



ENVIRONMENTAL RESOLUTIONS, INC.

February 28, 2000
ERI 201014DR.L01

Mr. Darin L. Rouse
Exxon Company, U.S.A.
P.O. Box 4032
Concord, California 94524-4032

Subject: Vadose-Zone Monitoring Well Destruction at Former Exxon Service Station 7-3006,
720 High Street, Oakland, California.

Mr. Rouse:

At the request of Exxon Company, U.S.A. (Exxon), Environmental Resolutions, Inc. (ERI) is submitting this letter documenting the destruction of one vadose-zone monitoring well (VW-1) at the subject site. The well was destroyed in conjunction with construction activities at the site. The location of the site is shown on the Site Vicinity Map (Plate 1). The former well location is shown on the Generalized Site Plan (Plate 2).

ERI performed the field work in accordance with a well destruction permit issued by the Alameda County Public Works Agency, dated January 21, 2000 (Attachment A), and a site-specific Health and Safety Plan. The Alameda County Health Care Services Agency provided written approval to destroy the well in a letter dated January 20, 2000 (Attachment B). A well construction log for VW-1 is included as Attachment C.

On January 26, 2000, an ERI geologist observed Woodward Drilling Company, Inc. (Woodward) of Rio Vista, California, destroy VW-1. ERI measured the total depth of VW-1 at 6 feet 11 inches. VW-1 was destroyed by removing the wellbox, and the top two feet of casing, filter pack, and grout seal with a jackhammer. The remaining casing was pressure-grouted with a cement/bentonite slurry from the total depth to immediately below ground surface. A well completion report is included as Attachment D.

ERI recommends forwarding copies of this report to:

Mr. Larry Johmann
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

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

Sincerely,
Environmental Resolutions, Inc.

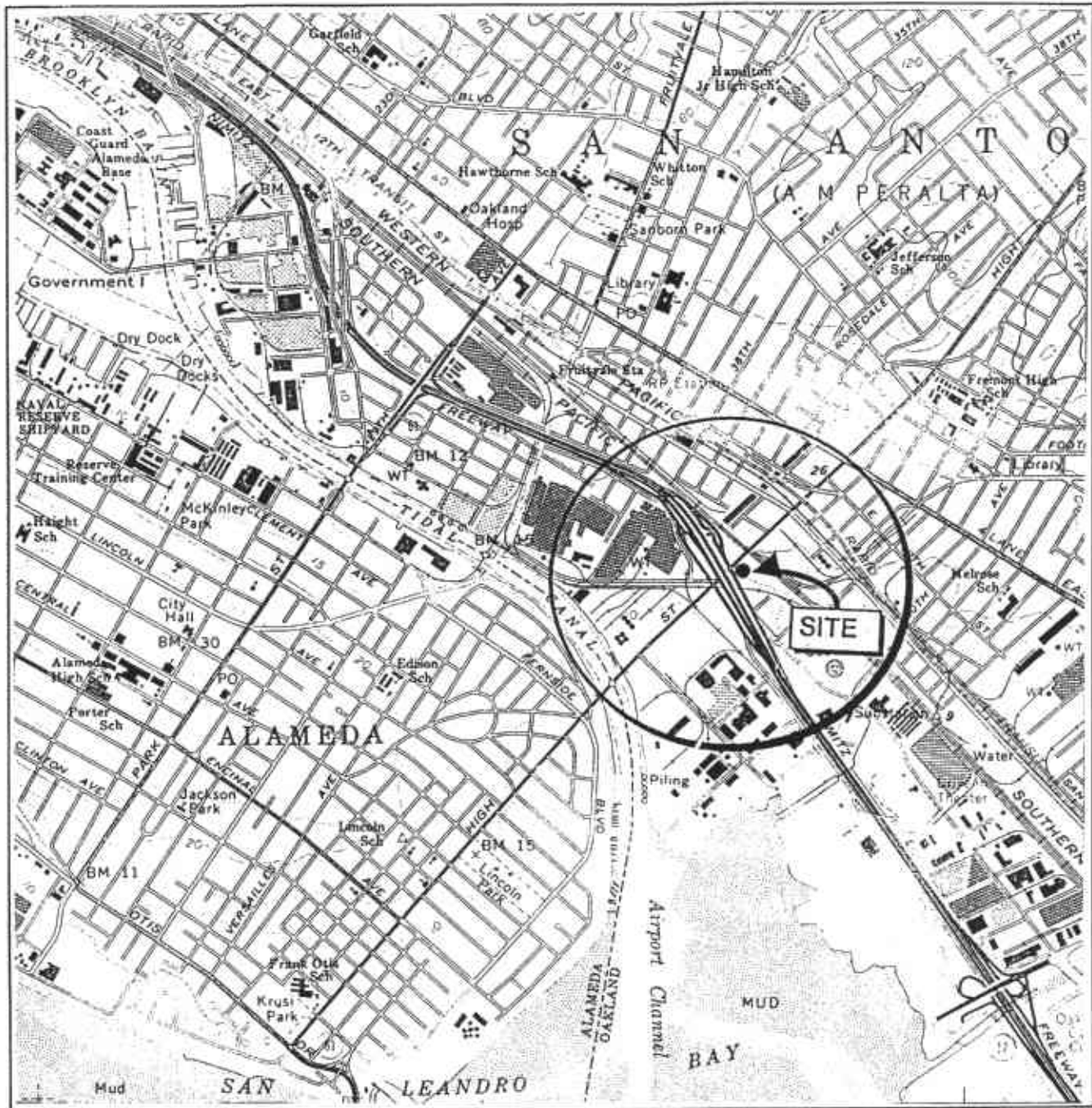


James F. Chappell
James F. Chappell
Senior Staff Scientist

John B. Bobbitt
John B. Bobbitt
R.G. 4313

Attachments: Plate 1: Site Vicinity Map
Plate 2: Generalized Site Plan

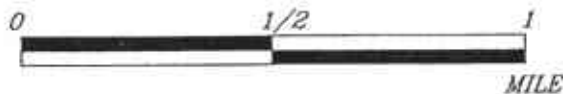
Attachment A: Well Destruction Permit
Attachment B: Alameda County Health Care Services Agency Letter, Dated
January 20, 2000
Attachment C: Well Construction Log for VW-1
Attachment D: Well Completion Report



FN 20100001



APPROXIMATE SCALE



SOURCE: U.S.G.S. 7.5 minute topographic quadrangle map Oakland East, California (Photorevised 1990)



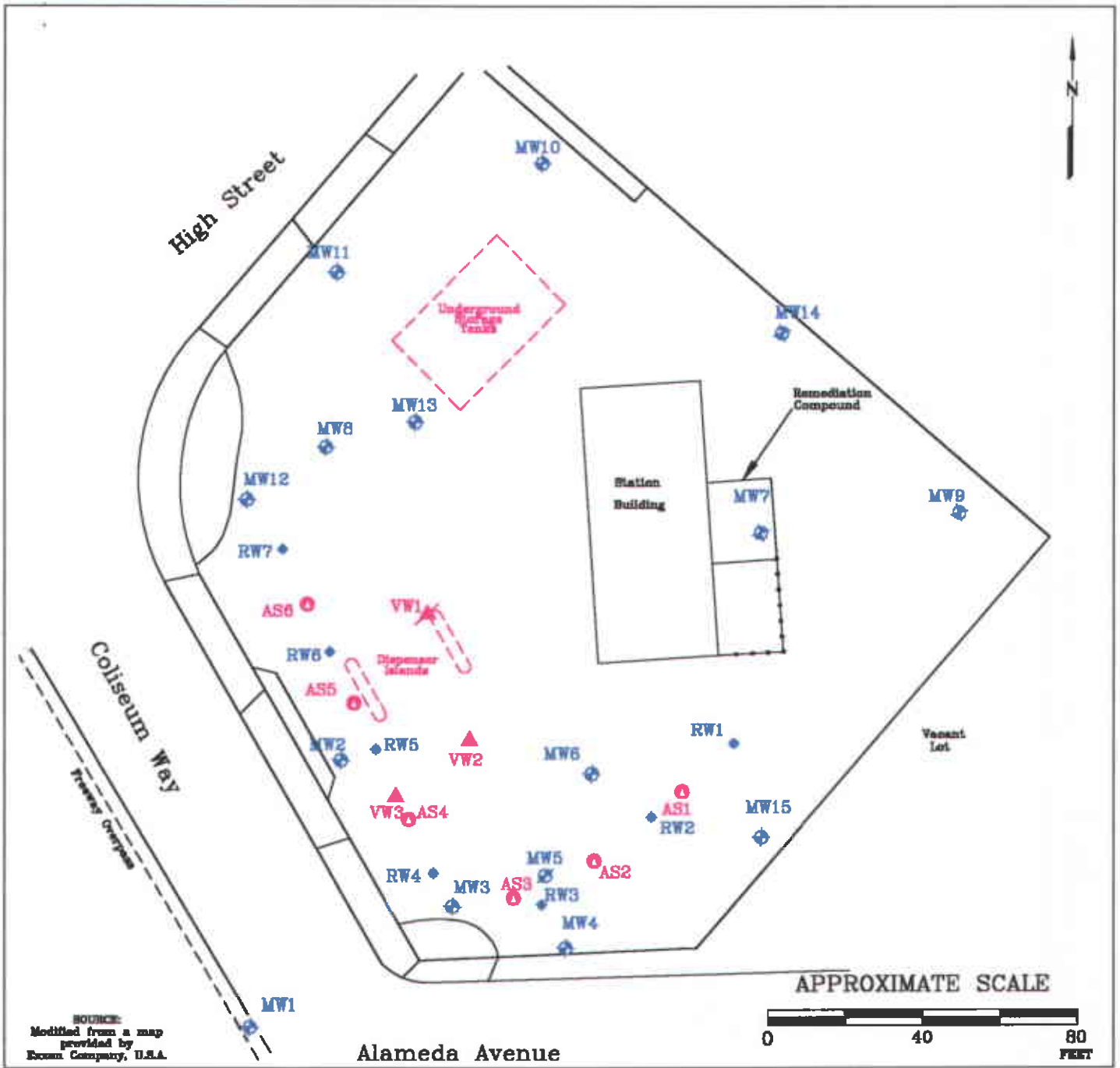
PROJECT ERI 2010

SITE VICINITY MAP

FORMER EXXON SERVICE STATION 7-3006
720 High Street
Oakland, California

PLATE

1



FN 20100002

EXPLANATION

- MW15 Groundwater Monitoring Well
- MW5 Groundwater Monitoring Well (Destroyed)
- RW7 Recovery Monitoring Well
- VW3 Vadose Well VW1 Vadose Well (Destroyed)
- AS6 Air Sparging/Vapor Extraction Well



GENERALIZED SITE PLAN

FORMER EXXON SERVICE STATION 7-3006
 720 High Street
 Oakland, California

PROJECT NO.

2010

PLATE

2

ATTACHMENT A

WELL DESTRUCTION PERMIT



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
951 TURNER COURT, SUITE 308, HAYWARD, CA 94545-2651
PHONE (510) 670-5248 MARLON MAGALLANES/CINDY HUTCHINSON
FAX ~~(510) 670-5248~~ 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Former Exxon Service
Station 7-3006
720 High Street, Oakland, Ca

PERMIT NUMBER W00-019
WELL NUMBER _____
APN _____

CLIENT Name Exxon Company, USA
Address P.O. Box 4032 Phone (925) 246-8790
City Lancord Zip 95024-4032

APPLICANT Name Environmental Resolutions, Inc
Address 73 Digital Drive, Suite 100 Fax (415) 382-1856
City Alameda, Ca Phone (415) 382-9105
Zip 94401

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 LICENSE NO. CS7 710079

WELL PROJECTS
Drill Hole Diameter 12 in. Maximum
Casing Diameter 4 in. Depth 7 ft.
Surface Seal Depth 3 ft. Number VW1

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

ESTIMATED STARTING DATE 1-26-00
ESTIMATED COMPLETION DATE 1-26-00

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

APPLICANT'S SIGNATURE [Signature] DATE 1-21-00

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 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 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 with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC

Fill hole above anode zone with concrete placed by tremie.

(B) WELL DESTRUCTION

See attached.

G. SPECIAL CONDITIONS

APPROVED [Signature] DATE 1-21-00

WELL PERMIT POLICY
FOR
DESTRUCTION OF SHALLOW WELLS
(WELLS LESS THAN 45 FEET IN DEPTH)

- 1) Submit a completed "DRILLING PERMIT APPLICATION" to the Alameda County Public Works Agency (AGENCY) for all wells to be destroyed on one property or adjacent properties under one ownership. Please allow 5 days to receive the signed permit from AGENCY.
- 2) Wells to be destroyed shall be filled with cement grout or cement/bentonite mixture. Filling with pea gravel will not be permitted. NOTE: Contamination or a lack of contamination will not change these requirements.
- 3) Within 60 days of the destruction of the well, applicant must submit to AGENCY a completed Department of Water Resources Well Completion Report (DWRWCR). A DWRWCR is required for each well destroyed. The location map, drawings, or coordinates (or a combination thereof) must be sufficient to locate the well to within 5 foot accuracy.
- 4) No notification to AGENCY will be required prior to this well destruction work .

ATTACHMENT B

**ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
LETTER, DATED JANUARY 20, 2000**

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



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

January 20, 2000
StID # 136

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

Re: Well Destruction at Former Exxon Station 7-3006, 720 High St., Oakland CA 94601

Dear Mr. Rouse:

This letter approves the destruction of vapor well VW1 as proposed by Lebeck Construction and requested by your consultant ERI. Our office is still evaluating the appropriateness of your recent request for site closure. It is believed that a meeting with you and/or your consultants may be appropriate once we have concluded our review of the cumulative site data, to discuss any differences.

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

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

C: B. Chan, files
Mr. J. Chappell, Environmental Resolutions Inc. (by fax only)

vvc1-72011gh

1/20/00
To: J. Chappell, ERI
From: B. Chan -
AEEB-HOP

ATTACHMENT C

WELL CONSTRUCTION LOG FOR VW-1

Depth of boring: 8 feet Diameter of boring: 12 inches Date drilled: 2/11/93
 Well depth: 7 feet Material type: Sch 40 PVC Casing diameter: 4 inches
 Screen interval: 4 to 7 feet Slot size: 0.10-inch
 Drilling Company: Exploration Geoservices Driller: John Collins
 Method Used: Hollow-Stem Auger Field Geologist: J. Buckthal

Signature of Registered Professional: _____

Registration No.: CEG 1463 State: CA

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
0	**		**		Asphalt Asphalt (2 inches)	
				SW	Gravelly sand, fine- to coarse-grained sand, fine gravel, orange brown, moist, dense; fill.	
2				CL	Silty clay, trace sand and gravel, black, moist, low plasticity, stiff; fine- to coarse-grained sand, fine gravel.	
				SC		
4				CL	Clayey sand, fine- to coarse-grained sand, brown, wet, medium stiff; possible perched zone Silty clay, orange brown, moist, low plasticity, very stiff; hydrocarbon odor.	
6				CL	Dark brown, damp.	
				CL	Orange brown, with green-blue mottling, moist, hard; strong hydrocarbon odor.	
8				SW-SC	Sandy clay with gravel, orange brown, with gray-green mottling, damp with wet pockets around gravels, low plasticity, very stiff; strong hydrocarbon odor.	
10					Gravelly sand, fine- to coarse-grained sand, fine gravel, brown, moist, dense.	
					Total depth = 8 feet.	
12						
14					** = Soil samples were not collected or screened. - See text	
16						
18						
20						

RESNA
Working to Restore Nature

PROJECT: 130006.02

LOG OF BORING B-35A/VW-1
Exxon Service Station 7-3006
720 High Street
Oakland, California

PLATE
6

ATTACHMENT D
WELL COMPLETION REPORT

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED