

R0381

Environmental
Resources
Management

1777 Botelho Drive
Suite 260
Walnut Creek, CA 94596
(925) 946-0455
(925) 946-9968 (fax)

AUG 30 2002

28 August 2002

Mr. Larry Seto
Alameda County Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577



Subject: Abandonment of Monitoring Wells MW-1, MW-2, and MW-3
Union Pacific Railroad Company
5th Avenue and 7th Street
Oakland, California

Dear Mr. Seto:

On behalf of Union Pacific Railroad Company (UPRR), Environmental Resources Management (ERM) has prepared this letter to document abandonment of monitoring wells MW-1, MW-2, and MW-3 at the 5th Avenue and 7th Street site in Oakland, California. This work was completed in response to the 16 October 2000 letter from Alameda County Environmental Health Services which approved issuance of a remedial action completion letter pending well abandonment.

ERM contracted Kehoe Testing & Engineering, Inc., of Huntington Beach, California, to abandon the monitoring wells on 18 July 2002. Abandonment of these wells was completed at the direction of an ERM geologist following guidelines described in the attached permits (permit numbers DPA W02-0385, 0386, and 0387) from the County of Alameda Public Works Agency, dated 9 April 2002. Permits for well abandonment were extended on 16 July 2002 by the County of Alameda Public Works Agency. Documentation of the abandonment is being submitted to the Department of Water Resources (DWR) as an attachment to this letter. Copies of the forms are attached for reference and the originals are being sent to DWR.

Wells MW-1 and MW-2 were abandoned by tremie grouting each well to the top of the well casing with neat cement. Following tremie grouting, each well box was filled with neat cement and capped in place. The wells were left in place due to the proximity of underground utilities.


Mr. Larry Seto
28 August 2002
Page 2


Well MW-3 is believed to have been destroyed when an access road was constructed. Although ERM attempted to locate this well prior to and during abandonment activities, it could not be found. Due to the shallow depth of the well, ERM believes that if the well is still present, it does not pose a risk to ground water.

We anticipate that submittal of well abandonment documentation to the Department of Water Resources and submittal of this letter to your office satisfies the remaining requirements for site closure hereby and request issuance of a remedial action completion letter at your earliest convenience.

If you have any questions or comments, please contact either of us at (925) 946-0455.

Sincerely,


John O. Cavanaugh, R.G.
Program Director

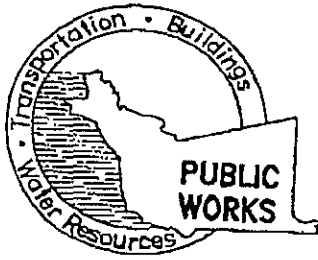

Debbie S. Lind, R.G.
Project Manager

JOC/DSL/meh/9338.50

enclosures: Attachment 1 - Well abandonment permits
Attachment 2 - Department of Water Resources forms

cc: Mr. Michael Grant - Union Pacific Railroad Company
Mr. Leroy Griffin - City of Oakland Fire Services
Ms. Anne Roth - Department of Water Resources, Central
District
Mr. James Yoo - County of Alameda Public Works

Attachment 1
Well Abandonment Permits



COUNTY OF ALAMEDA
 PUBLIC WORKS AGENCY
 WATER RESOURCES SECTION
 399 Elmhurst Street, Hayward, CA 94544-1395

FAX TRANSMITTAL

TO: *ERM West*
 Attn: *Mark Hastings*

DATE: *4-9-02*

FAX NO.: *(925) 946-5969*
 TRANSMITTING THE FOLLOWING:

SHEETS	DATED	TITLE/DESCRIPTION
<i>3</i>		<i>DPA W02-0385-0388</i>
<i>(4)</i>		<i>Condutime</i>

TOTAL PAGES INCLUDING THIS SHEET.

FROM WATER RESOURCES SECTION

NAME: JAMES YOO

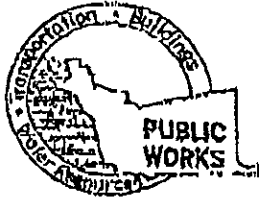
TEL: (510) 670-6633

FAX: (510) 782-1939

E-MAIL: jamesy@acpwa.mail.co.alameda.ca.us

IF YOU EXPERIENCE PROBLEMS WITH THIS TRANSMISSION, PLEASE CALL ME.

REMARKS:



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James You
FAX (510) 784-1739

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT: 5th Street and 7th Street
Oakland CA

PERMIT NUMBER: W02-0385
WELL NUMBER: _____
APN: _____

CLIENT
Name: MARK GRANT WATER RESOURCES RR
Address: 97 STEVENSON ST Phone: (415) 591-5021
City: SAN ANSELMO Zip: 94203

APPLICANT
Name: ERM WEST
MARK HASTON Fax: 925-946-9769
Address: 1774 GARDNER BLVD Phone: 925-946-0455
City: LAKELAND CALIF Zip: 94572

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

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

DRILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S NAME: Greco Drilling

DRILLER'S LICENSE NO: 285165

WELL PROJECTS
Drill Hole Diameter _____ in. Maximum Depth 15 ft.
Casing Diameter _____ in. Owner's Well Number MW-3
Surface Seal Depth _____ ft.

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

ESTIMATED STARTING DATE: 15 APRIL 2002 18 JULY 02
ESTIMATED COMPLETION DATE: 25 APRIL 2002 14 JULY 02

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE: [Signature] DATE: 4/4/02

OPERATING NAME: MARK HASTON Rev. 3-04-02

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted as early as possible to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
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 30 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 FIZZOMETERS

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 holes by tremie with cement grout or cement grout and mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION - Pressure grout - Attached

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

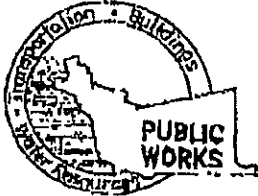
NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED: [Signature] DATE: 4/9/02

08/04 '02 MON 18:48 FAX 1925946988
MFR-U4-U2 THU 02:10 PM

ALAMEDA COUNTY PWA RM239 ERMWEST WC FAX NO. 5107821939

003



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 678-4633 James Yeo
FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT: 5th STREET and 7th STREET
0956140 CA

PERMIT NUMBER: W02-0386
WELL NUMBER: _____
APN: _____

CLIENT

Name: MERCER UNDER 1965 SEC RR
Address: 47 STANFORD ST Phone: (415) 54167021
City: SAN BRUNO CALIF Zip: 94065

APPLICANT

Name: ERM WEST
MARK HASTING Fax: 925-946-9769
Address: 1722 GARDNER ST Phone: 925-946-0455
City: WALTON CREEK Zip: 94592

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input checked="" type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input type="checkbox"/>		

DRILLER'S NAME: Gregg Drilling

DRILLER'S LICENSE NO: 485165

WELL PROJECTS

Drill Hole Diameter: 4" in. Maximum Depth: 15' ft.
Casing Diameter: 4" in. Owner's Well Number: MW-2
Surface Seal Depth: _____ ft.

GEOTECHNICAL PROJECTS

Number of Borings: _____ Maximum Depth: _____ ft.
Hole Diameter: _____ in.

ESTIMATED STARTING DATE: 15 APRIL 2002
ESTIMATED COMPLETION DATE: 28 APRIL 2002

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE: [Signature] DATE: 4/8/02

PLEASE PRINT NAME: MARK HASTING Rev. 3-04-02

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 90 days after completion of permitted original Department of Water Resources Well Completion Report.
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 50 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 FIZOMETER

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 by frame with cement grout or cement grout and mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION - RESURFACE - ATTACHED

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED: [Signature] DATE: 4/9/02

08/04 '02 MON 18:47 FAX 19259468968

ERMWEST WC

004



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 Janet Yee
FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 5th Ave and 7th Street
Oakland California

PERMIT NUMBER W02-0387
WELL NUMBER _____
APN _____

CLIENT
Name Union Pacific R. R. (make grant)
Address 47 Stevenson St. Phone (415) 941-7221
City San Francisco Zip 94605

APPLICANT
Name ERM WEST
MARK HASTON Fax 925-946-9968
Address 1277 Dorsale Dr. Modesto Phone 925-946-8455
City Walnut Creek Zip 94596

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

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

DRILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S NAME Greene Gregg Drilling
DRILLER'S LICENSE NO. 485165

WELL PROJECTS
Drill Hole Diameter _____ in. Maximum _____
Casing Diameter 4 1/2 in. Depth 15 ft.
Surface Seal Depth _____ ft. Owner's Well Number MM-1

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

ESTIMATED STARTING DATE 15 APRIL 2002
ESTIMATED COMPLETION DATE 26 APRIL 2002

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-08.

APPLICANT'S SIGNATURE Mark Haston DATE 4/8/02

PLEASE PRINT NAME MARK HASTON DATE 04-02

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACTWA office five days prior to proposed starting date.
2. Submit to ACTWA within 90 days after completion of permitted original Department of Water Resources-Well Completion Report.
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 30 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 by tremie with cement grout or cement grout and mixing. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

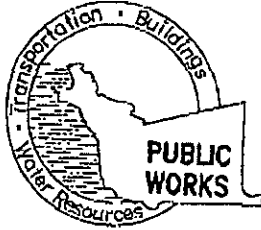
G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED

DATE

4/9/02



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD, CA. 94544-1395

PHONE (510) 670-5554 FAX (510) 782-1939

PERMIT NO. W02-0385-0387

WATER RESOURCES SECTION GROUNDWATER PROTECTION ORDINANCE Destruction of Monitoring Wells (Less than 45 feet in depth)

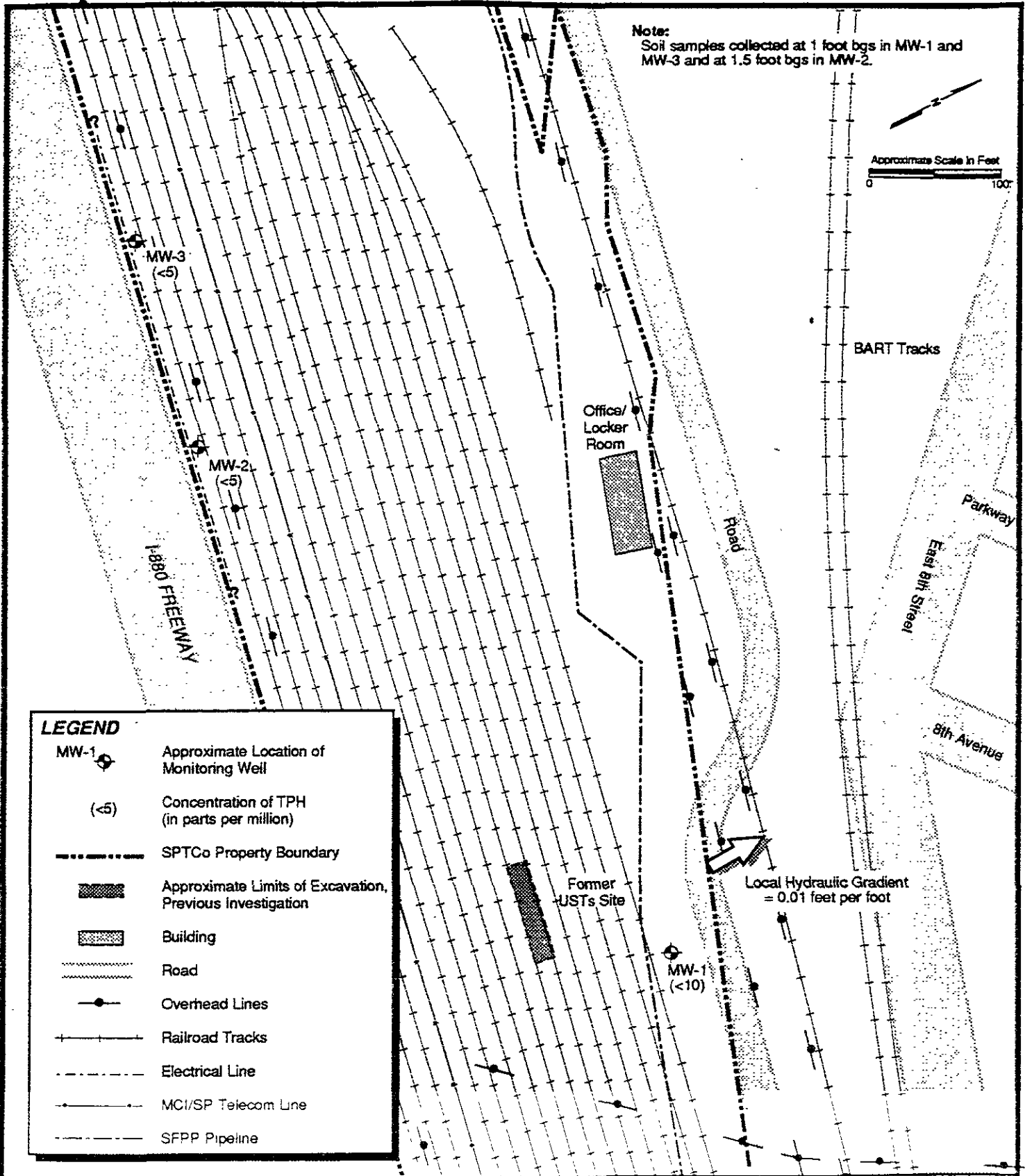
Destruction Requirements: **PRESSURE GROUTING**

1. Remove any casing(s) and annular seal to 3-5 feet below finished grade of original ground, whichever is the lower elevation.
2. Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.
3. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.
4. Drilling permits are valid from the start date to the completion date. Permits can be extended by a phone call, but drilling permit applications will not be extended beyond 90 days from the approved start date.
5. Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate state reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days.
6. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.

Attachment 2
Department of Water Resources
Forms

Note:
Soil samples collected at 1 foot bgs in MW-1 and
MW-3 and at 1.5 foot bgs in MW-2.

Approximate Scale in Feet
0 100'



LEGEND

- MW-1 Approximate Location of Monitoring Well
- (<5) Concentration of TPH (in parts per million)
- SPTCo Property Boundary
- Approximate Limits of Excavation, Previous Investigation
- Building
- Road
- Overhead Lines
- +— Railroad Tracks
- - - Electrical Line
- MCI/SP Telecom Line
- SFPF Pipeline



Industrial Compliance

A Subsidiary of SP Environmental Systems, Inc.



**TPH CONCENTRATION IN SOIL SAMPLES
COLLECTED FROM SOIL BORINGS
SOUTHERN PACIFIC TRANSPORTATION COMPANY
5TH AVENUE AND 7TH STREET PROPERTY
OAKLAND, CALIFORNIA**

Project No	05100269	Date	08/01/94
Drawn By	Patti Decker	Checked By	James G. Jensen

Figure:	12
Page No.	37
Scale	as shown

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED