



ENVIRONMENTAL  
PROTECTION

00 APR 13 AM 9:33

April 12, 2000

Project No. 41-0114

Alameda County Health Care Services Agency  
Division of Environmental Protection  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

ATTN: MR. SCOTT SEERY  
  
SITE: FORMER MOBIL STATION 04-FGN  
14994 EAST 14<sup>TH</sup> STREET  
SAN LEANDRO, CALIFORNIA  
  
RE: WELL ABANDONMENT REPORT

Dear Mr. Seery:

On behalf of ExxonMobil Remediation Services, TRC/Alton Geoscience submits this well abandonment report for the destruction of four monitoring wells at the former Mobil Service Station 04-FGN, located at 14994 East 14<sup>th</sup> Street, San Leandro, California (Figure 1).

Prior to the abandonment activities, a well destruction permit was obtained from the Alameda County Public Works Agency and encroachment permits were obtained from The City of San Leandro and Caltrans. Copies of the permits are provided in Appendix A.

Approximately five business days prior to field activities, Underground Service Alert (USA) was contacted to identify possible underground utilities in the vicinity of the monitoring wells.

On March 3, 2000, TRC/Alton Geoscience and V & W Drilling, Inc. abandoned monitoring wells MW-4A through MW-7A by pressure grouting methods, using a pressure of 32 pounds per square inch (PSI) (Figure 2). MW-4A, MW-6A, and MW-7A were backfilled to two feet below grade with neat cement and completed to surface grade with concrete. MW-5A was backfilled to 18-inches below grade with neat cement and completed with asphalt to road surface. Former well construction details are included in Appendix B. Well destruction details are provided in Appendix C.

Well completion reports were submitted to the State of California and copies are provided in Appendix D.

**Well Abandonment Report**  
Former Mobil Station 04-FGN  
14994 East 14<sup>th</sup> Street, San Leandro

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Should you have any questions regarding this report, please call me at (925) 688-2479.

Sincerely,

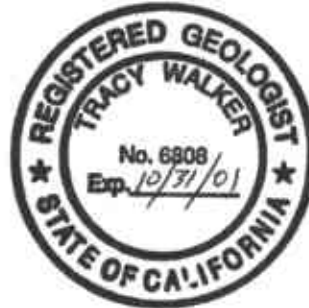
**TRC/ALTON GEOSCIENCE**



Shayne R. Pasek  
Staff Geologist



Tracy L. Walker, RG  
Associate, Northern California Operations



**Attachments:**

- Figure 1: Vicinity Map
- Figure 2: Site Plan
- Appendix A: Permits
- Appendix B: Former Well Construction Details
- Appendix C: Well Abandonment Details
- Appendix D: Well Completion Reports

cc: Mr. Brad Ladesma, ExxonMobil Remediation Services



SCALE 1 : 24,000



**SOURCE:**

United States Geological Survey  
7.5 Minute Topographic Map:  
Hayward and San Leandro Quadrangles






**VICINITY MAP**

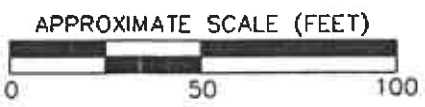
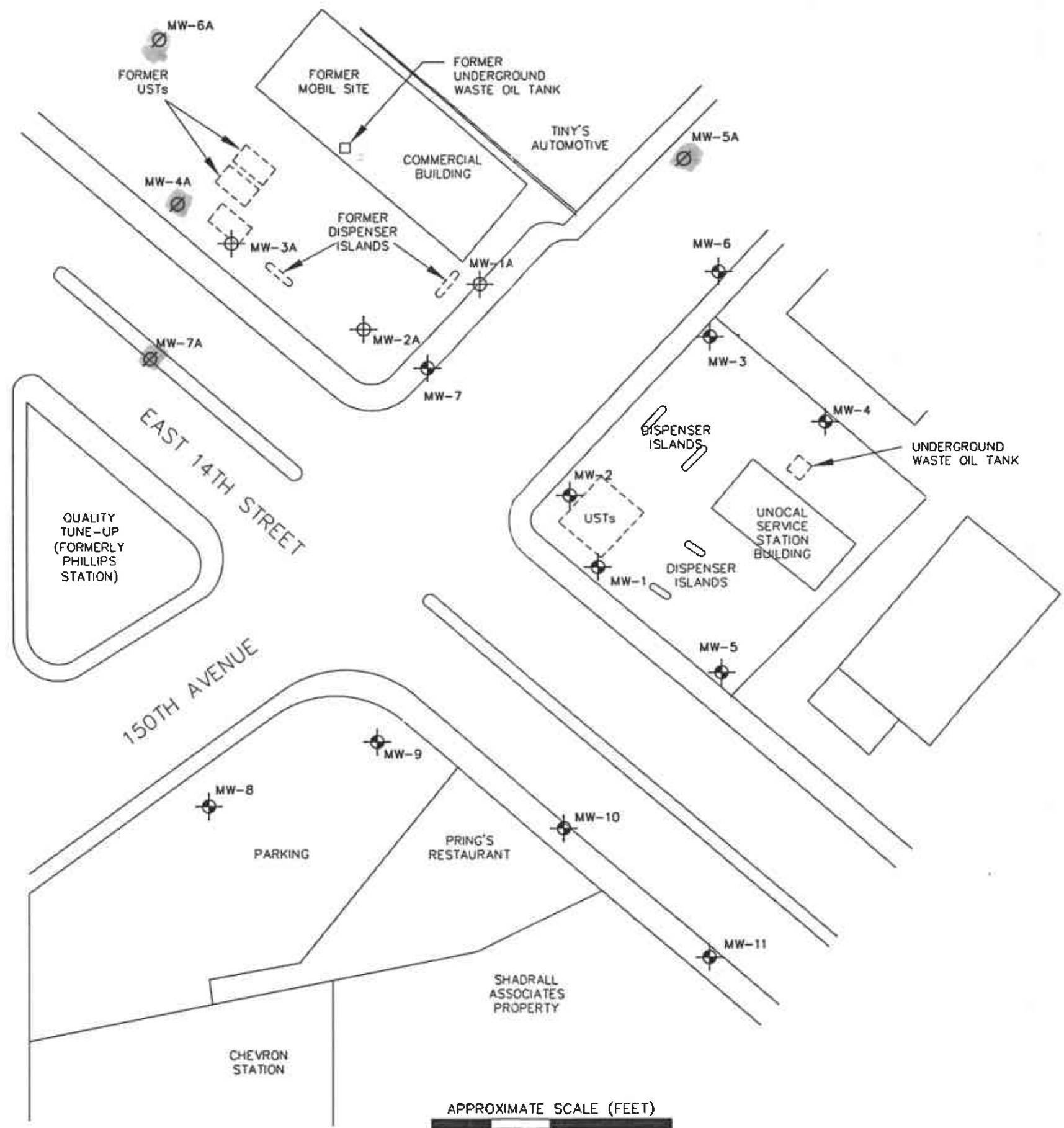
Former Mobil Station 04-FGN  
14994 East 14th Street  
San Leandro, California



**FIGURE 1**

**LEGEND**

- MW-3A  Mobil monitoring well
- MW-6  Unocal monitoring well
- MW-6A  Abandoned monitoring well



**SITE PLAN**

Former Mobil Station 04-FGN  
 14994 East 14th Street  
 San Leandro, California

**FIGURE 2**



# ALAMEDA COUNTY PUBLIC WORKS AGENCY

## WATER RESOURCES SECTION

951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651  
PHONE (510) 670-5148 MARLON MAGALLANES/CINDY HUTCHINSON  
FAX ~~(510) 670-5362~~ 782-1939

### DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

**LOCATION OF PROJECT**

Former Mobil Station 04-FGN  
14994 East 14th Street  
San Leandro, CA

PERMIT NUMBER W00-022  
WELL NUMBER \_\_\_\_\_  
APN \_\_\_\_\_

**PERMIT CONDITIONS**  
Circled Permit Requirements Apply

**CLIENT**

Name ExxonMobil Remediation Services  
Address 2013 Main Street Phone 925-625-1173  
City Dayley Zip 94501

**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.

**APPLICANT**

Name Shayne Pasek with TRC/Alton Geoscience  
Address 852 Commercial Circle Fax 925-688-0388  
City Concord Phone 925-688-1900 Zip 94520

**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.

**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"/>

**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.

**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"/>

**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.

**DRILLING METHOD:**

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

**E. CATHODIC**

Fill hole above anode zone with concrete placed by tremie.

DRILLER'S LICENSE NO. CS7-720904

**F. WELL DESTRUCTION**

See attached.

**WELL PROJECTS**

Drill Hole Diameter _____ in.	Maximum
Casing Diameter <u>4</u> in.	Depth <u>25</u> ft.
Surface Seal Depth _____ ft.	Number <u>4</u>

**G. SPECIAL CONDITIONS**

**GEOTECHNICAL PROJECTS**

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

ESTIMATED STARTING DATE 2-14-00  
ESTIMATED COMPLETION DATE 2-14-00

APPROVED Frank A. Cobb DATE 01-13-00

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

APPLICANT'S SIGNATURE Shayne P. Pasek DATE 1-12-00

Service No. \_\_\_\_\_

APPLICATION TO PERFORM WORK  
IN THE PUBLIC RIGHT-OF-WAY

Permit Number

Jan 31, 2000

Date Approved

Work Site: Former Mobil Station, 141-FAN, 14994 E. 14th Street, San Leandro

Applicant: Name Shayne Peck et TRC Address 5050 Commercial Circle (opp of 9450) Tel (510) 688-2479

Owner: Name Exxon Mobil Production Services Address 205 Alton St. Oakley 94561 Tel (925) 625-1173

Purpose of Permit:

Utility  Street Excavation  Curb, Gutter Sidewalk, Driveway  Other Well Destruction

Detailed Description and Dimensions of Work:

Destruction of monitoring wells. Wells will be grouted to surface and the well boxes will be removed. Two wells will be destroyed. MW-7A is located on East 14th Street and MW-5A on 15th Avenue. Attached site plan shows location of wells

Plan Submitted: Yes \_\_\_\_\_ No  Profile Submitted: Yes \_\_\_\_\_ No

Date Work to be Started: 2-14-00 Date Work to be Completed by: 2-14-00

Building Permit No. \_\_\_\_\_ State Encroachment Permit No. 0495-LSV0631

Oro Loma Permit No. \_\_\_\_\_ Alameda County Flood Control Permit No. \_\_\_\_\_

Compliance with State Labor Code: In accordance with Section 3800

- Applicant has on file, with the City of San Leandro, evidence that workman's compensation insurance is carried.
- Applicant will not employ anyone so as to become subject to the workman's compensation laws of California.

Statement of State Contractor's License: In accordance with Section 7031.5 of the State Business and Professions Code.

- Applicant has State License No. CS7-720904, Class \_\_\_\_\_ in full force and effect.
- Applicant is exempt from the State Contractor's License Law for the following reason(s): \_\_\_\_\_

By the application and acceptance of this permit, the undersigned intending to be legally bound does hereby agree that all work performed will be in accordance with all applicable provisions of this permit and all regulations, provisions, and specifications as adopted by the City. Further, the undersigned agrees that this permit is to serve as a guaranty for payment of all permit and/or inspection charges as billed by the City. Any misrepresentation of information required from the applicant on this form shall make this permit null and void.

ENGINEERING

Signature: Shayne K. Peck

Date: 1-27-00

JAN 28 2000

PLEASE CALL 577-3308 FOR INSPECTIONS

**TRANSPORTATION**

Backfill Required: \_\_\_\_\_

Pavement Section Required: PER CITY OF SAN LEANDRO'S STD. DETAILS and SPECIFICATIONS.

Minimum Depth of Cover: \_\_\_\_\_

Police & Fire Dept. to be notified 24 hours prior to start: YES  NO \_\_\_\_\_

\* TRAFFIC CONTROL PLAN SHALL BE PER CALTRANS STD. WORKING HOURS SHALL BE FROM 9:00-3:00

NO STREET CLOSURE ALLOWED.

SEE REVERSE SIDE FOR GENERAL PROVISIONS APPLICABLE TO ALL PERMIT WORK

**PERMIT IS VALID WHEN SIGNED**

Any omission on the part of the City to specify on this permit any rule, regulation, provision, or specification shall not excuse the permittee from complying with all requirements of law and appropriate ordinances and all applicable regulations, provisions, and specifications adopted by the City.

ISSUE FOR CITY ENGINEER

[Signature]

INSPECTION RECORD

Date	Comments	Insp.	Hrs. Charged

FEE \$ 125.00

PERMIT FEE: \_\_\_\_\_ To Acct. #3306

RESTORE/INSPECT DEPOSIT: ENGINEERING To CN # \_\_\_\_\_

STREET CUT FEE: \_\_\_\_\_ TO ACCT #3304

TOTAL: \_\_\_\_\_

JAN 31 2000

All charges collected at permit insurance

All charges collected at permit insurance

**TRANSPORTATION**

CN # \_\_\_\_\_

NOTE: 1 hr. Minimum charge per inspection stop

Hours forwarded from reverse side: \_\_\_\_\_

TOTAL HOURS CHARGED: \_\_\_\_\_

— CUSTOMER —

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**ENCROACHMENT PERMIT RIDER**  
 TR-0122

Collected by	Permit No (Original) 0495-6SV-0631
Rider Fee Paid \$70.00	Dis/Co/Rte/PM 04-Ala-185-3.74
Date February 28, 2000	Rider Number 0400-6RW-0537

TO:  EXXONMOBIL REMEDIATION SERVICES  
 C/O TRC/Alton Geoscience  
 5052 Commercial Circle  
 Concord, CA 94520  
 Attn: Shayne R. Pasek  
 Phone: (925) 688-2479

, PERMITTEE

In compliance with your request of February 14, 2000, we are hereby amending the above numbered encroachment permit as follows:

Date of completion extended to: June 30, 2001

Reference your project to: drill one soil boring and install one monitoring well on State Highway 04-Ala-185, Post Mile 3.74 at 14901 E. 14<sup>th</sup> Street in San Leandro.

Change owners' name to : EXXONMOBIL REMEDIATION SERVICES

Change address to : C/O TRC/Alton Geoscience  
 5052 Commercial Circle  
 Concord, CA 94520

Except as amended, all other terms and provisions of the original permit shall remain in effect.

Post-It™ brand fax transmittal memo 7671 # of pages ▶ 1

To: <i>[Handwritten]</i>	From: <i>[Handwritten]</i>
Co. <i>[Handwritten]</i>	Co. <i>[Handwritten]</i>
Dept. <i>[Handwritten]</i>	Phone # <i>[Handwritten]</i>
Fax # <i>[Handwritten]</i>	Fax # <i>[Handwritten]</i>

APPROVED:

HARRY Y. YAHATA, District Director

BY:

*[Handwritten Signature]*  
G. J. BATTAGLINI, District Permit Engineer

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**APPENDIX B**  
**FORMER WELL CONSTRUCTION DETAILS**





SEE SITE PLAN

ALISTO PROJECT NO: 10-190-02

DATE DRILLED: 06/01/95

CLIENT: Mobil Oil Corporation

LOCATION: 14994 E. 14th Street, San Leandro, California

DRILLING METHOD: Hollow-Stem Auger (11')

DRILLING COMPANY: Mitchell Drilling Env.tl

CASING ELEVATION: 37.18 MSL

LOGGED BY: Chris Reinheimer

APPROVED BY: Al Sevilla

BLOWS/6 IN	PTD VALUES	WELL DIAGRAM	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
		<p>4" Sch. 40 PVC Neat Cement Rentonite Seal 4" 0.010" Slotted PVC Screen #2/12 Lonestar Sand</p>	0				3" Asphalt; 1.5' Roadbase.
8,8,8	0		5			ML	clayey-gravelly-SILT: dark brown, damp, very stiff; gravel to 1.5 cm approximately 5%; roots to 5%.
8,11,11	1.2		10			CL	CLAY: medium gray/green, moist to wet, very stiff; root traces to 5%; rare gravel to 1 cm to approximately 2%.
8,7,9	NM		15			ML	clayey SILT: medium gray/green, moist to wet, very stiff; root traces to 2%; rare gravel to 1.5 cm < 2%.
4,5,5	NM		20			SC	sandy CLAY: medium gray/green, wet, stiff; fine- to medium-grained sand; well graded; wood fragments to 1.5 cm approximately 5%.
8,11,12	NM	25			ML	gravelly-silty-CLAY: medium orange brown, wet, very stiff; gravel to 1 cm approximately 10%; wood fragments to 1 cm approximately 5%.	
			30				Stabilized water level measured on August 2, 1995.



SEE SITE PLAN

ALISTO PROJECT NO: 10-190-02

DATE DRILLED: 06/01/95

CLIENT: Mobil Oil Corporation

LOCATION: 14994 E. 14th Street, San Leandro, California

DRILLING METHOD: Hollow-Stem Auger (1")

DRILLING COMPANY: Mitchell Drilling Env.tl

CASING ELEVATION: 35.91' MSL

LOGGED BY: Chris Reinheimer

APPROVED BY: Al Sevilla

BLOWS/6 IN.	PID VALUES	WELL DIAGRAM	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
7,10,13	0	<p>2" Sch. 40 PVC</p> <p>2" 0.010" Slotted PVC Screen</p> <p>Neat Cement</p> <p>Bentonite Seal</p> <p>#2/12 Lonestar Sand</p>	5			SM	clayey-silty-SAND: medium orange/brown, damp, medium dense; fine- to medium-grained sand; organics to 2%; rare gravel to 1 cm < 2%.
7,7,7	0		10			CL	silty CLAY: mottled medium brown and light red/brown, moist, stiff; caliche on root traces to 2%.
4,7,9	0		15				Same: mottled gray/brown and light red/brown, moist to wet, very stiff.
12,12,18	0		20				Same: dark brown, damp, hard; organics (rootlets and blebs); rare gravel to 1 cm < 2%.
8,18,20	0		25				GC
			30				Stabilized water level measured on August 2, 1995.



SEE SITE PLAN

ALISTO PROJECT NO: 10-190-02

DATE DRILLED: 08/02/95

CLIENT: Mobil Oil Corporation

LOCATION: 14994 E. 14th Street, San Leandro, California

DRILLING METHOD: Hollow-Stem Auger (1")

DRILLING COMPANY: Mitchell Drilling Env. II

CASING ELEVATION: 37.10 MSL

LOGGED BY: Chris Reinheimer

APPROVED BY: Al Sevilla

BLOWS/8 IN.	PID VALUES	WELL DIAGRAM	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
4,6,8	0		5	■		ML	clayey-gravelly-SILT: medium red/brown, damp, stiff; roots from 2-5%; gravel to 1.5 cm approximately 5%.
4,8,12	0		10	■		CL	CLAY: medium tan, moist, very stiff; root traces to 5%; organics to 2%; rare gravel to 1 cm approximately 2%.
8,11,11	NM		15	■		ML	clayey SILT: medium brown mottled light gray, moist to wet, very stiff; root traces to 2%.
4,7,8	NM		20	■		SC	sandy CLAY: medium orange/brown, wet, stiff; fine- to medium-grained sand; well graded; wood fragments and organics to 2%.
8,18,12	NM		25	■		GC	gravelly CLAY: medium orange/brown, damp, very stiff; gravel to 1 cm approximately 10-15%.
			30				Stabilized water level measured on August 2, 1995.



SEE SITE PLAN

ALISTO PROJECT NO: 10-190-01

DATE DRILLED: 07/28/95

CLIENT: Mobil Oil Corporation

LOCATION: 14994 E. 14th Street, San Leandro, California

DRILLING METHOD: Hollow-Stem Auger (11")

DRILLING COMPANY: Mitchell Drilling Env.tl

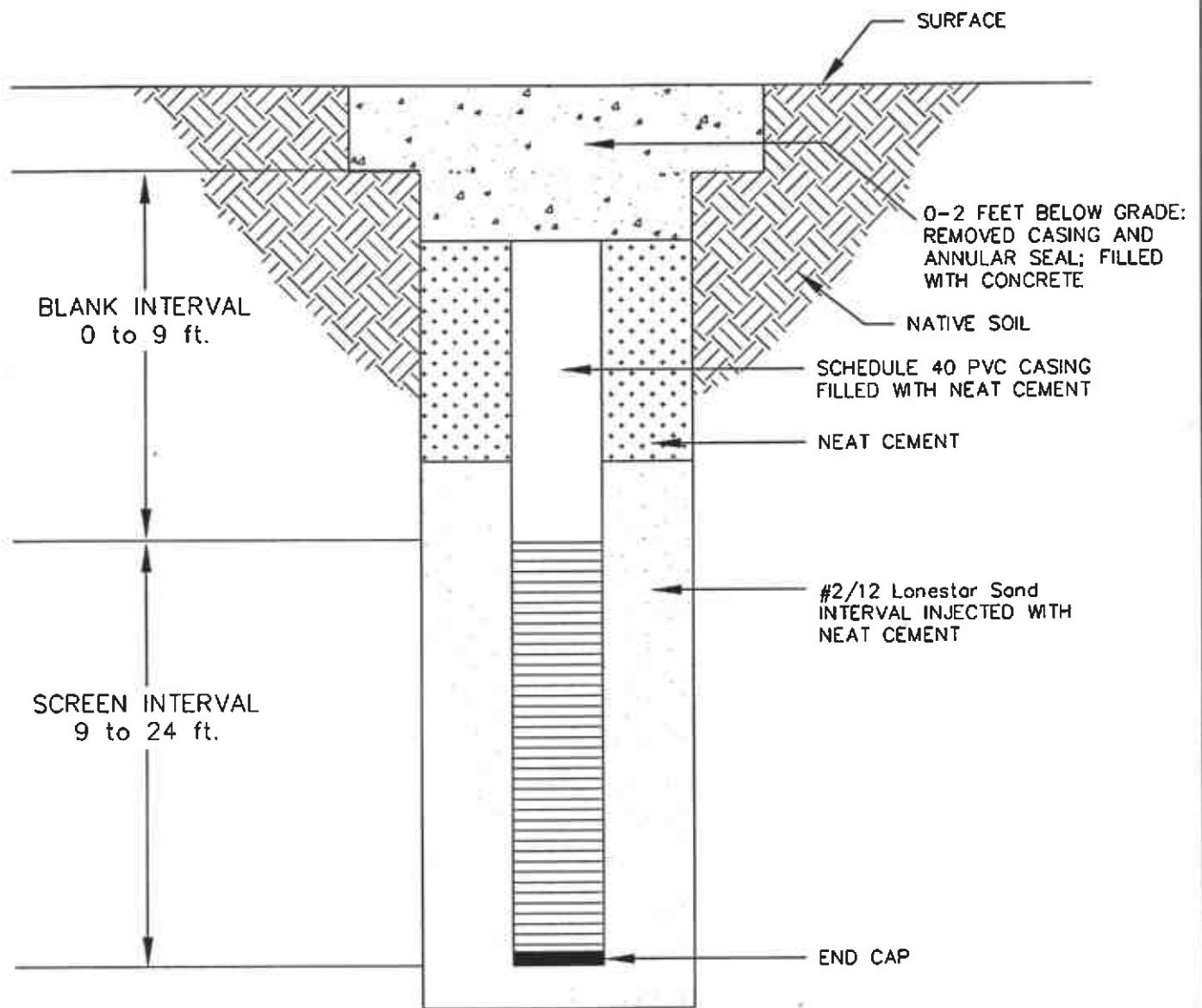
CASING ELEVATION: 37.39 MSL

LOGGED BY: Chris Reinheimer

APPROVED BY: Al Sevilla

BLOWS/8 IN.	PTD VALUES	WELL DIAGRAM	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
			0				3" Asphalt; 1.5' Roadbase.
7,9,10	C		5	■		ML	clayey-gravelly-SILT: dark brown, damp, very stiff; gravel to 1.5 cm approximately 5%; roots to 5%.
9,13,12	C		10	■		CL	CLAY: medium gray/green, moist to wet, very stiff; root traces to 5%; rare gravel to 1 cm to approximately 2%.
7,8,11	NM		15	■		ML	clayey SILT: medium gray/green, moist to wet, very stiff; root traces to 2%; rare gravel to 1.5 cm < 2%.
8,8,8	NM		20	■		SC	sandy CLAY: medium gray/green, wet, stiff; fine- to medium-grained sand; well graded; wood fragments to 1.5 cm approximately 5%.
7,12,12	NM	25	■		ML	gravelly-silty-CLAY: medium orange brown, wet, very stiff; gravel to 1 cm approximately 10%; wood fragments to 1 cm approximately 5%.	
			30				Stabilized water level measured on August 2, 1995.

**APPENDIX C**  
**WELL ABANDONMENT DETAILS**



WELL ID:	MW-4A
BORING DIAMETER:	11 in.
BORING DEPTH:	25 ft.
CASING DIAMETER:	4 in.
DATE ABANDONED:	03/9/00

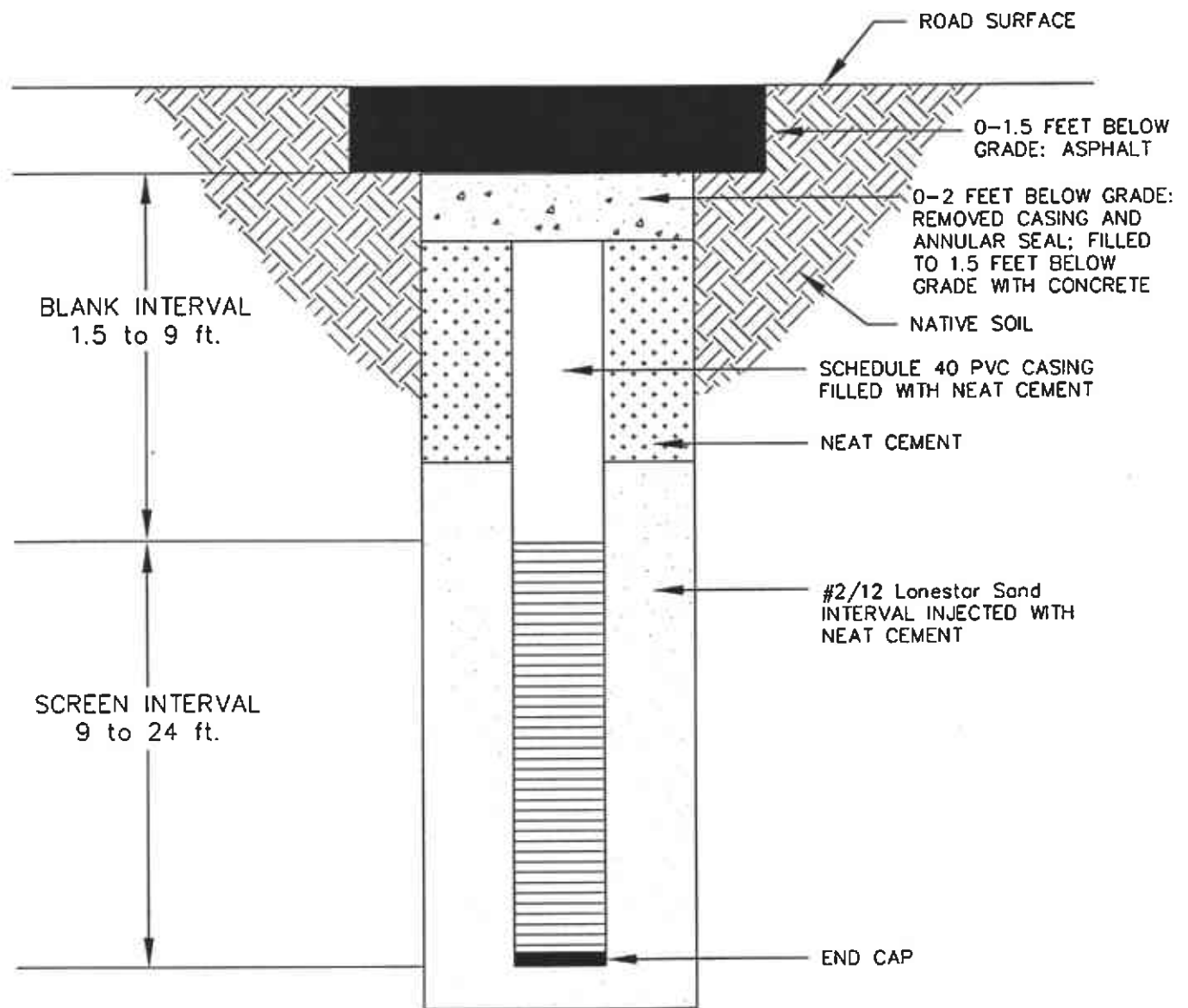
**WELL ABANDONMENT DETAIL  
MW-4A**

Former Mobil Station 04-FGN  
14994 East 14th Street  
San Leandro, California



**ALTON  
GEOSCIENCE**  
Northern California

SCALE: NOT TO SCALE



WELL ID:	MW-5A
BORING DIAMETER:	11 in.
BORING DEPTH:	25 ft.
CASING DIAMETER:	2 in.
DATE ABANDONED:	03/9/00

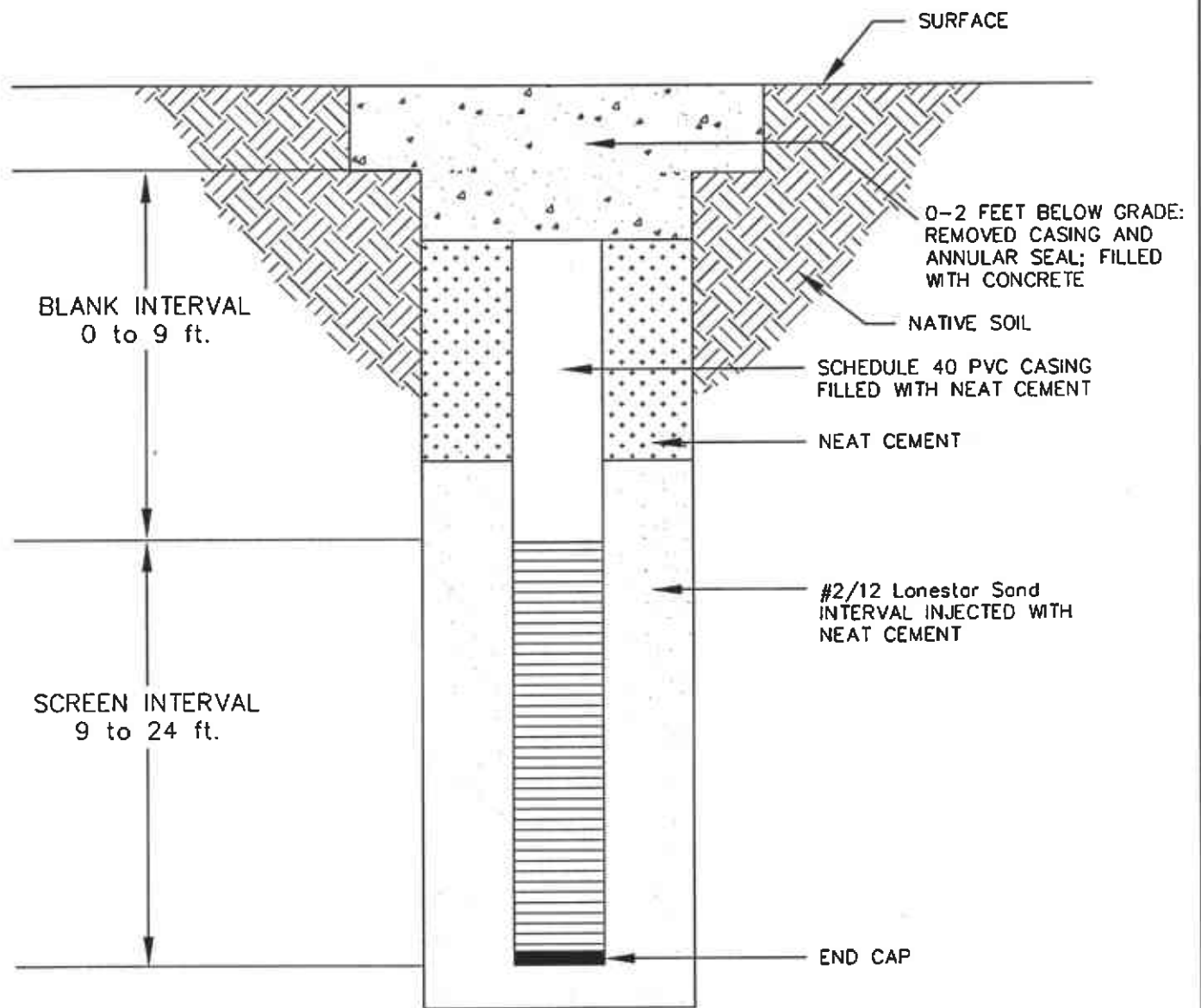
**WELL ABANDONMENT DETAIL  
MW-5A**

Former Mobil Station 04-FGN  
14994 East 14th Street  
San Leandro, California



**ALTON  
GEOSCIENCE**  
Northern California

SCALE: NOT TO SCALE



WELL ID:	MW-6A
BORING DIAMETER:	11 in.
BORING DEPTH:	25 ft.
CASING DIAMETER:	2 in.
DATE ABANDONED:	03/9/00

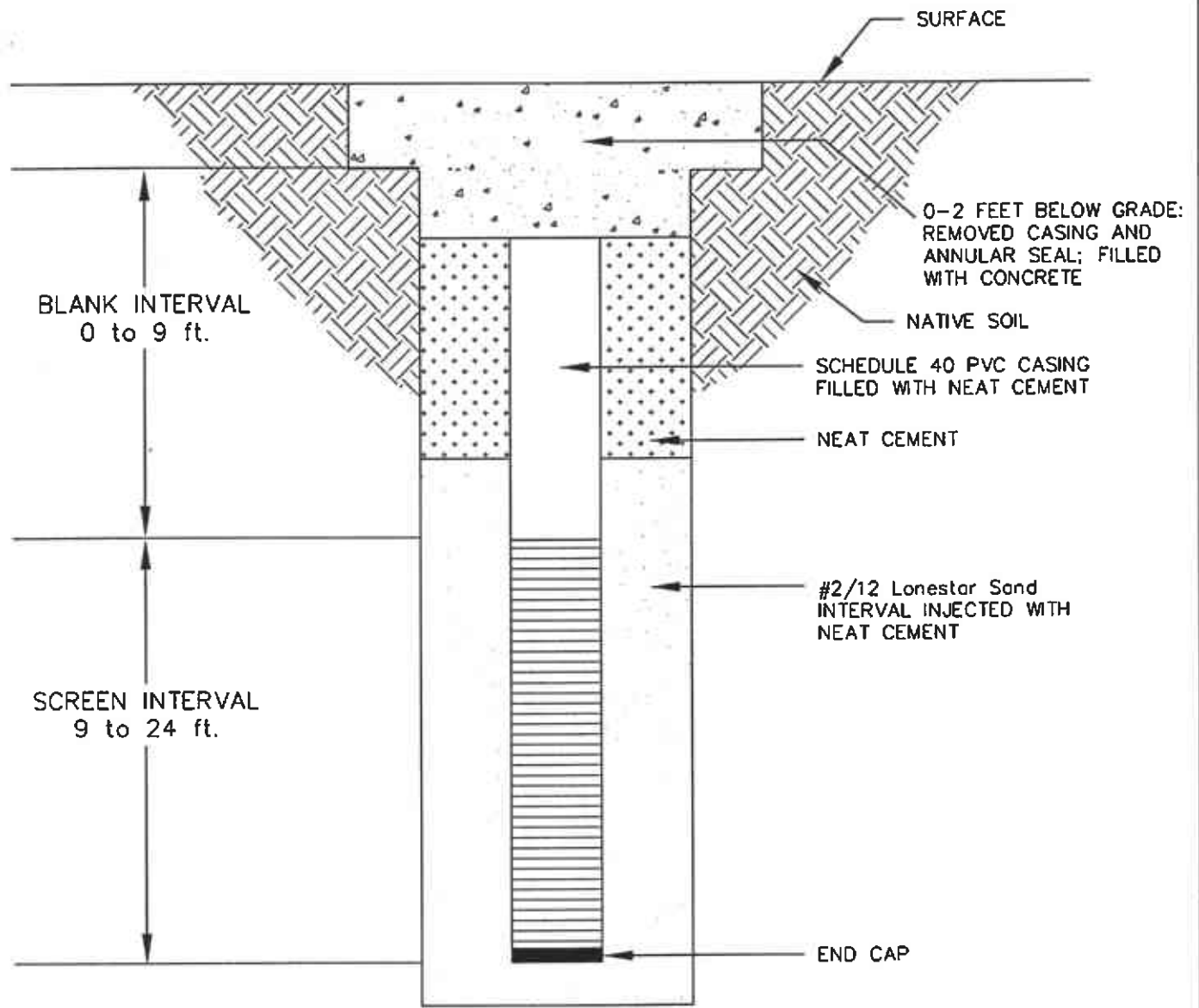
**WELL ABANDONMENT DETAIL  
MW-6A**

Former Mobil Station 04-FGN  
14994 East 14th Street  
San Leandro, California



SCALE: NOT TO SCALE





WELL ID:	MW-7A
BORING DIAMETER:	11 in.
BORING DEPTH:	25 ft.
CASING DIAMETER:	4 in.
DATE ABANDONED:	03/9/00

**WELL ABANDONMENT DETAIL  
MW-7A**

Former Mobil Station 04-FGN  
14994 East 14th Street  
San Leandro, California



SCALE: NOT TO SCALE

**APPENDIX D**  
**WELL COMPLETION REPORTS**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**