

ExxonMobil
Refining and Supply Company
Downstream - Safety, Health & Environment
Environmental Remediation

2300 Clayton Road, Suite 1250
P.O. Box 4032
Concord, CA 94524-4032
(925) 246-8768 Telephone
(925) 246-8798 Facsimile
darin.l.rouse@exxon.com

5710
1068
Bc
Darin L. Rouse
Senior Engineer
Environmental Remediation

ExxonMobil
Refining & Supply

September 1, 2000

Mr. Frank Codd
Alameda County Public Works Agency
Water Resources Section
399 Elmhurst Street
Hayward, California 94544-1395

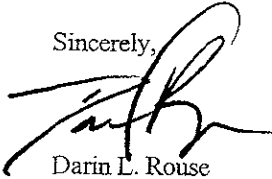
RE: Former Exxon RAS #7-0236/6630 East 14th Street, Oakland, California.

Dear Mr. Codd:

Attached for your review and comment is a document entitled *Groundwater Monitoring Well Destruction*, dated August 24, 2000, for the above referenced site. The document was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and details the destruction of six groundwater monitoring wells at the subject site.

If you have any questions or comments, please contact me at (925) 246-8768.

Sincerely,



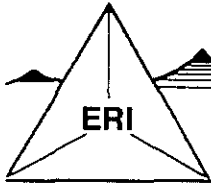
Darin L. Rouse
Senior Engineer

Attachment: ERI's Groundwater Monitoring Well Destruction, dated August 24, 2000.

cc: w/attachment
Mr. Barney Chan, Alameda County Health Care Services Agency, Environmental Health Services
Mr. Stephen Hill, California Regional Water Quality Control Board, San Francisco Bay Region
Ms. Lisa Mofoyama, Resources for Community Development

w/o attachment
Mr. James F. Chappell, Environmental Resolutions, Inc.

PRODUCTION
11/11/00
10 SEP -7 PM 3:45



ENVIRONMENTAL RESOLUTIONS, INC.

August 24, 2000
ERI 200914.R01

Mr. Darin L. Rouse
ExxonMobil Refining and Supply
P.O. Box 4032
Concord, California 94524-4032

Subject: Groundwater Monitoring Well Destruction at Former Exxon Service Station 7-0236,
6600 East 14th Street, Oakland, California.

Mr. Rouse:

At the request of ExxonMobil Refining and Supply (formerly known as Exxon Company, U.S.A.) (ExxonMobil), Environmental Resolutions, Inc. (ERI) performs environmental activities at the subject site and adjacent properties. This letter documents the destruction of six groundwater monitoring wells (MW2 through MW6 and MW8) at the subject site. The location of the site is shown on the Site Vicinity Map (Plate 1). The locations of the destroyed wells are shown on the Generalized Site Plan (Plate 2).

ERI performed the field work in accordance with well destruction permits issued by the Alameda County Public Works Agency, dated July 18, 2000 (Attachment A), and a site-specific Health and Safety Plan. The Alameda County Health Care Services Agency provided written concurrence to destroy the wells in a letter dated July 11, 2000 (Attachment B). Well construction logs are included as Attachment C.

On August 9, 2000, ERI observed Woodward Drilling Company, Inc. (Woodward) of Rio Vista, California, destroy the groundwater monitoring wells. ERI measured and recorded the total depth of the wells. The results of well sounding are presented in Table 1. The wells were destroyed by drilling out the top two feet of casing, filter pack, and grout seal. The remaining casing was pressure-grouted with a cement/bentonite slurry from the total depth to two feet immediately below ground surface. The borehole was filled with concrete from two feet below ground surface to the ground surface.

ERI recommends forwarding copies of this report to:

Mr. Frank Codd
Alameda County Public Works Agency
Water Resources Section
399 Elmhurst Street
Hayward, California 94544-1395

Mr. Barney Chan
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

Mr. Stephen Hill
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

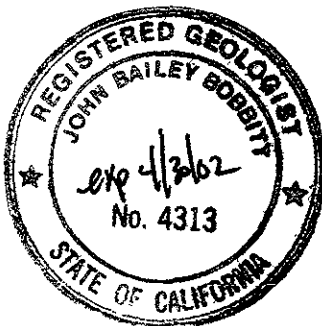
Ms. Lisa Motoyama
Resources For Community Development
2131 University Avenue, Suite 224
Berkeley, California 94704

00 SEP -7 PM 3:45
ENVIRONMENTAL
PROTECTION

Please call Mr. James F. Chappell at (415) 382-4323 with any questions regarding this project.

Sincerely,
Environmental Resolutions, Inc.

James F. Chappell
Assistant Project Manager

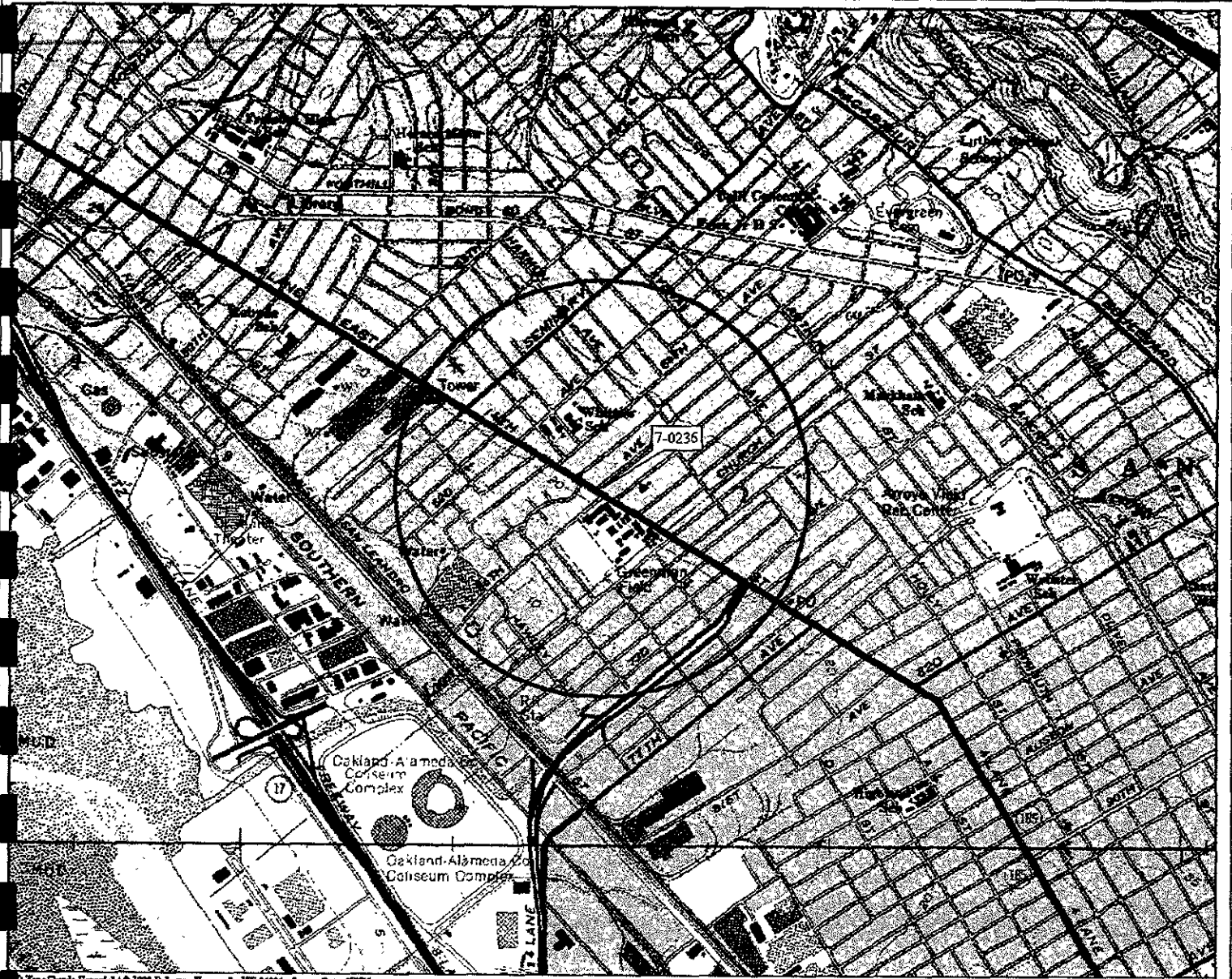


John B. Bobbitt
R.G. 4313

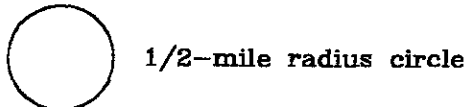
- Attachments: Table 1: Well Information Data
- Plate 1: Site Vicinity Map
- Plate 2: Generalized Site Plan
- Attachment A: Well Destruction Permits
- Attachment B: Alameda County Health Care Services Agency Letter
Dated July 11, 2000
- Attachment C: Well Construction Logs

TABLE 1
WELL INFORMATION TABLE
Former Exxon Service Station 7-0236
6600 East 14th Street
Oakland, California
(Page 1 of 1)

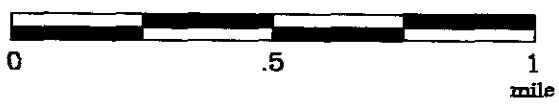
| Well Designation | Date | Casing Diameter (inches) | Measured Depth (feet) |
|------------------|--------|-----------------------------|--------------------------|
| MW2 | 8/9/00 | 4 | 25 |
| MW3 | 8/9/00 | 4 | 25 |
| MW4 | 8/9/00 | 2 | 22.5 |
| MW5 | 8/9/00 | 2 | 25 |
| MW6 | 8/9/00 | 4 | 23 |
| MW8 | 8/9/00 | 2 | 25 |



EXPLANATION



APPROXIMATE SCALE



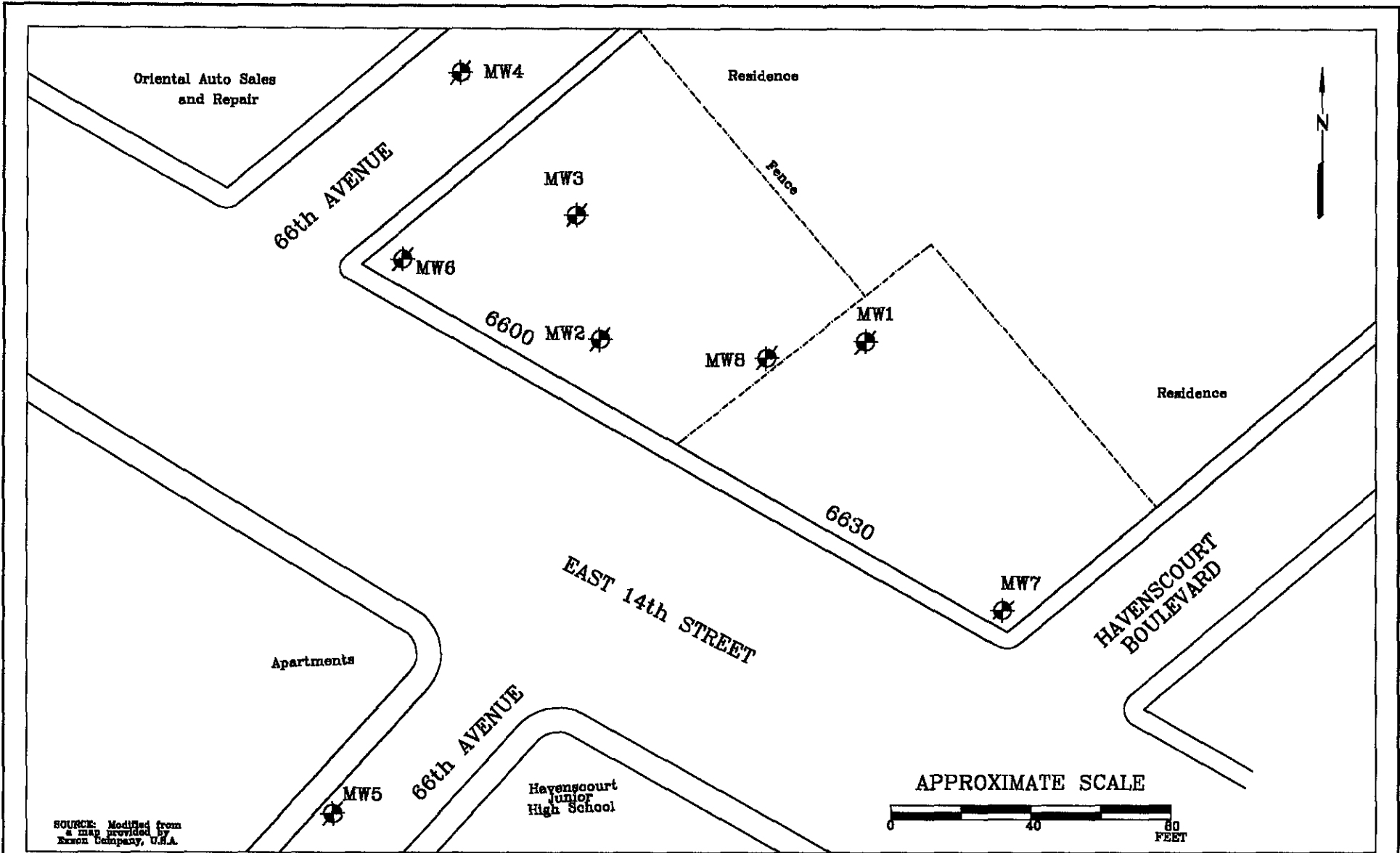
SOURCE:
Modified from a map
provided by
DeLorme 3-D TopoQuads

SITE VICINITY MAP

FORMER EXXON SERVICE STATION 7-0236
6600 East 14th Street
Oakland, California

| |
|--------------------|
| PROJECT NO. |
| 2009 |
| PLATE |
| 1 |





SOURCE: Modified from
a map provided by
Exxon Company, U.S.A.

FN 2009003B



GENERALIZED SITE PLAN

Former
Exxon Service Station 7-0236
6600 East 14th Street
Oakland, California

EXPLANATION

MW1
Destroyed Groundwater Monitoring Well

PROJECT NO.

2009

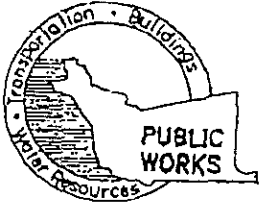
PLATE

2

April 25, 2000

ATTACHMENT A

WELL DESTRUCTION PERMIT



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94544-1395

PHONE (510) 670-5554 MARLON MAGALLANES/FRANK CODD (510) 670-5783

FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT: Former Exxon Station 7-0236

6600 East 14th Street
Oakland, California

PERMIT NUMBER W00-451
WELL NUMBER _____
APN _____

CLIENT

Name Exxon Mobil Refining and Supply
Address P.O. Box 4032 Phone (925) 246-8768
City Concord Ca Zip 94524

APPLICANT

Name Environmental Resolutions, Inc.
Address 73 Digital Drive Fax (415) 382-1856
City Novato Ca Phone (415) 382-4323 Zip 94949

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 | <input type="checkbox"/> |
| 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 Woodward Drilling

DRILLER'S LICENSE NO. C57 710079

WELL PROJECTS

| | | | |
|---------------------|-------------------|---------------------|---------------|
| Drill Hole Diameter | <u>8"-10"</u> in. | Maximum | |
| Casing Diameter | <u>2"-4"</u> in. | Depth | <u>26</u> ft. |
| Surface Seal Depth | <u>2'-5'</u> ft. | Owner's Well Number | <u>MW2</u> |

GEOTECHNICAL PROJECTS

| | | | |
|-------------------|-----------|---------|-----------|
| Number of Borings | _____ | Maximum | |
| Hole Diameter | _____ in. | Depth | _____ ft. |

ESTIMATED STARTING DATE 8/14/00

ESTIMATED COMPLETION DATE 8/15/00

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

APPLICANT'S SIGNATURE James F. Chappell DATE _____

PLEASE PRINT NAME James F. Chappell Rev. 6-5-00

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 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 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 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/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie

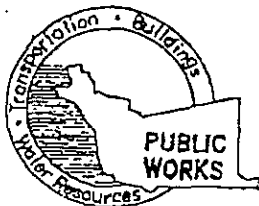
F. WELL DESTRUCTION

See attached requirements for destruction of shallow wells. Send a map of work site. A different permit application 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 7-18-00



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94544-1395

PHONE (510) 670-5554 MARLON MAGALLANES/FRANK CODD (510) 670-5783

FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Former Exxon Station 7-0236

6600 East 19th Street
Oakland, California

CLIENT

Name Exxon Mobil Refining and Supply
Address P.O. Box 4032 Phone (925) 246-8768
City Concord, Ca Zip 94524

APPLICANT

Name Environmental Resolutions, Inc.
Address 73 Digital Drive Fax (415) 382-1856
City Novato, Ca Phone (415) 382-4323 Zip 94949

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 Woodward Drilling

DRILLER'S LICENSE NO. C57 710079

WELL PROJECTS

Drill Hole Diameter 8-10" in. Maximum
Casing Diameter 2"-4" in. Depth 26 ft.
Surface Seal Depth 2'-5' ft. Owner's Well Number MWS

GEOTECHNICAL PROJECTS

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

ESTIMATED STARTING DATE 8/14/00
ESTIMATED COMPLETION DATE 8/15/00

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

APPLICANT'S SIGNATURE James F. Chappell DATE _____

PLEASE PRINT NAME James F. Chappell Rev. 6-5-00

FOR OFFICE USE

PERMIT NUMBER W00-450
WELL NUMBER _____
APN _____

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 60 days after completion of permitted original Department of Water Resources Well Completion Report.
 - 1. 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.

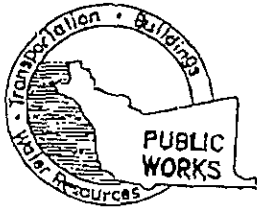
- D. GEOTECHNICAL**
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

- E. CATHODIC**
Fill hole anode zone with concrete placed by tremie.

- F. WELL DESTRUCTION**
See attached requirements for destruction of shallow wells. Send a map of work site. A different permit application 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 7-18-00



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554 MARLON MAGALLANES/FRANK CODD (510) 670-5783
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Former Exxon Station 7-0236

66.00 East 19th Street
Oakland, California

PERMIT NUMBER W00-452
WELL NUMBER _____
APN _____

PERMIT CONDITIONS
Circled Permit Requirements Apply

CLIENT

Name Exxon Mobil Refining and Supply
Address P.O. Box 4032 Phone (925) 246-8768
City Concord Ca Zip 94524

APPLICANT

Name Environmental Resolutions, Inc.
Address 73 Digital Drive Fax (415) 582-1856
City Novato Ca Phone (415) 382-4323
Zip 94949

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 | <input type="checkbox"/> |
| 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 Woodward Drilling

DRILLER'S LICENSE NO C57 710079

WELL PROJECTS

Drill Hole Diameter 8-10" in. Maximum
Casing Diameter 2"-4" in. Depth 26 ft.
Surface Seal Depth 2'-5' ft. Owner's Well Number MW4

GEOTECHNICAL PROJECTS

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

ESTIMATED STARTING DATE 8/14/00
ESTIMATED COMPLETION DATE 8/15/00

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

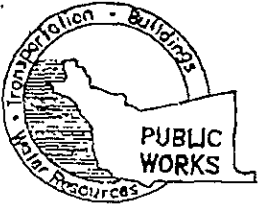
APPLICANT'S SIGNATURE James F. Chappell DATE _____

PLEASE PRINT NAME James F. Chappell Rev.6-5-00

- 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 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 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 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/sand 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**
See attached requirements for destruction of shallow wells. Send a map of work site. A different permit application 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 7-18-00



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94544-1395

PHONE (510) 670-5554 MARLON MAGALLANES/FRANK CODD (510) 670-5783

FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT: Former Exxon Station 7-0236

6600 East 14th Street
Oakland California

CLIENT

Name Exxon Mobil Refining and Supply
Address P.O. Box 4032 Phone (925) 246-8768
City Concord Ca Zip 94524

APPLICANT

Name Environmental Resolutions, Inc.
Address 73 Digital Drive Fax (415) 382-1856
City Novato Ca Phone (415) 382-4323 Zip 94949

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 Woodward Drilling

DRILLER'S LICENSE NO. C57 710079

WELL PROJECTS

Drill Hole Diameter 8-10" in. Maximum
Casing Diameter 2-4" in. Depth 26 ft.
Surface Seal Depth 2-5' ft. Owner's Well Number MW5

GEOTECHNICAL PROJECTS

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

ESTIMATED STARTING DATE 8/14/00
ESTIMATED COMPLETION DATE 8/15/00

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

APPLICANT'S SIGNATURE James F. Chappell DATE _____

PLEASE PRINT NAME James F. Chappell Rev.6-5-00

PERMIT NUMBER W00-453
WELL NUMBER _____
APN _____

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 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 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 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

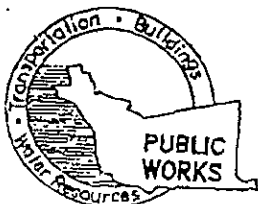
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.
- E. CATHODIC

Fill hole anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION

See attached requirements for destruction of seal-off wells. Send a map of work site. A different permit application 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 7-18-00



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94544-1395

PHONE (510) 670-5554 MARLON MAGALLANES/FRANK CODD (510) 670-5783

FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE -

LOCATION OF PROJECT Former Exxon Station 7-0236

6600 East 14th Street
Oakland, California

PERMIT NUMBER W00-454
WELL NUMBER _____
APN _____

CLIENT

Name Exxon Mobil Refining and Supply
Address P.O. Box 4032 Phone (925) 246-8768
City Concord Ca Zip 94524

APPLICANT

Name Environmental Resolutions, Inc.
Address 73 Digital Drive Fax (415) 382-1856
City Newato Ca Phone (415) 382-4323
Zip 94949

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 Woodward Drilling

DRILLER'S LICENSE NO. C57 710079

WELL PROJECTS

Drill Hole Diameter 8"-10" in
Casing Diameter 2"-4" in
Surface Seal Depth 2'-5' ft.
Maximum Depth 26 ft.
Owner's Well Number MW 6

GEOTECHNICAL PROJECTS

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

ESTIMATED STARTING DATE 8/14/00
ESTIMATED COMPLETION DATE 8/15/00

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

APPLICANT'S SIGNATURE James F. Chappell DATE _____

PLEASE PRINT NAME James F. Chappell Rev.6-5-00

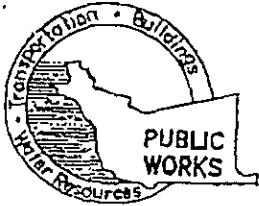
PERMIT CONDITIONS

Circled Permit Requirements Apply

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- D. GEOTECHNICAL**
Backfill bore hole by tremie with cement grout or cement grout/sand 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**
See attached requirements for destruction of shallow wells. Send a map of work site. A different permit application 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 8-18-00



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94544-1395

PHONE (510) 670-5554 MARLON MAGALLANES/FRANK CODD (510) 670-5783

FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Former Exxon Station 7-0236

6600 East 14th Street
Oakland, California

PERMIT NUMBER W00-455
WELL NUMBER _____
APN _____

CLIENT

Name Exxon Mobil Refining and Supply
Address P.O. Box 4032 Phone (925) 246-8768
City Concord Ca Zip 94524

APPLICANT

Name Environmental Resolutions, Inc.
Address 73 Digital Drive Fax (415) 382-1856
City Novato Ca Phone (415) 382-4323
Zip 94949

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 | <input type="checkbox"/> |
| 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 Woodward Drilling

DRILLER'S LICENSE NO. C57 710079

WELL PROJECTS

Drill Hole Diameter 8"-10" in. Maximum
Casing Diameter 5"-4" in. Depth 26 ft.
Surface Seal Depth 2'-5" ft. Owner's Well Number MW8

GEOTECHNICAL PROJECTS

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

ESTIMATED STARTING DATE 8/14/00
ESTIMATED COMPLETION DATE 8/15/00

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

APPLICANT'S SIGNATURE James F. Chappell DATE _____

PLEASE PRINT NAME James F. Chappell Rev.6-5-00

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 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 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 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/sand 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**
See attached requirements for destruction of shallow wells. Send a map of work site. A different permit application 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

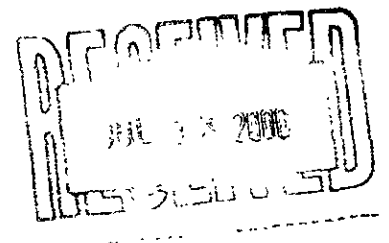
APPROVED [Signature] DATE 7-18-00

ATTACHMENT B

**ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
LETTER, DATED JULY 11, 2000**

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

July 11, 2000
StID # 1068

Mr. Darin Rouse
Exxon-Mobil
P.O. Box 4032
Concord, CA 94524-4032

Re: Closure of Monitoring Wells for 6600 E. 14th St., Oakland CA 94621

Dear Mr. Rouse:

Our office has received concurrence from the Regional Water Quality Control Board on our recommendation for site closure of the above referenced location. This also includes the recommendation for no further action on 6630 E. 14th St. Prior to issuing the closure letter, our office requests the proper closure of six (6) existing monitoring wells installed on and off-site.

You may contact Alameda County Public Works Water Resources Section at (510) 670-5554 for specific requirements of well closure.

Please contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

C: B. Chan, files

Ms. L. Motoyama, RCD, 2131 University Ave., Suite 224, Berkeley, CA 94704

✓ Mr. J. Chappel, Environmental Resolutions, Inc., 73 Digital Drive, Suite 100, Novato, CA
94949-5791

wlclrq6600E14th

ATTACHMENT C
WELL CONSTRUCTION LOGS

ALTON GEOSCIENCE, Inc.
LOG OF EXPLORATORY
BORING



PROJECT NO. 30-491 DATE DRILLED 03/13/91
 CLIENT Exxon Company, U.S.A.
 LOCATION 14th St. & 66th Ave., Oakland
 LOGGED BY W. Shipp APPROVED BY _____

BORING NO.

WELL NO.

MW-2

FIELD SKETCH OF BORING LOCATION

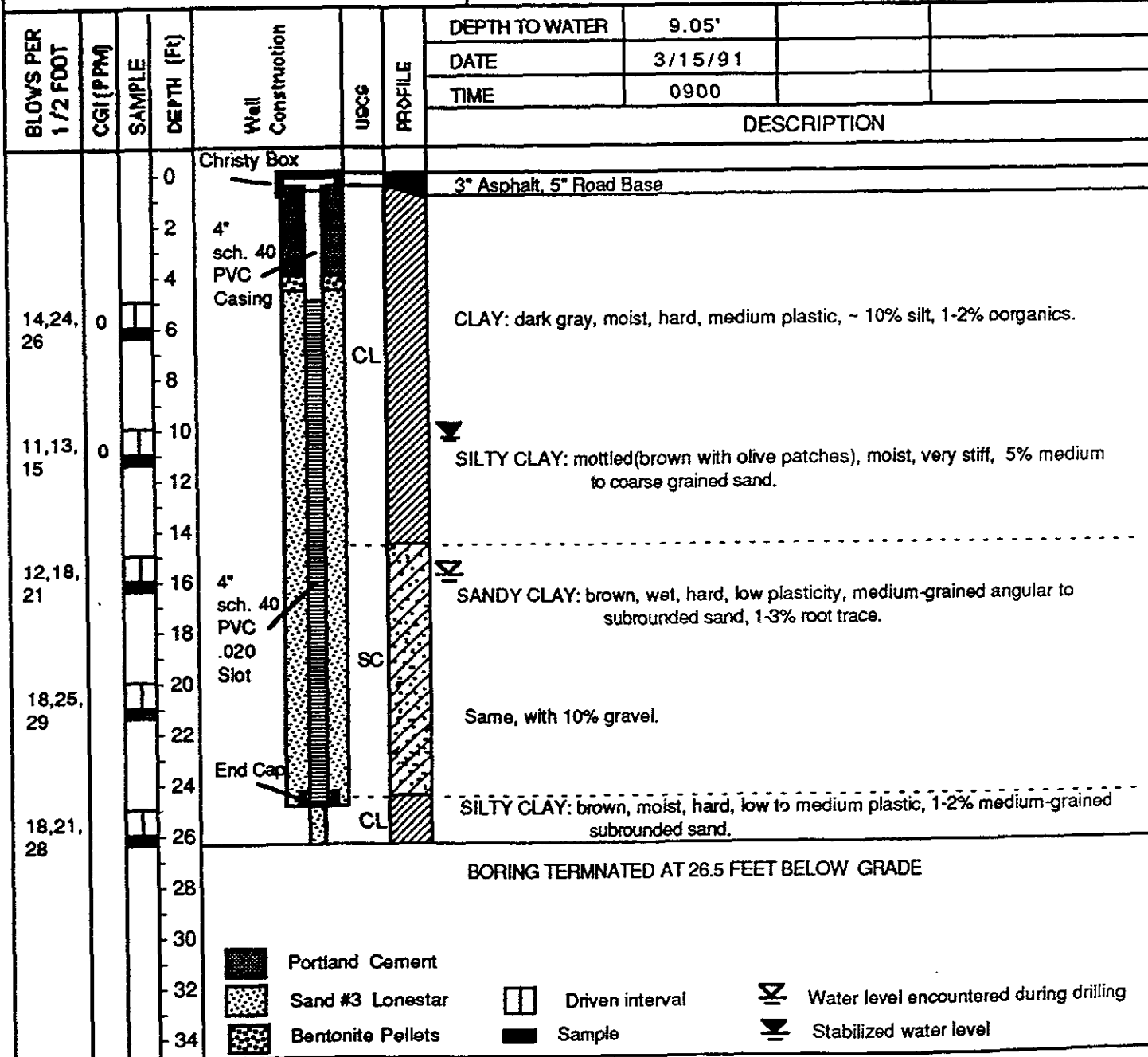
DRILLING METHOD CME 75 HOLE DIAM. 10"

SAMPLER TYPE Modified split spoon

CASING DATA 4" PVC, 0.020" slots

DRILLER West Hazmat Drilling Corp.

TOP OF CASING ELEVATION 98.94'



ALTON GEOSCIENCE, Inc.
LOG OF EXPLORATORY
BORING



PROJECT NO. 30-491 DATE DRILLED 03/13/91
 CLIENT Exxon Company, U.S.A.
 LOCATION 14th St. & 66th Ave., Oakland
 LOGGED BY W. Shipp APPROVED BY _____

BORING NO.

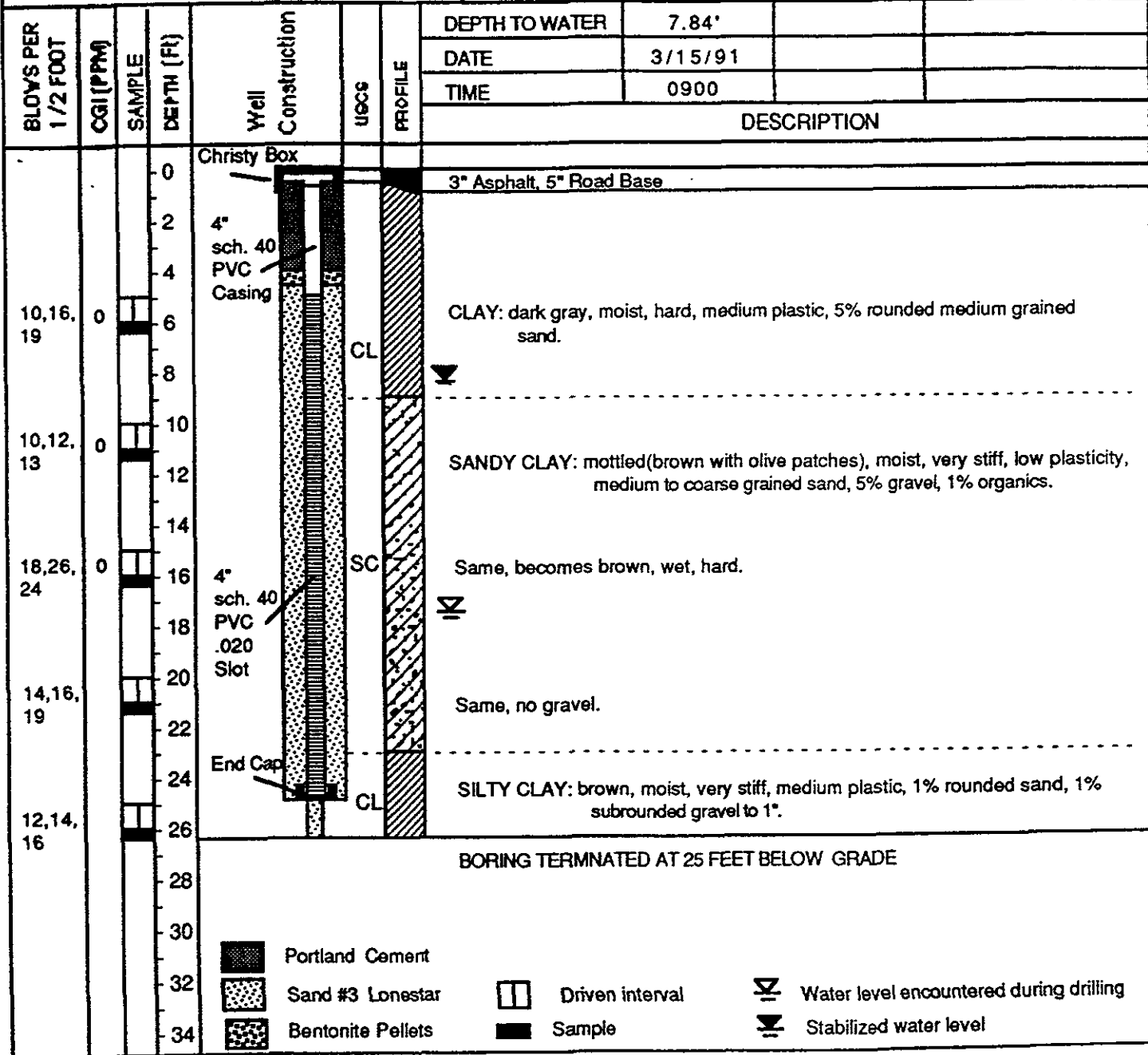
WELL NO.

MW-3

FIELD SKETCH OF BORING LOCATION

TOP OF CASING ELEVATION 99.38'

DRILLING METHOD CME 75 HOLE DIAM. 10"
 SAMPLER TYPE Modified split spoon
 CASING DATA 4" PVC, 0.020' slots
 DRILLER West Hazmat Drilling Corp.



ALTON GEOSCIENCE
LOG OF EXPLORATORY
BORING



PROJECT NO. 30-0491-01 DATE DRILLED 3/26/92
 CLIENT Exxon RAS #7-0236
 LOCATION 6630 E. 14th Street, Oakland, California
 LOGGED BY J. DeGeorge APPROVED BY _____

WELL NO.
MW-4

Page 1 of 1

FIELD SKETCH OF BORING LOCATION

SEE FIGURE 2

TOP OF CASING ELEVATION 19.46'

DRILLING METHOD Hollow Stem Auger HOLE DIAM. 8"
 SAMPLER TYPE Split spoon
 CASING DATA 2" Sch. 40 PVC: 2.5' Blank, 22.5' Screen
 DRILLER West Hazmat Drilling Corporation

| PID (ppm) | TPH-G (ppm) | SAMPLE | DEPTH (ft) | Well Construction | USCS | PROFILE | DEPTH TO WATER | |
|-----------|-------------|--------|------------|--------------------------------------|------|---------|--|----------|
| | | | | | | | 17' | 7.76' |
| | | | | | | | DATE | TIME |
| | | | | | | | 3/26/92 | 10:20 AM |
| | | | | | | | | 12:00 PM |
| | | | | | | | DESCRIPTION | |
| | | | 0 | | | | ASPHALT 3"/Coarse gravel subgrade | |
| | | | 2 | 2" diam. Sch. 40 PVC Casing | | | SILTY CLAY: black, slightly moist, very stiff; trace fine- to medium-grained sand, low plasticity. | |
| 0 | | | 4 | | | | SILTY CLAY: olive-green, slightly moist, very stiff; trace fine- to medium-grained sand, low plasticity. | |
| | | | 6 | | | | SILTY CLAY: brown, moist, very stiff; very fine-grained sand, low plasticity. | |
| 0 | | | 8 | | | | | |
| | | | 10 | | CL | | SANDY CLAY: brown, moist, very stiff; fine- to medium-grained sand, some coarse-grained sand and trace fine gravel, low plasticity. | |
| | | | 12 | | | | | |
| 0 | | | 14 | 2" diam. Sch. 40 PVC 0.020" slotting | | | SANDY CLAY: brown, wet, firm; fine- to medium-grained sand, increasing coarse-grained sand and increasing fine gravel, low plasticity. | |
| | | | 16 | | | | | |
| | | | 18 | | | | | |
| 0 | | | 20 | | | | | |
| | | | 22 | | | | | |
| | | | 24 | End Cap | | | | |
| | | | 26 | | | | Borehole terminated at approximately 25-1/2 feet below grade | |

ALTON GEOSCIENCE
LOG OF EXPLORATORY
BORING



PROJECT NO. 30-0491-01 DATE DRILLED 3/26/92
 CLIENT Exxon RAS #7-0236
 LOCATION 6630 E. 14th Street, Oakland, California
 LOGGED BY J. DeGeorge APPROVED BY _____

WELL NO.
MW-5

Page 1 of 1

FIELD SKETCH OF BORING LOCATION

SEE FIGURE 2

TOP OF CASING ELEVATION 16.95'

DRILLING METHOD Hollow Stem Auger HOLE DIAM. 8"

SAMPLER TYPE Split spoon

CASING DATA 2" Sch. 40 PVC: 2.5' Blank, 22.5' Screen

DRILLER West Hazmat Drilling Corporation

| PID (ppm) | TPH-G (ppm) | SAMPLE | DEPTH (fbg) | Well Construction | USCS | PROFILE | DEPTH TO WATER | |
|-----------|-------------|--------|-------------|--------------------------------------|------|---------|---|----------|
| | | | | | | | 18' | 10.66' |
| | | | | | | | DATE | 4/6/92 |
| | | | | | | | TIME | 12:00 PM |
| | | | | | | | DESCRIPTION | |
| | | | 0 | | | | ASPHALT 3"/fine gravel subgrade | |
| | | | 2 | 2" diam. Sch. 40 PVC Casing | | | SILTY CLAY: black, slightly moist, stiff; trace fine- to medium-grained sand, low plasticity. | |
| 0 | | | 4 | | | | | |
| | | | 6 | | CL | | SILTY CLAY: brown, moist, stiff; fine- to coarse-grained sand, low plasticity. | |
| 0 | | | 8 | | | | | |
| | | | 10 | | | | SANDY CLAY: brown, moist, very stiff; fine- to coarse-grained sand, low plasticity. | |
| | | | 12 | | | | | |
| 0 | | | 14 | 2" diam. Sch. 40 PVC 0.020" slotting | | | CLAYEY SAND: brown, wet, medium dense; medium-grained sand, trace fine-grained and coarse-grained sand and trace fine gravel. | |
| | | | 16 | | | | | |
| | | | 18 | | SC | | Intermittent SANDY CLAY: brown, wet, medium dense; medium-grained sand. | |
| 0 | | | 20 | | | | | |
| | | | 22 | | | | | |
| | | | 24 | End Cap | | | | |
| | | | 26 | | | | Borehole terminated at approximately 25-1/2 feet below grade | |

ALTON GEOSCIENCE
LOG OF EXPLORATORY
BORING



PROJECT NO. 30-0491-01 DATE DRILLED 3/26/92
 CLIENT Exxon RAS #7-0236
 LOCATION 6630 E. 14th Street, Oakland, California
 LOGGED BY J. DeGeorge APPROVED BY _____

WELL NO.
MW-6

Page 1 of 1

FIELD SKETCH OF BORING LOCATION

SEE FIGURE 2

TOP OF CASING ELEVATION 18.79'

DRILLING METHOD Hollow Stem Auger HOLE DIAM. 10"
 SAMPLER TYPE Split spoon/Continuous Core
 CASING DATA 4" Sch. 40 PVC: 2.5' Blank, 20' Screen
 DRILLER West Hazmat Drilling Corporation

| PID (ppm) | TPH-G (ppm) | SAMPLE | DEPTH (fbg) | Well Construction | USCS | PROFILE | DEPTH TO WATER | | |
|-------------|-------------|--------|-------------|--------------------------------------|------|---------|---|---|----------|
| | | | | | | | 18.5' | 8.29' | |
| | | | | | | | DATE | 3/26/92 | 4/6/92 |
| | | | | | | | TIME | 2:00 PM | 12:00 PM |
| DESCRIPTION | | | | | | | | | |
| | | | 0 | | | | ASPHALT 3"/fine gravel subgrade | | |
| | | | 2 | 4" diam. Sch. 40 PVC Casing | | | SILTY CLAY: black, slightly moist, very stiff; trace coarse-grained sand, trace fine gravel, intermittent color changes to olive-green, low plasticity. | | |
| | | | 4 | | | | | | |
| 0 | | | 6 | | CL | | SANDY CLAY: brown, slightly moist, very stiff; medium- to coarse-grained sand, trace fine gravel, low plasticity. | | |
| | | | 8 | | | | SILTY CLAY: brown, slightly moist, very stiff; trace medium- to coarse-grained sand, moderate plasticity. | | |
| 0 | | | 10 | | | | SANDY CLAY: brown, slightly moist, very stiff; fine- to coarse-grained sand, trace fine gravel, low plasticity. | | |
| | | | 12 | | | | CLAYEY SAND: brown, moist, medium dense; medium- to coarse-grained sand, trace fine gravel, some olive-green mottling. | | |
| 0 | | | 14 | 4" diam. Sch. 40 PVC 0.020" slotting | SC | | CLAY(6" layer): brown, slightly moist, very stiff; low plasticity. | | |
| | | | 16 | | | | | SANDY CLAY: brown, moist, stiff; fine- to coarse-grained sand, fine gravel, low plasticity. | |
| 0 | | | 18 | | CL | | CLAY: brown, slightly moist, very stiff; moderate to high plasticity, black wavy vertical streaks. | | |
| | | | 20 | | | | Borehole terminated at approximately 23 feet below grade | | |
| | | | 22 | End Cap | | | | | |
| | | | 24 | | | | | | |
| | | | 26 | | | | | | |



Project No.: 2009 Boring: B8/MW8 Plate: 1 OF 1
 Site: Former Exxon Service Station 7-0236 Date: 01/10/97
 Drill Contractor Woodward

Sample Method Split Spoon Geologist STEVE M ZIGAN
 Drill Rig: B57 Bore Hole Diameter: 8" Signature: _____
 Location Between South ends of former dispenser islands. Registration: R.G. 4333
 Logged by: Scott Graham

| DEPTH (ft) | BLOW COUNTS | PID/OWM (ppm) | SAMPLE | COLUMN | USCS | GEOLOGIC DESCRIPTION | WELL DESIGN |
|------------|-------------|---------------|--------|--------|------|---|-------------|
| | | | | | CH | Fill, sandy gravel Clay, black, damp, trace of very fine-grained sand | |
| -5 | 30 | 6.0 | | | CL | Silty clay, olive-gray, moist, some very fine-grained sand, trace of gravel to 1/4" diameter | |
| -10 | 47 | 383 | | | | transitioning to sandy clay, olive-gray, moist, orange and black mottling, fine-grained, some gravels | |
| -15 | 40 | | | | | light brown, wet, increasing gravels | |
| -20 | 13 | 2.0 | | | | transitioning to silty clay, brown, wet | |
| -25 | 16 | 6.0 | | | | trace of silt, lens of gravels to 3/8" diameter at 25 feet | |
| | | | | | | Total depth = 25 feet Groundwater encountered at 14.5 feet | |
| -30 | | | | | | | |
| -35 | | | | | | | |
| -40 | | | | | | | |

Well Diameter: 2", Slot Size: 0.010, Sand Size: 2/12, Grout: Neat cement