

# BP Amoco



October 27, 2000

Alameda County Health Care Services Agency  
Attention Ms. Eva Chu  
1131 Harbor Bay Parkway, Room 250  
Alameda, CA 94502-6577

RE: Former BP Oil Site No. 11104  
1716 Webster Street (at Buena Vista)  
Alameda, CA

Dear Ms. Chu:

Enclosed find the *Potential Receptor Survey, Expanded Site Plan and Well Search* prepared by Alisto Engineering Group on behalf of BP.

Please contact me at (425) 251-0689 if you have any questions or concerns regarding this submittal.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Hooton".

Scott Hooton

attachment

cc: site file  
David Camille - Tosco (w/attachment)

Scott T. Hooton  
Portfolio Manager

BP Exploration & Oil Inc.  
295 SW 41<sup>st</sup> Street  
Bldg. 13, Ste. "N"  
Renton, Washington 98055

Phone: (425) 251-0689  
Fax: 425-251-0736  
Internet: hootonst@bp.com

A BP Amoco Group Company

ENVIRONMENTAL  
PROTECTION

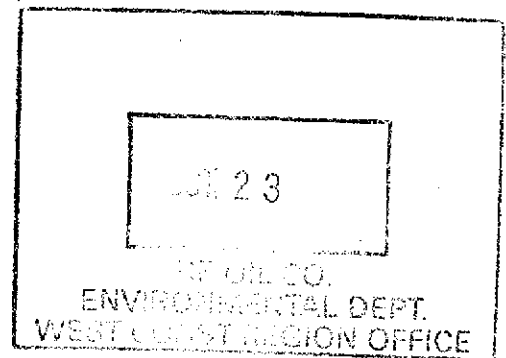
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**ALISTO ENGINEERING GROUP**

October 19, 2000

Mr. Scott Hooton  
Environmental Resources Management  
BP Oil Company  
295 S.W. 41st Street  
Building 13, Suite N  
Renton, Washington 98055



10-155-08-05

Subject: Potential Receptor Survey, Expanded Site Plan and Well Search  
BP Oil Company Service Station No. 11104  
1716 Webster Street  
Alameda, California

Dear Mr. Hooton:

Alisto Engineering Group is pleased to submit the completed BP Oil Potential Receptor Survey, the expanded site plan and utility map, and the results of the well search to identify wells in the vicinity of BP Oil Company Service Station No. 11104, 1716 Webster Street, Alameda, California.

A review of the files of the State of California Department of Water Resources (DWR) was performed to identify all wells within a one-half-mile radius of the site. The results of the well search reveal that there are 26 wells other than onsite monitoring wells. Of these, 23 are offsite monitoring or test wells and three are offsite irrigation wells. No water supply wells were identified from review of the DWR files.

Attached for your use are the following:

- The completed Potential Receptor Survey
- Expanded Site Plan and Utility Map showing the locations of nearby offsite properties and structures, including the locations of underground utilities
- Table presenting available property addresses and owners by assessor's parcel number
- Well Location Map
- Well Survey Summary Table
- Water Well Drillers Reports

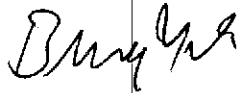
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Mr. Scott Hooton  
October 19, 2000  
Page 2

Please call if you have questions or comments.

Sincerely,

ALISTO ENGINEERING GROUP



Brady Nagle  
Project Manager

Enclosures

**Potential Receptor Survey**

Site # 11104

Site # 11104  
 Address 1716 Webster St.  
 City/State Alameda, CA  
 County Alameda  
 Quadrangle Latitude 37° 46' 37"  
 Longitude 122° 16' 31"

Signature of Preparer William A. Bin  
 Company: Alisto Engineering Group  
 Date: 4/7/00

**1. Potential Receptors**

Provide information for the following potential receptors	Yes/No	Field Verify	Date Verify	Distance	Direction	Depth
	Y/N			Complete as appropriate		
Is a basement or subsurface foundation within 100 feet of the source or source area?	Y	Y	4/7/00	50 FT	S,W	
Is a school within 1000 feet of the source or source area?	N	Y	4/7/00	NA	NA	
Is a storm sewer within 50 feet of the source or source area?	Y	Y	4/7/00	30 FT	E	Unknown
Is a sanitary sewer within 50 feet of the source or source area?	Y	Y	4/7/00	30 FT	E	Unknown
Is a septic system leach field within 50 feet of the source or source area?	N	Y	4/7/00	NA	NA	
Is a water line main within 50 feet of source or source area?	Y	Y	4/7/00	30 FT	E	Unknown
Is a natural gas line main within 50 feet of the source or source area?	Y	Y	4/7/00	50 FT	E	Unknown
Is a buried telephone/television cable main within 50 feet of the source or source area?	Y	Y	4/7/00	25 FT	N	Unknown
Is a buried electrical cable main within 50 feet of source or source area?	N	Y	4/7/00	NA	NA	NA
Is a subway within 1000 feet of the source or source area?	N	Y	4/7/00	NA	NA	NA
Is the bedrock area prone to dissolution along joints or fractures within 100 feet of the source or source area?	N	Y	4/7/00			
Is there a fault or known fracture within 100 feet of the source or source area?	N	Y	4/7/00			

Potential Receptor SurveySite # 11104

Source of information Site Visits, PG&E, City of Alameda, Pacific Bell, EBMUD, Geologic Maps of Upper Cenozoic Deposits in Central CA, 1993

Verified By William Bir Date 4/7/00

**2. Sensitive Areas**

Provide Information for the following potential receptors	Yes/No	Field Verify	Date Verify	If yes, give a brief explanation of classification
	Y/N			Complete as appropriate
Is this property classified as a sensitive area?	N	Y	4/7/00	

Source of information California Department of Fish and Game Website \*

Verified By William Bir Date 4/7/00

**3. Drinking Water Supply**

Provide Information for the following potential receptors	Yes/No	Field Verify	Date Verify	Distance	Direction	Production Rate
	Y/N			Complete as appropriate		
Is a public water supply well within 3 miles of the source or source area?	N	Y	4/7/00			
Is a public water supply intake within 3 miles of the source or source area?	N	Y	4/7/00	Note: Field verified by Alisto staff visits to each potential water-supply well.		
Is a private water supply well within 0.5 miles of the source or source area?	N	Y	4/7/00			

Source of information California Department of Water Resources \*\*

Verified By William Bir Date 4/7/00

\* California Department of Fish and Game Website; Habitat Conservation Division; Wetlands Inventory and Conservation Unit; View Maps; Wetland and Riparian Classification for Bay Area Region of California (urban areas listed as "other")

\*\* Review of DWR Well Data Sheets from the Sacramento office.

**Potential Receptor Survey**

Site # 11104

Is this a sole source aquifer? Yes  No

Depth to top of aquifer: Unknown

Source of information California Department of Water Resources

Verified By William Bir Date 4/7/00

**7. Describe monitoring wells, if any:**

Number: 5

Free Product: Yes  No  Well(s) \_\_\_\_\_

Source of information Alisto Engineering Group

Verified By William Bir Date 4/7/00

**8.0 Relevant Ecological Receptors and Habitats**

**8.1 Property Characteristics**

Size of Property (acres)	→	0.22
% of property that is wooded	→	1%
Dominant tree type	→	Ornamental
% of property that is scrub/shrub	→	2%
Dominant Vegetation	→	Ornamental Shrubs
% of property that is open land	→	0%
% of property that is grass area	→	2%
% of property that is agricultural crops	→	0%
% of property that is barren	→	0%
% of property that is commercial or industrial use including paved areas	→	95%

Source of information Field Visit

Verified By William Bir Date 4/7/00

Potential Receptor Survey

Site # 11104

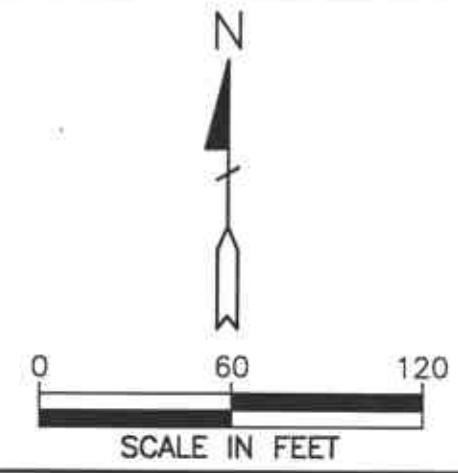
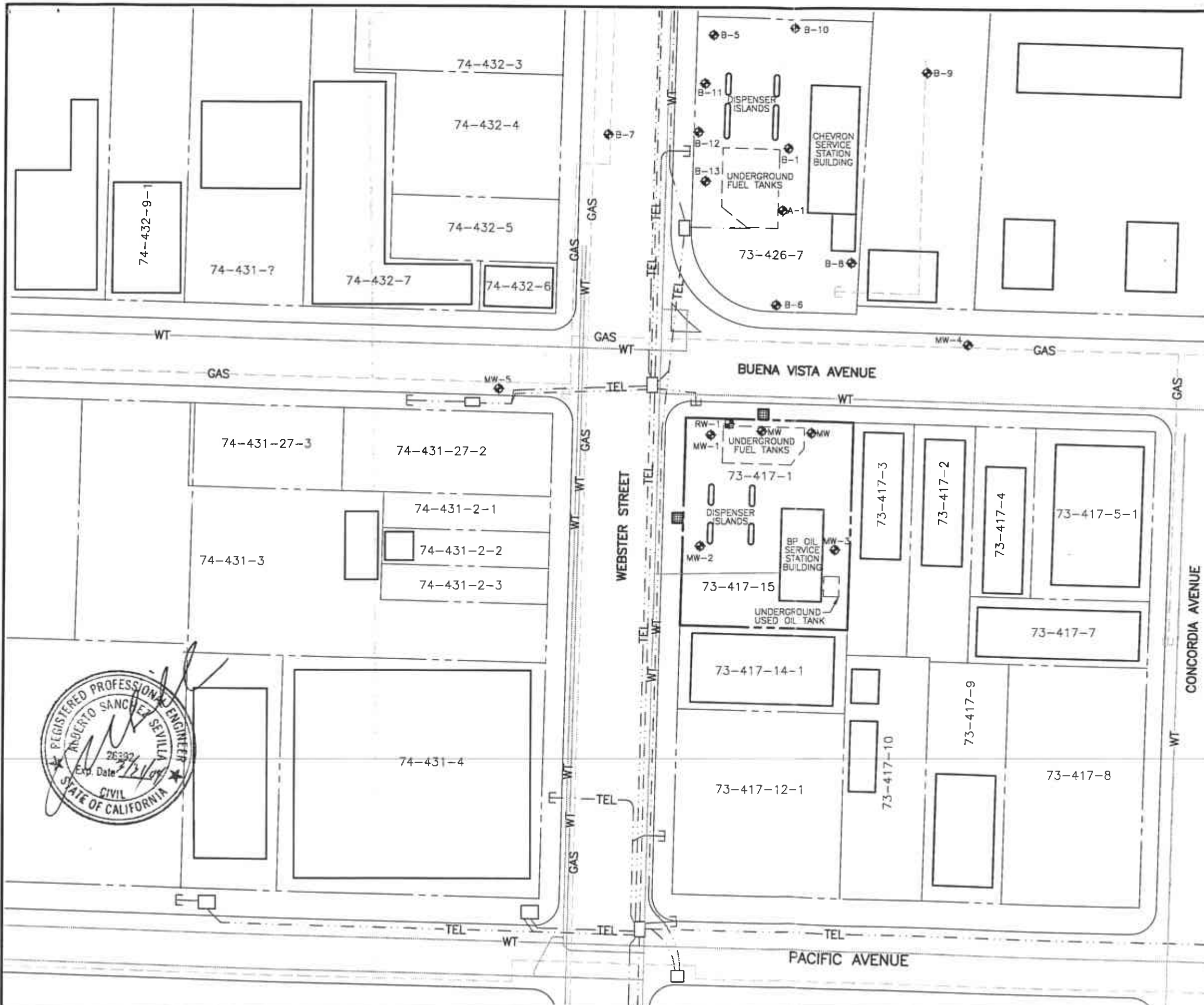
**8.4 Wetlands**

Are there any wetlands present on the property?	→	No
Describe the type of vegetation present	→	NA
Identify the source of water	→	NA
Is the wetlands influenced by tidal changes?	→	NA
Describe the observed biota	→	NA

Source of information Site Visit

Verified By William Bir Date 4/7/00





- LEGEND**
- ◆ GROUNDWATER MONITORING WELL
  - ⊠ GROUNDWATER RECOVERY WELL
  - 73-417-15 ASSESSOR'S PARCEL NUMBER
  - DROP INLET GRATE
  - MANHOLE
  - ABOVE/UNDERGROUND TRANSFORMER
  - FIRE HYDRANT
  - POWER POLE

- UNDERGROUND UTILITY LINES**
- SS — SANITARY SEWER PIPE
  - SD — STORM DRAIN PIPE
  - WT — WATER SERVICE PIPE
  - GAS — GAS PIPE
  - EL --- ELECTRICAL LINE
  - TEL --- TELEPHONE LINE
  - TCL --- TELEVISION CABLE LINE
  - > UNKNOWN DESTINATION
  - |— END OF PIPE
  - (?) INVERT ELEVATION RELATIVE TO BENCH MARK

**NOTE:**  
 Location of utilities are approximate and based upon information provided at time of preparation. This map is not to be used for any construction or related activities.

BP OIL SERVICE STATION NO. 11104  
 1716 WEBSTER STREET  
 ALAMEDA, CALIFORNIA  
 PROJECT NO. 10-155



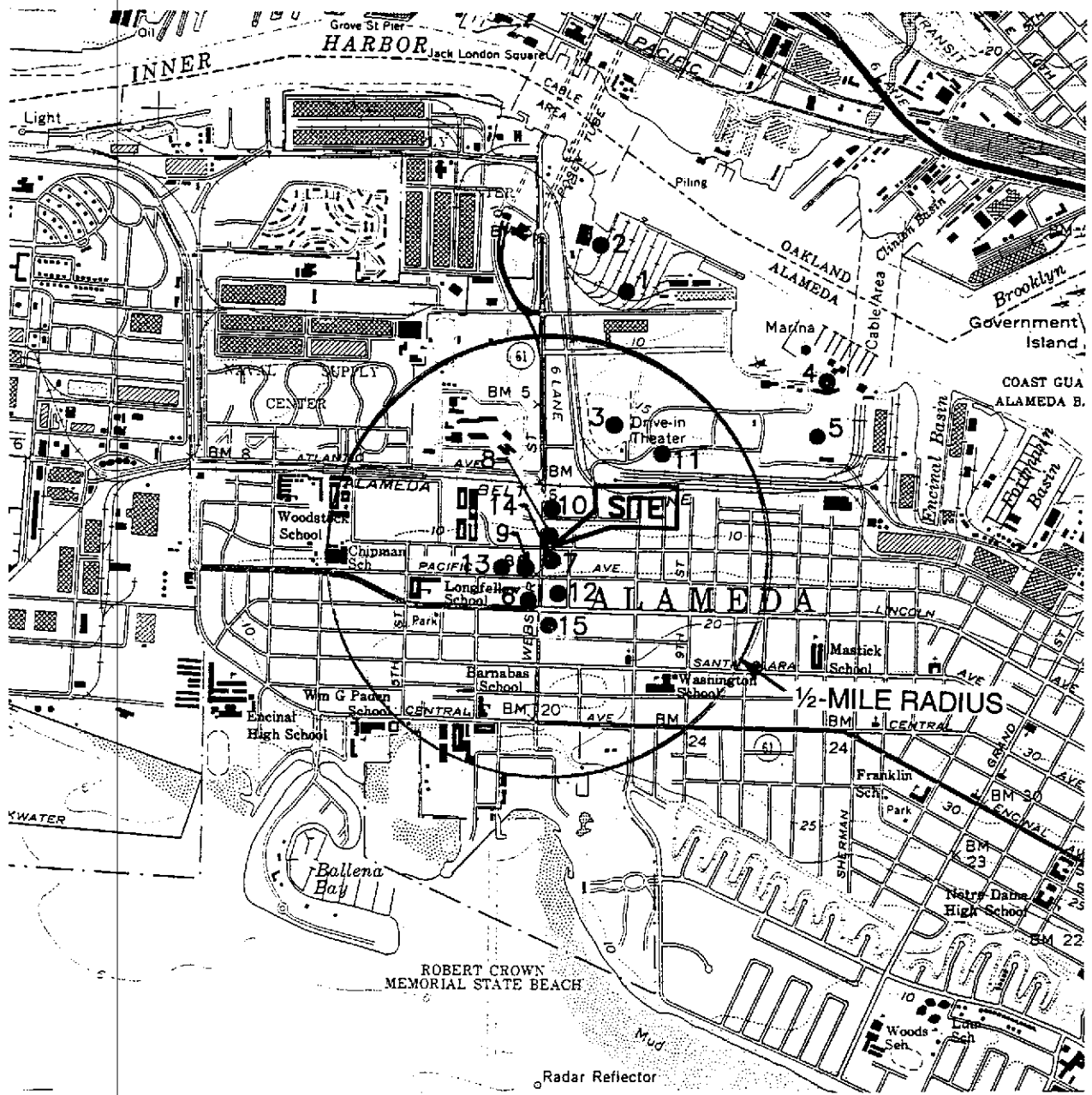


**ADJACENT PROPERTIES**  
**BP OIL COMPANY SERVICE STATION NO. 11104**  
**1716 WEBSTER STREET, ALAMEDA, CALIFORNIA**

APN	Property Address	Owner
73-417-15	1716 Webster Street Alameda, CA 94501	Lois DeClerq P.O. Box 52085 Phoenix, AZ 85072
73-417-1	1720 Webster Street Alameda, CA 94501	Leatrice M. Whitney P.O. Box 52085 Phoenix, AZ 85072
73-417-14-1	1712 Webster Street Alameda, CA 94501	Stanley & Robert Flindt 1712 Webster Street Alameda, CA 94501
73-417-12-1	1700 Webster Street Alameda, CA 94501	Doggie Diner Inc. c/o: Ogden Corporation/TX Dept. 2 Penn Plaza New York, NY 10121
73-417-2	706 Buena Vista Avenue Alameda, CA 94501	David L. & Susan H. Franklin 839 Portola Avenue Alameda, CA 94501
73-417-3	710 Buena Vista Avenue Alameda, CA 94501	David L. & Susan H. Franklin 839 Portola Avenue Alameda, CA 94501
73-417-4	714 Buena Vista Avenue Alameda, CA 94501	David L. & Susan H. Franklin 839 Portola Avenue Alameda, CA 94501
73-417-5-1	718 Buena Vista Avenue Alameda, CA 94501	Tim & Margaret Hing 937 Lincoln Avenue Alameda, CA 94501
73-417-7	1717 Concordia Street Alameda, CA 94501	Lawrence J. & Rene C. Canepa P.O. Box 2462 Arnold, CA 95223
73-417-10	709 Pacific Avenue Alameda, CA 94501	David & Maria A. Rodolfo 171 Shetland Court Vallejo, CA 94591
73-417-9	713 Pacific Avenue Alameda, CA 94501	Andrew J. Jenson 713 Pacific Avenue Alameda, CA 94501
73-417-8	729 Pacific Avenue Alameda, CA 94501	John Ferraii P.O. Box 1611 Alameda, CA 94501
74-432-6	1801 Webster Street Alameda, CA 94501	Lorreta & Scott Emerician c/o: Scott/Joann Emerician 851 Crossbrook Court Moraga, CA 94556
74-432-5	1805 Webster Street Alameda, CA 94501	Scott & Joann Emerician 851 Crossbrook Court Moraga, CA 94556
74-432-4	1809 Webster Street Alameda, CA 94501	Scott & Joann Emerician 851 Crossbrook Court Moraga, CA 94556

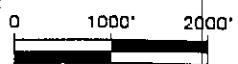
74-432-3	1817 Webster Street Alameda, CA 94501	Ann & Francine Sofios 14104 Panay Way Marina Del Ray, CA 90292
74-432-2	1821 Webster Street Alameda, CA 94501	Ann & Francine Sofios 14104 Panay Way Marina Del Ray, CA 90292
74-432-1	1825 Webster Street Alameda, CA 94501	John E. & Mary J. Stuart 1897 Castle Hill Road Walnut Creek, CA 94595
74-432-7	647 Buena Vista Alameda, CA 94501	Adam & Edna S. & James Stonehouse 2137 Otis Drive Alameda, CA 94501
74-432-9-1	639 Buena Vista Alameda, CA 94501	Maude P. Giorgi c/o: Southland Corporation 2711 North Haskell Avenue Dallas, TX 75204
74-431-27-3	640 Buena Vista Alameda, CA 94501	Louise Young & Angelina Testa 2627 Oliver Avenue Oakland, CA 94605
74-431-27-2	1727 Webster Street 1729 Webster Street Alameda, CA 94501	Louise Young & Angelina Testa 2627 Oliver Avenue Oakland, CA 94605
74-431-2-1	1719 Webster Street Alameda, CA 94501	Norma Martino & Fred B. Ferrero 264 Calle La Mesa Moraga, CA 94556
74-431-2-2	1725 Webster Street Alameda, CA 94501	Shannon Arleen & E.P. Poggi & Fred Ferrero 264 Calle La Mesa Moraga, CA 94556
74-431-3	1715 Webster Street Alameda, CA 94501	Shannon Arleen & E.P. Poggi 264 Calle La Mesa Moraga, CA 94556
74-431-4	1711 Webster Street Alameda, CA 94501	Bernita A. Leskowski 6319 Castle Road Oakland, CA 94611
74-431-25	620 Buena Vista Alameda, CA 94501	Wilfredo & Marina Navarro 2032 Otis Drive Alameda, CA 94501
74-431-26	616 Buena Vista Alameda, CA 94501	Jeffrey C. Gould Alameda, CA 94501
74-431-28-4	612 Buena Vista Alameda, CA 94501	Russell J. Bruzzone 899 Hope Lane Lafayette, CA 94549
74-431-28-5	600 Buena Vista Alameda, CA 94501	Russell J. Bruzzone 899 Hope Lane Lafayette, CA 94549
74-431-11	617 Pacific Avenue Alameda, CA 94501	Cathleen & Cary Perkins c/o: Christine Mazala 2424 Central Avenue Alameda, CA 94501
74-431-12	617D Pacific Avenue Alameda, CA 94501	Roger M. Brown 1249 Vallejo Street San Francisco, CA 94109

74-431-10	617C Pacific Avenue Alameda, CA 94501	Veronica E. Thrall 617C Pacific Street Alameda, CA 94501
74-431-18	617E Pacific Avenue Alameda, CA 94501	Roland & Gertrude E. Machin 617E Pacific Avenue Alameda, CA 94501
74-431-28-5	600 Buena Vista Alameda, CA 94501	Russell J. Bruzzone 899 Hope Lane Lafayette, CA 94549
74-431-26	620 Buena Vista Alameda, CA 94501	Louis Bruzzone Heirs of Estate c/o: Mary B. Buckley 601 Laurel Avenue San Mateo, CA 94401
73-426-7	1800 Webster Street Alameda, CA 94501	Chevron USA Inc. c/o: Chevron Services Company P.O. Box 285 Houston, TX 77001
73-426-8	1812 Webster Street Alameda, CA 94501	Arnold Cherry c/o: Chevron Services Company P.O. Box 285 Houston, TX 77001
73-426-9	1816 Webster Street Alameda, CA 94501	Foodmaker Inc. 9330 Balboa Avenue San Diego, CA 92123
73-426-10	1822 Webster Street Alameda, CA 94501	Foodmaker Inc. 9330 Balboa Avenue San Diego, CA 92123
73-426-11	1826 Webster Street Alameda, CA 94501	Foodmaker Inc. 9330 Balboa Avenue San Diego, CA 92123
73-426-6	Buena Vista Alameda, CA 94501	Housing Authority of the City 701 Atlantic Avenue Alameda, CA 94501



● WELL LOCATION

SOURCE:  
USGS MAP, OAKLAND WEST QUADRANGLE,  
CALIFORNIA, 7.5 MINUTE SERIES, 1959.  
PHOTOREVISED 1980.



QUADRANGLE LOCATION

**WELL LOCATION MAP**

BP OIL SERVICE STATION NO. 11104  
1716 WEBSTER STREET  
ALAMEDA, CALIFORNIA  
PROJECT NO. 10-155



**ALISTO ENGINEERING GROUP**  
WALNUT CREEK, CALIFORNIA

**WELL SURVEY**  
**BP Oil Co. Service Station No. 11104**  
**1716 Webster Street**  
**Alameda, California**

**Alisto Project No. 10-155**

COUNTY WELL NO.	ALISTO MAP REFERENCE NO.	OTHER WELL NO.	WELL OWNER	WELL DEPTH (feet)	SEAL DEPTH (feet)	WELL USE	STATUS
2S/4W2Q1	1	8730023A-1	Vintage Properties 1150 Marina Village Parkway Alameda, CA 94501	16.5	3	Test Well	Active
2S/4W2Q3	2	8730023A-3	Vintage Properties 1150 Marina Village Parkway Alameda, CA 94501	14	6	Test Well	Active
2S/4W2Q4	3	8730023A-4	Vintage Properties 1150 Marina Village Parkway Alameda, CA 94501	14	2	Test Well	Active
2S/4W2Q2	4	8730023A-2	Vintage Properties 1150 Marina Village Parkway Alameda, CA 94501	15.5	1.5	Test Well	Active
02S04W02Q05	5	GMW-8	Alameda Real Estate Investments, Inc. 1150 Marina Village Parkway Alameda, CA 94501	18	3	Monitoring	Active
02S04W02Q06	5	GMW-9	Alameda Real Estate Investments, Inc. 1150 Marina Village Parkway Alameda, CA 94501	20	4	Monitoring	Active
02S04W02Q07	5	GMW-10	Alameda Real Estate Investments, Inc. 1150 Marina Village Parkway Alameda, CA 94501	15	2.5	Monitoring	Active
2S/4W11F2	6	MW-1	Shell Oil Company P.O. Box 4848 Anaheim, CA 92803	21	5	Monitoring	Active

2S/4W11F3	6	MW-2	Shell Oil Company P.O. Box 4848 Anaheim, CA 92803	21	5	Monitoring	Active
02S04W11020	7	MW-5	BP Oil Company 16400 Southcenter Parkway, #301 Tukwita, WA 98188	15	3	Monitoring	Active
02S04W11C19	7	MW-4	BP Oil Company 16400 Southcenter Parkway, #301 Tukwita, WA 98188	15	3	Monitoring	Active
02S04W11C16	8	B-7	Chevron USA Inc. P.O. Box 5004 San Ramon, CA 94583-0804	15	2	Monitoring	Active
02S04W11C17	8	B-8	Chevron USA Inc. P.O. Box 5004 San Ramon, CA 94583-0804	15	2	Monitoring	Active
02S04W11C18	8	B-9	Chevron USA Inc. P.O. Box 5004 San Ramon, CA 94583-0804	15	2	Monitoring	Active
2S/4N11C3	9		Benita Leskowski 6319 Castle Drive Oakland, CA 94501	19	0.5	Monitoring	Active
2S/4N11C4	9		Benita Leskowski 6319 Castle Drive Oakland, CA 94501	19	0.5	Monitoring	Active
2S/4W11C8	10	MW-1	Dolan Foster Enterprises 55546 Seaboard Lane Hayward, CA 94545	18	3	Monitoring	Active
2S/4W11C9	10	MW-2	Dolan Foster Enterprises 55546 Seaboard Lane Hayward, CA 94545	18	3	Monitoring	Active
2S/4W11C10	10	MW-3	Dolan Foster Enterprises 55546 Seaboard Lane Hayward, CA 94545	18	3	Monitoring	Active
2S/4W11C11	10	MW-4	Dolan Foster Enterprises 55546 Seaboard Lane Hayward, CA 94545	19	4	Monitoring	Active

2S/4W11C12	10	MW-3	Shell Oil Company P.O. Box 4023 Concord, CA 94524	20	5	Monitoring	Active
2S14W11C6	11	MW-3	Housing Authority of the City of Alameda 701 Atlantic Avenue Alameda, CA 94501	14.5	4.5	Monitoring	Active
2S/4W-11E1	12		Daniel C. Robinson 1614 6th Street Alameda, CA 94501	25	3 "	Irrigation	Active
2S/4W11D1	13		H.W. Moore 608 Pacific Avenue Alameda, CA 94501	29	10	Irrigation	Active
2S/4W11C19	14	MW-4	BP Oil Company 16400 Southcenter Parkway, Suite 301 Tukwila, WA 98188	15	5	Monitoring	Active
	15		F.Takashiima 1541 Webster Street Alameda, CA 94501	200		Irrigation	Unknown

**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)

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**CONFIDENTIAL**

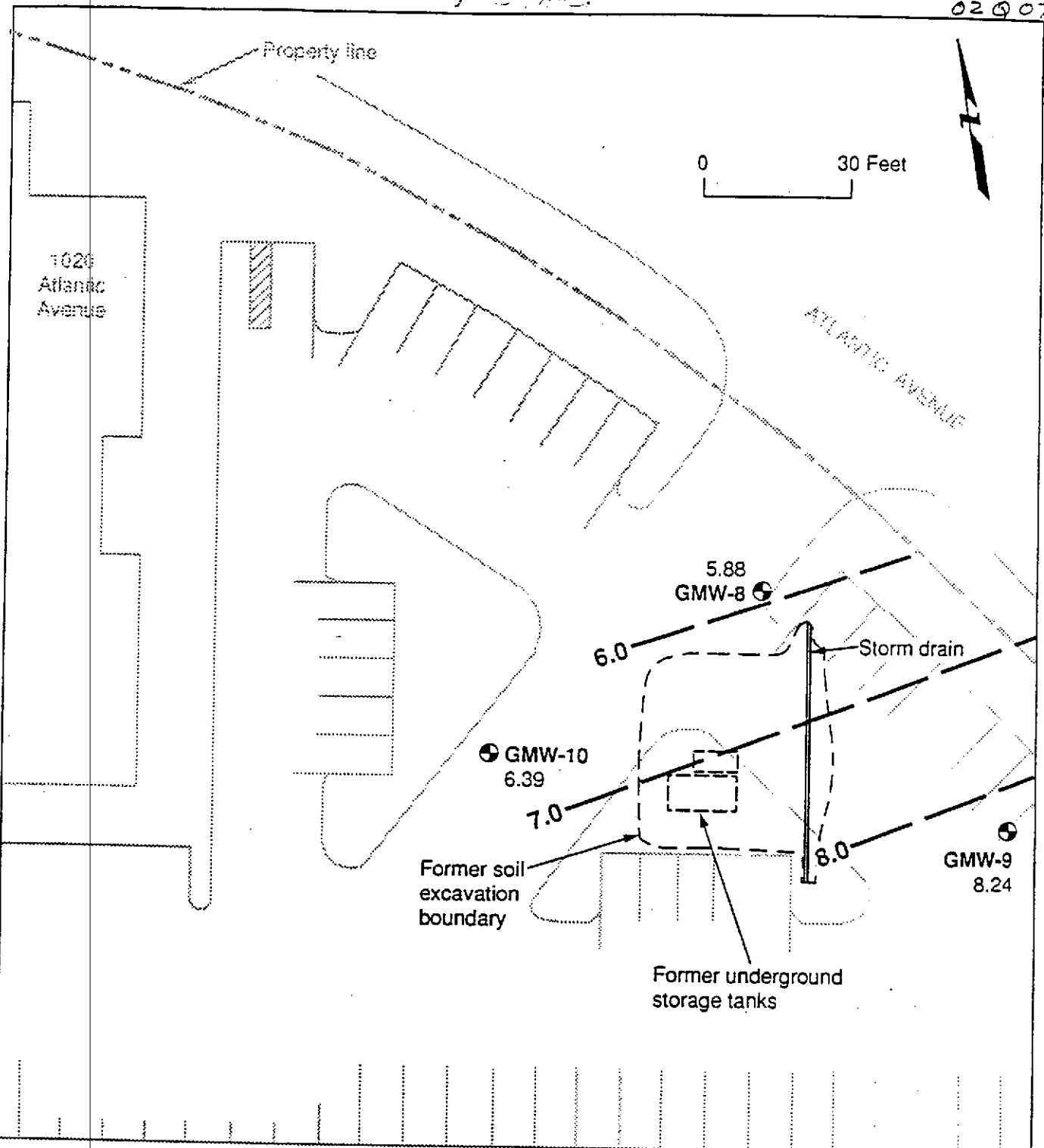
STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**



**EXPLANATION**

⊙ Groundwater monitoring well (installed by Geomatrix on 2/93) showing water-level elevation, in feet (City of Alameda datum)

6.0 ——— Line of equal water-level elevation, in feet

**Note**

Lines of equal water-level elevation are based on interpretation of available data and are not intended to imply certainty.



**MONITORING WELLS AND WATER-LEVEL ELEVATIONS**  
1020 Atlantic Avenue (Formerly 2051 Sherman Street Rigging International Building)  
Marina Village Development  
Alameda, California

Figure  
2  
Project No.  
1736.11

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

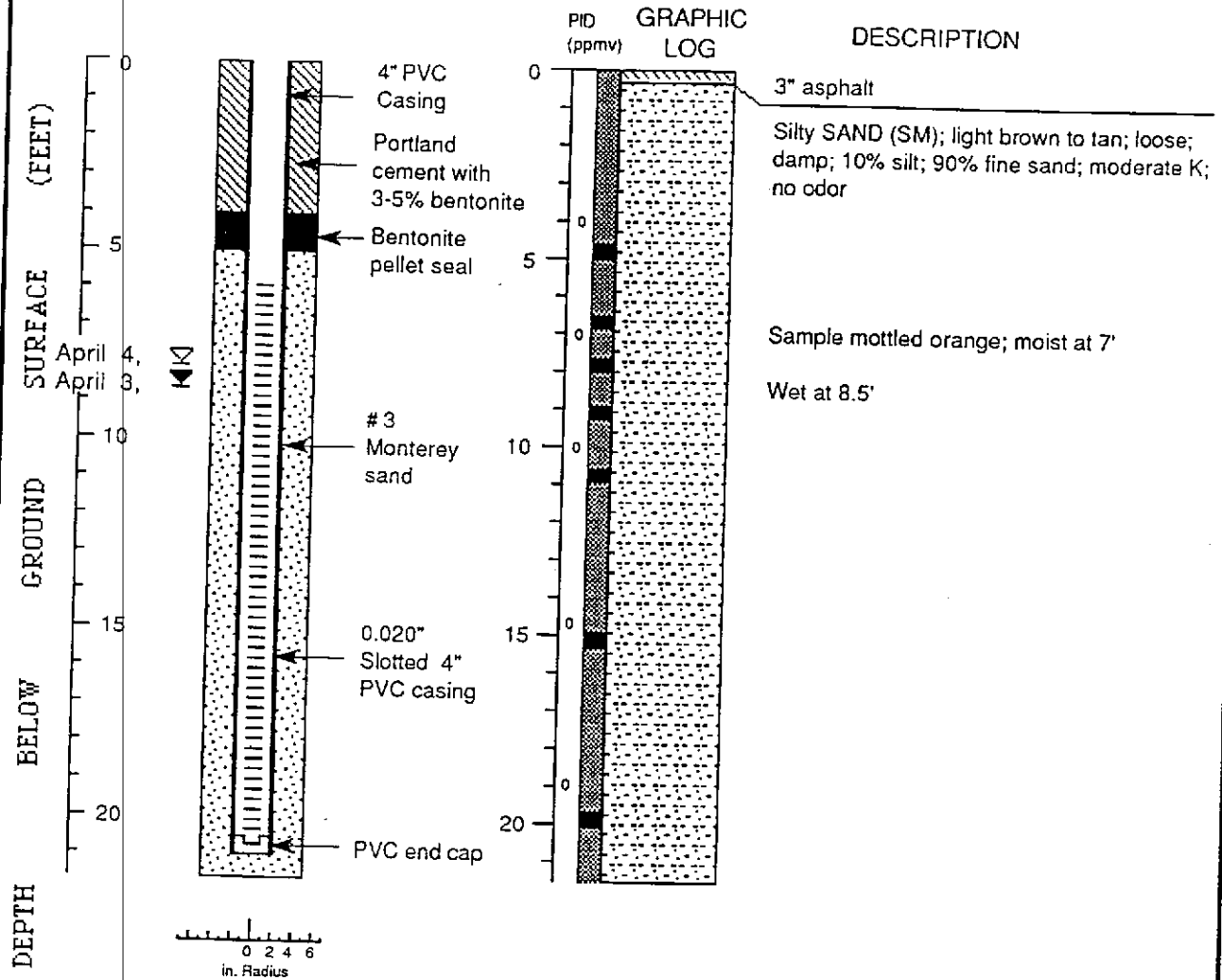
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25/4W 11F2

WEISS ASSOCIATES



### WELL MW-1 (BH-A)



Well Construction and Boring Log - Well MW-1 (BH-A)

Shell Service Station  
1601 Webster Street  
Alameda, California

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**



PROJECT: MARINA VILLAGE Alameda, California		Log of Well No. GMW-8	
BORING LOCATION: 1020 Atlantic Avenue		ELEVATION AND DATUM: ---	
DRILLING CONTRACTOR: Gregg Drilling		DATE STARTED: 2/2/93	DATE FINISHED: 2/2/93
DRILLING METHOD: Hollow stem auger (8 1/4" OD)		TOTAL DEPTH: 18.0'	SCREEN INTERVAL: 4' - 18'
DRILLING EQUIPMENT: Mobile Drill B-53		DEPTH TO WATER ATD: 5'	CASING: 2" diameter SCH 40 PVC
SAMPLING METHOD: 5-foot continuous dry core sampler		LOGGED BY: Jeff Nelson	
HAMMER WEIGHT: ---	DROP: ---	RESPONSIBLE PROFESSIONAL: D.A. Zemo	REG. NO. #4824

DEPTH (feet)	SAMPLES			OVM Reading	DESCRIPTION NAME (USCS Symbol): color, moist, % by wt., plast., density, structure, cementation, react. w/HCl, geo. inter.	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample	Blows/ Foot			
					Surface Elevation:	
1					Asphalt	Traffic rated Chnsty Box (G-5) Locking cap
2					GRAVELLY LEAN CLAY with SAND (CL) Dark brown (7.5YR 3/2), moist, 60% fines, 20% gravel, 20% sand, low plasticity, soft	Portland cement type I/II grout
3					POORLY GRADED SAND with GRAVEL (SP) Very dark grayish brown (10YR 3/2), moist, 80% sand, 15% gravel, 5% fines	Bentonite pellets
4						2-inch SCH 40 PVC blank casing
5					Wet	
6					POORLY GRADED SAND with CLAY (SP-SC) Olive gray (5Y 4/2), wet, 90% fine sand, 10% medium plasticity fines	Lonestar #0.30 filter sand
7					FAT CLAY (CH) Very dark gray (5Y 3/1), moist, 100% fines, high plasticity, stiff	2-inch SCH 40 PVC slotted well screen with 0.01-inch slot size
8						6-inch O.D. boring
9						
10						
11						
12						
13						
14					Black mottling observed	

02504W02Q05

PROJECT: MARINA VILLAGE  
Alameda, California

# Log of Well No. GMW-8 (cont'd.)

DEPTH (feet)	SAMPLES				OVM Reading	DESCRIPTION NAME (USCS Symbol): color, moist, % by wt., plast., density, structure, cementation, react. w/HCl geo. inter.	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample	Blows/ Foot	Foot			
15						FAT CLAY (CH) (continued) Peat moss and roots observed in clay, strong sulfur-like odor	<p>Lonestar #0/30 filter sand</p> <p>2-inch SCH 40 PVC slotted well screen with 0.01-inch slot size</p> <p>8-inch O.D. boring</p> <p>2-inch slip cap secured with stainless steel screws</p>
16							
17							
18						Bottom of boring at 18.0 feet	
19							
20							
21							
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25							
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29							
30							
31							

W-2 (11/92)

Geomatrix Consultants

Project No. 1736.11

Figure ---

Log of Well No. GMW-9

PROJECT: MARINA VILLAGE Alameda, California		ELEVATION AND DATUM: ---	
BORING LOCATION: 1020 Atlantic Avenue		DATE STARTED: 2/2/93	DATE FINISHED: 2/2/93
DRILLING CONTRACTOR: Gregg Drilling		TOTAL DEPTH: 20.0'	SCREEN INTERVAL: 5' - 20'
DRILLING METHOD: Hollow stem auger (8 1/4" OD)		DEPTH TO WATER ATD: 6'	CASING: 2" diameter SCH 40 PVC
DRILLING EQUIPMENT: Mobile Drill B-53		LOGGED BY: Jeff Nelson	
SAMPLING METHOD: 5-foot continuous dry core sampler		RESPONSIBLE PROFESSIONAL: D.A. Zemo	REG. NO. #4824
HAMMER WEIGHT: ---	DROP: ---		

DEPTH (feet)	SAMPLES				OVM Reading	DESCRIPTION NAME (USCS Symbol): color, moist, % by wt., plast., density, structure, cementation, react, w/HCl, geo. inter.	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample	Blows/Foot	Foot			
						Surface Elevation:	
0						Asphalt	
1						GRAVELLY LEAN CLAY with SAND (CL) Dark brown (7.5YR 3/2), moist, 55% fines, 25% gravel, 20% sand, low plasticity, soft	Traffic rated Chnsty Box (G-5) Locking cap
2						GRAVELLY LEAN CLAY (CL) Black (7.5YR 2/0), moist, 65% clay, 35% coarse gravel, low plasticity, some roots	Portland cement type fill grout
3						POORLY GRADED SAND (SP), dark gray, (5Y 5/1), moist, 95% medium sand, 5% fines	2-inch SCH 40 PVC blank casing
4							Bentonite pellets
5							
6						Wet	
7						FAT CLAY (CH) Dark gray (5Y 5/1), 100% fines, moist, high plasticity, stiff	Lonestar #0/30 filter sand
8							2-inch SCH 40 PVC slotted well screen with 0.01-inch slot size
9							
10							8-inch O.D. boring
11							
12							
13							
14						Black mottling observed	

W-1 (11/92)

Geomatrix Consultants

Project No. 1736.11

Figure ---

PROJECT: MARINA VILLAGE  
Alameda, California

# Log of Well No. GMW-9 (cont'd.)

DEPTH (feet)	SAMPLES				OVM Reading	DESCRIPTION NAME (USCS Symbol); color, moist, % by wt., plast., density, structure, cementation, react. w/HCl, geo. inter.	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample	Blows/ Foot	Foot			
15						FAT CLAY (CH) (continued)  Peat moss in clay at 15 feet	<p>Lonestar #0/30 filter sand</p> <p>2-inch SCH 40 PVC slotted well screen with 0.01-inch slot size</p> <p>8-inch O.D. boring</p> <p>2-inch slip cap secured with stainless steel screws</p>
16							
17							
18							
19							
20						Bottom of boring at 20.0 feet	
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							

W-2 (11/92)

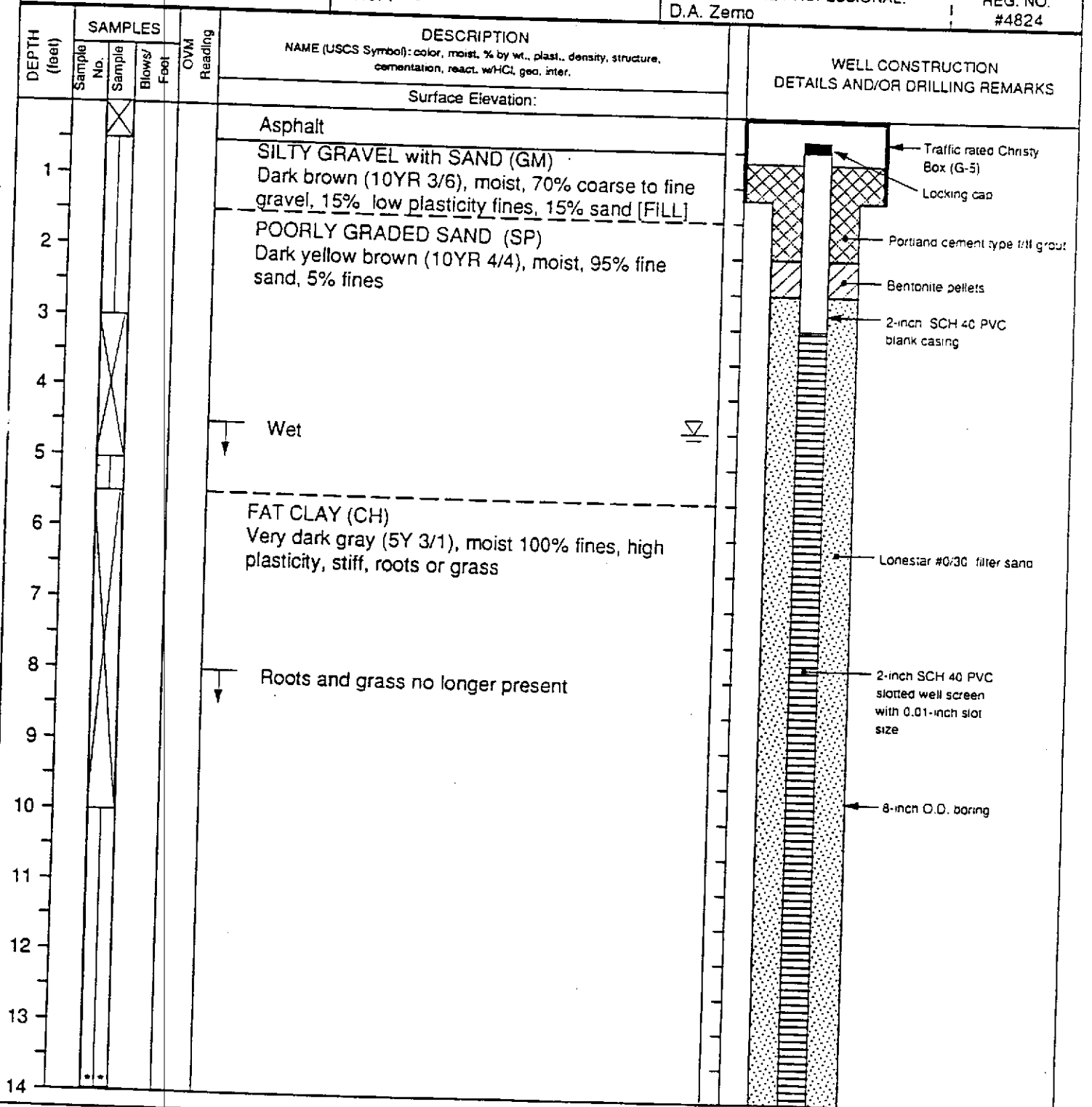
Geomatrix Consultants

Project No. 1736.11

Figure ...

02504W02007

PROJECT: MARINA VILLAGE Alameda, California		Log of Well No. GMW-10	
BORING LOCATION: 1020 Atlantic Avenue		ELEVATION AND DATUM: ---	
DRILLING CONTRACTOR: Gregg Drilling		DATE STARTED: 2/3/93	DATE FINISHED: 2/3/93
DRILLING METHOD: Hollow stem auger (8 1/4" OD)		TOTAL DEPTH: 15.0'	SCREEN INTERVAL: 3' - 15'
DRILLING EQUIPMENT: Mobile Drill B-53		DEPTH TO WATER ATD: 4.5'	CASING: 2" diameter SCH 40 PVC
SAMPLING METHOD: 5-foot continuous dry core sampler		LOGGED BY: Jeff Nelson	
HAMMER WEIGHT: ---	DROP: ---	RESPONSIBLE PROFESSIONAL: D.A. Zerno	REG. NO. #4824



Geomatrix Consultants

Project No. 1736.11

Figure ...

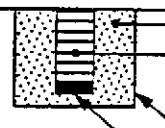
W-1 (11-92)

2081532

02504W02007

PROJECT: MARINA VILLAGE  
Alameda, California

# Log of Well No. GMW-10 (cont'd.)

DEPTH (feet)	SAMPLES				OVM Reading	DESCRIPTION NAME (USCS Symbol): color, moist, % by wt., plast., density, structure, cementation, react. w/HCl, geo, inter.	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Sample	Blows/ Foot	Foot			
15						FAT CLAY (CH) (continued)	 <ul style="list-style-type: none"> <li>Lonestar #0/30 filter sand</li> <li>2-inch SCH 40 PVC well screen with 0.01-inch slot</li> <li>8-inch O.D. boring</li> <li>2-inch diameter slip cap secured with stainless steel screws</li> </ul>
16					Bottom of boring at 15.0 feet		
17							
18							
19							
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21							
22							
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28							
29							
30							
31							

W-2 (11/92)

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**



# Drilling Log



GROUNDWATER  
TECHNOLOGY

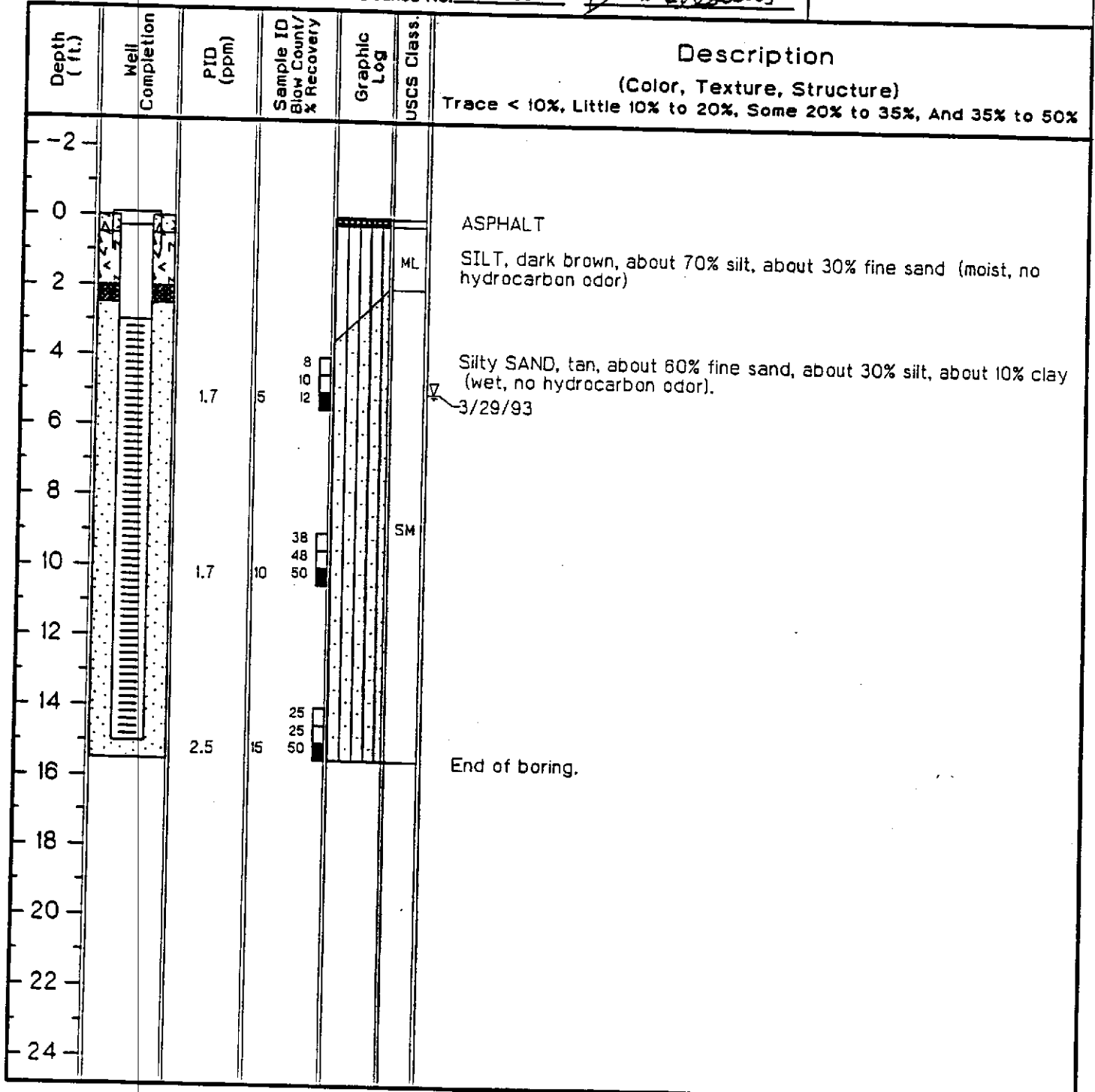
Monitoring Well B-7

Project CHV/1802 Webster St. Owner Chevron  
 Location Alameda, CA Project No. 020202976 Date drilled 3/29/93  
 Surface Elev. N/A ft. Total Hole Depth 15.5 ft. Diameter 8 in.  
 Top of Casing N/A ft. Water Level Initial 5 ft. Static N/A ft.  
 Screen: Dia 2 in. Length 12 ft. Type/Size 0.020 in.  
 Casing: Dia 2 in. Length 3 ft. Type PVC SCH 40  
 Filter Pack Material #3 sand Rig/Core Type B-61/Mod. Cal. Split Spoon  
 Drilling Company Kvilhaug Drilling Method Hollow Stem Auger Permit # \_\_\_\_\_  
 Driller Rod Furlow Log By S.C. Hurley  
 Checked By David Kleesattel License No. RG# 5136 *David Kleesattel*

See Site Map  
For Boring Location

COMMENTS:

The well was set at approximately 15 feet below grade. The decon water and the soil cuttings were placed in labeled 55-gallon drums. The drums were left on site until they could be analyzed and disposed of properly.





**GROUNDWATER  
TECHNOLOGY**

# Drilling Log

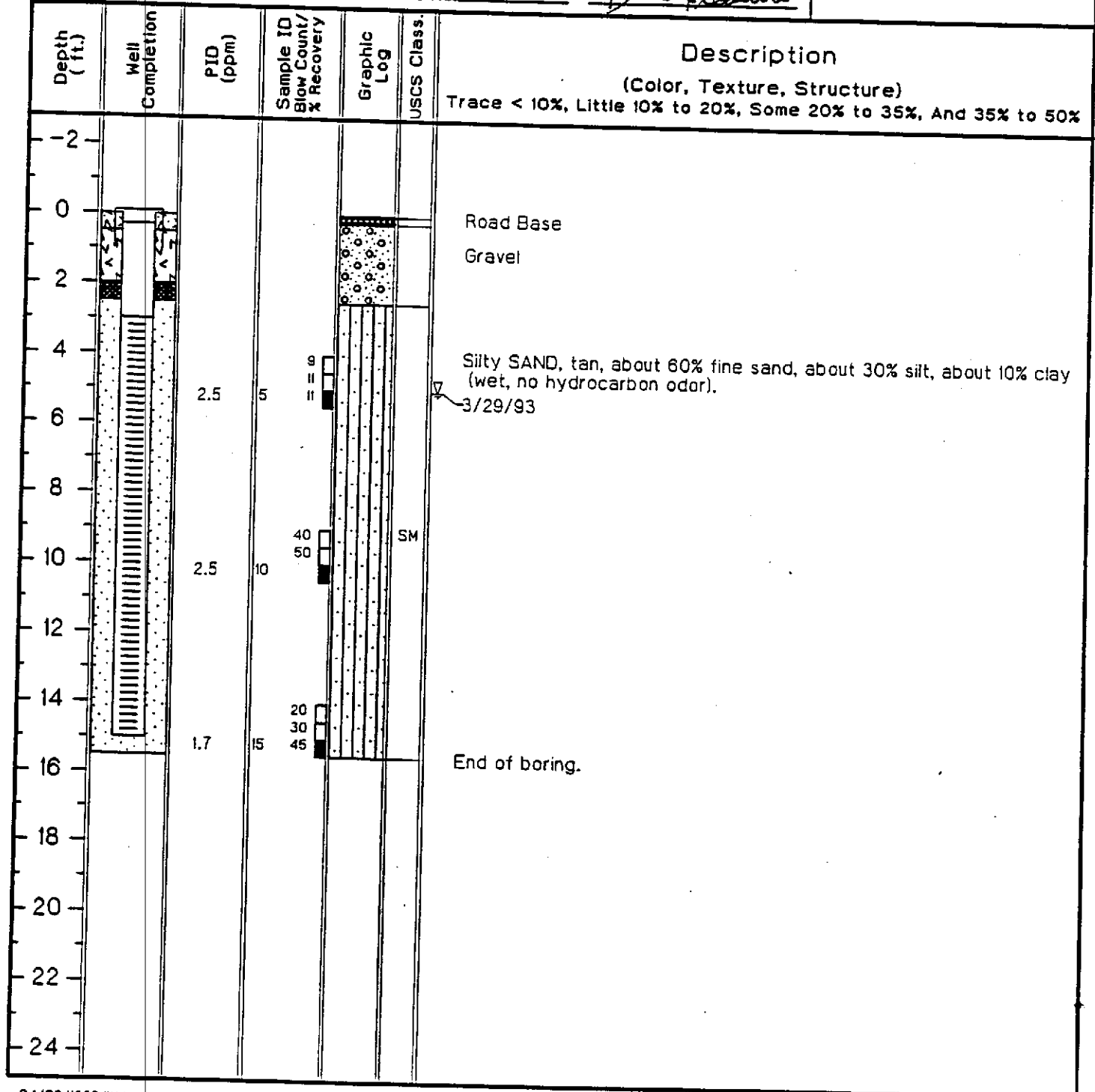
02504W11C17

Monitoring Well **B-8**

Project CHV/1802 Webster St. Owner Chevron  
 Location Alameda, CA Project No. 020202976 Date drilled 3/29/93  
 Surface Elev. N/A ft. Total Hole Depth 15.5 ft. Diameter 8 in.  
 Top of Casing N/A ft. Water Level Initial 5 ft. Static N/A ft.  
 Screen: Dia 2 in. Length 12 ft. Type/Size 0.020 in.  
 Casing: Dia 2 in. Length 3 ft. Type PVC SCH 40  
 Filter Pack Material #3 sand Rig/Core Type B-61/Mod. Cal. Split Spoon  
 Drilling Company Kvilhaug Drilling Method Hollow Stem Auger Permit # \_\_\_\_\_  
 Driller Rod Furlow Log By S.C. Hurley  
 Checked By David Kleesattel License No. RG# 5136 *David Kleesattel*

See Site Map  
For Boring Location

COMMENTS:  
  
 The well was set at approximately 15 feet below grade. The decon water and the soil cuttings were placed in labeled 55-gallon drums. The drums were left on site until they could be analyzed and disposed of properly.





**GROUNDWATER TECHNOLOGY**

**Drilling Log**

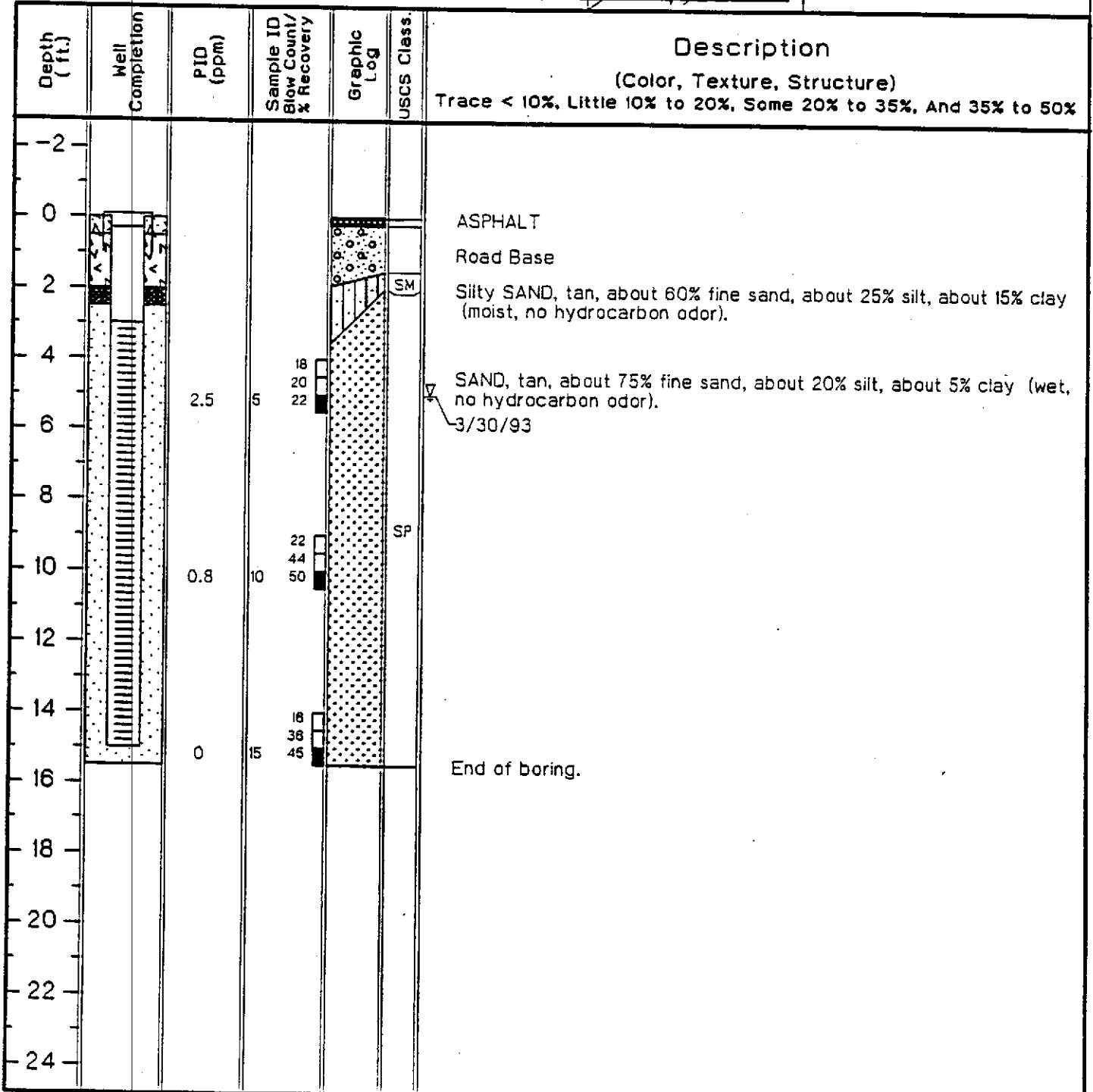
**Monitoring Well B-9**

Project CHV/1802 Webster St. Owner Chevron  
 Location Alameda, CA Project No. 020202976 Date drilled 3/30/93  
 Surface Elev. N/A ft. Total Hole Depth 15.5 ft. Diameter 8 in.  
 Top of Casing N/A ft. Water Level Initial 5 ft. Static N/A ft.  
 Screen: Dia 2 in. Length 12 ft. Type/Size 0.020 in.  
 Casing: Dia 2 in. Length 3 ft. Type PVC SCH 40  
 Filter Pack Material #3 sand Rig/Core Type B-61/Mod. Cal. Split Spoon  
 Drilling Company Kvilhaug Drilling Method Hollow Stem Auger Permit # \_\_\_\_\_  
 Driller Rod Furlow Log By S.C. Hurley  
 Checked By David Kleesattel License No. RG# 5136 *David Kleesattel*

See Site Map  
For Boring Location

**COMMENTS:**

The well was set at approximately 15 feet below grade. The decon water and the soil cuttings were placed in labeled 55-gallon drums. The drums were left on site until they could be analyzed and disposed of properly.



**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

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WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**CONFIDENTIAL**

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WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

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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)

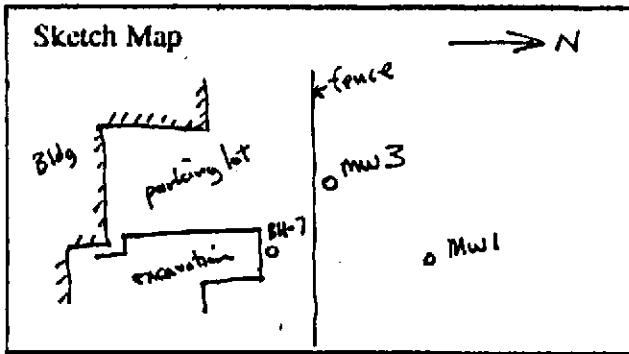
**REMOVED**

404206

DRILLING LOG

Job Number 7703.022

Project ALAMEDA HOUSING / HACA  
 Location WEBSTER & ATLANTIC, ALAMEDA, CA  
 Borehole Number MW3  
 Date Drilled 7-12-91  
 Contractor WOODWARD DRLG. CO.  
 Drilling Method HOLLOW STEM AUGER  
 Driller WAYNE WOODWARD  
 Hole Diameter 8"  
 Log By JAMES G. JENSEN  
 Total Depth 15 1/2'



Depth (ft)	Advanced/Recovered	Blow Counts per Six Inches	Water Table	Well Construction	Sample Description (Soil or Rock Type, Color, Grain Size, Sorting, Roundness, Plasticity, Moisture Content, Trace Materials, Odor, Staining, Trace Gas Readings)	OVA Read (heads per ppm)
					sample surface - asphalt ↓ MW3-2 gravel to 2 feet clay - "bay mud"	5
5'		1-3-5			MW3-4 clay - dark gray to black, moist, moderate odor sand - gray, medium grained, clayey, wet, no odor water table by samples	39
		4-4-3	4.47		broke through something right @ 6 feet (by driller) MW3-6 sand - gray, med. grained, moderately sorted, clayey, moist - wet, no odor	1.6
		4-8-12			MW3-8 sand - orange-brown to gray, med. grained, mod. sorted, clayey, less wet, plant material (roots), no odor	0
10'		17-21-27			MW3-10 sand - orange-brown, med. grained, mod. sorted, moist, no odor	1.2
		12-24-33			MW3-12 sand - orange-brown, med. grained, mod. sorted, wet, no odor	1.0
15'		10-16-25			MW3-14 sand - orange-brown, med. grained, mod. sorted, wet, no odor	0.8
Total Depth: 15 1/2 feet, reached @ 9:45 AM, 7-12-91						
Water Table: 4.47 feet, measured @ 12:20 PM, 7-12-91						
James G. Jensen						

**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**

2574-11-1

541 Webster  
Alameda

Job # 570. F. Takashima.

Log of Well.

Black soil		4 feet
Small Gravel & Clay	4 to	15 "
Water sand & gravel	15 "	16 "
Clay & rotten Sand Rock	16 "	30 "
Cement Gravel	30 "	36 "
Clay & Gravel	36 "	42 "
Cement Gravel	42 "	56 "
Clay	56 "	64 "
Cement Gravel	64 "	94 "
Yellow sandy clay	94 "	108 "
Sand	108 "	122 "
Gravel	122 "	125 "
Clay	125 "	132 "
Sand	132 "	135 "
Clay	135 "	142 "
Sand	142 "	150 "
Sandy clay	150 "	160 "
Sand	160 "	164 "
Gravel	164 "	173 "
Yellow Clay	173 "	176 "
Sandy Clay	176 "	180 "
Water Sand	180 "	187 "
Gravel	187 "	191 "
Clay	191 "	194 "
Sand	194 "	196 "
Gravel	196 "	200 "

200' of 8" No. 16 Collar Casing  
50' of Perforations .  
To water 80'

0600100022