



STIP 936

**CET Environmental Services, Inc.**

5845 Doyle Street, Suite 104  
Emeryville, California 94608  
Telephone: (510) 652-7001  
Fax: (510) 652-7002

March 26, 1996

Mr. Bob Reagan  
Two Jack London Square  
Oakland, CA 94623

**Subject: Well Abandonment at KTVU, Inc.  
Two Jack London Square  
Oakland, California  
(CET Project No. 3668-001)**

Dear Mr. Reagan:

CET Environmental Services, Inc. (CET) is pleased to report that the destruction of three monitoring wells (MW1, MW2, and MW3) on the KTVU property located at Two Jack London Square, Oakland, California, was completed on March 20, 1996. The subject property is currently occupied by the KTVU television station. The work was performed in accordance with the Alameda County Health Care Services Agency (ACHCSA) site closure requirements as summarized in their January 8, 1996 letter (copy enclosed). It is now appropriate to expect the ACHCSA to issue a closure letter for the subject site as noted in their aforementioned letter.

The well destructions conformed with the requirements of the Zone 7 - Alameda County Flood Control & Water Conservation District (Zone 7). A well destruction permit was issued for the well abandonments by Zone 7 (copy enclosed). HEW Drilling Company, Inc. (California C-57 Driller License No. 604987) was retained to perform the destructions under the supervision of a CET representative.

CET has also completed the California Department of Water Resource's (DWR) 188 forms which document the destruction of each well according to California Water Code Sections 13750 through 13755. These forms (copies enclosed) have been sent to the DWR.

ENVIRONMENTAL PROTECTION  
96 MAR 28 PM 2:45

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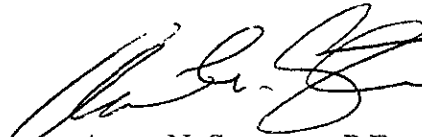
Please do not hesitate to call the undersigned, at (510) 652-7001, if you have any questions or comments regarding the contents of this letter.

Sincerely,

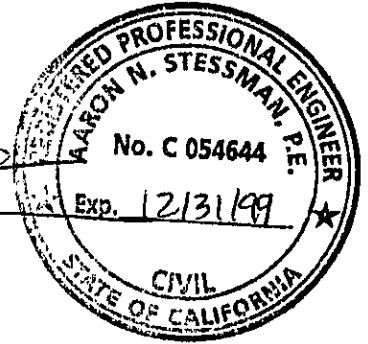
**CET ENVIRONMENTAL SERVICES, INC.**



Benjamin Berman  
Staff Scientist



Aaron N. Stessman, P.E.  
Project Manager



BB: bb

Enclosures

cc: Ms. Susan Hugo, ACHCSA

Mr. Wyman Hong, Alameda County - Zone 7

California Department of Water Resources, Central District, attn. Water Well Section (with original completed DWR 188 forms)

ALAMEDA COUNTY  
HEALTH CARE SERVICES



AGENCY

DAVID J. KEARS, Agency Director

ARNOLD PERKINS, DIRECTOR

Alameda County CC458  
Environmental Protection Division  
1131 Harbor Bay Parkway Room 250

January 8, 1996  
STID # 930

Mr. Bob Reagan  
KTVU  
2 Jack London Square  
Oakland, California 94623

Post-it® brand fax transmittal memo 7671		# of pages > 1
To BENJAMIN BURLMAN	From SUSAN HUGO	
Co. CET	Co. ACDEH	
Dept.	Phone #	
Fax # (510) 562-7002	Fax # (510) 337-9335	

RE: Case Closure - KTVU Television  
2 Jack London Square, Oakland, CA 94623

Dear Mr. Reagan:

The Alameda County Department of Environmental Health, Environmental Protection Division has recently received concurrence from the Regional Water Quality Control Board regarding this office determination that no further action is required concerning the removal of two underground storage tanks ( 4,000 gallon diesel and 10,000 gallon gasoline ) at the referenced site.

Please be advised that the three groundwater monitoring wells (MW-1, MW-2, and MW-3) at the site must be properly decommissioned before our agency will issue the Remedial Action Completion Certification (closure letter) for the subject site. A report must be submitted documenting the abandonment of the monitoring wells.

Additionally, you will need to notify this office 72 hours in advance of the well abandonment field activities.

If you have any questions concerning this letter, please contact me at (510) 567- 6780.

Sincerely,

*Susan L. Hugo*

Susan L. Hugo  
Senior Hazardous Materials Specialist

c: Jun Makishima, Interim Director, Environmental Health  
Gordon Coleman, Acting Chief, Environmental Protection / files  
Kevin Graves, San Francisco Bay RWQCB



# ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 462-2500

FAX (510) 462-3814

## DRILLING PERMIT APPLICATION

**FOR APPLICANT TO COMPLETE**

**FOR OFFICE USE**

LOCATION OF PROJECT KTVU  
2 Jack London Square  
Oakland, California

PERMIT NUMBER 96209  
 LOCATION NUMBER IS/4W 35N80 to 35N82

**CLIENT**

Name KTVU Inc  
 Address 2 Jack London Sq, Voice  
 City Oakland Zip \_\_\_\_\_

**PERMIT CONDITIONS**

Circled Permit Requirements Apply

**APPLICANT**

Name C.E.T. Environmental Services  
 Address 5845 Doyle Rd, Voice  
 City Emeryville Zip 94608

**A. GENERAL**

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 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.

**TYPE OF PROJECT**

Well Construction  
 Cathodic Protection \_\_\_\_\_  
 Water Supply \_\_\_\_\_  
 Monitoring \_\_\_\_\_  
 Geotechnical Investigation  
 General \_\_\_\_\_  
 Contamination \_\_\_\_\_  
 Well Destruction   
PRESSURE GAUGET

**B. WATER WELLS, INCLUDING PIEZOMETERS**

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 lower depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

**PROPOSED WATER SUPPLY WELL USE**

Domestic \_\_\_\_\_ Industrial \_\_\_\_\_ Other \_\_\_\_\_  
 Municipal \_\_\_\_\_ Irrigation \_\_\_\_\_

**C. GEOTECHNICAL.** Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremie cement grout shall be used in place of compacted cuttings.

**DRILLING METHOD:**

Mud Rotary \_\_\_\_\_ Air Rotary \_\_\_\_\_ Auger \_\_\_\_\_  
 Cable \_\_\_\_\_ Other \_\_\_\_\_

**D. CATHODIC.** Fill hole above anode zone with concrete placed by tremie.

DRILLER'S LICENSE NO. C57-604987

HEW Drilling

**WELL PROJECTS**

Drill Hole Diameter	<u>8</u> in.	Maximum	
Casing Diameter	<u>2</u> in.	Depth	<u>15</u> ft.
Surface Seal Depth	<u>4</u> ft.	Number	<u>3</u>

**E. WELL DESTRUCTION.** See attached.

**GEOTECHNICAL PROJECTS**

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

ESTIMATED STARTING DATE 3-20-96  
 ESTIMATED COMPLETION DATE 3-20-96

Approved Wyman Hong Date 19 Mar 96  
 Wyman Hong

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

APPLICANT'S SIGNATURE B. B. Date 3-14-96

19 March 1996

ZONE 7  
WATER RESOURCES ENGINEERING  
GROUNDWATER PROTECTION ORDINANCE

KTVU  
2 JACK LONDON SQUARE  
OAKLAND  
WELLS 1S/4W 35N80 TO 35N82  
PERMIT 96209

*Wyman Hong*  
*20 Mar 96*

Destruction Requirements:

1. Clean out all bridged or poorly compacted materials to the bottom of the well.
2. Pressure grout the <sup>ENTIRE</sup> casing to ~~2 feet below finished grade or original ground, whichever is the lower elevation.~~
3. ~~Remove casing seal and gravel pack to 2 feet below finished grade or original ground, whichever is the lower elevation.~~
4. After the seal has set, backfill the remaining hole with compacted material.

These destruction requirements as proposed by Benjamin Berman of CET Environmental Services meet or exceed Zone 7 minimum requirements.

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

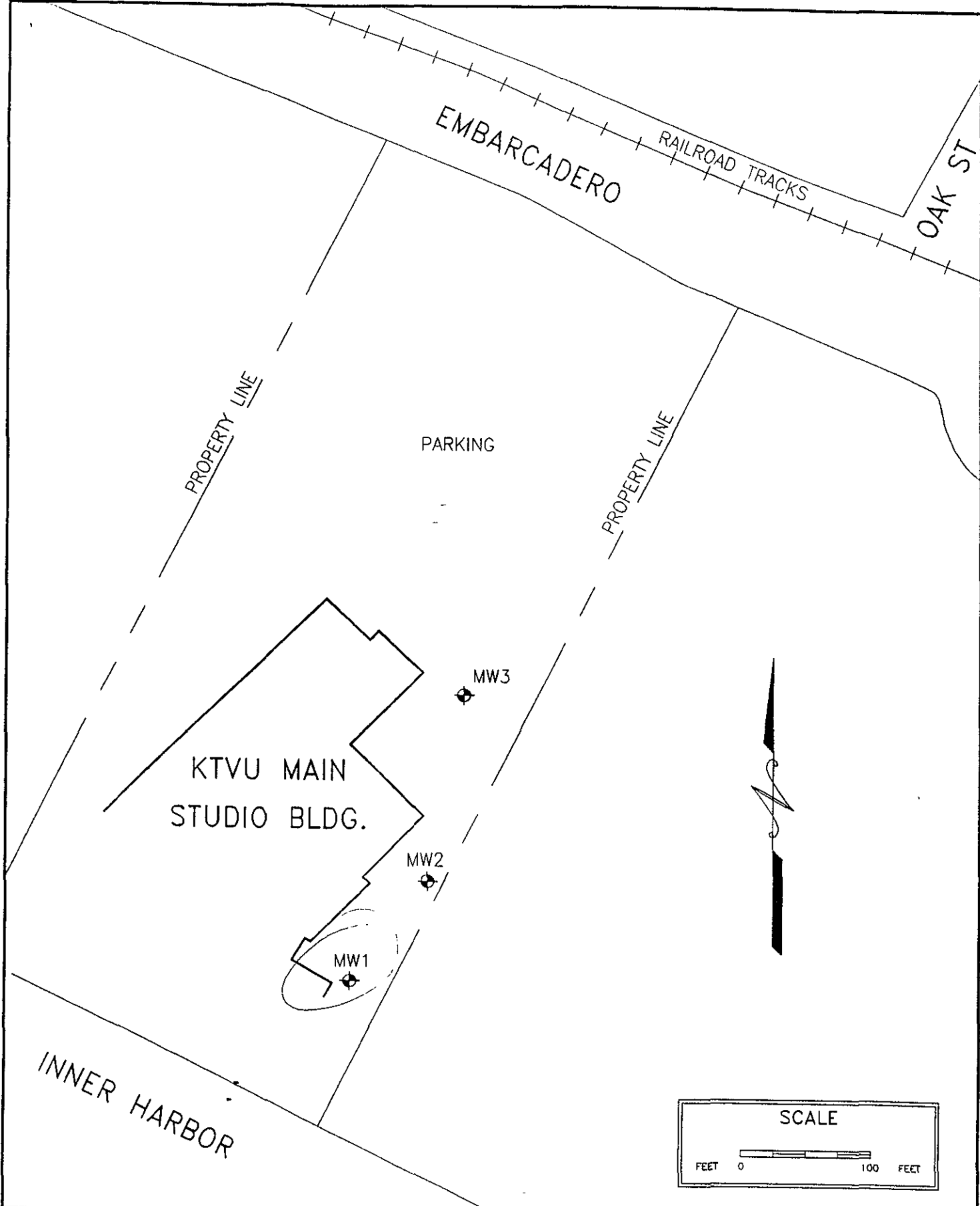
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Project: KTVU Inc.	Applied Environmental Solutions	Page: 1 of 2
Location: Oakland, CA	Well Construction Data:	Well Number: MW-1
Driller: HEW Drilling Company, Inc.	Grout: 0.5 ft to 3 ft	Date: November 30, 1993
Method: Hollow Stem Auger	Seal Plug: 3 ft to 4 ft	Logged By: Mark L. Wuest
Sampling Method: Split Spoon	Sand Pack: 4 ft to 15 ft	Weather: Clear
Casing Type: PVC	Screen: 5 ft to 15 ft	Boring Dia: 8 Inch
Casing Dia.: 2 Inch	Grout Type: Portland I/II	Boring Depth: 15 Feet
Screen Type: PVC	Seal Type: Bentonite	Completion Depth: 15 Feet
Screen Slot: 0.010 Inch	Sand Type: #2-16	Depth to Groundwater: Approx. 5 Feet

Lithology	S A M P #	D E P T H	Well Completion	B L O W S	M O I S T	Remarks
Asphalt w/ grading material		0				Backfill pea gravel was not sampled
Gravel, well sorted, 1/4 inch, light grey, backfill for diesel tank pit		1	G R O U T		D R Y	
		2				
		3	S E A L			
		4	S A N D			
		5			S A T U R A T E D	
		6				
		7				
		8				
		9				
		10				
	11					

Project: KTVU Inc.	Applied Environmental Solutions		Page: 2 of 2			
Location: Oakland, CA	Logged By: Mark L. Wuest		Well Number: MW-1			
Driller: HEW Drilling Company, Inc.	Weather: Clear		Date: November 30, 1993			
Lithology	S A M P #	D E P T H	Well Completion	B L O W S	H O I S T	Remarks
Gravel, well sorted, 1/4 inch, light grey, backfill for diesel tank pit	A B C	12	S A N D		V E R Y H O I S T	
		13				
Clay, grey		14		3		1
Boring terminated at 15 feet bsg		15		1		
		16				
		17				
		18				
		19				
		20				
		21				
		22				
		23				
		24				
		25				
		26				





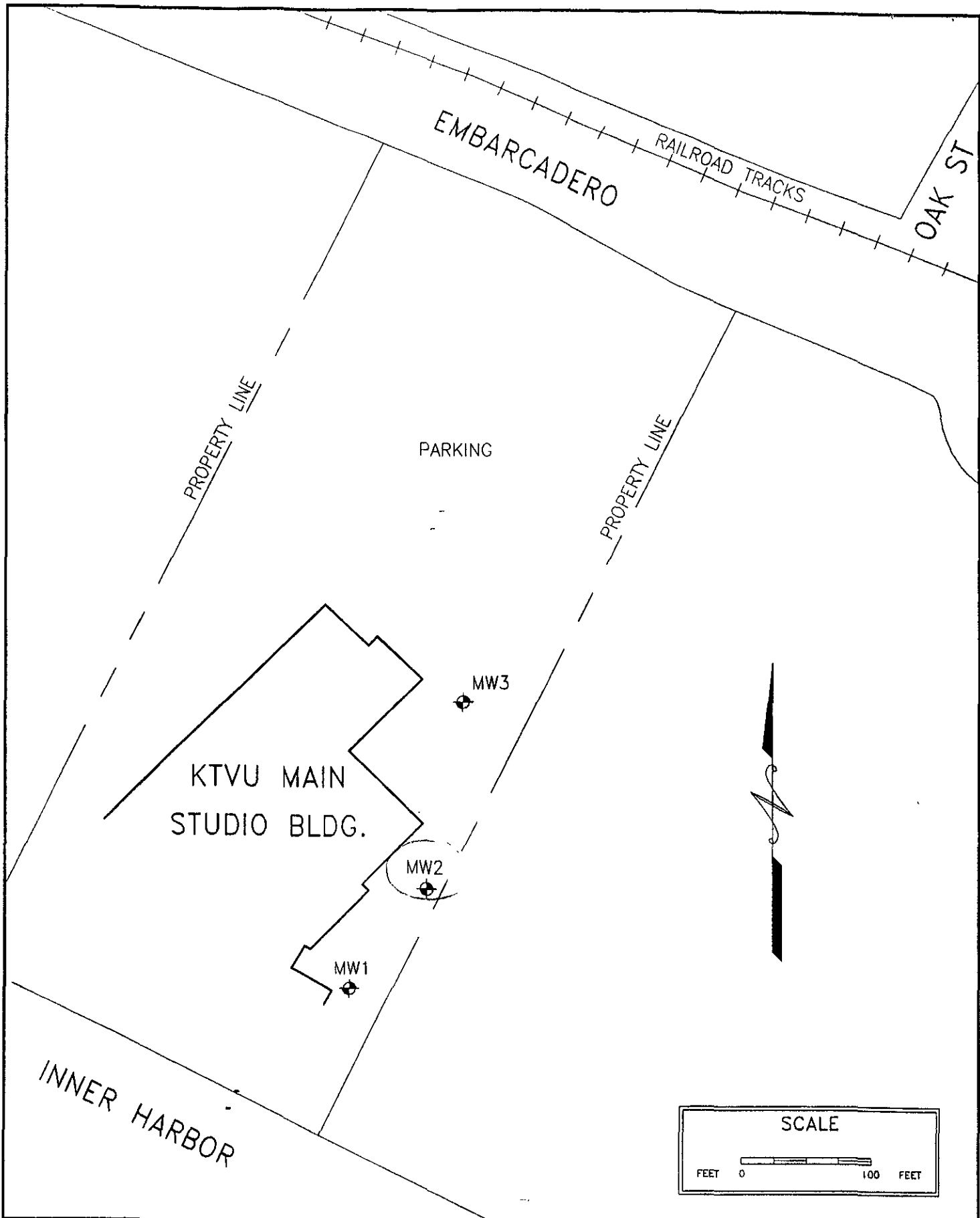
	<b>CET Environmental Services, Inc.</b>	<b>SITE PLAN</b> KTVU, INC. 2 JACK LONDON SQUARE OAKLAND, CALIFORNIA				PLATE 2
		JOB NUMBER 3668	DATE 03/95	DRAWING 3668PLAN	BY RASCHKE	REVISED 03/21

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)


**REMOVED**

Project: KTVU Inc.	Applied Environmental Solutions		Page: 1 of 2			
Location: Oakland, CA	Well Construction Data:		Well Number: MW-2			
Driller: HEW Drilling Company, Inc.	Grout: 0.5 ft to 3 ft	Date: November 30, 1993				
Method: Hollow Stem Auger	Seal Plug: 3 ft to 4 ft	Logged By: Mark L. Wuest				
Sampling Method: Split Spoon	Sand Pack: 4 ft to 15 ft	Weather: Clear				
Casing Type: PVC	Screen: 5 ft to 15 ft	Boring Dia: 8 Inch				
Casing Dia.: 2 Inch	Grout Type: Portland I/II	Boring Depth: 15 Feet				
Screen Type: PVC	Seal Type: Bentonite	Completion Depth: 15 Feet				
Screen Slot: 0.010 Inch	Sand Type: #2-16	Depth to Groundwater: Approx. 4 Feet				
Lithology	S A M P #	D E P T H	Well Completion	B L O W S	M O I S T	Remarks
Asphalt w/grading material		0				
Silt w/gravel, dark brown		1	G R O U T		M O I S T	
Clay w/fine sand, grey		2				
		3				
	C	4		2		
Sand w/clay, medium grained, grey	B	5	S A N D	2	S A T U R A T E D	Sample SB-2-5 disturbed, too wet
	A	6				
		7				
		8				
	C	9		0		
	B	10		0	V E R Y	
Clay, grey	A	11	S A N D	0	M O I S T	



CET Environmental Services, Inc.

SITE PLAN KTVU, INC. 2 JACK LONDON SQUARE OAKLAND, CALIFORNIA					PLATE  2
JOB NUMBER 3668	DATE 03/95	DRAWING 3668PLAN	BY RASCHKE	REVISED 03/21	

Project: KTVU Inc.		Applied Environmental Solutions		Page: 2 of 2		
Location: Oakland, CA		Logged By: Mark L. Wuest		Well Number: MW-2		
Driller: HEW Drilling Company, Inc.		Weather: Clear		Date: November 30, 1993		
Lithology	S A M P #	D E P T H	Well Completion	B L O W S	M O I S T	Remarks
Clay, grey	A B C	12			V E R Y  M O I S T	
		13				
		14				
		15				
Boring terminated at 15 feet bsg		16				
		17				
		18				
		19				
		20				
		21				
		22				
		23				
		24				
		25				
		26				

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

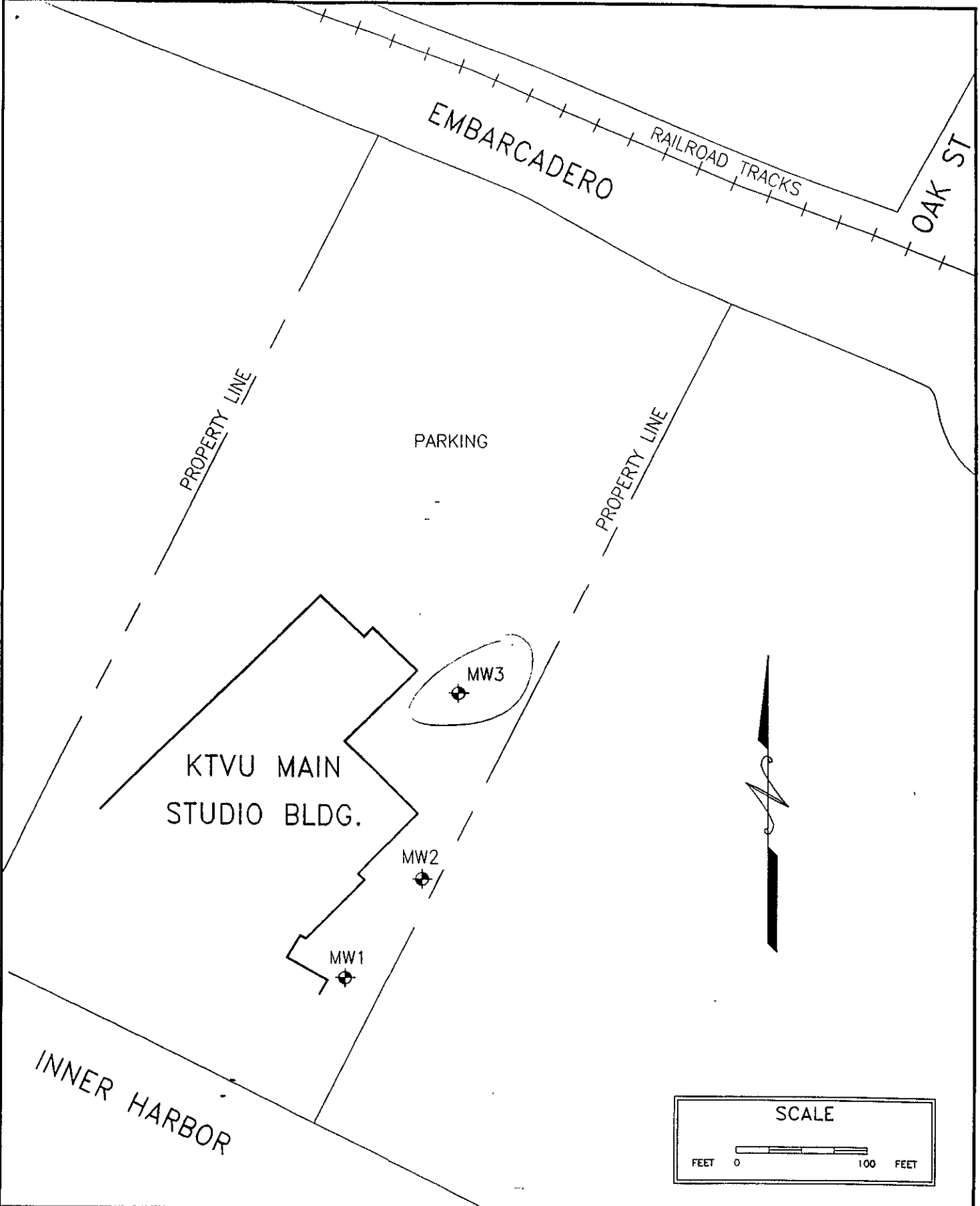
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Project: KTVU Inc.	Applied Environmental Solutions	Page: 1 of 2
Location: Oakland, CA	Well Construction Data:	Well Number: MW-3
Driller: HEW Drilling Company, Inc.	Grout: 0.5 ft to 3 ft	Date: November 30, 1993
Method: Hollow Stem Auger	Seal Plug: 3 ft to 4 ft	Logged By: Mark L. Wuest
Sampling Method: Split Spoon	Sand Pack: 4 ft to 15 ft	Weather: Clear
Casing Type: PVC	Screen: 5 ft to 15 ft	Boring Dia: 8 Inch
Casing Dia.: 2 Inch	Grout Type: Portland I/II	Boring Depth: 15 Feet
Screen Type: PVC	Seal Type: Bentonite	Completion Depth: 15 Feet
Screen Slot: 0.010 Inch	Sand Type: #2-16	Depth to Groundwater: Approx. 5 Feet

Lithology	S A M P #	D E P T H	Well Completion	B L O W S	H O I S T	Remarks
Asphalt w/grading		0				
Silt w/gravel, dark brown		1				
		2				
		3				
Sand, medium to coarse grained, yellow	C	4	SEAL	2	H O I S T	
Clay, grey	B	5		3		
	A	6	SAND	1		
Sand, medium grained, well sorted, light grey		7				
		8				
		9				
Clay, grey	C	10		0	S A T U R A T E D	
	B	11		0		
	A			2		

Project: KTVU Inc.	Applied Environmental Solutions		Page: 2 of 2					
Location: Oakland, CA	Logged By: Mark L. Wuest		Well Number: MW-3					
Driller: HEW Drilling Company, Inc.	Weather: Clear		Date: November 30, 1993					
Lithology	S A M P #	D E P T H	Well Completion	B L O W S	M O I S T	Remarks		
Clay, grey		12			V E R Y M O I S T			
		13						
	A	14				0		
	B	15				0		
	C	15				1		
Boring terminated at 15 feet bsg		16						
		17						
		18						
		19						
		20						
		21						
		22						
		23						
		24						
		25						
		26						





	<b>CET Environmental Services, Inc.</b>	<b>SITE PLAN</b> KTVU, INC. 2 JACK LONDON SQUARE OAKLAND, CALIFORNIA				PLATE  2
		JOB NUMBER 3668	DATE 03/95	DRAWING 3668PLAN	BY RASCHKE	