1</u> <u>7</u> <u>18</u> <u>98</u>		CASE #		SIGNED: <u>Brian West</u> DATE: <u>12/18/98</u>		
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT <u>Brian West</u>		PHONE <u>(707) 451-1360</u>		SIGNATURE	
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME <u>West & Associates Environmental Eng.</u>			
	ADDRESS <u>630 G Eubanks Ct</u> <u>Vacaville</u> <u>CA</u> <u>95688</u>					
RESPONSIBLE PARTY	NAME <u>Weyerhaeuser Co.</u> <input type="checkbox"/> UNKNOWN		CONTACT PERSON <u>James McCourt</u>		PHONE <u>(253) 24-6513</u>	
	ADDRESS <u>P.O. Box 2999</u> <u>Tacoma</u> <u>WA</u> <u>98477-2999</u>					
SITE LOCATION	FACILITY NAME (IF APPLICABLE) <u>Alameda Box Plant</u>		OPERATOR <u>Weyerhaeuser Paper Co.</u>		PHONE <u>(510) 814-1167</u>	
	ADDRESS <u>1801 Hibbard ST</u> <u>Alameda</u> <u>CA</u> <u>94501</u>					
	CROSS STREET <u>Buena Vista</u>					
IMPLEMENTING AGENCIES	LOCAL AGENCY <u>Alameda County Health Agency</u>		CONTACT PERSON <u>Larry Seto</u>		PHONE <u>(510) 567-6774</u>	
	REGIONAL BOARD <u>San Francisco Bay</u>		PHONE <u>(510) 286-1255</u>			
SUBSTANCES INVOLVED	(1) NAME <u>Gasoline</u>		QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN			
	(2) NAME <u>Volatile Organic Solvents</u>		<input checked="" type="checkbox"/> UNKNOWN			
DISCOVERY/ABATEMENT	DATE DISCOVERED <u>0</u> <u>2</u> <u>0</u> <u>7</u> <u>9</u> <u>1</u>		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER			
	DATE DISCHARGE BEGAN <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input checked="" type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER			
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE					
SOURCE/ CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input checked="" type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER			
	CASE TYPE CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)					
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input checked="" type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY					
	REMEDIAL ACTION CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input checked="" type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CAP SITE (CD) <input checked="" type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input checked="" type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT)					
COMMENTS						

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.	
REPORT DATE 12 2 11 d 7 d 9 y 8 y		CASE #		SIGNED: <i>Brian West</i> 12/18/98 DATE: 12-29-98	
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Brian West		PHONE (707) 451-1360		SIGNATURE <i>Brian West</i>
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME West & Associates Environmental Eng.		
	ADDRESS 630 G Eubanks Ct Vacaville CA 95688				
RESPONSIBLE PARTY	NAME Weyerhaeuser Co. <input type="checkbox"/> UNKNOWN		CONTACT PERSON James McCourt		PHONE (253) 924-6513
	ADDRESS P.O. Box 2999 Tacoma WA 98477-2999				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) Alameda Box Plant		OPERATOR Weyerhaeuser Paper Co.		PHONE (510) 814-1167
	ADDRESS 1801 Hibbard ST Alameda CA COUNTY 94501				
	CROSS STREET Buena Vista				
IMPLEMENTING AGENCIES	LOCAL AGENCY AGENCY NAME Alameda County Health Agency		CONTACT PERSON Larry Seto		PHONE (510) 567-6774
	REGIONAL BOARD San Francisco Bay		PHONE (510) 286-1255		
SUBSTANCES INVOLVED	(1) NAME Gasoline		QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN		
	(2) Volatile Organic Solvents		<input checked="" type="checkbox"/> UNKNOWN		
DISCOVERY/ABATEMENT	DATE DISCOVERED 0 2 0 d 7 d 9 y 1 y		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER		
	DATE DISCHARGE BEGAN <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input checked="" type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER		
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE				
SOURCE/ CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input checked="" type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER		
	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input checked="" type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY				
	CHECK APPROPRIATE ACTION(S) <input checked="" type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CAP SITE (CD) <input checked="" type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input checked="" type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT)				
COMMENTS	COMMENTS				

WEST
ASSOCIATES

December 18, 1998

TO: Larry Seto
Alameda County Health Agency

CC: Mr. James McCourt
Weyerhaeuser Company

FROM: Brian West
West & Associates Engineers

SUBJECT: Document Request - Weyerhaeuser Paper Company
1801 Hibbard St., Alameda

Larry,

Per your request, enclosed are the following documents:

1. "Remedial Action Report, Soil Excavation & Groundwater Sparging System Construction"; West & Associates Engineers, January 1996
2. "Soil Disposal Manifests & Landfill Receipts"; West & Associates Engineers, March 1996
3. Summary table, historic groundwater quality monitoring results, monitoring well MW-1
4. "Underground Storage tank Unauthorized Release (Tank)/Contamination Site Report", specific to contamination in the vicinity of well MW-7, retrieved from Weyerhaeuser Company files
5. "Underground Storage tank Unauthorized Release (Tank)/Contamination Site Report", specific to contamination in the vicinity of wells MW-1 thru MW-6 and MW-8 thru MW-12, prepared by myself on December 18, 1998

Please contact me at (707) 451-1360 if I can be of any further assistance.

Brian West

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.	
REPORT DATE 12/18/98		CASE #		SIGNED: <i>Brian West</i> DATE: 12-29-98	
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Brian West		PHONE (707) 451-1360		SIGNATURE <i>Brian West</i>
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME West & Associates Environmental Eng.		
	ADDRESS 630 G Eubanks Ct STREET Vacaville CITY CA STATE 95688 ZIP				
RESPONSIBLE PARTY	NAME Weyerhaeuser Co. <input type="checkbox"/> UNKNOWN		CONTACT PERSON James McCourt		PHONE (253) 924-6513
	ADDRESS P.O. Box 2999 STREET Tacoma CITY WA 98477-2999 STATE ZIP				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) Alameda Box Plant		OPERATOR Weyerhaeuser Paper Co.		PHONE (510) 814-1167
	ADDRESS 1801 Hibbard ST STREET Alameda CITY CA COUNTY 94501 ZIP				
	CROSS STREET Buena Vista				
IMPLEMENTING AGENCIES	LOCAL AGENCY AGENCY NAME Alameda County Health Agency		CONTACT PERSON Larry Seto		PHONE (510) 567-6774
	REGIONAL BOARD San Francisco Bay				PHONE (510) 286-1255
SUBSTANCES INVOLVED	(1) NAME Gasoline		QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN		
	(2) NAME Volatile Organic Solvents		<input checked="" type="checkbox"/> UNKNOWN		
DISCOVERY/ABATEMENT	DATE DISCOVERED 01/20/99		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER		
	DATE DISCHARGE BEGAN UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input checked="" type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER		
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE				
SOURCE/ CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input checked="" type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER		
	CASE TYPE CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input checked="" type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY				
	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)				
	<input checked="" type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CAP SITE (CD) <input checked="" type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input checked="" type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT)				
COMMENTS	COMMENTS				
	COMMENTS				

WEST
ASSOCIATES
ENVIRONMENTAL ENGINEERS, INC.

ENVIRONMENTAL
PROTECTION
98 NOV -2 PM 1:23

October 30, 1998

Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
Attn: Mr. Larry Seto

**SUBJECT: MTBE ANALYSIS, WEYERHAEUSER PAPER COMPANY, 1801 HIBBARD ST.,
ALAMEDA; STID 1202**

Dear Mr. Seto,

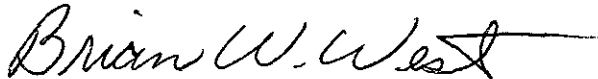
During our telephone conversation of Monday October 26, 1998 you mentioned that groundwater analysis for MTBE would be a condition of closure for the underground tank site reference above. I subsequently searched through our files and determined that we have analyzed groundwater samples from this site for MTBE.

Specifically, groundwater samples collected from the Weyerhaeuser Paper Company site on June 6, 1997 were analyzed for MTBE. Those results were submitted to your office in our quarterly groundwater monitoring report dated June 27, 1997.

I have attached a copy of the June 1997 MTBE analytical results to this letter for your ready reference. As indicated in the laboratory report, six of seven groundwater samples were reported as non-detectable for MTBE. One groundwater sample, (MW-4B) was reported as 11.2 PPB MTBE. Since this analysis was performed by EPA method 602, it is more likely that the reported MTBE in sample MW-4B is a false positive. In any event, the reported concentration is well below the suggested State action threshold of 35 PPB.

I hope this information expedites your processing of our site closure request. We are available to assist in any way possible in your efforts to finalize closure of the Weyerhaeuser site.

Yours truly,



Brian W. West PE
President
West & Associates Environmental Engineers, Inc.

BWW/eb

cc: Mr. James McCourt, Weyerhaeuser - Tacoma
Attachment; Analytical results

WEST
ASSOCIATES
ENVIRONMENTAL ENGINEERS, INC.

June 16, 1998

Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
Attn: Mr. Larry Seto

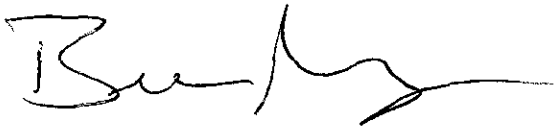
**SUBJECT: MODIFIED ANALYTICAL SCHEDULE
GROUNDWATER MONITORING REPORT, WEYERHAEUSER PAPER COMPANY,
ALAMEDA CORRUGATED BOX FACILITY, 1801 HIBBARD STR., STID 1202**

Dear Mr. Seto,

Per your request, I have enclosed a copy of the letter dated May 14, 1996 from Alameda County Health Care Services Agency that defines the modified analytical schedule for the Weyerhaeuser Paper Company site, 1801 Hibbard Street, Alameda.

If you have any questions please contact me at (707) 451-1360.

Sincerely,



Brennan Mahoney CPSS
Project Manager
West & Associates Environmental Engineers, Inc.

Enclosure: May 14, 1996 Letter

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



Alameda County CC4580
Environmental Health Services
1131 Harbor Bay Pkwy., #250
Alameda CA 94502-6577
(510)567-6700 FAX(510)337-9335

May 14, 1996

Mr. John Hipner
Weyerhaeuser Co.
P.O. Box Drawer X
Alameda, CA 94501

STID 1202

Re: Investigations at Weyerhaeuser Paper Company, located at 1801 Hibbard St., Alameda, CA

Dear Mr. Hipner,

In response to West Associates' recommendations given in the March 28, 1996 Quarterly Groundwater Monitoring Report for the above site, the frequency of EPA Method 624 and 625 analysis for groundwater samples may be switched from quarterly to semi-annual. This office would like you to hold off on switching the frequency of these analyses to annual until we obtain more information to determine whether the recently installed vapor extraction and air sparge systems will help remediate these halogenated and polynuclear aromatic hydrocarbon concentrations.

Quarterly analysis for Total Petroleum Hydrocarbons as gasoline and benzene, toluene, ethylbenzene, and xylenes shall continue at the site for all wells, except for Well MW-7 which should continue to be analyzed for Total Petroleum Hydrocarbons as diesel.

If you have any questions or comments, please contact me at (510) 567-6763.

Sincerely,

Juliet Shin
Senior Hazardous Materials Specialist

cc: Ed Granados , Weyerhaeuser, mail stop CH 1K29, Tacoma, WA 98477
Brian W. West, West Associates, P.O Box 5891, Vacaville, CA 95696
Acting Chief-File

Excelchem
Environmental Labs

500 Giuseppe Court, Suite 9
Roseville, Ca. 95678
(916) 773-3664

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: **BRENNAN MAHONEY** Phone #: **(707) 451-1360**
 Company/Address: **WEST & ASSOCIATES/P.O. BOX 5891 VALACVILLE, CA 95696** FAX #: **(707) 448-6998**
 Project Number: P.O.#: Project Name: **WPC ALAMEDA**
 Project Location: **ALAMEDA** Sampler Signature: *Brennan Mahoney*

ANALYSIS REQUEST

697026

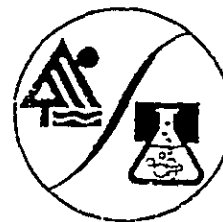
TAT

Sample ID	Sampling		Container		Method Preserved				Matrix		BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015) MTEBE	TPH as Diesel (8015)	TPH as Oil (8015)	Total Oil & Grease (5520 B/E/F)	Total Oil & Grease IR (5520 B/E/F,C)	96 - Hour Fish Bioassay	EPA 601/8010	EPA 602/8020	EPA 615/8150	EPA 608/8080 - Pesticides	EPA 608/8080-PCBs	EPA 624/8240	EPA 625/8270	ORGANIC LEAD	Reactivity, Corrosivity, Ignitibility	W.C.I. (✓)		RUSH SERVICE (12 hr) or (24 hr)	EXPEDITED SERVICE (48 hr) or (1 wk)	STANDARD SERVICE (2 wks)			
	DATE	TIME	VOA	SLEEVE	1L GLASS	1L PLASTIC	HCl	HNO ₃	ICE	NONE																	WATER	SOIL				TOTAL (✓)		
MW-3B	06/06/97		3							✓		✓																						
MW-4B			3							✓		✓																						
MW-5			3							✓		✓																						
MW-6			3							✓		✓																						
MW-7				1						✓		✓																						
MW-10			3							✓		✓																						
MW-11			3							✓		✓																						
MW-12	06/06/97		3							✓		✓																						

Relinquished by: *Brennan Mahoney* Date Time: 6/9/97 11:00 Received by: *[Signature]* Remarks:

Relinquished by: *[Signature]* Date Time: 6/9/97 11:00 Received by Laboratory: *Kandy Reece* Bill To:

**EXCELCHEM
ENVIRONMENTAL LABS**



500 Giuseppe Court, Suite 9
Roseville, CA 95678
Phone#: (916) 773-3664 Fax#: (916) 773-4784

ANALYSIS REPORT

Attention: Mr. Brennan Mahoney
West & Associates
490 Merchant St, Ste 104
Vacaville, CA 95688

Date Sampled: 06-06-97
Date Received: 06-09-97
MTBE Analyzed: 06-16-97
BTEX Analyzed: 06-16-97
TPHg Analyzed: 06-16-97
Matrix: Water

Project: WPC Alameda

	MTBE <u>PPB</u>	Benzene <u>PPB</u>	Toluene <u>PPB</u>	Ethyl- benzene <u>PPB</u>	Total Xylenes <u>PPB</u>	TPHg <u>PPB</u>
Reporting Limit:	100	10	10	10	10	1000

SAMPLE

Laboratory Identification:

MW-3B W0697079	ND	293	14	23	33	2030
-------------------	----	-----	----	----	----	------

PPB= Parts per billion = ug/L = micrograms per liter

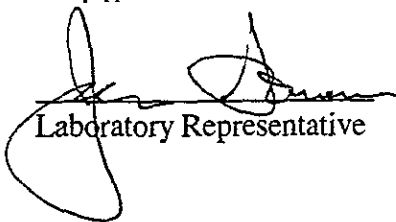
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

ANALYTICAL PROCEDURES

MTBE (Methyl Tert-Butyl Ether)--MTBE is analyzed by EPA Method 602 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

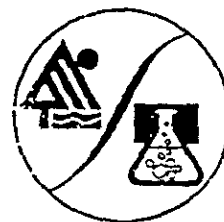
BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are analyzed by using EPA Method 602 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

TPHg--Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are analyzed by using modified EPA Method 8015, which utilizes a GC equipped with an FID.


Laboratory Representative

06-19-97
Date Reported

**EXCELICHEM
ENVIRONMENTAL LABS**



500 Giuseppe Court, Suite 9
Roseville, CA 95678
Phone#: (916) 773-3664 Fax#: (916) 773-4784

ANALYSIS REPORT

Attention: Mr. Brennan Mahoney
West & Associates
490 Merchant St, Ste 104
Vacaville, CA 95688

Date Sampled: 06-06-97
Date Received: 06-09-97
MTBE Analyzed: 06-13,16-97
BTEX Analyzed: 06-13,16-97
TPHg Analyzed: 06-13,16-97
Matrix: Water

Project: WPC Alameda

	MTBE PPB	Benzene PPB	Toluene PPB	Ethyl- benzene PPB	Total Xylenes PPB	TPHg PPB
Reporting Limit:	5.0	0.5	0.5	0.5	0.5	50
SAMPLE						
Laboratory Identification:						
MW-4B W0697080	11.2	3.5	4.3	1.0	6.7	177
MW-5 W0697081	ND	0.7	ND	ND	0.5	ND
MW-6 W0697082	ND	0.5	ND	ND	ND	ND
MW-10 W0697084	ND	ND	ND	ND	ND	ND
MW-11 W0697085	ND	ND	ND	ND	ND	ND
MW-12 W0697086	ND	ND	ND	ND	ND	ND

PPB= Parts per billion = ug/L = micrograms per liter

ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

ANALYTICAL PROCEDURES

MTBE (Methyl Tert-Butyl Ether)--MTBE is analyzed by EPA Method 602 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are analyzed by using EPA Method 602 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

TPHg--Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are analyzed by using modified EPA Method 8015, which utilizes a GC equipped with an FID.


Laboratory Representative

06-19-97
Date Reported

ALAMEDA COUNTY/ENVIRONMENTAL HEALTH SERVICES

BILLING INQUIRY FORM

DATE: 7/8/98

PACKET # CK980708

TO: ~~XXXXXXXXXX~~ / TP
DON WANG

FROM: BILLING UNIT - CANDYCE KELLY ck

Please be advised that the Billing Unit has received an inquiry on the account indicated below.

BILLING ACCOUNT #: 471103 MFR #: _____ CT #: _____

SITE/BUSINESS NAME: Weyerhaeuser Paper Co.

SITE/BUSINESS ADDRESS: 1801 Hibbard St. Alameda 94501

PROBLEM: MAIL returned - forwarding order expired

Please indicate the appropriate action to be taken. Please complete the following information in order to substantiate or reflect the above problem. In order to complete our billing procedure and to assist the client in a timely manner, it is necessary to request that *this complete document be returned to the Billing Unit within ten (10) working days.*

Has business closed permanently?* yes no If yes, when? 8/6/98 visit

* Permit application/service form or billing adjustment form is needed

Is there a new owner?* yes no When did this occur? _____ Who is it? _____

Is there a new or updated mailing address? yes no If yes, what is it? _____


Has business moved? yes no If yes, when? _____, what is the new location (if in Alameda County)? _____

_____ Is there a change in the E.U. # (status) or the charge code?* _____ If yes, please indicate below :

# of employees	from: _____	to: _____
# of tanks	from: _____	to: _____
E.U. #	from: _____	to: _____
E.U. #	from: _____	to: _____
HMBP volume	from: _____	to: _____
Med. Waste type	from: _____	to: _____

COMMENTS: _____

Thank you for your prompt attention to this matter.

INSPECTOR SIGNATURE 

DATE: 8/6/98

COUNTY OF ALAMEDA
HEALTH CARE SERVICES AGENCY
 ENVIRONMENTAL HEALTH BILLING
 DRAWER N ALAMEDA, CA 94501
 PHONE: (510) 567-6858
 FAX: (510) 337-1139

MAILING
ADDR.

WEYERHAEUSER PAPER CO
 C/O ACCOUNTS PAYABLE
 DRAWER X
 ALAMEDA CA 94501

PREMISES
ADDR

WEYERHAEUSER PAPER CO
 C/O ACCOUNTS PAYABLE
 1801 HIBBARD ST
 ALAMEDA CA 94501

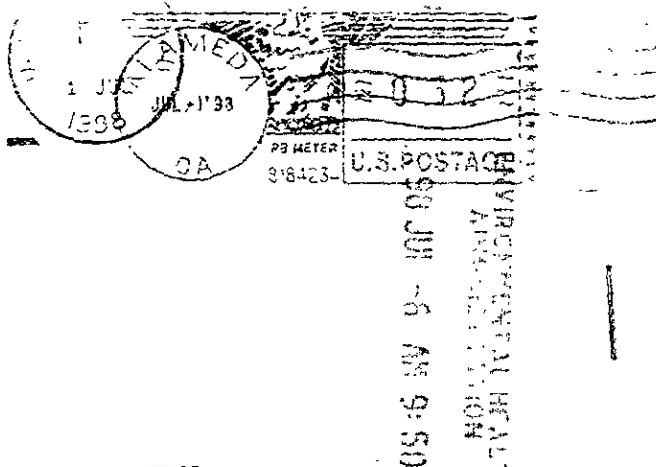
ACCOUNT NO.	SLS	PURCHASE ORDER	DUE DATE	TERMS	INVOICE DATE	PAGE
71103	1988		07/01/98	NET 30	07/01/98	1

QTY. FEE	QTY. FEE	CHARGE CODE	DESCRIPTION	AMOUNT/EA	EXT. AMOUNT
1	1	500	12,200 SQUARE FEET	120.78	120.78
1	1	010	# OF MATERIALS - 6	119.64	119.64
1	1	500	15,800 GALLONS	191.82	191.82

THIS IS YOUR 1998 ANNUAL FEE FOR THE INVENTORY OF YOUR HAZARDOUS MATERIALS. PLEASE INCLUDE A COPY OF YOUR INVOICE WITH THE PAYMENT TO PREVENT A POSTING ERROR. IF THERE WERE ANY CHANGES TO THE ABOVE SITE, PLEASE CONTACT YOUR INSPECTOR'S OFFICE AT (510) 567-6700.

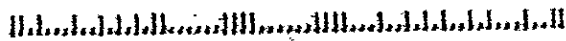
THANK YOU!

F ALAMEDA
 L HEALTH BILLING
 AMEDA, CA 94501



WEY000 945012013 1197 25 07/03/98
 FORWARD TIME EXP RTN TO SEND
 : WEYERHAEUSER
 1801 HIBBARD ST
 ALAMEDA CA 94501-1277

94501-0256 94501/0100



FEE TOTAL	432
-----------	-----

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

March 24, 1998

Mr. James E. (Mick) McCourt, Jr.
Weyerhaeuser
CHIL28
Tacoma, WA 98477

RE: Weyerhaeuser, 1801 Hibbard Street, Alameda, CA 94501

Dear Mr. McCourt:

During our meeting today, you informed me that Weyerhaeuser's last day of operation at the above site is March 27, 1998. It is my understanding that no personnel from your company will be on-site after this date. The air sparging / soil vapor extraction system may be shut off after March 27, 1998. **Please note that if a substantial increase of contaminate(s) is found in the groundwater and/or soil before site closure is obtained, the air sparging/soil vapor extraction system may have to be reactivated.**

I will complete the case closure summary for this site after I review your Site Closure Request Report.

If you have any questions, please contact me at (510) 567-6774.

Sincerely,


Larry Seto
Sr. Hazardous Materials Specialist

Cc: Brian West, West Associates, P.O. Box 5891, Vacaville, CA 95696
Files

58 MAR 17 1998

March 12, 1998

TO: Larry Seto
Alameda County Health Agency
Department of Environmental Health
Alameda

CC: James McCourt
Weyerhaeuser - Office of the Environment

FROM: Brian West
West & Associates Engineers

SUBJECT: Weyerhaeuser Paper Company
Alameda Corrugated Box Facility
1801 Hibbard Street
Alameda
STID 1202

This memo is to confirm our meeting scheduled for 2:00 PM on March 24, 1998 at the Alameda County Health Agency offices in Alameda. I will be accompanied by Mr. James McCourt of the Weyerhaeuser Corporation, Office of the Environment and possibly one individual from the Weyerhaeuser Real Estate Department.

The principal objective for this meeting will be to review recent groundwater quality data and to discuss a closure schedule.

Please call me at (707) 451-1360 with any comments.

COUNTY OF ALAMEDA
ENVIRONMENTAL HEALTH PROTECTION

HAZARDOUS MATERIAL BILLING ADJUSTMENT FORM

Stid: 1202
Date: 07/23/96

Company Name
Business Address & Telephone#

Billing Address
Owner & Telephone#

Billing
Account #

Weyerhaeuser Paper Co. 1801 Hibbard St Alameda, CA 94501 814-1147	1801 Hibbard St Alameda, CA 94501 Weyerhaeuser Co 814-1147	GEN: H51001 HMBP: _____ UST: _____
--	---	--

Request Changes: _____

Date Last Insp:

06/17/96

[] RESCIND BILL with explanation and Date (if available):

[] Generator _____

[] HMBP (AB2185) _____

[] UST _____



CONTINUE BILLING WITH FOLLOWING CHANGES:

[] Change number of Employees From: 111 To: 5

[] Change number of Tanks From: _____ To: _____

[] Change HMBP Hazmat Inventories (See Attachment)

[] UPDATED INFORMATION

Business Name: _____ Phone: _____

STID: _____

Site Address: _____

Billing Address: _____

New Owner: _____ Phone#: _____

Inspector Signature:  _____ Date: 7-7-96

Date Sent To Billing: 8/2/96

FACILITY SURVEY

Cal 7/23/96

GENERAL INFORMATION

STID # 1207
County Use Only

1. Facility Name: Weyerhaeuser paper company
2. Site Address: 1801 Hibbard Street
City: Alameda Ca Zip: 94501
3. Billing Address (if different): _____
City: _____ Zip: _____
4. Contact Person: Dana Zehrbach Phone: 814-1147
5. Business Owner Name: Weyerhaeuser Paper Co. Phone: 814-1147
6. Date you started business: 1955
7. Type of Business: Corrugated box Making 8. SIC #: _____
9. Number of Employees Handling Haz. Waste: 5 9a. Total Number of Employees 150
10. EPA ID # CA 1 000045154
11. Name of Previous Owner: Kekeffler

PERMITS Check (✓) if you have permits from any of the following:

Local Agencies:

12. Sanitary Sewer District
Name of District: East Bay Utilities District
13. City or Local Fire Dept. (Underground tanks, Hazardous Materials Business Plan)
Name of City or Dept.: Alameda
14. S.F. Regional Water Quality Control Board (NPDES - General or Individual Permit): Circle One
15. Bay Area Air Quality Management District

OTHER Please check (✓) if the following applies at your facility:

16. Acutely hazardous materials are handled.
17. 500 Lbs., 55 Gal., 200 Cu. Ft. or more of hazardous materials are handled.
18. Hazardous Materials or Hazardous Waste are contained in underground tanks.
19. The following category(s) of hazardous waste are handled at this facility:
 Toxic Corrosive Ignitable Reactive

CERTIFICATION

I hereby certify, to the best of my knowledge, that the information on this form is true and complete.

Print Name Dana B. Zehrbach Title Maintenance Supv
Signature [Signature] Date 7-3-96

white - env. health
yellow - facility
pink - files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

1131 Harbor Bay Pkwy
Alameda CA 94502
510/567-6700

Hazardous Materials Inspection Form

cont. 6/17/96

II, III

Site ID # 1202 Site Name WEYERHAEUSER Today's Date 6/17/96

Site Address 1801 HIBBARD ST.

City ALAMEDA Zip 94501 Phone _____

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

Inspection Categories:

I. Haz. Mat/Waste GENERATOR/TRANSPORTER

II. Hazardous Materials Business Plan, Acutely Hazardous Materials

III. Under ground Storage Tanks

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

Comments:

D) HAZARDOUS MATERIALS BUSINESS PLAN REQUIRES
UPDATE 2/24/94 - 30 DAYS.

A) FACILITY CONTACTS CHANGED.

B) INVENTORY OF HAZARDOUS MATERIALS INCOMPLETE.
REVIEW MISSING O₂, N₂, Ar/CO₂, INKS,
BOILER CHEMICALS, OILS

Contact _____

Title _____

Signature [Signature]

Inspector _____

Signature [Signature]

II, III

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



June 10, 1997

Mr. Brian West
West Associates
P.O. Box 5891
Vacaville, CA 95696

ENVIRONMENTAL HEALTH SERVICES

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

STID 1202

Re: Investigations at Weyerhaeuser Paper Company, located at 1801 Hibbard St., Alameda, CA

Dear Mr. West,

Per our conversation today, this office is requesting the following: 1) The next groundwater monitoring report should contain a historical sample results table for Well MW-7, as well as for Wells MW-10, MW-11, and MW-12, and a site plan including the location of Well MW-7 and the nearby surface waters; and 2) The next groundwater sample collected from Well MW-7 should be analyzed for chlorinated and semi-volatile organic compounds (SVOCs), in addition to TPHd. Chlorinateds were identified from this well during a sampling event conducted in February 1994.

Although TPHg and BTEX concentrations appear to be noticeably attenuating in most of the on-site monitoring wells, the chlorinated and naphthalene concentrations are not. The chlorinated and SVOC concentrations appear to be resulting from the site based on the fact that the highest concentrations exist immediately adjacent to the former gasoline underground storage tanks. Based on these contaminant concentrations, and the site's proximity to surface waters, this office is requesting that extra efforts be made to better characterize the extent of this chlorinateds plume, through measures such as analyzing groundwater samples from Well MW-7 for chlorinateds, and to assure that this plume will not reach any potential sensitive receptors. In working towards closure, a well survey should be conducted to assure that there are no nearby wells that may influence the plume or provide a conduit for exposure to the plume. Additionally, a risk assessment will eventually be needed to determine whether the remaining residual concentrations may pose a human health or environmental threat.

If you have any questions or comments, please contact me at (510) 567-6763.

Sincerely,

Juliet Shin
Senior Hazardous Materials Specialist

cc: John Hipner, Weyerhaeuser Co., P.O. Box Drawer X, Alameda, CA 94501

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6777

May 14, 1996

Mr. John Hipner
Weyerhaeuser Co.
P.O. Box Drawer X
Alameda, CA 94501

STID 1202

Re: Investigations at Weyerhaeuser Paper Company, located at 1801 Hibbard St., Alameda, CA

Dear Mr. Hipner,

In response to West Associates' recommendations given in the March 28, 1996 Quarterly Groundwater Monitoring Report for the above site, the frequency of EPA Method 624 and 625 analysis for groundwater samples may be switched from quarterly to semi-annual. This office would like you to hold off on switching the frequency of these analyses to annual until we obtain more information to determine whether the recently installed vapor extraction and air sparge systems will help remediate these halogenated and polynuclear aromatic hydrocarbon concentrations.

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If you have any questions or comments, please contact me at (510) 567-6763.

Sincerely,

Juliet Shin
Senior Hazardous Materials Specialist

cc: Ed Granados, Weyerhaeuser, mail stop CH 1K29, Tacoma, WA 98477

Brian W. West, West Associates, P.O. Box 5891, Vacaville, CA 95696

Acting Chief-File

05/01/96

WATER RESOURCES CONTROL BOARD
LUSTIS FINANCIAL TRACKING
UPDATE SITES

FIN210S1

**** LEAVE AGENCY NAME BLANK TO EXIT ****

AGENCY Name: ALAMEDA 01000
 CONTRACT NO: 0179550 SOURCE OF FUNDS (S/F):F SUBSTANCE: 8006619
 SITE NO: 1202
 SITE NAME: WEYERHAEUSER PAPER CO DATE REPORTED: 02/07/91
 STREET ADDR: 1801 HIBBARD ST DATE CONFIRMED: / /
 CITY/ZIP: ALAMEDA 94501- MULTIPLE RP'S: N

RESPONSIBLE PARTY LAST UPDATE
 RP Name: WEYERHAEUSER CO Date: 04/30/96
 RP Company: JOHN HIPNER Source: RP
 Optional Line:
 Street Addr: PO BOX DRAWER X
 City/St/Zip ALAMEDA CA 94501-

Add Change Delete First Last Next Print Quit Show Undelete

Handwritten signature/initials

Also, for site 2372, change contact to Phil Briggs

Post-it* Fax Note	7671	Date	5-1	# of pages	1
To:	Tom	From:	Lari		
Co./Dept.		Co.			
Phone #		Phone #			
Fax #	12	Fax #			

→ Please update your records with new contact name

LOP RECORD CHANGE REQUEST FORM

printed:
05/02/96

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

Insp: JMS

AGENCY # : 10000 SOURCE OF FUNDS: F SUBSTANCE: 8006619
StID : 1202 LOC:
SITE NAME: Weyerhaeuser Paper Co. DATE REPORTED : 02/07/91
ADDRESS : 1801 Hibbard St DATE CONFIRMED:
CITY/ZIP : Alameda 94501 MULTIPLE RPs : N

SITE STATUS

CASE TYPE: G CONTRACT STATUS: 4 PRIOR CODE:3A2 EMERGENCY RESP:
RP SEARCH: S DATE COMPLETED: 03/30/92
PRELIMINARY ASMNT: U DATE UNDERWAY: 10/15/91 DATE COMPLETED:
REM INVESTIGATION: DATE UNDERWAY: DATE COMPLETED:
REMEDIAL ACTION: U DATE UNDERWAY: 02/28/96 DATE COMPLETED:
POST REMED ACT MON: DATE UNDERWAY: DATE COMPLETED:

ENFORCEMENT ACTION TYPE: 1 DATE ENFORCEMENT ACTION TAKEN: 03/30/92
LUFT FIELD MANUAL CONSID: 3HSC
CASE CLOSED: DATE CASE CLOSED:
DATE EXCAVATION STARTED : 02/27/91 REMEDIAL ACTIONS TAKEN: ED,VE,AS

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: John Hipner
COMPANY NAME: Weyerhaeuser Co.
ADDRESS: P O Box Drawer X
CITY/STATE: Alameda, C A 94501

INSPECTOR VERIFICATION:

NAME _____ SIGNATURE _____ DATE _____

DATA ENTRY INPUT:

Name/Address Changes Only

Case Progress Changes

ANPNPGMS _____ LOP _____ DATE _____

LOP _____ DATE _____

THIS MEMORANDUM

is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record. RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described on the Original Bill of Lading.

FROM: (Company Name) **SHELL OIL COMPANY**

A2 5505 Stevenson	DATE SHIPPED	SHIPPER'S NO. 409451
CROSSBY & OVERTON, INC	CARRIER	

CONSIGNED TO (Mail or street address for notification only) SHELL OIL COMPANY MARTINEZ MANUFACTURING COMPLEX MARSH VISTA NORTH GATE MARTINEZ, CA 94553	the property described below in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route; otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of such party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said Bill of Lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns. If this document evidences a delivery by shipper's truck or into consignee's truck, it is not a bill of lading but consignee's receipt for the delivery.	Subject to Section 7 of Conditions of applicable bill of lading if this shipment is to be delivered to the consignee without recourse on the consignee the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. (Signature of Consignor) <input type="checkbox"/> PREPAID <input type="checkbox"/> COLLECT
--	--	--

ROUTE	ORDER NO. REL	SHIPPING MEMO <input type="checkbox"/> NO. <input type="checkbox"/> MATERIAL TRANSFER
ROUTE CODE	CAR/TRUCK NO.	CUSTOMER ORDER NO.

PACKAGES NO.	KIND	HM	DESCRIPTION OF MATERIALS, SPECIAL MARKS AND EXCEPTIONIONS <small>PLACE "X" IN HM COLUMN IF MATERIAL IS DOT HAZARDOUS</small>	WEIGHT* <small>Subject to correction</small>	CLASS OR RATE	TOTAL VALUE OF ITEMS	NEW	USED
1	VACUUM TRUCK	X	Flammable liquid, n.o.s. UN1993 MOTOR OILS & GREASES GASOLINE WATER DIESEL USE "FLAMMABLE" PLACARDING REFERENCE 1984 "RECYCLEABLE MATERIAL"	4000				
			◀ TOTAL NO. OF PACKAGES	TOTAL WEIGHT ▶				

COLLECT ON DELIVERY	REMIT TO	C.O.D. CHARGE TO BE PAID BY
\$		<input type="checkbox"/> SHIPPER <input type="checkbox"/> CONSIGNEE
APPLYING TO	PURCHASE ORDER NO.	INVOICE NO.
B/O DEMON-73506		
SETTLEMENT BASIS	REASON FOR SHIPMENT	
<input type="checkbox"/> CREDIT MEMO <input type="checkbox"/> CASH SALE <input type="checkbox"/> MEMO		
ISSUE BILLING TO	SHIPMENT AUTHORIZED BY	

MAIL FREIGHT BILL IN DUPLICATE WITH NO. 3 COPY OF BILL OF LADING TO

SHELL OIL COMPANY ATTN: DISBURSEMENTS, PO BOX 444, MARTINEZ, CA 94553

FOR PRODUCT EMERGENCY Spill, Leak, Fire, Exposure or Accident CALL CHEMTREC - DAY OR NIGHT	800-424-9300	SHIPMENTS VIA <input checked="" type="checkbox"/> MOTOR CARRIER <input type="checkbox"/> SHIPPER <input type="checkbox"/> CARRIER
--	---------------------	--

* If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight"

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding 150¢ per pound where the rate is dependent on value
Description and gross weight thereof as shown herein are correct, per Agreement filed with Weighing and Inspection Bureau, if applicable.
This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

SHIPPER (Company Name) SHELL OIL COMPANY	CARRIER CROSSBY & OVERTON, INC
SHIPPER	PER <i>[Signature]</i> AGENT
MATERIAL RECEIVED	DATE RECEIVED

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, DIRECTOR

September 29, 1995

Ed Granados
Weyerhaeuser
mail stop CH 1K29
Tacoma, WA 98477

STID 1202

Re: Work plan for investigations at the Weyerhaeuser Paper
Company, located at 1801 Hibbard St., Alameda, CA

DEPARTMENT OF ENVIRONMENTAL HEALTH

1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6777

Dear Mr. Granados,

This office has reviewed West Associates' work plan, dated September 25, 1995, for the above site. This work plan is acceptable to this office with the following additional comments/requirements:

- o The work plan states that "it was determined that in-lab handling of the sandy site soils resulted in the loss of volatiles observed in the analytical results." Therefore, in order to properly characterize soil contaminant concentrations at the site, this office is requesting that some of the sidewall soil samples collected from the proposed excavation be analyzed using the "fuel fingerprint in air" method that was utilized for site soil samples in January 1994. Per my conversation with Brian West, West Associates, these "fuel fingerprint in air" analyses should be compared with the results of standard soil analysis to determine whether there is a significant difference in results. If a significant difference is noted between the two different methods, it may be possible to develop a conversion table from concentration by volume to the appropriate units of concentration by weight.

It is the understanding of this office that field work will begin as soon as possible to avoid the rainy weather. Please notify this office when field work begins.

If you have any questions or comments, please contact me at (510) 567-6763.

Sincerely,

Juliet Shin
Senior Hazardous Materials Specialist

Mr. Ed Granados
Re: 1801 Hibbard St.
September 29, 1995
Page 2 of 2

cc: Brian W. West
West Associates
P.O. Box 5891
Vacaville, CA 95696

Acting Chief-File

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, Assistant Agency Director

February 8, 1995

Mr. Steven Mindt
P.O. Box Drawer X
Alameda, CA 94501

ALAMEDA COUNTY CC 430-4510
DEPT. OF ENVIRONMENTAL HEALTH
ENVIRONMENTAL PROTECTION DIVISION
1131 HARBOR BAY PKWY., RM. 250
ALAMEDA, CAL. 94502-6577

STID 1202

Re: Investigations at 1801 Hibbard St., Alameda, California

Dear Mr. Mindt,

This office has reviewed West & Associate's (West) Site Investigation Report, dated January 1995, for the above site.

In this report, West proposes to address the remediation of the contaminant plume with a vapor extraction system, in conjunction with an air sparging system. This remedial approach is acceptable to this office. Per West's proposal, a vapor extraction pilot test will be conducted out at the site, and the results of this pilot test will be submitted for the County's review and approval prior to employing this remediation system at the site.

If the vapor extraction/air sparging system is implemented, careful monitoring of this system will be required to assure that the air sparging is not expediting plume migration through the compression of air into the plume.

Please be reminded that quarterly ground water monitoring should continue at the site until the site qualifies for closure. Any changes in the monitoring frequency shall be approved by this office. In this report, West proposes to analyze future quarterly ground water samples for Total Petroleum Hydrocarbons and BTEX. Based on the levels of chlorinated hydrocarbons identified from most of the wells during the February 1994 sampling event, all monitoring wells shall also be analyzed for chlorinated hydrocarbons in the next quarterly sampling event. Subsequent analysis for chlorinated hydrocarbons will be dependent on the concentrations identified in each of the monitoring wells. Additionally, naphthalene was identified in Wells MW-2 and MW-3 during the February 1994 sampling event. Therefore, analysis of future samples collected from these wells shall include the analysis for naphthalene.

Mr. Steven Mindt
Re: 1801 Hibbard St.
February 8, 1995
Page 2 of 2

The pilot test should be conducted within 45 days of the date of this letter. A report documenting the pilot test results shall be submitted to this office within 30 days after completing field activities.

Lastly, please be reminded that all of the monitoring wells eventually need to be surveyed to Mean Sea Level for the County's records.

If you have any questions or comments, please contact me at (510) 567-6763.

Sincerely,



Juliet Shin
Senior Hazardous Materials Specialist

cc: Brian West
West Associates
P.O. Box 5891
Vacaville, CA 95696

Edgar Howell

94 NOV -6 PM 3:24

October 27, 1994

Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502
Attn: Ms. Juliet Shin
Hazardous Materials Specialist

**SUBJECT: REPORT OF FINDINGS, ADDITIONAL SOILS INVESTIGATION,
WEYERHAEUSER ALAMEDA FACILITY, 1801 HIBBARD STR., STID 1202**

Dear Ms. Shin,

West & Associates Environmental Engineers, Inc. has completed additional soils investigations at the Weyerhaeuser Alameda facility (cited above) as proposed in our supplemental workplan of May 9, 1994. The results of our investigations and proposals for future actions are summarized in this correspondence.

Two slant borings under the main plant building were attempted at the WPC Alameda facility on September 28, 1994. Pavement corings were made adjacent to existing monitoring well MW-3 for boring SB-1 and next to MW-9 for SB-2. Coring locations are indicated on Figure 1 (attached). Utilizing hand auger equipment, angled borings under the building foundation were attempted. Refusal was encountered within the upper two feet in boring SB-1. Boring SB-2 was successful.

Ten feet of hole was completed in boring SB-2. The boring was terminated at groundwater (8.5 feet BGS). The angled hole extended laterally 2 feet under the building foundation and 12 feet further south relative to MW-3.

Obvious gasoline contamination was encountered throughout the entire length of the slant boring. Soil cuttings registered over 1,000 PPM on a calibrated PID.

A small quantity of groundwater was bailed from the bottom of the hole. The bailer headspace registered 250 PPM based on PID measurement.

No soil or groundwater samples were collected for laboratory analysis. Field measurements were sufficient to characterize soil and groundwater conditions in the boring.

It must be concluded that soil and groundwater contamination extend well under the main plant building. Further site investigation will require borings completed through the floor of the machine shop.

WEYERHAEUSER ALAMEDA SUPPLEMENTAL SOILS INVESTIGATION, Page 2

It is proposed to perform additional soils and groundwater investigations from within the main plant building. Specifically, it is proposed to construct a groundwater monitoring well (MW-12) in the machine shop as located on Figure 1 (attached). The new well would be installed as per the specifications contained in our site investigation workplan of November 1993 (reiterated in our letter of July 29, 1994).

Due to the shallow depth to groundwater ^{sample all the way down.} under the Weyerhaeuser Alameda site, it is proposed to continuously core the monitoring well boring from ground surface to the capillary fringe. In the event soil or groundwater contamination is encountered in the first machine shop boring, the monitoring well location will be relocated 10 feet further south. *(A minimum of 2 soil samples will be taken to lab for analysis)*

Successful installation of a groundwater monitoring well on the south side of the contaminant plume will conclude site investigation activities at the Weyerhaeuser Alameda facility. We propose to submit a comprehensive site investigation report containing specific recommendations for soil and groundwater remediation to the Alameda Health Care Agency before the end of the year.

For any additional information please contact me at (707) 451-1360.

Yours truly,



Brian W. West PE
West & Associates Environmental Engineers, Inc.

BWW/es

Enclosure: Site diagram

cc: Ms. Jennifer Strachan, Office of the Environment, Tacoma

Discussion w/ Brian West on Nov 23 94 {
- Used to be dispenser in building w/ product lines running w/ vent lines from tanks into bldg to dispenser.
- Well will be installed by end of Dec 94, but need concurrence from our office

Leaking Underground Fuel Tank Data Collection Checklist

LUSTIS

Local Agency

RWQCB

Lead Agency

SITE: WEYERHAUSER

ADDRESS: 1801 HIBBARD ST

CITY: ALAMEDA COUNTY: ALAMEDA

REG. BOARD No: 02

REVIEWED BY: Thomas Pearce Alber
(Name) (Agency)

DATE: 12-29-94

I. RELEASE INFORMATION (FROM TECHNICAL REPORTS OR OTHER FILE DOCUMENTS)

a) Check type of product(s) which leaked: Gasoline Diesel Waste Oil
 Other _____

b) Was source of leak identified? YES **NO**
 If YES, check source location(s): Tank Piping Overfill
 Other _____

c) Was rate of release estimated? YES **NO**
 If YES, specify rate: _____

d) Was mass/volume of release estimated? YES **NO**
 If YES, specify mass/volume (note unit of measurement): _____

e) Was tank removed? **YES** - NO
 If YES, specify date removed: _____

COMMENTS: _____

II. SITE INVESTIGATION INFORMATION (FROM REPORTS OR OTHER FILE DOCUMENTS)

a) Was "free product" reported? YES **NO**
 If YES, check location(s) where free product was noted: Excavation Soil Sample
 Monitoring Well

If MONITORING WELL, specify maximum thickness reported (note unit of measurement): _____

b) Was a soil vapor survey conducted? YES NO

c) Was an aquifer test (e.g., pumping or slug test) performed? YES NO

d) Number of monitoring wells installed at the site 10

e) Number of soil (or "Hydropunch") borings NOT completed as wells 4

COMMENTS: _____

III. REMEDIATION INFORMATION (FROM TECHNICAL REPORTS OR OTHER FILE DOCUMENTS)

a) Was source area "over-excavated"? YES NO

If YES, specify volume of soil removed or dimensions of excavation: _____

b) Check [X] if any other active remediation at site:

	Date Started	Date Stopped
<input type="checkbox"/> Soil Vapor Extraction/Bioventing _____		
<input type="checkbox"/> Pump and Treat _____		
<input type="checkbox"/> Air sparging _____		
<input type="checkbox"/> Hydrogen peroxide injection _____		
<input type="checkbox"/> Nutrient injection _____		
<input type="checkbox"/> Slurry wall _____		
<input type="checkbox"/> Other _____		

Mass/volume of free product removed (if applicable) _____

Mass/volume of dissolved product removed (if applicable) _____

COMMENTS: _____

IV. INFORMATION ITEMS TO COPY FROM REPORTS OR OTHER FILE DOCUMENTS, INCLUDING TABLES, FIGURES ETC. (check [X] if available)

- Leak history narrative (including most recent summary account of remedial actions to date, if available)
- Site map(s) showing leak "source" area(s)
- Site map(s) showing monitoring well locations
- Site map showing representative ground water elevation contours
- Site map(s) showing pollution concentration isocontours in ground water (initial and most recent)
- Site map(s) showing soil boring locations (if not present on any of the above maps)
- Site map(s) showing isocontours of benzene concentration in soil at representative depths
- Ground water sample analytical data from each well through time (i.e. time series)
- Ground water elevation and depth-to-groundwater measurements from wells thru time (i.e. time series)
- Soil analytical data from tank pit (including over-excavation confirmation samples)
- Soil analytical data from soil boring samples
- Soil boring logs
- Monitoring well construction logs
- Geologic cross-sections
- Aquifer yield test data (e.g., results from pumping or slug tests)
- Other soil or ground water test data (e.g., porosity, soil moisture content, TOC, cone penetrometer, etc.)
- Soil vapor analytical data (if available), including site map showing soil vapor survey locations
- Biological indicator parameters (e.g., dissolved oxygen, etc.), if available
- Local "background" ground water quality, if available

COMMENTS: _____

By LFZ

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardous Materials Division Inspection Form

Site ID# 1202 Site Name Weyerhaeuser Paper Today's Date 1/13/94

Site Address 1801 Hibbard St. EPA ID#

City Alameda, CA Zip 94501 Phone

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

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

Table with 3 columns: Category (Generator, Manifest, Misc., Prevention, Contingency, Containers/Tanks), Item Number, and Item Description/Code.

Comments: Out at site to witness removal of 20,000-gallon diesel UST. Groundwater was observed in the pit. The depth of pit is ~10' bgs. The tank looked to be in fairly good condition w/ most of the tank wrapping still on tank. No apparent holes. Some stained soil on bottom of pit, and on north and south walls. The UST was used as a standby for the boiler, & was connected to a dispenser to the west. The fill and was a remote fill. UST was hauled off under -> Manifest # 92745089. One soil sample collected from the backfill in the 19' of piping trench east of the pit. (Native soil was too deep to be accessible w/ hand auger). Product was noted on groundwater in pit. All samples will be analyzed for gas, diesel, and BTEX. Requested Mr. West to excavate out as much of the stained backfill as possible before groundwater recharges into pit. Soil sample collected from bottom of pit at north/north east end, at 14' bgs, and one sample collected from sidewall at same end, in stained soil at ~7' bgs. (PID = 60 ppm on sidewall sample). For today, the stockpiled

Table with 3 columns: Category (Generator, Manifest, Cont'n), Item Number, and Item Description/Code.

Contact: Brian West Title: President Signature: Brian West Inspector: Juliet Shin Signature: Juliet Shin

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardous Materials Division Inspection Form

Pa 2 of 2

Site ID# 1202 Site Name Weyerhaeuser Paper Today's Date 1/13/91

Site Address 1801 Hibbard St. EPA ID# _____

City Alameda, CA Zip 94501 Phone _____

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

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

- Manifest
- 6. Records 66492
 - 7. Correct 66484
 - 8. Copy sent 66492
 - 9. Exception 66484
 - 10. Copies Rec'd 66492

- Misc.
- 11. Treatment 66371
 - 12. On-site Disp. (H.S.&C.) 26189.5
 - 13. Ex Haz. Waste 66570

- Prevention
- 14. Communications 67121
 - 15. Aisle Space 67124
 - 16. Local Authority 67126
 - 17. Maintenance 67120
 - 18. Training 67105

- Confin. gency
- 19. Prepared 67140
 - 20. Name List 67141
 - 21. Copies 67141
 - 22. Emg. Coord. Tmg. 67144

- Containers, tanks
- 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. Reboard 67257

I.B. TRANSPORTER (Title 22)

- 32. Applic./Insurance 66428
- 33. Comp. Cert./CHP Insp. 66448
- 34. Containers 66465

- Manifest
- 35. Vehicles 66465
 - 36. EPA ID #s 66531
 - 37. Correct 66541
 - 38. HW Delivery 66543
 - 39. Records 66544

- Cont'n
- 40. Name/ Covers 66545
 - 41. Recyclables 66800

Comments:

Soil will be backfilled into pit, to allow access for backhoe at south end of pit. Then, tomorrow, the backfill will be reexcavated out to 14' bgs, sampled appropriately, and stored on site, covered. Sample collected from bottom of pit in the center. Sample had odor. All samples have consisted of well graded sand. Sample collected from ~14' bgs, south end sample, on side of Boma Unit, was collected from ~14' bgs. No odor but some staining. The piping trench on the west side of pit is ~35' bgs long. One soil sample was collected beneath former dispenser at ~3' bgs. (The backfill in the trench will be excavated out.) Slight odor from trench, but none from sample dispenser. Some asphalt at bottom of trench. (Earlier this pit was temporarily backfilled w/ material from pit to create access for crane, so the backfill couldn't be sampled). Soil sample, "Trench 2" was collected @ ~2' bgs. Soil was ~rust colored/brown. No odor in sample. Site will wait for sample results before backfilling.

Rev 6/88

Contact: Brian West
Title: President
Signature: Brian West

Inspector: Juliet Shin
Signature: Juliet Shin

ACCEPTED
DEPARTMENT OF ENVIRONMENTAL HEALTH
11/22/92

*Subject: Sevin 11/22/92
Please comply w/ comments
in red ink*

UNDERGROUND TANK CLOSURE PLAN

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

1. Business Name Weyerhaeuser Paper Company
Business Owner Weyerhaeuser Paper Company
 2. Site Address 1801 Hibbard St.
City Alameda Zip 94501 Phone 510-814-1160
 3. Mailing Address P.O. Box Drawer X
City Alameda Zip 94501 Phone 510-814-1160
 4. Land Owner Weyerhaeuser Paper Company
Address 1801 Hibbard St. City, State Alameda, CA Zip 94501
 5. Generator name under which tank will be manifested Weyerhaeuser
- EPA I.D. No. under which tank will be manifested CAL000045154

6. Contractor All Chemical Disposal, Inc.

Address 941 Berryessa Road, Suite D

City San Jose, CA 95133

Phone 408-453-1660

License Type* ENG A/HAZ

ID# 599864

*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 West & Associates

Address P.O. Box 5891

City Vacaville, CA 95696

Phone 707-451-1360

8. Contact Person for Investigation

Name Mike Bourassa

Title Environ. Supervisor

Phone 510-814-1160

9. Number of tanks being closed under this plan one

Length of piping being removed under this plan less than 40'

Total number of tanks at facility one

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 Allied Oil & Pumping EPA I.D. No. CAT080014277

Hauler License No. 2477 License Exp. Date 7-31-94

Address P.O. Box 32128

City San Jose State CA Zip 95152

✓ b) Product/Residual Sludge/Rinsate Disposal Site

Name Refinery Services EPA I.D. No. CAD083166728

Address 13331 North Highway 33

City Patterson State CA Zip 95363

c) Tank and Piping Transporter

Name All Chemical Disposal, Inc. EPA I.D. No. CAD982492399
Hauler License No. 2914 License Exp. Date Nov. 1994
Address 941 Berressa Road, Suite D
City San Jose State CA Zip 95133

d) Tank and Piping Disposal Site

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

11. Experienced Sample Collector

Name Brian West
Company West & Associates
Address P.O. Box 5891
City Vacaville State CA Zip 95696 Phone 707-451-1360

12. Laboratory

Name Coast to Coast Analytical
Address 2059 Junction Ave.
City San Jose State CA Zip 95131
State Certification No. 1204

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

400 lbs of Dry Ice to be inserted into tank after tank has been pumped

Inert down to < 10 ppm UEL }
 < 10 ppm O₂ }

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)		
20,000	Diesel for Boiler	Soil 3 or more → Soil samples required beneath tank. Groundwater (if encountered)	Beneath Tank 1 to 2 feet below backfill/native soil interface from groundwater in the excavation

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	
Stockpiled Soil Volume (Estimated) 100 yd ³	Sampling Plan <i>document</i> One sample for 20 yd ³ of <i>material to remove soil</i>

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
Diesel		Soil TPH Diesel 3550 BTX&E 8020	As required for DHS Certified Laboratories
		Water TPH Diesel GCFID (3510) BTX & E 602 or 624	→ 50 ppb (K20) → 0.5 ppb (K20)

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

Name of Insurer Golden Eagle Insurance Company

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) Dave Escover

Signature 

Date 12-13-93

Signature of Site Owner or Operator

Name (please type) for Weverhaeuser Paper Company, Steve A. Mindt

Signature 

Date 12/13/93

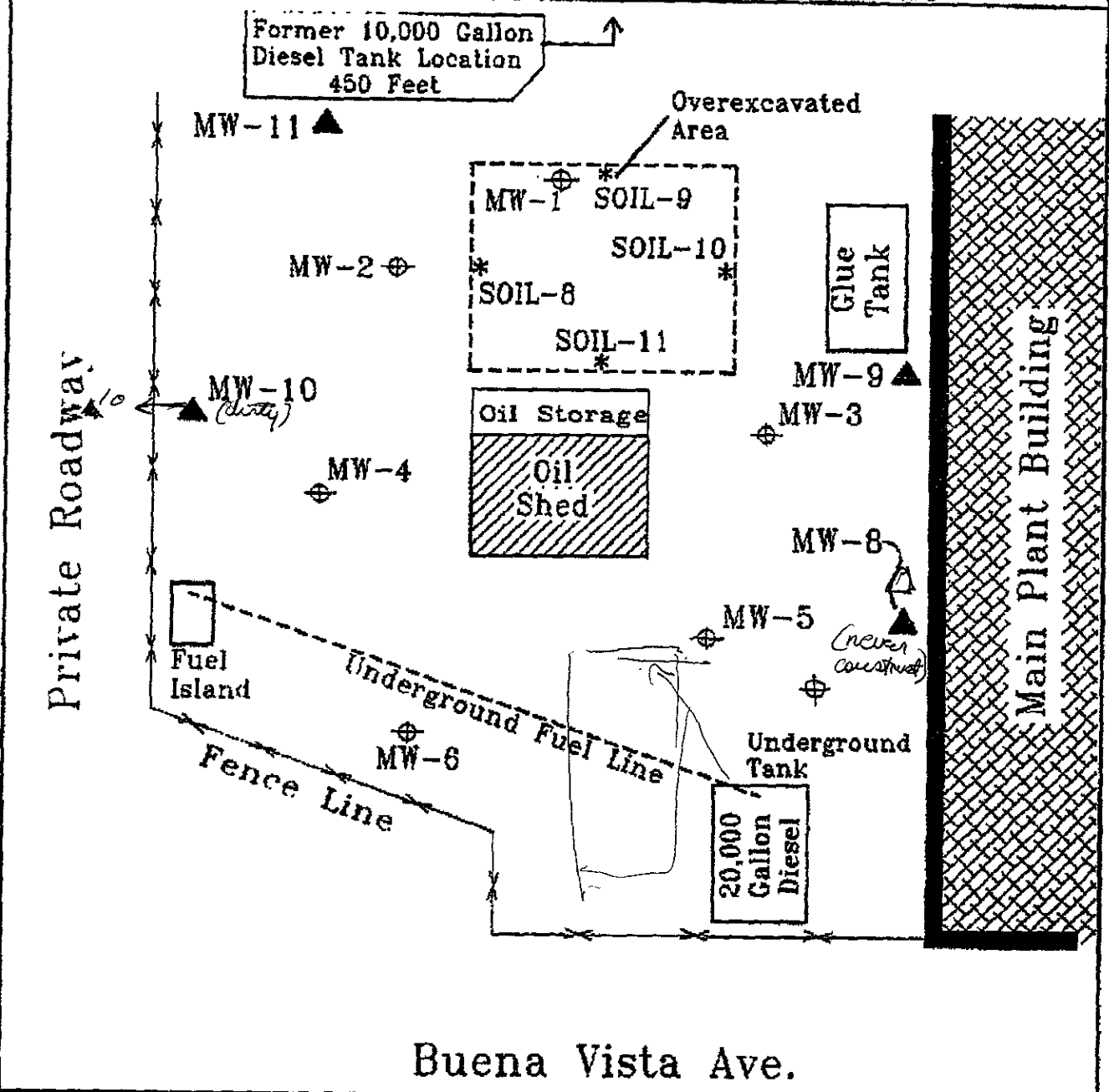
WEST & ASSOCIATES ENVIRONMENTAL ENGINEERS, INC.

PO Box 5891, Vacaville, California 95898

Project Name: Weyerhaeuser - Alameda 70288.01

Location: 1801 Hibbard Str., Alameda, CA 94501

Drawing By: BWW Date: Nov., 1993 Scale: 1" = 20'



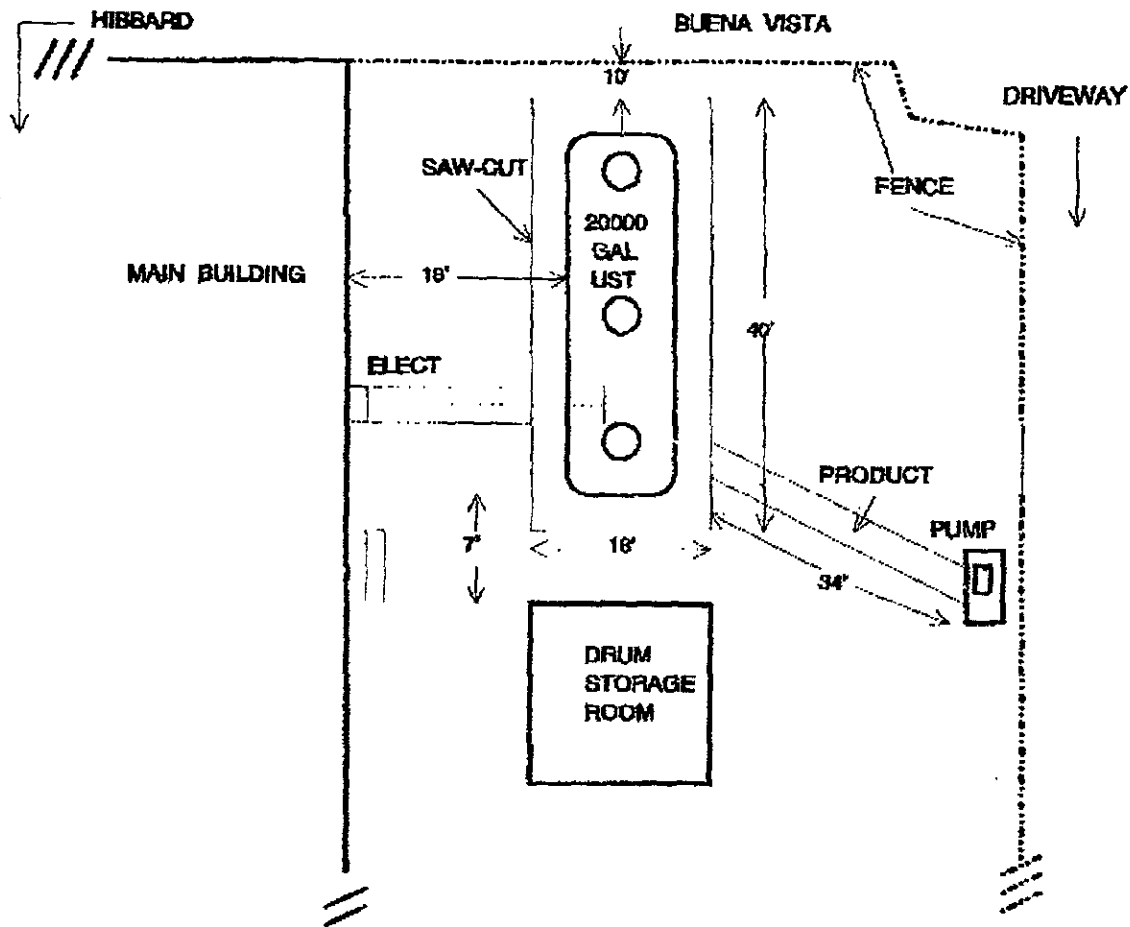
Buena Vista Ave.



LEGEND

- ⊕ Existing Well
- ▲ Proposed Monitoring Well Location
- * Sidewall Soil Sample Location

Figure 4



PARTIAL PLOT PLAN

WEYERHAEUSER FACILITY
1801 HIBBARD STREET
ALAMEDA, CALIF. 94501
DECEMBER 8, 1993

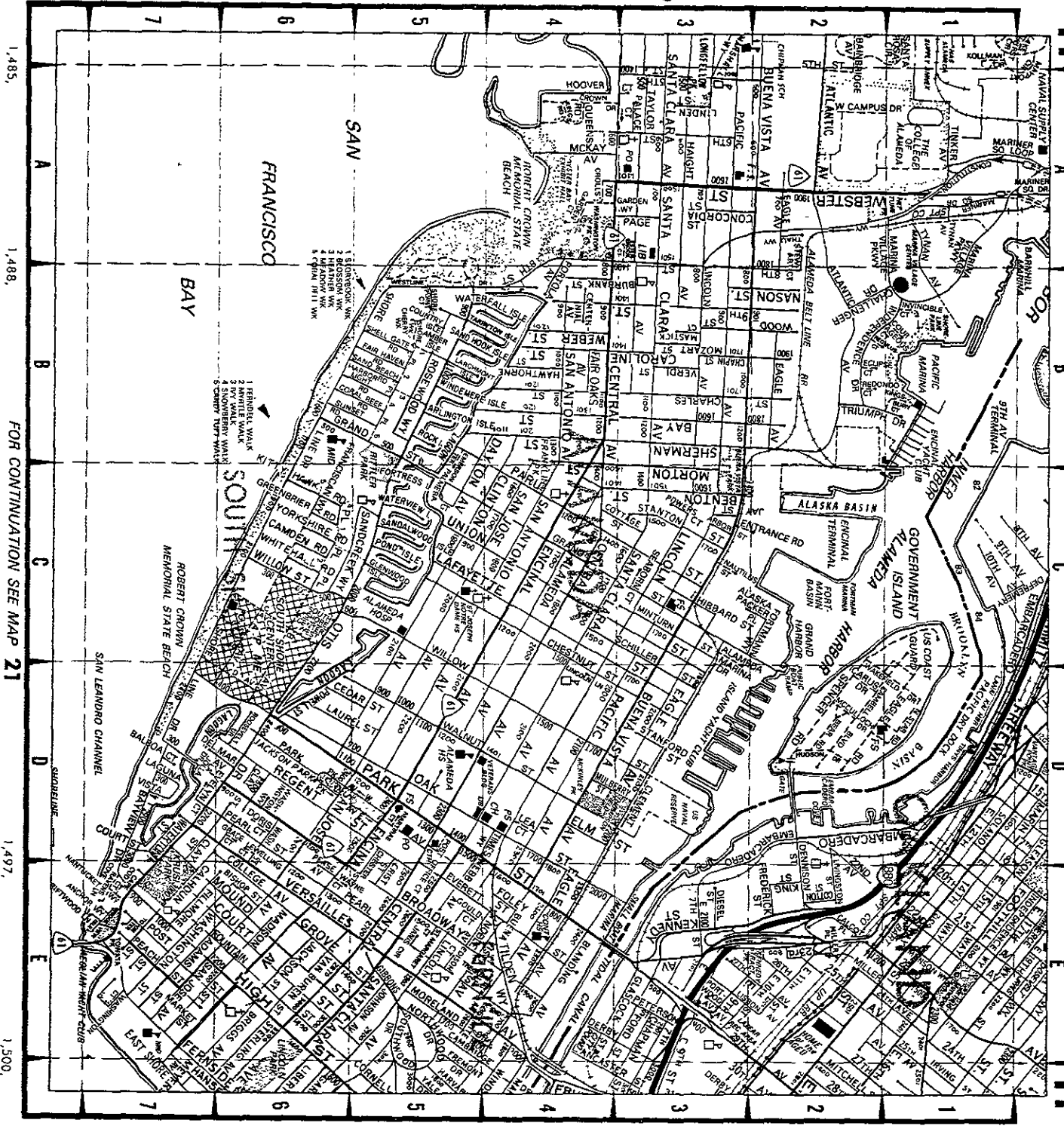
SCOPE OF WORK

- A. Saw-cut, remove, dispose concrete at UST and elect & product lines. Replace after removal
- B. Remove UST, piping & dispenser, proper disposal. Backfill and compact as needed.
- C. Cut-back & cap electrical and plumbing.

DRW WEYER

D Escobar

FOR CONTINUATION SEE MAP 8



FOR CONTINUATION SEE MAP 12

DETAIL

ALAMEDA CO.

1,485,
1,488,
FOR CONTINUATION SEE MAP 21
1,497,
1,500.

460,
462,
464,
470,
472,
474.

SITE SAFETY MEETING

PROJECT: 35514	DATE: TBA		
CLIENT: Hansen & Associates	CONTACT: Michael Bourassa		
LOCATION: 1801 Hibbard St., Alameda, CA 94501			
PROJECT DESCRIPTION:			
<input type="checkbox"/> Lab Pack <input type="checkbox"/> Consolidation <input type="checkbox"/> Sampling <input checked="" type="checkbox"/> Tank Removal <input type="checkbox"/> Decontamination <input type="checkbox"/> Excavation <input type="checkbox"/> Other: _____			
EMERGENCY RESPONSE INFORMATION:			
Client Emergency Number: <u>-0-</u>			
Fire Department/EMT: <u>911</u>			
Local Medical Facility/Hospital: <u>Alameda Hospital, 2070 Clinton Ave.</u>			
Evacuation Route: _____			
Location of Safety Shower/Eye Wash? <u>In tank area</u>			
SITE CHARACTERIZATION: (*More extensive site characterization required)			
<input type="checkbox"/> Unknown Situation* <input type="checkbox"/> Confined Space Entry* <input type="checkbox"/> Potentially Explosive Situation* <input type="checkbox"/> IDLH Conditions* <input type="checkbox"/> Oxygen Deficiency (<19.5%)* <input type="checkbox"/> Potential exposure over TLV or PEL* <input type="checkbox"/> Extremely/Acutely Hazardous Materials <input type="checkbox"/> Chemical Hazards (circle as appropriate) Flammables Reactives Incompatibles Acids Bases Poisons Carcinogens Other: <u>Combustibles</u>			
<input checked="" type="checkbox"/> Physical Hazards (circle as appropriate) <u>Heavy Objects</u> <u>Overhead Hazards</u> <u>Tripping/Falling Hazards</u> <u>Debris</u> Other: _____			
<input checked="" type="checkbox"/> Other Hazards (circle as appropriate) <u>Heat Stress</u> <u>Noise</u> <u>Equipment Operations</u> <u>Fire/Explosion</u> <u>Spills</u> Other: _____			
PERSONAL PROTECTIVE EQUIPMENT: (*Extensive site characterization required)			
<input type="checkbox"/> LEVEL A: Highest level of respiratory, skin, and eye protection required* <input type="checkbox"/> LEVEL B: Level A respiratory protection; lower level skin protection required* <input type="checkbox"/> LEVEL C: Level B skin protection; lower level of respiratory protection (air purifying respirator) <input type="checkbox"/> LEVEL D: No respiratory protection required; minimal skin protection required			
Respiratory Protection <input type="checkbox"/> SCBA/SAR <input checked="" type="checkbox"/> Respirator (full/half) Cartridges: <u>organic</u> if needed Other PPE Required: Steel toed boots	Body Protection <input checked="" type="checkbox"/> Cloth <input type="checkbox"/> Tyvek suit <input type="checkbox"/> Poly-Tyvek <input type="checkbox"/> Other: _____	Eye Protection <input checked="" type="checkbox"/> Safety Glasses <input type="checkbox"/> Goggles <input type="checkbox"/> Face Shield <input type="checkbox"/> Other: _____	Hand Protection Inner Gloves <input type="checkbox"/> Cotton <input checked="" type="checkbox"/> Latex Outer Gloves <input checked="" type="checkbox"/> Leather <input type="checkbox"/> Nitrile <input type="checkbox"/> Latex <input type="checkbox"/> Other: _____

PROJECT LEADER: Dave Escover

FIELD OPERATIONS PERSONNEL:

Reporting Accidents/Injuries/Illnesses

Any accident, injury, or illness which is related to on the job activity is to be reported to a supervisor immediately. The President, Vice-President, and designated personnel will investigate all incidents resulting in an accident, injury or illness. Based on the investigation, operating procedures, safe practices, and other activities may be modified, including, but not limited to this Health & Safety Plan.

Any accident, injury, or illness which may involve a workman's compensation insurance claim will be reported to the All Chemical Disposal, Inc. insurance carrier as soon as possible after the incident occurred.

Any incident resulting in lost time or death, will be reported to Cal/OSHA, as well as to the workman's compensation insurance company.

IV. PERSONAL PROTECTIVE EQUIPMENT (PPE) PROGRAM

Most All Chemical Disposal, Inc. projects involve working in hazardous situations. In those cases, personal protective clothing and equipment will be provided by All Chemical Disposal, Inc., at no cost to the employee. All PPE and clothing shall conform to American National Standards Institute (ANSI).

All Chemical Disposal, Inc. will ensure that the design & quality of PPE are adequate to fulfill its function prior to an item being purchased or used.

All Chemical Disposal, Inc. will evaluate the effectiveness of this PPE Program on at least an annual basis.

Supervisor responsibilities:

- No work shall be done until specified PPE is used,
- Setting example by wearing PPE,
- Equipping employees/visitors with appropriate PPE,
- Demonstrating proper use of PPE, and
- Requiring proper fitting, adjustment, maintenance of PPE and prompt replacement of PPE that is worn out or damaged

Selection of PPE

Personal protective equipment shall be selected and used, based on an evaluation of the performance characteristics of the PPE relative to the requirements and limitations of the site, the task specific conditions and duration, and the hazards and potential hazards identified at the site.

There are four levels of personal protection, depending upon the working conditions. These levels have been set up as Levels A, B, C, and D, with Level A equipment worn for the most hazardous working situation. Combinations of personal protective equipment other than those described for Levels A, B, C, and D protection, as outlined in Appendix A, may be more appropriate and may be used to provide the proper level of protection.

The level of protection provided by PPE selection shall be increased when additional information on site conditions indicates that increased protection is necessary to reduce employee exposures below permissible exposure levels for

hazardous substances and health hazards. Likewise, the level of protection provided may be decreased when additional information or site conditions show that decreased protection will not result in hazardous exposures to employees.

Medical Considerations

The use of PPE can often create significant worker hazards, such as heat stress, physical and psychological stress, and impaired vision, mobility and communication. Personal protection will be carefully selected to provide adequate protection. Over protection as well as under protection can be hazardous and will be avoided.

Before beginning any project, the project leader will discuss medical considerations such as heat stress, impaired mobility, etc., with employees before commencing work. Project leader will review signs and symptoms of exposure, heat stress, and other hazards related to the wearing of PPE.

Types of Personal Protective Equipment

All PPE is supplied and distributed to personnel requiring such protection. Any employee needing training in the proper use and fit of PPE will be provided such training by the project leader. It is the responsibility of the employees to maintain equipment as clean. All PPE that is not disposable is to be decontaminated after use, and stored such that it remains in good condition. Personnel of All Chemical Disposal, Inc. are issued safety bags, cleansing supplies, and plastic bags, etc., so that personal protection may be stored appropriately. All PPE must be inspected at least before and after each use. Equipment is to be repaired or replaced when it becomes defective or worn out.

Eye Protection

All Chemical Disposal, Inc. provides approved eye protection to all personnel working on operations requiring such protection. For operations requiring the use of safety glasses where glare or prolonged exposure to sunlight will hinder performance or safety, tinted safety glasses will be provided. Coverall type goggles or other approved protection will be provided for wear over personal prescription lenses when the exposure to eye hazards is for relatively short periods of time. Face shields are provided where there is a moderate risk of flying particulate or splashes of corrosive liquids. When the work environment involves exposure to chemical vapors, splashes, intense heat, or highly particulate matter, the use of contact lenses is restricted.

Contact lenses do not provide eye protection. For occupational use, contact lenses must be used in conjunction with appropriate safety glasses/goggles.

Eye protection should be stored so as to minimize scratching. Eye protection will be replaced as necessary when they become scratched.

Head Protection

All construction work areas and at locations where employees are exposed to injury from falling materials, protective hard hats meeting ANSI standards will be provided. Hard hats are to be replaced if they become cracked or contaminated such that they cannot be decontaminated.

Foot Protection

Steel toe safety shoes and/or boots are provided by All Chemical Disposal, Inc.. These shoes are to be worn when working in an operation where foot protection is required. Chemical resistant, steel toe boots are provided by All Chemical Disposal, Inc., and are to be worn as appropriate.

When shoes and/or boots show signs of wear such that exposure to chemicals is possible, they are to be put out of service, and a new pair purchased.

Body Protection

All Chemical Disposal, Inc., provides cloth coveralls and lab coats, as well as disposable tyvek and poly tyvek coveralls for body protection. Body protection is to be worn during all chemical operations. It is to be replaced whenever it is torn such that exposure is possible. Used, non-disposable clothing is to be placed in a specified location at All Chemical Disposal, Inc., for professional cleaning. Disposable clothing is to be discarded either in the regular trash, or managed as hazardous waste, depending upon the contamination of the clothing.

Other types of body protection will be provided by All Chemical Disposal, Inc., as required by the field operation.

Hand Protection

Gloves are to be worn during all field operations. All Chemical Disposal, Inc., provides leather, cloth, various poly/rubber gloves to personnel. Selection of the type of glove to be worn will be based on the type of potential exposure at the worksite. Project leaders will assist employees in selection of proper gloves. Gloves are to be replaced whenever ripped or as needed to prevent possible exposure.

Ear Protection

Noise with an intensity of greater than 85 dBA over time can produce permanent hearing impairment, a result of a combination of noise intensity and exposure time. The ear should never be exposed to noise greater than 115 dBA for any length of time.

Where reduction of noise at the source can not be achieved, individual hearing protection must be used. All Chemical Disposal, Inc. will provide disposable ear plugs to all employees requiring hearing protection. This type of protection should be discarded after each use.

If a higher level of hearing protection is required, it will be provided.

Respiratory Protection (OSHA, 29 CFR 1910.134)

Personal respiratory protection is provided to every All Chemical Disposal, Inc. employee wherever there is a risk of overexposure to a hazardous material that cannot be effectively controlled by means of local exhaust ventilation. Respiratory protection is to be obtained through All Chemical Disposal, Inc..

Medical Approval. Everyone desiring to be fit with a respirator must obtain a release from the All Chemical Disposal, Inc. selected physician. The release will certify that the employee does not have a physical condition that would preclude the employee's safe use of such equipment. The certification must be renewed annually.

Fit-Testing. All personnel requiring a respirator will be issued one for their personal use, following a formal fit test to ensure that the appropriate respirator has been issued to the employee. Fit test records will be maintained in the All Chemical Disposal, Inc. files.

Respirator Training. All personnel requiring use of a respirator will be trained in the use and limitations of respirators, as well as inspection and sanitation of the respirator. The outline for respirator training is included as Appendix B.

User Liability. Employees are responsible for the proper use and care of the respirator that has been issued to them. A short training session is given to the user when the respirator is issued. At that time the user is instructed on proper fit, cleaning and storing of the respirator.

OSHA has very specific rules governing the use of respirators. Failure of the employee to observe the proper practices could result in serious consequences to the employee and All Chemical Disposal, Inc..

Filter cartridges on the respirator are designed to remove specific chemical contaminants from the breathing air. Each type of filter is color coded and identified as to its intended application. The user must verify that the proper cartridges are on the respirator before being used.

The respirator will NOT provide its rated level of protection when used with facial hair. An attempt to do so is in violation of OSHA standards.

The respirator is issued as a personal protective device, intended for the exclusive use of the person to which it was issued. The respirator should be replaced when it becomes soiled with a material that cannot be removed with soap and water or when it becomes damaged.

Supplied Air Respirators. Safe use of supplied air respirators such as a SCBA requires the user to have special training (provided in the 40-hour OSHA training) and to meet physical fitness standards.

Decontamination Procedures

Whenever disposable PPE has been used, it is to be disposed of as municipal waste or hazardous waste, depending upon the contamination on the equipment.

Reusable PPE should be cleaned after each use. It should be inspected after cleaning to ensure that it is in good condition when it will be required again. If any type of reusable PPE cannot be sufficiently decontaminated/cleaned, it is to be put out of service and handled as appropriate.

Additional decontamination procedures will be project specific and will be outlined as necessary in the Site Safety Meetings.

V. HAZARDS COMMUNICATION

Each employee at All Chemical Disposal, Inc. has the right to know the relative hazards with the materials which they work. The Hazards Communication Plan is designed to provide guidance and training to employees who work with potentially hazardous materials.

An ongoing inventory of all chemicals used by the company will be maintained. It will be designed to track materials as they come on-site and as they leave or are consumed. This includes any waste that may come onto the site in the future). Then inventory is required to accurately assess the operations for hazardous materials and for employee training.

Hazardous Material Identification

All chemicals used by employees must be identified and classified as to the relative hazard as rated by OSHA's list of hazardous materials.

Material Safety Data Sheet (MSDS)

The MSDS is the form used to provide the employee with information about a hazardous material. Every supplier of chemicals is required to provide customers with a copy of their MSDS. A central file of MSDSs for chemicals maintained by All Chemical Disposal, Inc. is maintained in the office.

The manufacturer's original warning label on a chemical container must be legible at all times. Containers not originally supplied by the manufacturer must be labeled with a warning message in compliance with 29 CFR 1910.1200d.

Hazard Communication Training for Employees

Employees working with chemicals must have been enrolled in chemical safety training courses that teach the following

- Provision of hazard communication standard
- Hazardous materials in the workplace
- Location of written plans and MSDS
- Methods of detecting release of hazardous materials
- Health effects of over exposure to materials
- Protective measures used to limit exposure

VI. MEDICAL SURVEILLANCE PROGRAM

All new employees working with hazardous materials and/or waste will receive a complete physical examination by a physician chosen by All Chemical Disposal, Inc.. The physical examination will include, but not be limited to, general health exam, chest examination, lung capacity, urinalysis, blood analysis. The physician must give a medical release for the employee to use a respirator.

All permanent employees who regularly work with hazardous chemicals and/or waste will receive an annual physical examination, including the medical release for respirator use.

Any employee who in a hazardous situation in which the employee may have been exposed to a hazardous material will be given the opportunity to go to an All

Chemical Disposal, Inc. approved physician for medical observation and/or treatment at no cost to the employee. The decision to seek medical attention may be the employee or All Chemical Disposal, Inc. management. However All Chemical Disposal, Inc. management will not deny the right of an employee who believes medical attention is required. The physician is required to provide a written report to All Chemical Disposal, Inc. related to the specific incident for which the employee sought medical attention.

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM A



COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input checked="" type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY SITE CLOSURE	

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

DBA OR FACILITY NAME Weyerhaeuser Paper Company		NAME OF OPERATOR Weyerhaeuser Paper Company		
ADDRESS 1801 Hibbard Street		NEAREST CROSS STREET Buena Vista	PARCEL # (OPTIONAL)	
CITY NAME Alameda		STATE CA	ZIP CODE 94501	SITE PHONE # WITH AREA CODE 510-814-1160
<input checked="" type="checkbox"/> BOX TO INDICATE <input type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL AGENCY DISTRICTS <input type="checkbox"/> COUNTY AGENCY <input type="checkbox"/> STATE AGENCY <input type="checkbox"/> FEDERAL AGENCY				
TYPE OF BUSINESS		<input type="checkbox"/> 1 GAS STATION	<input type="checkbox"/> 2 DISTRIBUTOR	<input type="checkbox"/> 3 FARM
		<input checked="" type="checkbox"/> 4 PROCESSOR	<input type="checkbox"/> 5 OTHER	
		<input type="checkbox"/> IF INDIAN RESERVATION OR TRUST LANDS	# OF TANKS AT SITE one	E. P. A. # D. # (optional) CAL000045154

EMERGENCY CONTACT PERSON (PRIMARY)

EMERGENCY CONTACT PERSON (SECONDARY) - optional

DAYS: NAME (LAST, FIRST) Smith, Floyd	PHONE # WITH AREA CODE 510-814-1160	DAYS: NAME (LAST, FIRST) Mindt, Steve	PHONE # WITH AREA CODE 510-523-6121
NIGHTS: NAME (LAST, FIRST) Mindt, Steve	PHONE # WITH AREA CODE 510-523-6121	NIGHTS: NAME (LAST, FIRST) Bourassa, Michael	PHONE # WITH AREA CODE 510-814-1160

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME Weyerhaeuser Paper Company		CARE OF ADDRESS INFORMATION		
MAILING OR STREET ADDRESS 1801 Hibbard Street		<input checked="" type="checkbox"/> box to indicate <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> STATE AGENCY <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY AGENCY <input type="checkbox"/> FEDERAL AGENCY		
CITY NAME Alameda		STATE CA	ZIP CODE 94501	PHONE # WITH AREA CODE 510-814-1160

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER Weyerhaeuser Paper Company		CARE OF ADDRESS INFORMATION		
MAILING OR STREET ADDRESS 1801 Hibbard Street		<input checked="" type="checkbox"/> box to indicate <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> STATE AGENCY <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY AGENCY <input type="checkbox"/> FEDERAL AGENCY		
CITY NAME Alameda		STATE CA	ZIP CODE 94501	PHONE # WITH AREA CODE 510-814-1160

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 739-2582 if questions arise.

TY (TK) HQ **44** -

V. LEGAL NOTIFICATION AND BILLING ADDRESS Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING:
 I.
 II.
 III.

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) David Escover <i>DE</i>	APPLICANT'S TITLE Contractor	DATE 12-10-93
--	--	-------------------------

LOCAL AGENCY USE ONLY

COUNTY # <input type="text"/> <input type="text"/>	JURISDICTION # <input type="text"/> <input type="text"/> <input type="text"/>	FACILITY # <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
LOCATION CODE - OPTIONAL	CENSUS TRACT # - OPTIONAL	SUPVISOR - DISTRICT CODE - OPTIONAL

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input checked="" type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: _____

I. TANK DESCRIPTION COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN

A. OWNER'S TANK I.D.# <u>unknown</u>	B. MANUFACTURED BY: <u>unknown</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>unknown</u>	D. TANK CAPACITY IN GALLONS: <u>20,000</u>

II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C.

A. <input type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input type="checkbox"/> 4 OIL	B. <input checked="" type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1a REGULAR UNLEADED
<input checked="" type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input type="checkbox"/> 2 WASTE	<input type="checkbox"/> 1b PREMIUM UNLEADED
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 95 UNKNOWN		<input type="checkbox"/> 2 LEADED

3 DIESEL 6 AVIATION GAS
4 GASAHOL 7 METHANOL
5 JET FUEL 99 OTHER (DESCRIBE IN ITEM D. BELOW)

D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED _____ C. A. S. #: _____

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM	<input type="checkbox"/> 1 DOUBLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input type="checkbox"/> 95 UNKNOWN
	<input checked="" type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK)	<input type="checkbox"/> 99 OTHER _____

B. TANK MATERIAL (Primary Tank)	<input checked="" type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 3 FIBERGLASS
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 95 UNKNOWN

C. INTERIOR LINING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 3 EPOXY LINING
	<input type="checkbox"/> 5 GLASS LINING	<input type="checkbox"/> 6 UNLINED	<input checked="" type="checkbox"/> 95 UNKNOWN
	IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___		<input type="checkbox"/> 4 PHENOLIC LINING

D. CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input type="checkbox"/> 91 NONE	<input checked="" type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
		<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER _____

E. SPILL AND OVERFILL SPILL CONTAINMENT INSTALLED (YEAR) _____ OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) _____

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	A <input checked="" type="radio"/> 1 SUCTION	A U 2 PRESSURE	A U 3 GRAVITY
			A U 99 OTHER _____

B. CONSTRUCTION	A <input checked="" type="radio"/> 1 SINGLE WALL	A U 2 DOUBLE WALL	A U 3 LINED TRENCH
			A U 95 UNKNOWN . A U 99 OTHER _____

C. MATERIAL AND CORROSION PROTECTION	A <input checked="" type="radio"/> 1 BARE STEEL	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 4 FIBERGLASS PIPE
	A U 9 GALVANIZED STEEL	A U 10 CATHODIC PROTECTION	A U 8 100% METHANOL COMPATIBLE W/FRP
		A U 95 UNKNOWN	A U 99 OTHER _____

D. LEAK DETECTION 1 AUTOMATIC LINE LEAK DETECTOR 2 LINE TIGHTNESS TESTING 3 INTERSTITIAL MONITORING 99 OTHER _____

V. TANK LEAK DETECTION

<input type="checkbox"/> 1 VISUAL CHECK	<input checked="" type="checkbox"/> 2 INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VADOZE MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING
<input type="checkbox"/> 6 TANK TESTING	<input type="checkbox"/> 7 INTERSTITIAL MONITORING	<input type="checkbox"/> 91 NONE	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER _____

VI. TANK CLOSURE INFORMATION

1. ESTIMATED DATE LAST USED (MO/DAY/YR) <u>12-10-93</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>0</u> GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
--	---	---

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) <u>David Escover</u>	DATE <u>12-10-93</u>
---	----------------------

LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
[] [] [] []	[] []	[] [] [] []	[] [] [] [] [] [] [] []	[] [] [] [] [] [] [] [] [] []
PERMIT NUMBER	PERMIT APPROVED BY/DATE		PERMIT EXPIRATION DATE	

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.
FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

State of California

Contractors State License Board

Pursuant to 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:

ALL CHEMICAL DISPOSAL 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 seal this day,

August 16, 1990

Issued August 7, 1990

David R. Phillips
Registrar of Contractors

Signature of Licensee

David R. Phillips

Signature of License Qualifier

This license is the property of the Registrar of Contractors, 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.

599864

License Number

STATE OF CALIFORNIA
STATE AND CONSUMER SERVICES AGENCY CONTRACTORS STATE LICENSE BOARD

DEPARTMENT OF
**Consumer
Affairs**

Building Quality



HAZARDOUS SUBSTANCES REMOVAL AND REMEDIAL ACTIONS CERTIFICATION

Pursuant to the provisions of Section 7058.7 of the Business and Professions Code, the Registrar of Contractors does hereby certify that the following qualifying person has successfully completed the hazardous substances removal and remedial actions examination.



Qualifier: DAVID FRANCIS ESCOVER

License No.: 599864

Namestyle: ALL CHEMICAL DISPOSAL, INC.

WITNESS my hand and official seal this
4TH day of OCTOBER, 1990

David R. Peltier
Registrar of Contractors

131.301 (7/88)

This certification is the property of the Registrar of Contractors, is not transferable, and shall be returned to the Registrar upon demand when suspended, revoked, or invalidated for any reason.

A3584

CERTIFICATE OF INSURANCE

06/18/93

MICOR INSURANCE BROKERS, INC.
 2025 Gateway Place #119
 San Jose, CA
 95118-
 PHONE 408-453-8222

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 COMMERCE & INDUSTRY
- COMPANY LETTER B NATIONAL UNION
- COMPANY LETTER C GOLDEN EAGLE INSURANCE COMPANY
- COMPANY LETTER D
- COMPANY LETTER E

INSURED
 All Chemical Disposal, Inc.
 941 Berryessa Road, Suite G
 San Jose, CA
 95133

COVERAGES (THIS IS TO CERTIFY THAT 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 TERMS, EXCLUSIONS, AND CONDITIONS OF SUCH POLICIES. LIMITS STATE MAY HAVE BEEN REDUCED BY PAID CLAIMS.)

CD LTX	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFF DATE	POLICY EXP DATE	ALL LIMITS IN THOUSANDS	
					EACH OCC	AGGREGATE
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GEN LIABILITY <input type="checkbox"/> [X] CLASIS HARE [] OCC. <input type="checkbox"/> OWNER'S & CONTRACTORS PROTECTIVE <input type="checkbox"/> <input type="checkbox"/>	6LCM3464393	12/01/92	12/01/93	GENERAL AGGREGATE	1000
					PROD-COMP/OPS AGG.	1000
					PERN. & ROVQ. INJURY	1000
					EACH OCCURRENCE	1000
					FIRE DAMAGE (ANY ONE FIRE)	50
A	AUTOMOBILE LIAB <input checked="" type="checkbox"/> ANY AUTO <input checked="" type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS <input checked="" type="checkbox"/> GARAGE LIABILITY <input checked="" type="checkbox"/> Pollution Liab.	CA 2771560	12/01/92	12/01/93	MEDICAL EXPENSE (ANY ONE PERSON)	5
					CSL	5000
					BODILY INJURY (PER PERSON)	
					BODILY INJURY (PER ACCIDENT)	
					PROPERTY	
C	EXCESS LIABILITY <input type="checkbox"/> UMBRELLA FORM <input type="checkbox"/> OTHER THAN UMBRELLA FORM				EACH OCC	AGGREGATE
					STATUTORY	1000
B	WORKERS' COMP AND EMPLOYERS' LIAB	PWC 227547-00	05/01/93	06/01/94		
B	OTHER POLLUTION LIABILITY	CPL 716-87-83 CLAIMS MADE	12/01/92	12/01/93	1000	EACH LOSS
					1000	TOTAL ALL LOSSE

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

ACORD 25-3 (3/88)

ALL CHEMICAL DISPOSAL, INC.

certifies that

David Escover

has completed

8-hour OSHA Hazardous Waste Operator

Annual Refresher Training

(29 CFR 1910.120, 1910.1200 and 8 CCR 5192) and

DOT Hazard Communication Training

(49 CFR 72 Subpart H)

July 28, 1993



Dave Escover
President



Gwyn Faulkner
Hazardous Waste Engineer

ALL CHEMICAL DISPOSAL, INC.

certifies that

Paul Dommert

has completed

8-hour OSHA Hazardous Waste Operator

Annual Refresher Training

(29 CFR 1910.120, 1910.1200 and 8 CCR 5192) and

DOT Hazard Communication Training

(49 CFR 72 Subpart H)

July 28, 1993



**Dave Escover
President**



**Gwyn Faulkner
Hazardous Waste Engineer**

ALL CHEMICAL DISPOSAL, INC.

certifies that

Frank Giancola

has completed

8-hour OSHA Hazardous Waste Operator

Annual Refresher Training

(29 CFR 1910.120, 1910.1200 and 8 CFR 5192) and

DOT Hazard Communication Training

(49 CFR 72 Subpart H)

July 27-28, 1993



Doug Brown
President



Guy Palmer
Hazardous Waste Engineer

ALL CHEMICAL DISPOSAL, INC.

certifies that

Robert Giancola

has completed

8-hour OSHA Hazardous Waste Operator

Annual Refresher Training

(29 CFR 1910.120, 1910.1200 and 8 CCR 6192) and

DOT Hazard Communication Training

(49 CFR 72 Subpart H)

July 27-28, 1993



Paul Palmer
Trainer



Gary Follmer
Hazardous Waste Engineer



941 Berryessa Rd., Ste. D
San Jose, CA 95133

Transmission Complete

Yes No

Contractor's License #599864

All Chemical Disposal Inc.

941 Berryessa Road, Suite D - San Jose, CA 95133
Tel: 408-453-1660 • Fax: 408-453-3087

FAX COVER SHEET

Date: 12/22/93

Company: Alameda County

Attention: Tieliet

From: Gigi Gurrz

Number of Pages Including Cover Sheet: 5

Remarks: As Requested

If you have any questions or did not receive the complete fax, please contact our office at (408) 453-1660.

Thank you.

LOP - RECORD CHANGE REQUEST FORM

printed:
09/08/1999

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

Insp: LS

AGENCY # : 10000 SOURCE OF FUNDS: F SUBSTANCE: 8006619
StID : 1202 LOC:
SITE NAME: Weyerhaeuser Paper Co. DATE REPORTED : 02/07/1991
ADDRESS : 1801 Hibbard St DATE CONFIRMED:
CITY/ZIP : Alameda 94501 MULTIPLE RPs : N

SITE STATUS

CASE TYPE: O CONTRACT STATUS: 4 PRIOR CODE:3A2 EMERGENCY RESP:
RP SEARCH: S DATE COMPLETED: 03/30/1992
PRELIMINARY ASMNT: U DATE UNDERWAY: 10/15/1991 DATE COMPLETED:
REM INVESTIGATION: U DATE UNDERWAY: 02/28/1991 DATE COMPLETED:
REMEDIAL ACTION: C DATE UNDERWAY: 02/28/1991 DATE COMPLETED: 10/30/1995
POST REMED ACT MON:U DATE UNDERWAY: 02/01/1996 DATE COMPLETED:

ENFORCEMENT ACTION TYPE: 1 DATE ENFORCEMENT ACTION TAKEN: 03/30/1992
LUFT FIELD MANUAL CONSID: 3HSC
CASE CLOSED: DATE CASE CLOSED:
DATE EXCAVATION STARTED : 02/27/1991 REMEDIAL ACTIONS TAKEN: ED,VE,AS

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Ed Granados
COMPANY NAME: Weyerhaeuser Co.
ADDRESS: Weyerhaeuser Way, South
CITY/STATE: Tacoma, W A 98477

INSPECTOR VERIFICATION:

NAME _____ SIGNATURE _____ DATE _____

DATA ENTRY INPUT:

Name/Address Changes Only Case Progress Changes

ANNPMS _____ LOP _____ DATE _____ LOP _____ DATE _____

Minter & Fahy Construction Co., Inc.

CONTRACTORS LIC. NO. 477315
411 N. BUCHANAN CIRCLE #2 PACHECO, CALIFORNIA 94553
(415) 674-8800

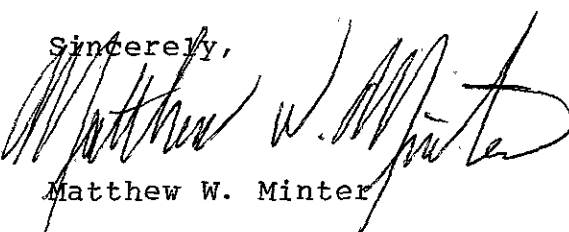
November 9, 1990

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

Attention: Katherine Chesick

Enclosed please find three copies of the emergency hospital route
and three copies of the scope of work sheet. Please add these to
the supplemental section of the site safety plan.
Thank you for your attention to this matter.

Sincerely,


Matthew W. Minter

90 NOV 13 PM 2:33

MWM:da

Minter & Fahy Construction Co., Inc.

CONTRACTORS LIC. NO. 477315
411 N. BUCHANAN CIRCLE #2 PACHECO, CALIFORNIA 94553

(415) 674-8800: 02
90 NOV - 1 PM

October 30, 1990

Alameda County Health Care Services Agency
department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

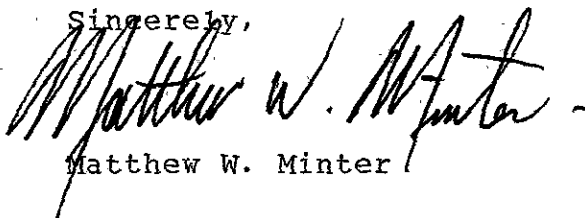
Attention: Katherin Chesick

Subject: Weyserhauser

Enclosed please find two copies of the Safety & Accident
Prevention Program for the above job.

Thank you for your attention to this letter.

Sincerely,



Matthew W. Minter

MWM: da

Via Facsimile (510) 337-9432

DATE: December 23, 1997

TO: Mr. Don Hwang
Environmental Inspector
Alameda County Department Environmental Health
Fuel Leaks Program

FROM: Barbara A. Moed
Registered Environmentalist
Eckland Consultants, INC.
625 Market Street
Suite 500
San Francisco, CA 94510

Dear Mr. Hwang,

I would like the earliest available appointment to review the LUST file on Weverhaeuser Company at 1501 Hibbard in Alameda.

Please advise by telephone, I can be reached on (415) 543-9723
fax (415) 543-9723.

Sincerely,

Barbara A. Moed

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

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

July 16, 1993

Steven Mindt
Weyerhaeuser Paper Co.
1801 Hibbard St.
P.O. Drawer X
Alameda, CA 94501

STID 1202

Re: Additional required investigations at 1801 Hibbard St.,
Alameda, California

Dear Mr. Mindt,

This office submitted a letter to you in August 1992 requiring you to conduct further investigations to determine the extent of soil contamination in the vicinity of STMW-3, because elevated levels of Total Oil & Grease (1,000 parts per million) were identified in the soil. Another reason for requiring further soil investigations is that elevated levels of Total Petroleum Hydrocarbons as gasoline (TPHg) and benzene have consistently been identified in ground water samples collected from the upgradient well STMW-3, and it appears that these concentrations may be the result of a substantial amount of soil contamination left in place at the site.

You are required to submit a work plan, **within 45 days** of the date of this letter, addressing soil investigation and remediation. Additionally, please inform this office of any other potential sources of the elevated levels of TPHg and benzene being observed in Well STMW-3.

If you have any questions or comments, please contact me at (510) 271-4530.

Sincerely,

A handwritten signature in cursive script, appearing to read "Juliet Shin".

Juliet Shin
Hazardous Materials Specialist

Mr. Steven Mindt
Re: 1801 Hibbard St.
July 16, 1993
Page 2 of 2

cc: Richard Hiett, RWQCB

Frank Hamedi-Fard
Soil Tech Engineering, Inc.
298 Brokaw Rd.
Santa Clara, CA 95050

Edgar Howell-File(JS)

Weyerhaeuser
Paper Company

1801 Hibbard Street
P.O. Drawer X
Alameda, California 94501
Tel (510) 523 6121



February 8, 1993

Alameda County Health Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Dear Sir/Madam:

Enclosed, please find additional testing and sampling for the Weyerhaeuser Company facility located in Alameda.

If you have any questions, please don't hesitate to call.

Sincerely,

WEYERHAEUSER PAPER COMPANY

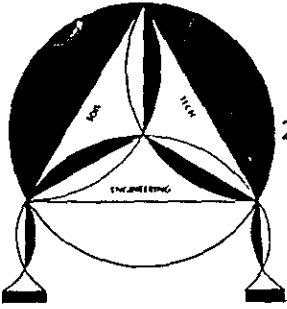


Steven A. Mindt
Production Manager

SAM:jnq

Enclosures

cc: Mike Bourassa



SOIL TECH ENGINEERING

Soil, Foundation and Geological Engineers

298 BROKAW ROAD, SANTA CLARA, CA 95050 ■ (408) 496-0265 OR (408) 496-0266

October 27, 1992

File No. 10-91-483-MW

Ms. Juliet Shin
Hazardous Materials Specialist
Alameda County Dept. of Environmental Health
UST Local Oversight Program
80 Swan Way, #200
Oakland, California 94621

Regarding: Weyerhaeuser Paper Site
Located at 1801 Hibbard Street, in
Alameda, California

Dear Ms. Shin:

On behalf of Weyerhaeuser Paper company, Soil Tech Engineering, Inc. (STE), is responding to your letter dated August 31, 1992, concerning the subject site. This letter is structured to respond to your request.

Per your request, STE will install one additional monitoring well within 10 feet down-gradient of the former diesel tank area. The installation of the proposed well will be in accordance to state and local requirements. The proposed well will be installed within 20 days, and the report will be submitted to your office within 30 days of installation of the well.


With regard to further investigation near the well MW-3, we request an extension of 120 days to conduct additional subsurface investigation. The reason for extension is due to busy work load at the plant during next 4 months, it makes the scheduling and accessibility very difficult. Our proposal is to conduct several test pits approximately 4 feet wide by 4 feet long and 5 feet deep in the vicinity of the well MW-3. Impacted soil will be excavated from each pit, and a verification soil samples will be taken from each excavation test pit. We anticipate to initiate the work in March 1992. A technical report will be submitted to you within 30 days of our investigation.

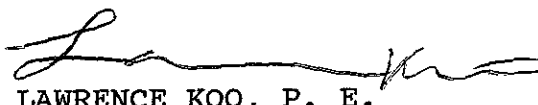
We look forward to implement the proposed investigation upon approval.

If you have any questions or require additional information, please feel free to contact our office at your convenience.

Sincerely,

SOIL TECH ENGINEERING, INC.


FRANK HAMEDI-FARD
GENERAL MANAGER


LAWRENCE KOO, P. E.
C. E. #34928

cc: Mr. Richard Heit of RWQCB
Mr. Steve Mindt of Weyerhaeuser Paper Company

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25100.7 OF THE HEALTH AND SAFETY CODE.		
REPORT DATE 09/29/92		CASE #		SIGNED: <i>[Signature]</i> DATE: 9/29/92		
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT MIKE BOURASSA		PHONE (510) 523-6121		SIGNATURE <i>[Signature]</i>	
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER		<input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD		COMPANY OR AGENCY NAME WEYERHAEUSER	
	ADDRESS 1801 HUBBARD STREET ALAMEDA CA 94501					
RESPONSIBLE PARTY	NAME WEYERHAEUSER		CONTACT PERSON STEVE MINDT		PHONE (510) 523-6121	
	ADDRESS 1801 HUBBARD STREET ALAMEDA CA 94501					
SITE LOCATION	FACILITY NAME (IF APPLICABLE) WEYERHAEUSER		OPERATOR FLOYD SMITH		PHONE (510) 523-6121	
	ADDRESS 1801 HUBBARD STREET ALAMEDA CITY ALAMEDA COUNTY CA 94501					
	CROSS STREET BUENA VISTA					
IMPLEMENTING AGENCIES	LOCAL AGENCY ALAMEDA COUNTY ENVIRONMENTAL HEALTH DEPT.		AGENCY NAME		CONTACT PERSON (510) 271-4530	
	REGIONAL BOARD CALIFORNIA REGIONAL WATER QUALITY BOARD					
SUBSTANCES INVOLVED	(1) NAME DIESEL				QUANTITY LOST (GALLONS) 0 <input type="checkbox"/> UNKNOWN	
	(2) <input type="checkbox"/> UNKNOWN					
DISCOVERY/ABATEMENT	DATE DISCOVERED 09/27/92		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER			
	DATE DISCHARGE BEGAN UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> CLOSE TANK <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURE <input checked="" type="checkbox"/> OTHER: REMOVE TANK			
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE:					
SOURCE/CAUSE	SOURCE OF DISCHARGE <input checked="" type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER			
	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)					
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input checked="" type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY					
	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input checked="" type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT)					
	COMMENTS					

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFETY CODE.		
REPORT DATE 01/24/92		CASE #		SIGNED _____ DATE _____		
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT MIKE BOURASSA		PHONE (510) 523-6121		SIGNATURE 	
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> OWN/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME WEYERHAEUSER			
RESPONSIBLE PARTY	ADDRESS 1801 HIBBARD STREET ALAMEDA CA 94501					
	NAME WEYERHAEUSER		CONTACT PERSON STEVE MINOT		PHONE (510) 523-6121	
SITE LOCATION	FACILITY NAME (IF APPLICABLE) WEYERHAEUSER					
	ADDRESS 1801 HIBBARD STREET ALAMEDA ALAMEDA COUNTY CA 94501					
IMPLEMENTING AGENCIES	LOCAL AGENCY ALAMEDA COUNTY ENVIRONMENTAL HEALTH DEPT		CONTACT PERSON RICHARD HIETT		PHONE (510) 271-4530	
	REGIONAL BOARD CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD					
SUBSTANCES INVOLVED	(1) NAME DIESEL					
	(2) _____ QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN					
DISCOVERY/ABATEMENT	DATE DISCOVERED 01/23/92		HOW DISCOVERED <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> OTHER			
	DATE DISCHARGE BEGAN UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> CLOSE TANK <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURE <input checked="" type="checkbox"/> OTHER <u>Remove Tank</u>			
SOURCE/CAUSE	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE <u>02/02/92</u>					
	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER					
CASE TYPE	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)					
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input checked="" type="checkbox"/> POST-CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY					
REMEDIAL ACTION	CHECK APPROPRIATE ACTION(S) <input checked="" type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO-DEGRADATION (BT) <input type="checkbox"/> CAP SITE (CS) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (PT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HL) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT)					
COMMENTS	_____					

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



EPA
File

①

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

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

August 31, 1992

Norm Stratford
Weyerhaeuser Co.
P.O. Box Drawer X
Alameda, CA 94501

STID 1202

RE: The Weyerhaeuser Paper site, located at 1801 Hubbard Street,
Alameda, California

Dear Mr. Stratford,

According to our files, one 10,000-gallon diesel tank was removed from the site along with the three former gasoline tanks in 1991. Although the analysis of four soil samples collected from the side walls of the diesel tank pit did not identify any contaminants above detection limits, a ground water sample collected from this tank pit identified 3,600 parts per billion (ppb) of diesel. Due to the fairly high concentration of diesel observed in the ground water, this office is requiring that you install an additional well within 10 feet downgradient of the former diesel tank.

Additionally, according to the soil samples collected from MW-3 in December 1991, Total Oil and Grease at 1,000 parts per million (ppm) was identified at a depth of 3 feet. Further investigations need to be conducted to determine the extent of this contamination and the methods in which this contamination will be remediated. Please submit a work plan addressing the delineation of this soil contamination, and the installation of the additional monitoring well **within 45 days** of the receipt of this letter.

This office is missing the report addressing the installation and sampling of the initial three monitoring wells in December 1991. Please submit a copy of this report to this office **within 30 days** of the receipt of this letter.

It was stated in both the May 18, 1992 Subsurface Investigation Report and the August 10, 1992 Quarterly Ground Water Monitoring Report, that "low levels" of hydrocarbons were identified in the soil samples collected after the final overexcavation of the gasoline tank pit in April 1991. It appears that this office does not have the lab analysis results for these soil samples.

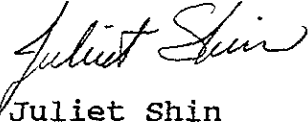
Norm Stratford
RE: 1801 Hibbard St.
August 31, 1992
Page 2 of 2

Additionally, this office has never received an **Unauthorized Release/Leak Report** from you. According to **Section 2652 (c), Article 5, Title 23 California Code of Regulations**, Unauthorized Release/Leak Reports are to be submitted within 5 days of the first identified release. We have enclosed a blank Unauthorized Release Report form for you to fill out. Please submit the completed form, along with the lab analysis results for the soil samples, to us **within 30 days** of the receipt of this letter.

Please be reminded to copy Richard Hiett, at the San Francisco Bay Region-Water Quality Control Board, on all correspondence and reports regarding this site.

Thank you for your cooperation. If you have any questions, please contact me at (510) 271-4530.

Sincerely,



Juliet Shin
Hazardous Materials Specialist

cc: Richard Hiett, RWQCB

Robert La Grone, Alameda Fire Dept.

Frank Hamedi
Soil Tech Engineering, Inc.
298 Brokaw Rd.
Santa Clara, CA 95050

Mark Thompson, Alameda County District Attorney's Office

Edgar Howell-File (JS)

DATE: 3/27/92
TO : Local Oversight Program
FROM: E. J. Adams
SUBJ: Transfer of Eligible Oversight Case

Site name: Weyerhaeuser Paper
Address: 1801 Hibbard St. city Alameda zip 94501
Closure plan attached? Y N DepRef remaining \$ 337.75
DepRef Project # 852 STID # (if any) 1202
Number of Tanks: 4 removed? Y N Date of removal 2/7/91
Leak Report filed? Y N Date of Discovery _____
Samples received? Y N Contamination: soil & water
Petroleum Y N Types: Avgas Jet leaded unleaded Diesel
fuel oil waste oil kerosene solvents

Monitoring wells on site _____ Monitoring schedule? Y N
LUFT category 1 2 3 * H S C A R W G O

Briefly describe the following:

Preliminary Assessment _____
Remedial Action _____
Post Remedial Action Monitoring _____
Enforcement Action _____

Soil samples up to 3000 TPH-G ; 21,000 ppb benzene
Workplan has been submitted 6/15/1991 -

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH
 Hazardous Materials Inspection Form

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

II, III

Site ID # 1702 Site Name WEYERHAEUSER PAPER Today's Date 9/17/92

Site Address 1801 HIBBARD STREET
 City ALAMEDA Zip 94501 Phone 523-6121

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

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

Comments:

THIS INSPECTION IS FOR THE PURPOSE OF ON SITE VERIFICATION OF THE HAZARDOUS MATERIALS MANAGEMENT PLAN. THIS COMPANY MANUFACTURES CORRUGATED PACKAGING.

HAZARDOUS MATERIALS INCLUDE:

1. INIC (WATER BASED)
2. NaOH (500 GAL PLASTIC TANK AGT)
3. BOMX ACID (PONDEN)
4. DIESEL FUEL
5. MOTEN WAX (8000 GALLONS) AGT
6. PRODUCT OIL IN AGT
7. WASTE OIL IN AGT
8. COMPRESSED GAS CYLINDERS.

NEED MSDS TO UPDATE HMMP SUBMITTED MARCH 1991.

FACILITY MAPS NEED TO BE MORE DETAILED TO SHOW STORAGE AREA OUTSIDE AND TO INCLUDE LOCATION OF PASTE MIXING AREA. SHOW NaOH AGT ON DRAWING.

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Strcs. 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(f)
- 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 Semi-annual groundwater One time soils
 - 3) Daily Vadose One time soils Annual tank test
 - 4) Monthly Gndwater One time soils
 - 5) Daily Inventory Annual tank testing Cont pipe leak det Vadose/gndwater mon.
 - 6) Daily Inventory Annual tank testing Cont pipe leak det
 - 7) Weekly Tank Gauge Annual tank testing
 - 8) Annual Tank Testing Daily Inventory
 - 9) Other _____

- 7. Precis Tank Test Date: 2643
- 8. Inventory Rec. 2644
- 9. Soil Testing . 2646
- 10. Ground Water. 2647

- New Tanks**
- 11. Monitor Plan 2632
 - 12. Access. Secure 2634
 - 13. Plans Submit Date: 2711
 - 14. As Built Date: 2635

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Contact: STEVEN A. MINDT
 Title: PRODUCTION MGR.
 Signature: [Signature]

Inspector: ROBERT WESTON
 Signature: [Signature]

II, III

WATER RESOURCES CONTROL BOARD
DIVISION OF WATER QUALITY - UST CLEANUP PROGRAM
SITE SPECIFIC QUARTERLY REPORT
01/01/92 THROUGH 03/31/92

AGENCY # : 10000 SOURCE OF FUNDS: F SUBSTANCE: 8006619
StID : 1202
SITE NAME: Weyerhaeuser Paper Co. DATE REPORTED : 02/07/91
ADDRESS : 1801 Hibbard St. DATE CONFIRMED:
CITY/ZIP : Alameda 94501 MULTIPLE RPs : N

SITE STATUS

CASE TYPE: G CONTRACT STATUS: 3 EMERGENCY RESP:
RP SEARCH: S DATE COMPLETED: 03/30/92
PRELIMINARY ASMNT: U DATE UNDERWAY: 10/15/91 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: 03/30/92
LUFT FIELD MANUAL CONSID: 3HSC
CASE CLOSED: DATE CASE CLOSED:
DATE EXCAVATION STARTED : 02/27/91 REMEDIAL ACTIONS TAKEN: ED

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Norm Stratford
COMPANY NAME: Weyerhaeuser Co
ADDRESS: P O Box Drawer X
CITY/STATE: Alameda, C A 94501

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 Division Inspection Form

Site ID# _____ Site Name Weisphauser Paper Today's Date 2, 7, 91

Site Address 1801 Hibbard EPA ID# _____

City Alameda Zip 94501 Phone _____

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

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 | |
| <hr/> | | | |
| Manifest | ___ | 6. Records | 66492 |
| | ___ | 7. Correct | 66484 |
| | ___ | 8. Copy sent | 66492 |
| | ___ | 9. Exception | 66484 |
| | ___ | 10. Copies Rec'd | 66492 |
| <hr/> | | | |
| Misc. | ___ | 11. Treatment | 66371 |
| | ___ | 12. On-site Disp. (H.S.&C.) | 26189.5 |
| | ___ | 13. Ex Haz. Waste | 66570 |
| <hr/> | | | |
| Prevention | ___ | 14. Communications | 67121 |
| | ___ | 15. Aisle Space | 67124 |
| | ___ | 16. Local Authority | 67126 |
| | ___ | 17. Maintenance | 67120 |
| | ___ | 18. Training | 67105 |
| <hr/> | | | |
| Confin. gency | ___ | 19. Prepared | 67140 |
| | ___ | 20. Name List | 67141 |
| | ___ | 21. Copies | 67141 |
| | ___ | 22. Emg. Coord. Tmg. | 67144 |
| <hr/> | | | |
| Containers, Tanks | ___ | 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 |

Comments:

page 1 of _____

1. Four tanks:
 Buena Vista
 Bldg
 oil on soil surface
 1000 gallon each
 contents unknown to Randy (Alameda FD)
 10,000 gal

2. Oil on water in hole where 10,000 tank pulled. Tank held diesel fuel. Tank appears sound. Tarred felt wrap under-terminated.

3. Ericson Co. Number on 10,000 GL Tank is 5568.

4. Minter & Fahy Construction pulled tank. R. Minter states that crane used to lift tank was only marginally capable "right at limit."

5. Matt Minter 694-8800 construction co. supervisor.

6. Mr. Rodriguez, City Plumbing & Mechanical Inspector on site.

7. Small tank excavation has slight oil sheen on water.

I.B TRANSPORTER (Title 22)

- | | | | |
|----------|---------------------------|------------------|-------|
| ___ | 32. Applic./Insurance | 66428 | |
| ___ | 33. Comp. Cert./CHP insp. | 66448 | |
| ___ | 34. Containers | 66465 | |
| <hr/> | | | |
| Manifest | ___ | 35. Vehicles | 66465 |
| | ___ | 36. EPA ID #s | 66531 |
| | ___ | 37. Correct | 66541 |
| | ___ | 38. HW Delivery | 66543 |
| | ___ | 39. Records | 66544 |
| <hr/> | | | |
| Cont'rs | ___ | 40. Name/ Covers | 66545 |
| | ___ | 41. Recyclables | 66800 |

Contact: Matt Minter

Title: Pres

Signature: Matt Minter

Inspector: William Faulhaber

Signature: William Faulhaber

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 yellow -facility
 pink -files

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 Weyerhaeuser Company Today's Date 2/7/91
 Site Address 1801 Hibbard St. EPA ID# _____
 City Alameda Zip 94501 Phone _____

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

page 2 of _____

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
<hr/>	
Manifest ___ 6. Records	66492
___ 7. Correct	66484
___ 8. Copy sent	66492
___ 9. Exception	66484
___ 10. Copies Rec'd	66492
<hr/>	
Misc. ___ 11. Treatment	66371
___ 12. On-site Disp. (H.S.&C.)	26189.5
___ 13. Ex Haz. Waste	66570
<hr/>	
Prevention ___ 14. Communications	67121
___ 15. Aisle Space	67124
___ 16. Local Authority	67126
___ 17. Maintenance	67120
___ 18. Training	67105
<hr/>	
Confli. gency ___ 19. Prepared	67140
___ 20. Name List	67141
___ 21. Copies	67141
___ 22. Emg. Coord. Tmg.	67144
<hr/>	
Containers, Tanks ___ 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
<hr/>	
I.B TRANSPORTER (Title 22)	
___ 32. Applic./Insurance	66428
___ 33. Comp. Cert./CHP Insp.	66448
___ 34. Containers	66465
<hr/>	
Manifest ___ 35. Vehicles	66465
___ 36. EPA ID #s	66531
___ 37. Correct	66541
___ 38. HW Delivery	66543
___ 39. Records	66544
<hr/>	
Conf'te ___ 40. Name/ Covers	66545
___ 41. Recyclables	66800

Comments:
 8. Estimate volumes of small tanks at 1000 gallon each. Light hydrocarbon emulsion on water in pit, plus discrete large droplets of dark oil.
 9. Keith Jay, Hageman Aguiar Engineering (415) 284-1661. Agreed to 4 samples each pit, center of wall, just above water. Test all samples for TPH-G, TPH-D, BTEX.
 10. Contractor believe small tank were originally gasoline, later used oil collection. Found hole in #5569 where midline seam jointed out-cap. ~1/2" dia. 2nd hole in weld near top. 5570 & 5571 also had holes.
 11. Pipes from 1000 gallon tank into adjacent bldg. are to be cut off & capped, just outside of bldg. these are about 1 1/2' underground.
 12. Sampling at 12:00pm 2-7-91. Center of each wall just above water (5 1/2' below surface). Labeled "gas, north, south, east, west". "West" defined as direction Buena Vista runs towards Naval Air.
 13. Tank Manifest # 90574139.

Rev 6/88

Contact: Matt Mintz
 Title: Pres
 Signature: Matt Mintz

Inspector: William F. Fauthaber
 Signature: William F. Fauthaber

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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 Weyerhaeuser Co. Today's Date 2/7/91
 Site Address 1801 Hibbard St EPA ID# _____
 City Alameda Zip 94501 Phone _____

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

Inspection Categories:
 I. Haz. Mat/Waste GENERATOR/TRANSPORTER *page 3 of -*
 II. Business Plans, Acute Hazardous Materials
 III. Underground Tanks

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

- IA GENERATOR (Title 22)**
- ___ 1. Waste ID * 66471
 - ___ 2. EPA ID 66472
 - ___ 3. > 90 days 66508
 - ___ 4. Label dates 66508
 - ___ 5. Biennial 66493
-
- Manifest**
- ___ 6. Records 66492
 - ___ 7. Correct 66484
 - ___ 8. Copy sent 66492
 - ___ 9. Exception 66484
 - ___ 10. Copies Rec'd 66492
-
- Misc.**
- ___ 11. Treatment 66371
 - ___ 12. On-site Disp. (H.S.&C.) 26189.5
 - ___ 13. Ex Haz. Waste 66570
-
- Prevention**
- ___ 14. Communications 67121
 - ___ 15. Aisle Space 67124
 - ___ 16. Local Authority 67126
 - ___ 17. Maintenance 67120
 - ___ 18. Training 67105
-
- Cont'n. gency**
- ___ 19. Prepared 67140
 - ___ 20. Name List 67141
 - ___ 21. Copies 67141
 - ___ 22. Emg. Coord. Trng. 67144
-
- Containers, Tanks**
- ___ 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
-
- IB TRANSPORTER (Title 22)**
- ___ 32. Applic./Insurance 66428
 - ___ 33. Comp. Cert./CHP Inso. 66448
 - ___ 34. Containers 66465
-
- Manifest**
- ___ 35. Vehicles 66465
 - ___ 36. EPA ID #s 66531
 - ___ 37. Correct 66541
 - ___ 38. HW Delivery 66543
 - ___ 39. Records 66544
-
- Cont'n**
- ___ 40. Name/ Covers 66545
 - ___ 41. Recyclables 66800

Comments:

14. Sampling from large tank pit

North
 West
 East
 South
 West
 East

Pit wall

- 1' Pavement
- 2' Aggregate
- 3' sand green
- 4' Clay-Sand
- 5' Black Plastic
- 6' Clay
- water

sample depth 6'

South
 West
 North West
 Southeast
 Northeast

sample Black Clay, plastic, easy to push tube into.

North West same clay.

South East " "

Northeast " "

sample analyses due in 24 hrs (late Fri after-noon)

Rev 6/88

Contact: Matt Minter
 Title: V. Pres
 Signature: Matthew Minter

Inspector: William Faulhaber
 Signature: William Faulhaber

LOP - RECORD CHANGE REQUEST FORM

print. 08/08/

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

Insp: LS

AGENCY # : 10000 SOURCE OF FUNDS: F SUBSTANCE: 8006619
StID : 1202 LOC:
SITE NAME: Weyerhaeuser Paper Co. DATE REPORTED : 02/07/91
ADDRESS : 1801 Hibbard St DATE CONFIRMED:
CITY/ZIP : Alameda 94501 MULTIPLE RPs : N

SITE STATUS

CASE TYPE: O CONTRACT STATUS: 4 PRIOR CODE:3A2 EMERGENCY RESP:
RP SEARCH: S DATE COMPLETED: 03/30/92
PRELIMINARY ASMNT: U DATE UNDERWAY: 10/15/91 DATE COMPLETED:
REM INVESTIGATION: U DATE UNDERWAY: 02/28/91 DATE COMPLETED:
REMEDIAL ACTION: C DATE UNDERWAY: 02/28/91 DATE COMPLETED: 10/30/95
POST REMED ACT MON:U DATE UNDERWAY: 02/01/96 DATE COMPLETED:

ENFORCEMENT ACTION TYPE: 1 DATE ENFORCEMENT ACTION TAKEN: 03/30/92
LUFT FIELD MANUAL CONSID: 3HSC
CASE CLOSED: DATE CASE CLOSED:
DATE EXCAVATION STARTED : 02/27/91 REMEDIAL ACTIONS TAKEN: ED,VE,AS

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Ed Granados
COMPANY NAME: Weyerhaeuser Co.
ADDRESS: Weyerhaeuser Way, South
CITY/STATE: Tacoma, W A 98477

INSPECTOR VERIFICATION:

NAME SIGNATURE DATE

DATA ENTRY INPUT:

Name/Address Changes Only

Case Progress Changes

ANPNPGMS LOP DATE

LOP DATE

Is There a '0' file -
letters, etc. should be more for
96-97 + letters from JMS
copy to print

10*

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
PHONE NO. 415/271-4320

The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate agencies and for complying with all applicable laws and regulations. The contractor shall also be responsible for providing all necessary information to the Department of Environmental Health, including but not limited to, a copy of the permit and approval documents, a copy of the construction plan, and a copy of the test and piping log. The contractor shall also be responsible for providing all necessary information to the Department of Environmental Health, including but not limited to, a copy of the permit and approval documents, a copy of the construction plan, and a copy of the test and piping log.

There is a financial penalty for not obtaining these inspections.
Katherine Chemik 11/27/90

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

- Business Name Weyerhaeuser Paper Company
Business Owner _____
- Site Address 1801 Hubbard Street
City Alameda Ca Zip 94501 Phone 523-6121
- Mailing Address _____
City _____ Zip _____ Phone _____
- Land Owner Weyerhaeuser Paper Company
Address _____ City, State _____ Zip _____
- EPA I.D. No. ~~CAD 981466518~~ CAC 000542872
- Contractor Minter & Fahy Construction
Address 411 N. Buchanan Cir # 2
City Pacheco Ca Zip 94553 Phone 674-8800
License Type A Hazardous ID# ~~680063972~~ 477315
- Consultant Hageman Schank, Inc.
Address 3732 Mt. Diablo Blvd Suite 372
City Lafayette Ca Zip 94529 Phone 284-1661

1102
93300
10130190

8. Contact Person for Investigation

Name Matt Minter Title Vice President
Phone 674-8800

9. Total No. of Tanks at facility 45

10. Have permit applications for all tanks been submitted to this office? Yes No

11. State Registered Hazardous Waste Transporters/Facilities

a) Product/Waste Tranporter

Name H&H Ship Service EPA I.D. No. CAD004771168
Address 220 China Basin
City S.F. Ca State Ca zip 94107

b) Rinsate Transporter

Name H&H Ship Service EPA I.D. No. CAD004771168
Address 220 China Basin
City S.F. State Ca zip 94107

c) Tank Transporter

Name H&H Ship Service EPA I.D. No. CAD004771168
Address 220 China Basin
City S.F. State Ca zip 94107

d) Tank Disposal Site

Name H&H Ship Service EPA I.D. No. CAD004771168
Address 220 China Basin
City S.F. State Ca zip 94107

e) Contaminated Soil Transporter

Name Universal Engineering EPA I.D. No. CAD981466518
Address 610 Industrial Way
City Benicia State Ca zip 94570

12. Sample Collector

Name Hageman & Schank Inc.

Company _____

Address 3732 MT Diablo Blvd Suite 372

City Lafayette State Ca Zip 94549 Phone 284-1661

13. Sampling Information for each tank or area

Tank or Area		Material sampled	Location & Depth
Capacity	Historic Contents (past 5 years)		
550	Waste Oil	Soil	Collect one sample, beneath each tank no more than 2 feet below the native soil/backfill interface
550	Gasoline	Soil	
550	Gasoline	Soil	
10,000	Diesel	Soil	
One sample per 20 feet of piping			Collect two samples (one at each end) beneath tank (no greater than 2ft beneath soil/backfill interface)

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

If yes, describe. _____

15. NFPA methods used for rendering tank inert? Yes [X] No []

If yes, describe. Rinse tanks with pressure washer.

Dry Ice Tanks.

An explosion proof combustible gas meter shall be used to verify tank inertness.

16. Laboratories

Name GTEL

Address 4080-C Pike Lane

City Concord State Ca Zip 94520

State Certification No. 194

All associated piping must be flushed/drained into the tanks before tanks inerted & pumped. All associated piping must be removed or plugged.

17. Chemical Methods to be used for Analyzing Samples

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Number
BTEX-TPH as Gasoline Diesel Waste Oil	<u>EPA 5030</u> <u>EPA 3050</u> <u>EPA 3050</u>	<u>EPA Mod 8015/8020</u> <u>EPA Mod 8015</u> <u>EPA Mod 8015</u>

→ See attached sheet for analyses and detection limits.

18. Submit Site Safety Plan

19. Workman's Compensation: Yes No

Copy of Certificate enclosed? Yes No

Name of Insurer Transamerica Insurance Company

20. Plot Plan submitted? Yes No

21. Deposit enclosed? Yes No

22. Please forward to this office the following information within 60 days after receipt of sample results.

- a) Chain of Custody Sheets
- b) Original Signed Laboratory Reports
- c) TSD to Generator copies of wastes shipped and received
- d) Attachment A summarizing laboratory results

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 and safety.

* I will notify the Department of Environmental Health at least two (2) working days (48 hours) after approval of this closure plan in advance to schedule any required inspections. 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.

Signature of Contractor

Name (please type) Matthew W. Minter
Signature Matthew W. Minter
Date 10-29-90

Signature of Site Owner or Operator

Name (please type) Norm Stratford
Signature Norm Stratford
Date 10-30-90

NOTES:

1. Any changes in this document must be approved by this Department.
2. Any leaks discovered must be submitted to this office on an underground storage tank unauthorized leak/contamination site report form within 5 days of its discovery.
3. Three (3) copies of this plan must be submitted to this Department. One copy must be at the construction site at all times.
4. After approval of plan, notification of at least two (2) working days (48 hours) must be given to this Department prior to removal of tank(s).
5. A copy of your approved plan must be sent to the landowner.
6. Triple rinse means that:
 - a) Final rinse must contain less than 100 ppm of Gasoline (EPA method 8020 for soil, or EPA method 602 for water) or Diesel (EPA method 418.1). Other methods for halogenated volatile organics (EPA method 8010 for soil, EPA method 601 for water) may be required. The composition of the final rinse must be demonstrated by an original or facsimile report from a laboratory certified for the above analyses.
 - b) Tank interior is shown to be free from deposits or residues upon a visual examination of tank interior.
 - c) Tank should be labelled as "tripled rinsed; laboratory certified analysis available upon request" with the name and address of the contractor.

If all the above requirements cannot be met, the tank must be transported as a hazardous waste.

7. Any cutting into tanks requires local fire department approval.

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

ATTACHMENT A

SAMPLING RESULTS

Tank or Area	Contaminant	Location & Depth	Results (specify units)

INSTRUCTIONS

2. SITE ADDRESS

Address at which closure or modification is taking place.

5. EPA I.D. NO.

This number may be obtained from the State Department of Health Services, 916/324-1781.

6. CONTRACTOR

Prime contractor for the project.

7. OTHER

List professional consultants here.

12. SAMPLE COLLECTOR

Persons who are collecting samples.

13. SAMPLING INFORMATION

Historic contents - the principal product(s) used in the last 5 years.

Material sampled - i.e., water, oil, sludge, soil, etc.

16. LABORATORIES

Laboratories used for chemical and geotechnical analyses.

17. CHEMICAL METHODS:

All sample collection methods and analyses should conform to EPA or DHS methods.

Contaminant - Specify the chemical to be analyzed.

Sample Preparation Method Number - The means used to prepare the sample prior to analyses - i.e., digestion techniques, solvent extraction, etc. Specify number of method and reference if not an EPA or DHS method.

Analysis Method Number - The means used to analyze the sample - i.e., GC, GC-MS, AA, etc. Specify number of method and reference if not a DHS or EPA method.

NOTE:

Method Numbers are available from certified laboratories.

18. SITE SAFETY PLAN

A plan outlining protective equipment and additional specialized personnel in the event that significant amount of hazardous materials are found. The plan should consider the availability of respirators, respirator cartridges, self-contained breathing apparatus (SCBA) and industrial hygienists.

19. ATTACH COPY OF WORKMAN'S COMPENSATION

20. PLOT PLAN

The plan should consists of a scaled view of the facility at which the tank(s) are located and should include the following information:

- a) Scale
- b) North Arrow
- c) Property Line
- d) Location of all Structures
- e) Location of all relevant existing equipment including tanks and piping to be removed
- f) Streets
- g) Underground conduits, sewers, water lines, utilities
- h) Existing wells (drinking, monitoring, etc.)
- i) Depth to ground water
- j) All existing tanks in addition to the ones being pulled

rev. 9/88
mam

CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)

10/23/90

PRODUCER

MCCRACKEN, BOEDDIKER & OTT
INSURANCE BROKERS, INC.
855 OAK GROVE AVENUE
MENLO PARK, CA 94025
(415) 328-1400
CODE _____ SUB-CODE _____

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** TRANSAMERICA INSURANCE COMPANY
COMPANY LETTER **B** _____
COMPANY LETTER **C** _____
COMPANY LETTER **D** _____
COMPANY LETTER **E** _____

INSURED

MINTER & FAHY CONSTRUCTION
COMPANY, INC.
411 NORTH BUCHANAN CIRCLE, #2
FACHECO, CA 94553

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)	ALL LIMITS IN THOUSANDS
	GENERAL LIABILITY COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR OWNER'S & CONTRACTOR'S PROT.				GENERAL AGGREGATE PRODUCTS - COMP/OPS AGGREGATE PERSONAL & ADVERTISING INJURY EACH OCCURRENCE FIRE DAMAGE (Any one fire) MED. EXPENSE (Any one person)
	AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS GARAGE LIABILITY				COMBINED SINGLE LIMIT BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE
	EXCESS LIABILITY OTHER THAN UMBRELLA FORM				EACH OCCURRENCE AGGREGATE
A	WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY	80553565	4/18/90	4/18/91	STATUTORY 1,000 (EACH ACCIDENT) 1,000 (DISEASE - POLICY LIMIT) 1,000 (DISEASE - EACH EMPLOYEE)
	OTHER				

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

CERTIFICATE ISSUED AS EVIDENCE OF INSURANCE.

CERTIFICATE HOLDER

County of Alameda
Department of Environmental Health
80 Swan Way
Oakland, California

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 10 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

C.W. Ott

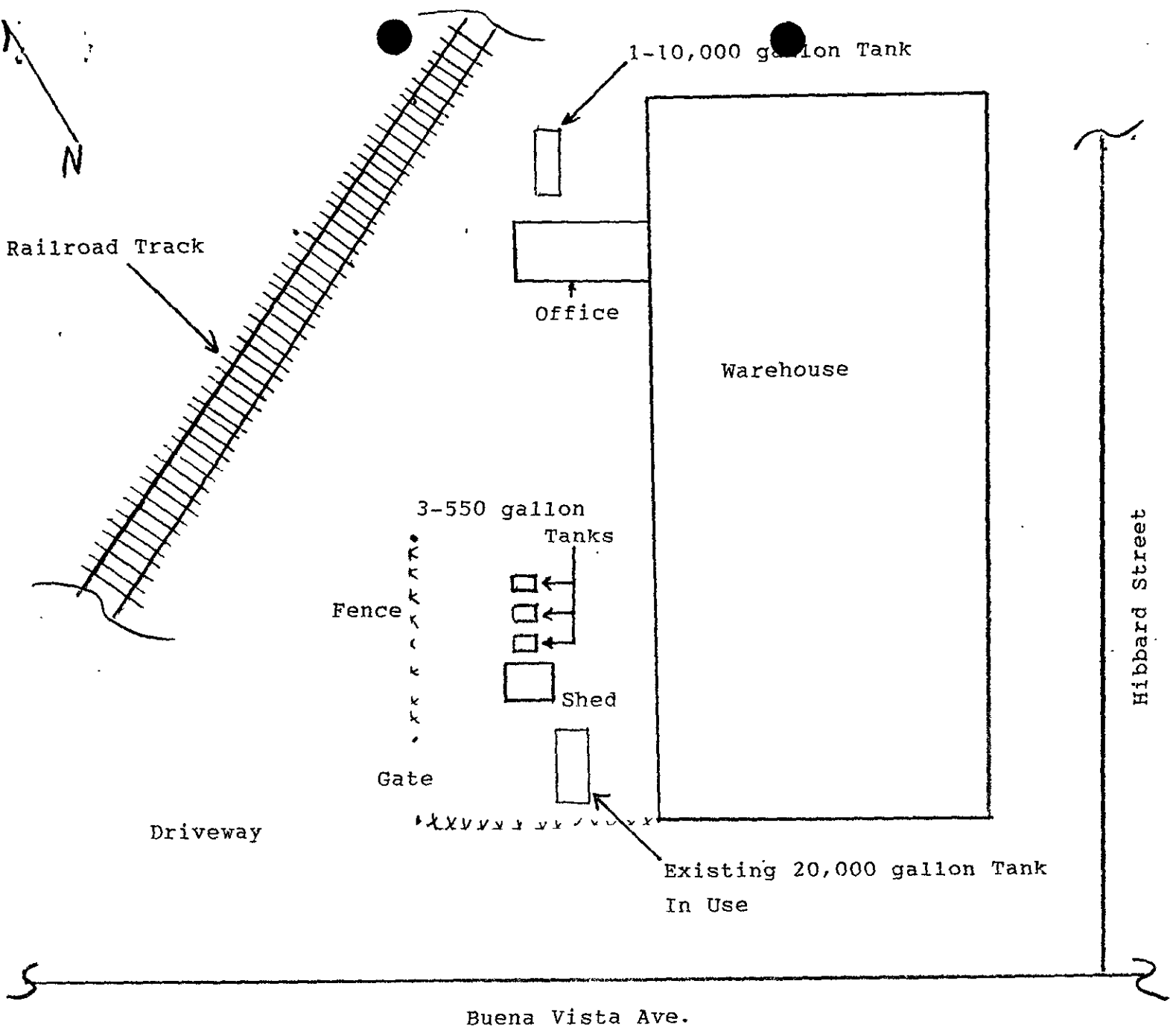


Location Map:

Weyerhaeuser Paper Co.
1801 Hibbard Street
Alameda, CA 94501

Tank Removal:

3-550 Gallon Tanks
1-10,000 Gallon Tank



Plot Plan:

Weyerhaeuser Paper Co.
 1801 Hibbard Street
 Alameda, CA 94501

Tank Removal:

- 3-550 Gallon Tanks
- 1-10,000 Gallon Tank

SAFETY & ACCIDENT PREVENTION

PROGRAM

**GENERAL ENGINEERING CONTRACTOR:
MINTER & FAHY CONSTRUCTION COMPANY, INC.
411 NORTH BUCHANAN CIRCLE #2
PACHECO, CA 94553**

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SUPPLEMENTAL SECTION

Job Name:

Weyerhaeuser Paper Company
1801 Hibbard St.
Alameda CA 94501

Scope of Work:

1. Removal of four underground tanks.
1-10,000 gallon and 3-550 gallon tanks
2. Obtain soil samples from bottom of excavation.
3. Backfill to subgrade.
4. Restore excavated surface with six inches of reinforced concrete.

Safety Officer:

Matthew W. Minter
Phone # 1-415-674-8800

Site Hazards:

This is a open area with no apparent visual hazards all underground utilities come in the front of the building from Buena Vista Ave. We are working on the west side of the building.



Emergency Hospital Route to:
Alameda Hospital
2070 Clinton Avenue
Alameda CA 94501
Emergency Room Phone # 532-4357

Route to take: From jobsite go left on Buena Vista Ave. which is east, to Willow Street, go right on Willow Street to Clinton Ave. the Hospital is on the corner of Willow Street and Clinton Ave. less than a mile from the jobsite.

EMERGENCY PHONE NUMBERS:

**FOR MOST ALL AREAS THAT MINTER & FAHY CONSTRUCTION
COMPANY WORKS, ESPECIALLY THE LOCAL BAY AREA, THE
EMERGENCY POLICE, FIRE, AND AMBULANCE CAN BE REACHED BY
DIALING:**

911

ADDITIONAL PHONE NUMBERS:

OFFICE: 415-674-8800

SERVICE TRUCK: 415-860-0994

JOHN FAHY (HOME) : 415-372-9303

MATT MINTER (HOME) : 415-754-0623

Minter & Fahy Construction Co., Inc.

CONTRACTORS LIC. NO. 477315
411 N. BUCHANAN CIRCLE #2 PACHECO, CALIFORNIA 94553
(415) 674-8800

EMPLOYEE LIST

John F. Fahy Jr.
131 Clipper Lane
Martinez, Ca. 94553
(415) 372-0358

Matthew W. Minter
2827 Lucena Way
Antioch, Ca. 94509
(415) 754-0623

James L. Minter
2212 Tyler Ct.
Antioch, Ca. 94509
(415) 757-1338

William Thweatt Jr.
2819 B Florida Ave.
Stockton, Ca. 95205
(209) 941-4940

James Horn
2122 Livingston Lane
Stockton, Ca. 95210
(209) 473-4849

Kirk Kent
4745 E. 4th Street
Stockton, Ca. 95205
(209) 462-1766

Paul Tibbits
1205 W 5th St.
Benicia, Ca. 94510
(707) 745-9165

Steven Gotz
117 Karen Lane
Martinez, Ca. 94553
(415) 372-8657

Brent Amerson
2165 Northwood Circle #C
Concord, Ca. 94520
(415) 825-6736

Daren Rae Archer
2131 Northwood Circle #G
Concord, Ca. 94520
(415) 798-4342

October 1989

Vehicle List

<u>Number</u>	<u>Year</u>	<u>Make</u>	<u>License</u>	<u>Vehicle I.D.</u>
#2	1964	Hopto, Warner & Swasey	2EKU607	3706
#3	1964	Hopto, Warner & Swasey	SFH087	3723
#6	1968	Ford Dump Truck	1M87097	U85BU835105
#9	1975	GMC Service/Dump Truck	95398X	TCY3357512398
#12	1978	GMC Service Truck	1K43612	TCL348Z509498
#15	1987	Ford F350 Service Truck	3F22121	1FDJF37L8HKA46711
#18	1989	GMC Suburban (M)	2LXV148	1GKGV26K8KF505633
#21	1989	GMC Suburban (J)	2LXL654	1GKGV26K8KF505065
#24	1977	Strongboy Trailer	UB1641	2768

SECTION ONE

SECTION ONE

SAFETY PROGRAM

TO ALL EMPLOYEES:

This manual is hereby distributed as the Minter & Fahy Construction Company Safety Manual. Federal and State safety laws require that a safety manual be written, and used, to see that safe conditions prevail in all of our work areas.

It is company policy that safety always be of prime concern, especially when working on the jobsite. Accidents cost everyone, and benefit no one, with the exception of doctors, attorneys, and morticians.

Minter & Fahy Construction is involved in the removal and the installation of underground fuel tanks. There are several areas where safety problems are the most demanding on our company. They are: excavations, backfill, electrical tools, air compressors, heavy equipment operation, and exposure to hazardous materials. The best way to prevent accidents is to identify and eliminate the causes before they happen. This manual will be used to help identify the causes, and thus prevent accidents from happening at all.

Weekly tailgate meetings shall be carried out by the Safety Officer assigned to each particular job, whenever two or more employees are located on one jobsite. Notifications of the meetings and the topic covered shall be forwarded to the office on the log sheets at the back of this manual.

We are proud of our record and it will take your constant attention to hazards to continue keeping working conditions safe.

SAFE PRACTICE PROGRAM

GENERAL

- 1. All persons shall follow these rules, render every possible aid to safe operations, and report unsafe conditions or practices to the proper authorities.**
- 2. The foreman shall insist that all employees observe all the safety rules.**
- 3. All employees shall be given frequent accident prevention instructions, once a month at a general meeting, and each week at the jobsite tailgate meetings.**
- 4. Anyone known to be under the influence of intoxicating liquor and/or drugs, will not be allowed on the jobsite, and will be subject to immediate release.**
- 5. Horseplay will be absolutely prohibited on the jobsite.**
- 6. Work shall be planned and supervised to forestall injuries in the handling of heavy materials and in working together with equipment.**
- 7. Employees shall not enter manholes, underground vaults, tanks, open excavations, or other similar places that receive little ventilation.**

8. Employees shall be alert to see that all guards and other protective devices are in proper places, and adjusted, and shall report any deficiencies to the foreman.

9. All injuries shall be reported promptly to an authorized person , so that arrangements can be made for first aid.

10. When lifting heavy objects, use the large muscles of the leg, instead of the smaller muscles of the back.

11. Gasoline shall not be used for cleaning purposes.

12. Heavy equipment shall only be operated by employees that have been instructed and trained for such operation.

USE OF TOOLS AND EQUIPMENT

1. Keep faces of hammers in good shape to avoid flying nails and bruised fingers.

2. Hold cold chisels in such a way so that the knuckles will be protected if the hammer misses the hand.

3. Do not use pipe wrenches as a substitute for other wrenches.

4. Files shall be equipped with handles.

5. Do not use a screwdriver for a chisel.
6. Keep hand saws sharp.
7. Do not push a wheelbarrow with handles in the upright position.
8. Do not leave the cords of portable electrical tools where cars or trucks can run over them.
9. Do not lift or lower portable tools by means of the cord, use a rope.
10. Do not alter wrench size by the use of a handle extension or a "cheater".
11. All tools and equipment shall be maintained in good condition. Any tool or piece of equipment that is damaged shall be removed from service and tagged "Defective".
12. No burning, welding or other source of ignition shall be applied to any enclosed tank or vessel, even if there are some openings, until it has first been determined that no possibility of explosion exists, and authority for the work is obtained from the foreman or the superintendent. The fire department must be present for these type of operations.

HEAVY EQUIPMENT, MACHINERY, AND VEHICLES

- 1. Do not operate machinery or equipment without the proper permission, training, and instruction.**
- 2. Machinery shall not be repaired or adjusted while in operation.**
- 3. Do not work under vehicles supported by jacks or chain hoists, without proper blocking.**
- 4. Air hoses should not be disconnected at any end until the hose has been bled.**
- 5. All excavations should be inspected before backfilling operations begin, to insure that it is safe to do so.**
- 6. Excavating equipment shall not be operated near tops of cuts, banks, and cliffs, if employees are working below.**
- 7. Tractors, and heavy equipment shall not be operated where there is a possibility of overturning in dangerous areas like edges of deep fills, cut banks, and steep slopes.**
- 8. At all times, during the operation of heavy equipment, proper protection, such as hard hats, gloves, and steel toed boots shall be worn.**

SECTION TWO

SECTION TWO

HEALTH AND SAFETY CONSIDERATIONS

A. Health and Safety Officer

James "Les" Minter is designated as the Health and Safety Officer for this project. He will be responsible for planning, implementing, and auditing the health and safety program for this construction work. He will be on site at all times to insure that the job flows in a safe manner. Les will be conducting weekly fifteen minute safety meetings with all construction personnel. He also will conduct monthly safety meetings with a minimum of one per location in the event that the construction schedule does not require a full month at each location. The Project Inspector may wish to be present at these meetings, so he will be notified in advance. Log sheets for the weekly and the monthly safety meetings can be found in the list of attached plates at the end of this booklet. The Health and Safety Officer shall fill out the sheet for each meeting.

B. Hazardous Substance Description

Light and heavy petroleum hydrocarbons, including benzene, toluene, and xylene may be encountered during the normal course of excavation and removal of the existing underground tanks, the associated piping, and the surrounding soil. These petroleum hydrocarbons will be in the form of gasoline and diesel fuel, with the BTX (Benzene, Toluene, and Xylene) being the result of the breakdown of these fuels in soil and water. Soil and/or

water samples will be taken at the discretion of the inspecting health officer from the county and/or the environmental health inspector. Appropriate measures will be taken in the event that the soil and or water is found to be contaminated.

C. Chemical Distribution

Petroleum hydrocarbons in the form of gasoline and diesel fuel will have the greatest concentrations at locations adjacent to the tanks and the associated piping, becoming less with distances away from the tank and associated piping. Utmost care will be taken to capture all residual product from the tank and associated piping so that it does not enter the soil or ground water.

D. Chemical Hazards

Potential chemical hazards include skin and eye contact and inhalation or exposure to potentially toxic concentrations of chemical vapors. The identified toxic compounds that could exist at the site are listed below with descriptions of specific effects of each. The list includes the main toxic constituents of gasoline (benzene, toluene, xylene, and ethylbenzene).

1. Benzene

- a. Characteristics: Clear, colorless, highly flammable liquid with characteristic odor.
- b. High exposure levels may cause: Acute restlessness, convulsions, depression, respiratory failure, suspected carcinogen.
- c. Permissible exposure level in the air (PEL) for a time average over an eight hour period: 10ppm

2. Toluene

- a. Characteristics: Refractive flammable liquid with benzene like odor.
- b. High exposure levels may cause: Headache, nausea, eye irritation, mild macrocytic anemia, but is less toxic than benzene.
- c. PEL for an 8 hour TWA: 200 ppm

3. Xylene

- a. Characteristics: clear, mobile, flammable liquid
- b. High exposure levels may cause: severe eye irritation skin irritation, narcosis.
- c. PEL for an 8 hour TWA: 100 ppm

4. Ethylbenzene

- a. Characteristics: colorless liquid, aromatic odor, highly flammable
- b. High exposure levels may cause: skin, nose, and eye irritation, dizziness, ataxia, loss of consciousness and respiratory failure.
- c. PEL for an 8 hour TWA: 100ppm

E. Physical Hazards

Other on site hazards may include physical injuries due to the proximity of workers to engine-driven heavy equipment and tools. Heavy equipment used during the excavation and removal of the underground tanks for this project include a Hopto, a rubber-tire mounted excavator, a backhoe, and a tractor. Only trained personnel will operate machines, tools, and equipment; all of which will be kept clean and in good repair. Safety

apparel required around the heavy equipment will include a hard hat. Perimeters of tank holes will be barricaded, flagged, taped, and or fenced. All work will be performed in accordance with OSHA guidelines.

All inspections will be coordinated with the Project Inspector with plenty of notice. Tank holes will not be vacated unless approved by the Project Inspector.

Noise Control: Work hours will be normal working hours of 8:00am to 4:00pm, unless otherwise approved by the Project Inspector. Noise will be kept at a minimum, as far as possible. Ear and eye protection will be provided during jackhammering, cutting, and excavation, where necessary. Explosives will not be permitted under any circumstances.

Job Clean Up: Site excavations will be cleaned on a daily basis so that all stockpiled material from the excavation is clearly marked and barricaded to reduce injury from rubble, dirt, and any unwanted material in walkways and thoroughfares.

SECTION THREE

SECTION THREE

WORK PLAN INSTRUCTIONS

A. Level of Protection

Regular daily surveys of the site and knowledge of the anticipated hazards will determine the level of protection and the proper safety procedures to be employed on a tank by tank basis. During use of heavy equipment and machinery, all construction personnel and site visitors must wear a hard hat. The workers coming into contact with the excavated materials will wear boots, gloves, and a hard hat.

All safety equipment and first aid kits can be found in the service truck which will be located at the site during the normal construction hours. Fire extinguishers and eye wash can also be found on this truck. All construction workers should become familiar with the location of all safety equipment on the jobsite. Construction workers should also be familiar with the location of the nearest phone (station or commercial) at each tank site. There is a phone available in the service truck on the jobsite.

B. Site Entry Procedures

The two general work areas are shown on the site plans at the end of this booklet. Access to each tank hole site will be controlled with barricades, flagging, and caution taping. All personnel entering the work zone of each tank removal will be qualified field personnel wearing the proper level of protection.

Site visitors will be required to wear hard hats which are available from the job superintendent. Eating, drinking, and especially smoking and any other practices which increase the probability of combustion or hand-to-mouth transfer will be prohibited in the work zone. Potable water will be available at the site.

C. Decontamination Procedures and Disposal

All disposable protective clothing will be put into plastic bags and disposed of in a garbage receptacle. Excavated soils will be stockpiled in designated areas until chemical analyses have been performed on the soil samples, or until the health inspector deems the material to be free of potential contamination hazard. The soil will be covered with plastic sheeting in the event that the health inspector suspects there to be a contamination hazard.

In the event of a medical emergency, the injured party will be taken through decontamination procedures, if possible. However, the procedures will be omitted when it may aggravate or cause harm to the injured party. A member of the work team will accompany the injured party to the medical facility to advise on matters concerning chemical exposure.

The Health and Safety officer will be notified if combustible gas vapor levels exceed ambient concentrations in the samples. Excavation will cease, equipment will be shut down, and personnel will withdraw from the area. The Health and Safety Officer will determine when personnel may return to the work area.

SECTION FOUR

SECTION FOUR

EMERGENCY MEDICAL CARE

In the event of an injury or suspected chemical exposure, the first responsibility of the Health and Safety Officer will be to prevent further injury. This objective will normally require an immediate end to work until the situation is rectified. The Health and Safety Officer may order an evacuation of the work party, as discussed in Section Three of this manual.

The Health and Safety Officer's primary responsibility in the event of an accident will be evacuation, first aid, and decontamination of injured team members. The Health and Safety Officer will determine safe evacuation areas and begin first aid.

Emergency numbers can be found in the Supplemental Section of this manual. When in doubt as to which number to call, dial 9-911 on the station phone, or 911 on the commercial phone.

Accident report forms can be found on the following pages. For any accident or injury, regardless of how minor, an accident report will be filled out and presented to the proper representatives of the OICC and the Contractor.

ACCIDENT REPORT SHEET

UNDERGROUND TANK REMOVAL PROJECT

CONTRACT NO. _____

DATE: _____

PERSON FILING REPORT: _____

LOCATION OF ACCIDENT: _____

NATURE OF ACCIDENT: _____

PERSON/PERSONS INVOLVED: _____

DESCRIPTION OF ACCIDENT: _____

REMEDIAL ACTION TAKEN: _____

SIGNATURE: _____

DATE: _____

ADDITIONAL COMMENTS: _____

Supplementary Record of Occupational Injuries and Illnesses

EMPLOYER

- 1. Name _____
- 2. Mail address _____
(No. and street) (City or town) (State)
- 3. Location, if different from mail address _____

INJURED OR ILL EMPLOYEE

- 4. Name _____ Social Security No. _____
(First name) (Middle name) (Last name)
- 5. Home address _____
(No. and street) (City or town) (State)
- 6. Age _____ 7. Sex: Male _____ Female _____ (Check one)
- 8. Occupation _____
(Enter regular job title, not the specific activity he was performing at time of injury.)
- 9. Department _____
(Enter name of department or division in which the injured person is regularly employed, even though he may have been temporarily working in another department at the time of injury.)

THE ACCIDENT OR EXPOSURE TO OCCUPATIONAL ILLNESS

- 10. Place of accident or exposure _____
(No. and street) (City or town) (State)
If accident or exposure occurred on employer's premises, give address of plant or establishment in which it occurred. Do not indicate department or division within the plant or establishment. If accident occurred outside employer's premises at an identifiable address, give that address. If it occurred on a public highway or at any other place which cannot be identified by number and street, please provide place references locating the place of injury as accurately as possible.
- 11. Was place of accident or exposure on employer's premises? _____ (Yes or No)
- 12. What was the employee doing when injured? _____
(Be specific. If he was using tools or equipment or handling material, name them and tell what he was doing with them.)

- 13. How did the accident occur? _____
(Describe fully the events which resulted in the injury or occupational illness. Tell what happened and how it happened. Name any objects or substances involved and tell how they were involved. Give full details on all factors which led or contributed to the accident. Use separate sheet for additional space.)

OCCUPATIONAL INJURY OR OCCUPATIONAL ILLNESS

- 14. Describe the injury or illness in detail and indicate the part of body affected. _____
(e.g.: amputation of right index finger at second joint; fracture of ribs; lead poisoning; dermatitis of left hand, etc.)
- 15. Name the object or substance which directly injured the employee. (For example, the machine or thing he struck against or which struck him; the vapor or poison he inhaled or swallowed; the chemical or radiation which irritated his skin; or in cases of strains, hernias, etc., the thing he was lifting, pulling, etc.) _____
- 16. Date of injury or initial diagnosis of occupational illness _____ (Date)
- 17. Did employee die? _____ (Yes or No)

OTHER

- 18. Name and address of physician _____
 - 19. If hospitalized, name and address of hospital _____
- Date of report _____ Prepared by _____
Official position _____

SECTION FIVE

SECTION FIVE

EMERGENCY PROCEDURES

A. Response to an Emergency

In case of an injury, the Health and Safety Officer will use the appropriate first aid kit and contact off-site medical help, if appropriate.

If medical evacuation is required, the escape route will be determined by the Health and Safety Officer and the Project Inspector depending on which tank site the work force is currently operating.

B. Emergency Contacts

Ambulance, Fire : Dial 9-911 or 911

Security : Dial 2555 or 646-2555

Poison Control : Dial 9-242-7631 or 242-7631

C. Acute Exposure Symptoms and First Aid

Exposure	Symptoms	First Aid
Skin	Dermatitis	Wash immediately with soap and water, contact outside help, if required
Eye	Irritated eyes	Flush eyes with water, contact ambulance
Inhalation	Vertigo, tremor	Move person to fresh air, cover source
Ingestion	Nausea, vomiting	Call Poison control

D. Contingency Plan

The following procedures will be used in case of an unpredictable event:

FIRE: Use fire extinguisher if localized and call the fire department if uncontrolled.

CHEMICAL EXPOSURE: Follow first aid treatment specified in previous section.

PHYSICAL INJURY: Provide first aid treatment and contact ambulance for evacuation to hospital, if appropriate.

SECTION SIX

PERMITS

Permits for excavations and or trenches five feet deep
or more in which workers must enter can be obtained at
our local office :

CAL OSHA

1465 ENEA CIRCLE

BUILDING E SUITE 900

CONCORD, CA 94520

415-676-5333

DIVISION OF OCCUPATIONAL
SAFETY AND HEALTH

DISTRICT OFFICES

Bakersfield	4800 Stockdale Hwy.	93309	(805) 395-2718
Berkeley	1625 Shattuck Ave.	94709	(415) 540-3030
Concord	1465 Enea Circle	94520	(415) 676-5334
Covina	233 N. Second Ave.	91723	(818) 331-4875
Fresno	2550 Mariposa St.	93721	(209) 445-5302
Long Beach	245 W. Broadway	90802	(213) 590-5035
Los Angeles	3460 Wilshire Blvd.	90010	(213) 736-3041
Modesto	1800 Coffee Rd.	95355	(209) 576-6260
Redding	1421 Court St.	96001	(916) 225-2885
Sacramento	2422 Arden Way	95825	(916) 920-6123
San Bernardino	303 W. Third St.	92401	(714) 383-4321
San Diego	7807 Convoy Court	92111	(619) 237-7325
San Francisco	455 Golden Gate Ave.	94102	(415) 557-1677
San Jose	100 Paseo de San Antonio	95113	(408) 277-1260
San Mateo	1900 So. Norfolk St.	94403	(415) 572-9424
Santa Ana	28 Civic Center Plaza	92701	(714) 558-4141
Santa Fe Springs	14111 E. Freeway Dr.	90670	(213) 802-1711
Santa Rosa	50 "D" St.	95404	(707) 576-2388
Van Nuys	6150 Van Nuys Blvd.	91401	(818) 901-5403
Ventura	5720 Ralston St.	93003	(805) 654-4581
Vernon	2833 Leonis Blvd.	90058	(213) 589-5848

FIELD OFFICES

Chico	555 Rio Lindo Ave.	95926	(916) 345-7131
Eureka	619 Second Ave.	95501	(707) 442-6232
Salinas	21 W. Laurel Dr.	93906	(408) 443-3050
Santa Barbara	3704 State St.	93105	(805) 682-2578
Stockton	31 E. Channel St.	95202	(209) 948-7762
Ukiah	776 S. State St.	95482	(707) 462-8850



TRENCH and EXCAVATION SAFETY GUIDE



CAL/OSHA Communications
525 Golden Gate Ave.
San Francisco, CA 94102

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TRENCH AND EXCAVATION SAFETY GUIDE

Each year workers are killed and disabled in excavation and trench cave-ins in California. Almost all of these accidents result from failure to shore or slope the trench or from inadequate shoring or sloping. This pamphlet provides guidelines based on CAL/OSHA standards for shoring, sloping, and benching. The number of cave-in accidents will be reduced if these guidelines and applicable CAL/OSHA standards are followed.

This is not a legal interpretation or a restatement of current CAL/OSHA regulations. Refer to Title 8, Sections 1503 and 1539-1547, for current regulations.

BEFORE YOU DIG

Obtain the required permit from the Division of Occupational Safety and Health (DOSH) before constructing trenches or excavations 5 feet deep or more into which a person is required to descend. Contact a DOSH District or Field office for information regarding the permit application procedure.

Determine whether any underground installations such as sewer, water, or fuel lines are likely to be encountered. You can get this information by calling the Underground Service Alert (USA); in Northern California (800) 642-2444 and in Southern California 1-(800) 422-4133.

With the exception of emergency repair work, give owners of underground facilities in the area at least 48 working hours advance notice before you begin excavation work.

SUPERVISION. All work in an excavation must be supervised by a qualified person.

HAZARDS

Remove trees, poles, boulders, and similar objects which may be hazardous to workers.

Do not allow work in or near the excavation until a qualified person has determined that no hazard to workers exists from possible moving ground.

Inspect excavations after rainstorms, thaws, or other events which may affect the stability of the soil and increase hazards before workers are allowed to enter the excavation.

Protect workers who enter excavations 5 feet deep or more with a system of shoring, sloping, benching, or equivalent alternative methods. When necessary, provide similar protection for workers in excavations less than 5 feet deep.

SPOIL. Dump excavated material far enough from the edge of the trench so that it does not fall back. When trenches are 5 feet deep or more, locate the spoil at least 2 feet from the edge. Do not contain the spoil by any method which will disturb the soil already in place (such as driving stakes).

ACCESS. Provide a safe and convenient way for workers to enter and leave the excavation. In trenches 4 feet deep or more, provide a safe means of access within 25 feet of any work area in the excavation.

CROSSINGS. Install crossings with standard guardrails and toeboards when the excavation is more than 7½ feet deep.

UNDERMINING. Do not excavate beneath the level of the base of an adjacent foundation, retaining wall or other structure until a qualified person has determined that the earth work will not create a hazard to workers. Support undermined sidewalks so they will support anticipated loads.

If the excavation endangers the stability of adjoining structures, shore, brace, or underpin those structures.

RETAINING WALLS. Do not use an existing wall or structure as a retaining wall until it has been determined that it will safely support expected loads.

REMOTE WORK LOCATIONS. Provide barriers to prevent workers from falling into excavations.

Barricade or securely cover all wells, pits, shafts, and caissons.

Backfill temporary wells, pits, and shafts when the operation is completed.

WATER ACCUMULATION. Use diversion ditches, dikes, and other effective methods to prevent water from entering the excavation and to drain surrounding areas.

VIBRATIONS OR SUPERIMPOSED LOADS. Use additional bracing to strengthen shoring in excavations located near streets, railroads, or other sources of vibration and external loads. Take similar precautions when excavations are made in areas that have been previously filled.

SHORING, SLOPING, AND BENCHING SYSTEMS

Provide devices which allow the upper cross braces to be set in place from ground level. In deep trenches where additional braces are needed, workers should proceed downward, protected by cross braces already set in place. When removing shoring, use the reverse procedure.

STANDARD SHORING SYSTEM Install shoring in accordance with Tables 1 and 2 on pages 15 and 16 and diagrams on pages 17 through 21, or according to plans prepared by a civil engineer registered in California.

Shoring must be composed of:

Solid wood sheathing or wood sheet-piling not less than 2 inches thick

Plywood at least 1½ inches thick

Wood uprights at least 2 inches by 8 inches

Wood braces and diagonal shores at least 4 inches by 4 inches and not subjected to compressive stress in excess of values given by the following formula:

$$S = 1300 - (20L/D)$$

Maximum Ratio (L/D) = 50

L—length, unsupported (in inches)

D—least side of the timber (in inches)

S—allowable stress (in pounds per square inch of cross section)

Wedge or cleat diagonal shores (struts) at the bulkhead end. If diagonal shores bear on the ground, they should not impose loads in excess of the test-determined soil-bearing values. (Allow for the horizontal component of force.)

Do not place diagonal shores at an angle greater than 45° from the horizontal.

Securely anchor tie rods when they are used to restrain the top of sheathing or other restraining systems.

Assume that there is full loading due to ground water when using tight sheathing or sheet piling (unless full loading is prevented by weep holes, drains, or other methods).

Provide additional stringers, ties, and bracing to allow temporary removal of individual supports.

Thickness of sheathing and spacing of shores:

Minimum Rough Thickness of Sheathing or Lagging	Maximum Spacing of Shores
2 inches	4 feet
3 inches	7 feet

TRENCH SHORING SYSTEMS. Do not slope a shored trench in excess of 15° from the vertical. Make uprights at least 2 inches in nominal thickness. Plywood panels at least ¾ inches thick may be installed behind the uprights to hold loose material not likely to impose heavy loads.

Extend uprights to the top of the trench and to within at least 2 feet of the bottom. If running soil is encountered, extend uprights to the bottom of the trench.

Cross braces—Always use at least two braces. Install one horizontal brace for each 4 foot zone or partial zone measuring 2 feet or more. Use metal screw-type trench jacks with a base on each end or timbers placed horizontally against the uprights or stringers. Hydraulic braces may also be used.

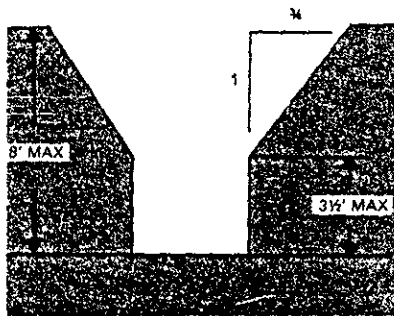
PROTECTIVE SHIELDS AND WELDING HUTS. Plans for protective shields and welding huts must be prepared by a civil engineer registered in California. Construct protective shields and welding huts out of steel or other material providing equivalent strength. They must provide protection equivalent to that afforded by adequate shoring.

BELL OR POT HOLES. Shore and brace bell and pot holes unless protective shields or welding huts are used.

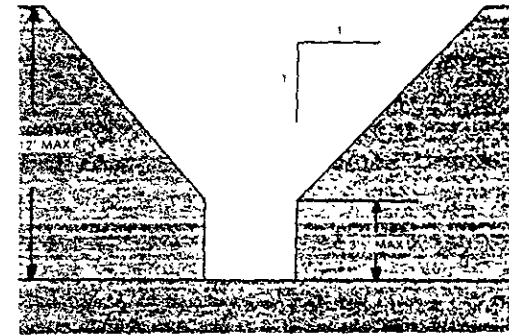
SLOPING OR BENCHING SYSTEMS. When sloping is used as a substitute for shoring, the slope should be at least $\frac{3}{4}$ horizontal to 1 vertical unless the instability of the soil requires a flatter slope.

Exceptions:

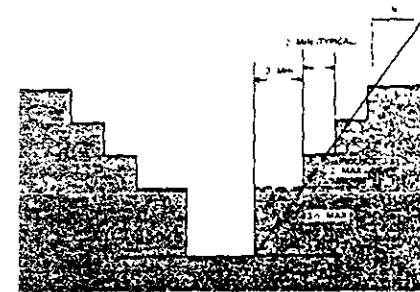
In hard, compact soil where the depth of the excavation or trench is 8 feet or less, make a vertical cut of $3\frac{1}{2}$ feet with a slope of $\frac{3}{4}$ horizontal to 1 vertical.



In hard, compact soil where the depth of the excavation or trench is 12 feet or less, make a vertical cut of $3\frac{1}{2}$ feet with a slope of 1 horizontal to 1 vertical.



When benching in hard, compact soil, use a slope ratio of $\frac{3}{4}$ horizontal to 1 vertical, or flatter



SHAFTS

Retain all wells or shafts over 5 feet deep which workers are allowed to enter with lagging, spiling, or casing. Extend the lagging, spiling, or casing at least 1 foot above the ground, the full length of the shaft, and at least 5 feet into solid rock (if possible).

SMALL SHAFTS IN HARD, COMPACT SOIL. 2 inch cribbing can be used in square shafts not over 4 feet square. Cut half way through the width of the member and dovetail into position so that each member will act as a shore as well as lagging. Nail strips in the corner to prevent boards from dropping down.

SHAFTS IN OTHER THAN HARD, COMPACT SOIL. Use a system of lagging supported by braces and corner posts for square or rectangular shafts. In shafts 4 feet square or smaller, use 4 inch by 4 inch members at intervals of no more than 4 feet. Braces and corner posts in larger shafts should be correspondingly larger. The appropriate size should be determined by a registered civil engineer.

Completely lag round shafts with 2 inch material supported by adjustable rings of metal or timber at intervals of no more than 4 feet or case in a way which provides equivalent protection.

BELL EXCAVATIONS. Include the following to protect workers engaged in belling or enlarging the bottoms of shafts:

- Physical protection from potential ground movement or collapse
- Mechanical ventilation
- A line for instant rescue fastened to a shoulder harness and worn by each worker entering the shaft
- A hoist and platform for lifting and lowering workers in shafts over 50 feet deep
- Barriers to prevent materials from falling into the shaft

EARTHWORK AND EXCAVATING

Install a bench or other method of working if the height and the condition of the face pose a hazard to workers. When a bench method of operation is needed, construct a setback of at least $\frac{1}{2}$ the height of the single face or bank for each section of the face or bank.

The maximum slope of the face depends on:

- The nature of the material being excavated
- The compaction of the material
- The height of the face
- The type and size of the equipment used at the face and the amount of protection this equipment affords the operator
- The safety of workers not protected by such equipment

Do not make the slope steeper than $\frac{3}{4}$ to 1 when the height of the excavation is greater than the bucket of the excavator or loader can reach and when the face is composed of loose or ravelling material.

Do not allow a slope steeper than $\frac{1}{2}$ to 1 when the height of the excavation is greater than the bucket of the excavator or the loader can reach when the face is composed of material which will stand in place but which is not firmly cemented or consolidated.

OVERBURDEN

Do not allow a person under a face or bank where stripping or any other similar operation constitutes a hazard.

Use barriers, baffle boards, screens, or other devices to protect workers from material rolling or sliding down the slopes.

FACE INSPECTION AND CONTROL

Make daily inspections of faces, banks, and tops where workers are exposed to falling or rolling material, and correct any unsafe conditions. Do not allow anyone to work near an unsafe face.

Prohibit overhanging banks except:

- When material is moved by mechanical equipment with controls at a safe distance
- When the bank is undercut by a stream and the monitor is located a safe distance from the bank

When necessary, station a worker at the face who is instructed to give a warning when loose rock or other materials begin to fall. Provide this worker with the means of giving adequate warning to other workers. While the worker is assigned to this job, do not assign her/him to any other work.

Provide enough illumination for safe night work. Do not allow night work unless the working area is sufficiently illuminated so that movement of workers and equipment can be easily seen.

Keep workers away from dangerous areas that are not work areas by posting KEEP OUT signs or erecting barricades.

PROTECTION OF WORKERS AT THE FACE

Prohibit work above or below workers at the face if such work endangers their safety.

On top of the bank:

- Fence with guardrails or ropes.
- Use a railed platform.
- Have workers use safety belts and life lines.

Exceptions:

When the bank is less than 20 feet high
When the slope is flatter than $\frac{3}{4}$ to 1
When no work is being done within 10 feet of the edge

On the face:

Remove loose rock from over the working place.

Have workers use safety belts and life lines.
(Life lines used for scaling or inspection should be protected from excessive fraying or damage and made of a minimum of $\frac{3}{8}$ inch wire core manila rope.)

Use portable staging.

Use a boatswains chair or skips especially designed for faces.
(When using a boatswains chair, also use a safety belt and life line equipped with an effective descent control.)

Assign two or more workers cooperating with each other for drilling, blasting, or removing loose rock.

At the foot of the bank:

Remove loose rock from above the working place.

Maintain a ready exit to a place of safety.

Tables containing specifications for wood shoring and for shoring in running soils are printed in the Safety Orders. This table (1) and the table on the following page (2) cover the most common shoring materials and soil conditions

TABLE 1
METAL-WOOD SHORING FOR HARD COMPACT SOIL

DEPTH (FEET)	UPRIGHTS		BRACES (STRUTS) AT 8' ON CENTERS				STRINGER (WALER) (WOOD) SIZE
	HORIZ. SPACING (FEET)	WOOD SIZE (INCHES)	ALUMINUM PIPE		STD. STEEL PIPE		
			MIN. ID (INCHES)	MAX. EXCAV. WIDTH (FEET)	MIN. ID (INCHES)	MAX. EXCAV. WIDTH (FEET)	
5	8	3×8	2½ (3½)	8 (10)	1½	3	
to	4	2×10	2½ (3½)	8 (14)	1½	3	4×4
7	2	2×8	2½ (3½)	8 (20)	1½	3	4×4
Over 7	8	4×10	2½ (3½)	6 (8)	2	6	
to	4	3×10	2½ (3½)	9 (11)	2½	12	6×8
10	2	3×8	2½ (3½)	12 (16)	3	15	6×8
Over 10	8	6×8	2½ (3½)	6 (7)	2 (2½)	8 (12)	
to	4	4×8	2½ (3½)	8 (10)	2 (2½)	10 (11)	8×8
12	2	3×8	2½ (3½)	10 (15)	2½ (3)	13 (15)	8×8
Over 12	8	6×8	2½ (3½)	5 (6)	2 (2½)	6 (10)	
to	4	4×10	2½ (3½)	7 (9)	2 (2½)	8 (12)	8×10
15	2	3×10	2½ (3½)	9 (13)	2½ (3)	13 (15)	8×10
Over 15	8	6×10	2½ (3½)	4 (5)	2½ (3)	8 (12)	
to	4	4×12	2½ (3½)	6 (8)	2½ (3)	10 (15)	6×12
20	2	3×12	2½ (3½)	8 (11)	2½ (3)	12 (15)	6×12
Over 20	See Section 1541(a)(6)						

- Metal pipe braces must be schedule 40, standard steel pipe or equivalent.
- Timber must be "selected lumber". See CSO 1504.
- Timber members of equivalent "section modulus" may be used for uprights and stringers shown in these tables.
- See page 17 for screw jack installation.
- Numbers in parentheses indicate maximum safe span for a specified diameter pipe.
- Tables may be modified by a civil engineer. See CSO 1541 (a) (6).
- Metal sheeting or other material equivalent to the strength of the wood members may be used.
- Place stringers to develop maximum strength (long side horizontal).

TABLE 2
HYDRAULIC SHORING FOR HARD COMPACT SOIL

DEPTH (FEET)	UPRIGHTS		STRINGERS (WALER)		BRACES (STRUTS)		
	HORIZONTAL SPACING (FEET)	SIZE ALUMINUM RAIL	SIZE ALUMINUM RAIL	VERTICAL SPACING (FEET)	HYDRAULIC CYLINDERS	HORIZ SPACING (FEET)	MAX EXCV WIDTH (FEET)
5 to 7	8	8" Wide Standard ***	6" Wide Standard ***	5	2" ID-2½" OD	8 cc	12 20
Over 7 to 12	8	8" Wide Standard ***	6" Wide Standard ***	5	2" ID-2½" OD	8 cc	9 20
Over 12 to 16	6	8" Wide Standard or HD	6" Wide Standard or 8" Wide HD	5	2" ID-2½" OD	6 cc	9 20
Over 16 to 20	6	8" Wide Standard or HD	6" Wide Standard or 8" Wide HD	4	2" or 3" ID or 2½" or 3½" OD	4 cc	9 20
Over 20	•	•	8" Wide HD	4	2½" or 3½" OD	•	•

Over 20 See Section 1541(a)(6)

* Plywood may be used behind uprights.

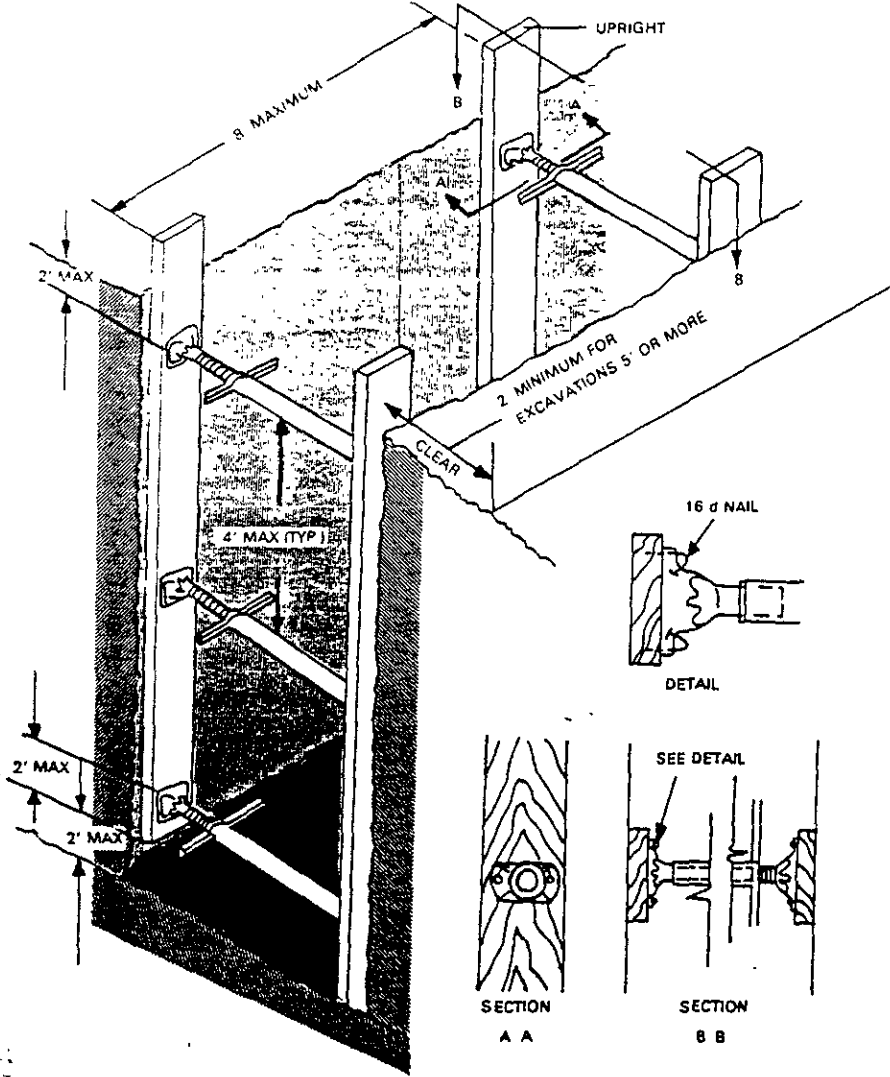
** Use a 3½ x 3½ x 3/16" steel oversleeve to Std 2" ID.
No steel oversleeve required on 3" ID

*** See Hydraulic Shoring Association Manual for strength of rails

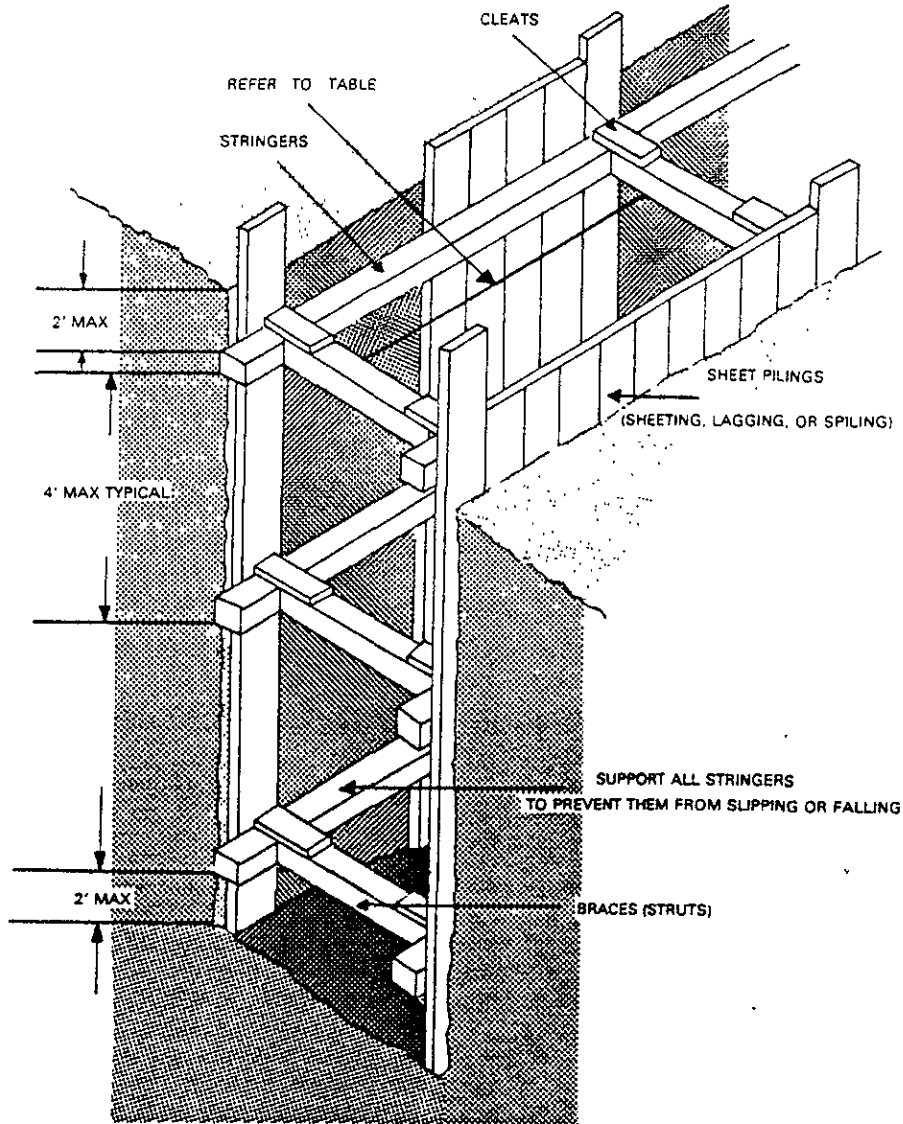
• If wooden members are used, refer to Tables 1 or 3 in GISO 1541

• Tables may be modified by a civil engineer. See GISO 1541 (a) (c)

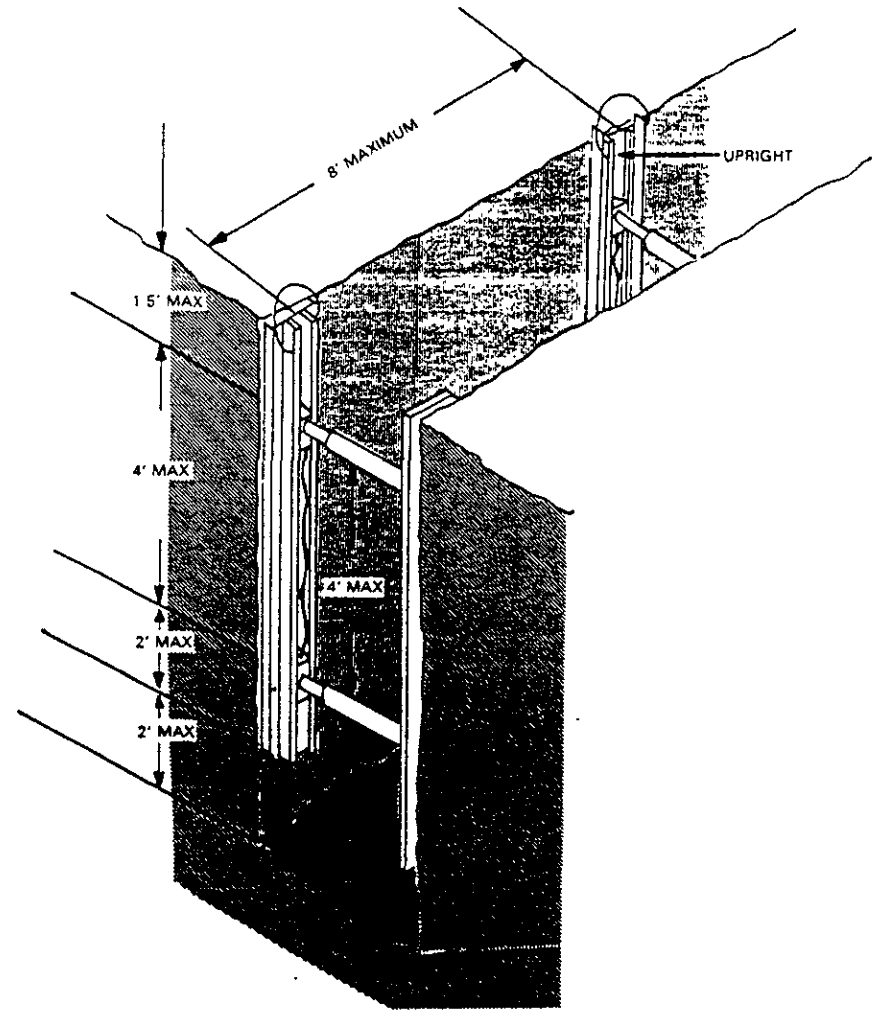
MINIMUM SHORING REQUIREMENT IN HARD COMPACT SOIL



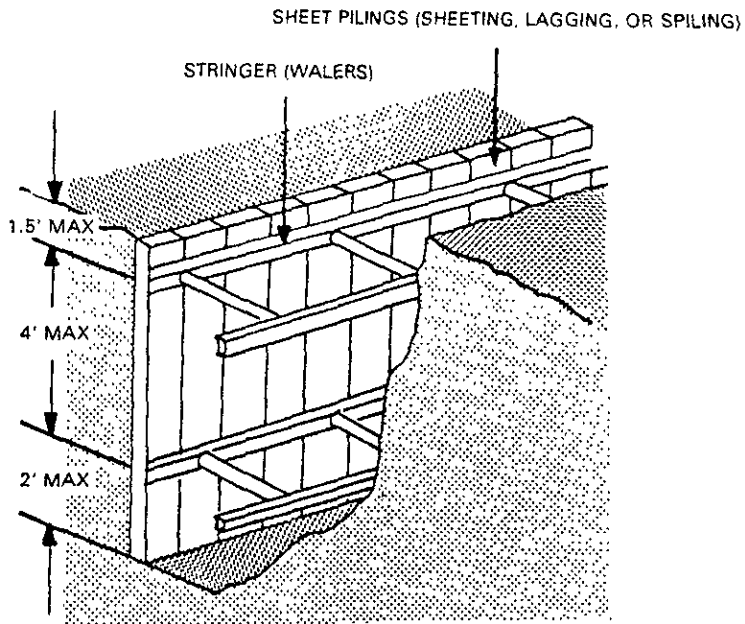
CLOSE SHEETING METHOD IN RUNNING SOIL



MINIMUM SHORING REQUIREMENT IN HARD COMPACT SOIL—HYDRAULIC



**CLOSE SHEETING METHOD IN RUNNING SOIL
HYDRAULIC**



**TYPICAL INSTALLATION IN HARD COMPACT SOIL—
HYDRAULIC**

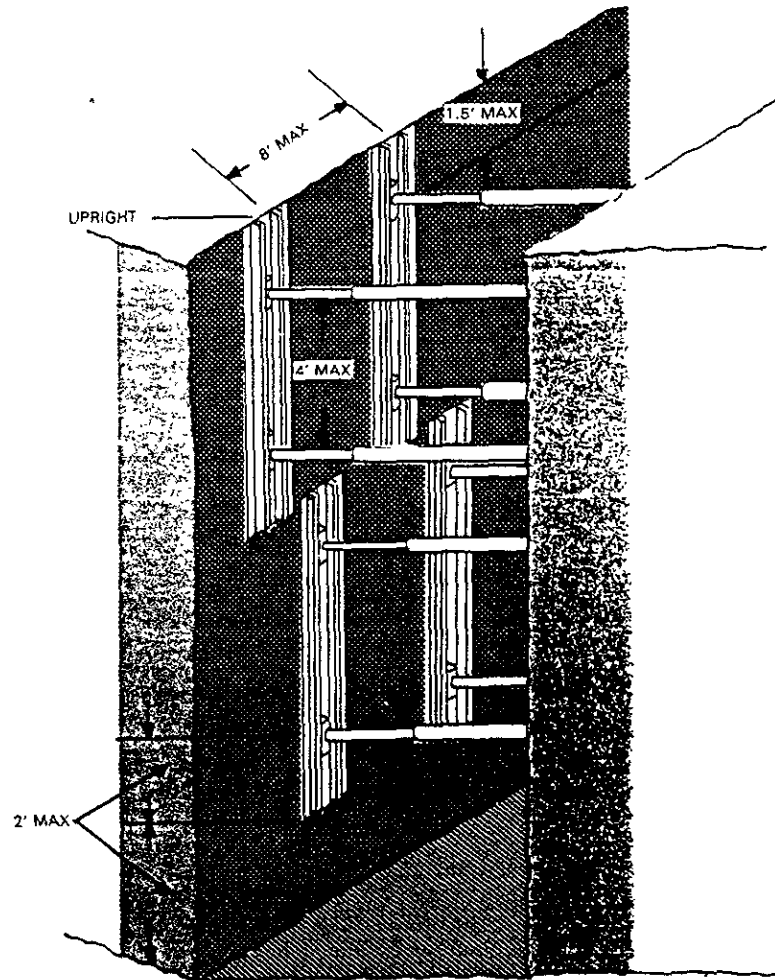


TABLE #2
 REVISED 10 AUGUST 1990

RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR
 UNDERGROUND TANK LEAKS

<u>HYDROCARBON LEAK</u>	<u>SOIL ANALYSIS</u>		<u>WATER ANALYSIS</u>	
<u>Unknown Fuel</u>	TPH G	GCFID(5030)	TPH G	GCFID(5030)
	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602, 624 or 8260
	TPH AND BTX&E	8260		
<u>Leaded Gas</u>	TPH G	GCFID(5030)	TPH G	GCFID(5030)
	BTX&E	8020 or 8240	BTX&E	602, 624 or 8260
	TPH AND BTX&E	8260		
	TOTAL LEAD	AA	TOTAL LEAD	AA
	---Optional---			
	TEL	DHS-LUFT	TEL	DHS-LUFT
	EDE	DHS-AB1803	EDE	DHS-AB1803
<u>Unleaded Gas</u>	TPH G	GCFID(5030)	TPH G	GCFID(5030)
	BTX&E	8020 or 8240	BTX&E	602, 624 or 8260
	TPH AND BTX&E	8260		
<u>Diesel</u>	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602, 624 or 8260
	TPH AND BTX&E	8260		
<u>Jet Fuel</u>	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602, 624 or 8260
	TPH AND BTX&E	8260		
<u>Kerosene</u>	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602, 624 or 8260
	TPH AND BTX&E	8260		
<u>Fuel/Heating Oil</u>	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602, 624 or 8260
	TPH AND BTX&E	8260		
<u>Chlorinated Solvents</u>	CL HC	8010 or 8240	CL HC	601 or 624
	BTX&E	8020 or 8240	BTX&E	602 or 624
	CL HC AND BTX&E	8260	CL HC AND BTX&E	8260
<u>Non Chlorinated Solvents</u>	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602 or 624
	TPH AND BTX&E	8260	TPH AND BTX&E	8260
<u>Waste and Used Oil or Unknown</u>	TPH G	GCFID(5030)	TPH G	GCFID(5030)
	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	TPH AND BTX&E	8260		
	O & G	5520 D&F	O & G	5520 C&F
	BTX&E	8020 or 8240	BTX&E	602, 624 or 8260
	CL HC	8010 or 8240	CL HC	601 or 624
	ICAP or AA TO DETECT METALS:			Cd, Cr, Pb, Zn, Ni
	METHOD 8270 FOR SOIL OR WATER TO DETECT:			
	PCB*		PCB*	
	PCP*		PCP*	
	PNA		PNA	
	CREOSOTE		CREOSOTE	

*If found, analyze for dibenzofurans (PCBs) or dioxins (PCP)

EXPLANATION FOR TABLE #2: MINIMUM VERIFICATION ANALYSIS

1. OTHER METHODOLOGIES are continually being developed, and as methods are accepted by EPA or DHS, they also can be used.
2. For DRINKING WATER SOURCES, EPA recommends that the 500 series for volatile organics be used in preference to the 600 series because the detection limits are lower and the QA/QC is better.
3. APPROPRIATE STANDARDS for the material stored in the tank are to be used for all analyses on Table #2. For instance, seasonally, there may be five different jet fuel mixtures to be considered.
4. TO AVOID FALSE POSITIVE detection of benzene, benzene-free solvents are to be used.
5. TOTAL PETROLEUM HYDROCARBONS (TPH) as gasoline (G) and diesel (D) ranges (volatile and extractible, respectively) are to be analyzed and characterized by GCFID with a fused capillary column and prepared by EPA method 5030 (purge and trap) for volatile hydrocarbons, or extracted by sonication using 3550 methodology for extractible hydrocarbons. Fused capillary columns are preferred to packed columns; a packed column may be used as a "first cut" with "dirty" samples or once the hydrocarbons have been characterized and proper QA/QC is followed.
6. TETRAETHYLLEAD (TEL) analysis may be required if total lead is detected unless the determination is made that the total lead concentration is geogenic (naturally occurring).
7. CHLORINATED HYDROCARBONS (CL HC) and BENZENE, TOLUENE, XYLENE AND ETHYLBENZENE (BTX&E) are analyzed in soil by EPA methods 8010 and 8020, respectively, (or 8240) and for water 601 and 602, respectively, (or 624).
8. OIL AND GREASE (O & G) may be used when heavy, straight chain hydrocarbons may be present. Infrared analysis by method 418.1 may also be acceptable for O & G if proper standards are used. "Standard Methods" 17th Edition, 1989, has changed the 503 series to 5520.
9. PRACTICAL QUANTITATION REPORTING LIMITS are influenced by matrix problems and laboratory QA/QC procedures. Following are the Practical Quantitation Reporting Limits:

	<u>SOIL PPM</u>	<u>WATER PPB</u>
TPH G	1.0	50.0
TPH D	1.0	50.0
BTX&E	0.005	0.5
O & G	50.0	5,000.0

Based upon a Regional Board survey of Department of Health Services Certified Laboratories, the Practical Quantitation Reporting Limits are attainable by a majority of laboratories with the exception of diesel fuel in soils. The Diesel Practical Quantitation Reporting Limits, shown by the survey, are:

Routine	Modified Protocol
≤ 10 ppm (42%)	≤ 10 ppm (10%)
≤ 5 ppm (19%)	≤ 5 ppm (21%)
≤ 1 ppm (35%)	≤ 1 ppm (60%)

When the Practical Quantitation Reporting Limits are not achievable, an explanation of the problem is to be submitted on the laboratory data sheets

- LABORATORY DATA SHEETS are to be signed and submitted which include the laboratory's assessment of the condition of the samples on receipt including temperature, suitable container type, air bubbles present/absent in VOA bottles, proper preservation, etc. The sheets are to include the dates sampled, submitted, prepared for analysis, and analyzed.
- IF PEAKS ARE FOUND, when running samples, that do not conform to the standard, laboratories are to report the peaks, including any unknown complex mixtures that elute at times varying from the standards. Recognizing that these mixtures may be contrary to the standard, they may not be readily identified; however, they are to be reported. At the discretion of the LIA or Regional Board the following information is to be contained in the laboratory report:

The relative retention time for the unknown peak(s) relative to the reference peak in the standard, copies of the chromatogram(s), the type of column used, initial temperature, temperature program in °C/minute, and the final temperature.

- REPORTING LIMITS FOR TPH are: gasoline standard ≤ 20 carbons, diesel and jet fuel (kerosene) standard ≤ 50 carbons. It is not necessary to continue the chromatography beyond the limit, standard, or EPA/DHS method protocol (whichever time is greater).

EPILOGUE

ADDITIVES: Major oil companies are being encouraged or required by the federal government to reformulate gasoline as cleaner burning fuels to reduce air emissions. MTBE (Methyl-tertiary-butyl ether), ETHANOL (ethyl alcohol), and other chemicals may be added to reformulated gasolines to increase the oxygen content in

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the fuel and thereby decrease undesirable emissions (about four percent with MTBE). MTBE and ethanol are, for practical purposes, soluble in water. The removal from the water column will be difficult. Other compounds are being added by the oil companies for various purposes. The refinements for detection and analysis for all of these additives are still being worked out. If you have questions about the methodology, please call your Regional Board representative.