

CALIFORNIA RECIONAL WATER

10 1586

QUALITY CONTROL BOARD

July 2, 1986

PROJECT REPORT

FUEL TANK MONITORING WELL INSTALLATION

For The

City of Alameda Room 204 Santa Clara and Oak Streets Alameda, California 94501

> Submitted By

Aqua Science Engineers P.O. Box 535 San Ramon, California 94583

BACKGROUND

The passage of Assembly Bill 1362 has required that every owner/operator of underground tanks used for the storage of hazardous substances including fuels provide a means of monitoring their tanks against leaks or spills. The deadline for compliance was January 1, 1985. However, extensions have been granted. The bill stipulated that administration was to be conducted at the local level. Subsequently, The Alameda County Flood Control and Water Conservation District, Zone 7 with jurisdiction over Alameda City groundwater use jointly adopted hazardous materials ordinances and accepted the Groundwater Monitoring Guidelines for Hazardous Materials Storage (GMG) drafted by the Alameda County Water District (May 1984).

The City of Alameda maintains eleven underground tanks at seven different sites around the city. Nine tanks were selected for monitoring and two tanks selected for removal. The following is a summary of tank size, site location, and installations for the nine tanks selected for monitoring.

Location	Capacity	Contents	# of wells Installed
Alameda Police Department 1555 Oak Street	1,000 Gallons	Diesel	. 1
Alameda City Hall 2263 Santa Clara	1,000 Gallons 280 Gallons	Gasoline Gasoline	2
Firehouse #1 1300 Park Street	280 Gallons 280 Gallons	Gasoline Diesel	1
Firehouse #2 635 Pacific Street	280 Gallons	Diesel	1
Firehouse #3 1703 Grand Street	280 Gallons 280 Gallons	Gasoline Diesel	2
Alameda Mun. Golf Course	500 Gallons	Gasoline	1

In September 1985, Aqua Science Engineers was asked to submit a proposal on behalf of the City of Alameda which would fulfill city monitoring requirements for underground fuel tanks. Our proposal to install four monitoring wells was submitted on September 19. Four additional wells have since been approved, bringing the total number of installed wells



JUN 1 8 1986
AQUA SCIENCE ENG.

Date: June 17, 1986

Client: Aqua Science

Submitted by: E. Bratlien

Report to: Aqua Science

WESCO Job #: AQS 8648

Client Job/P.O. #: Alameda City

Date collected: 6-9-86

Date submitted: 6-10-86

& type of sample(s): 8 Water

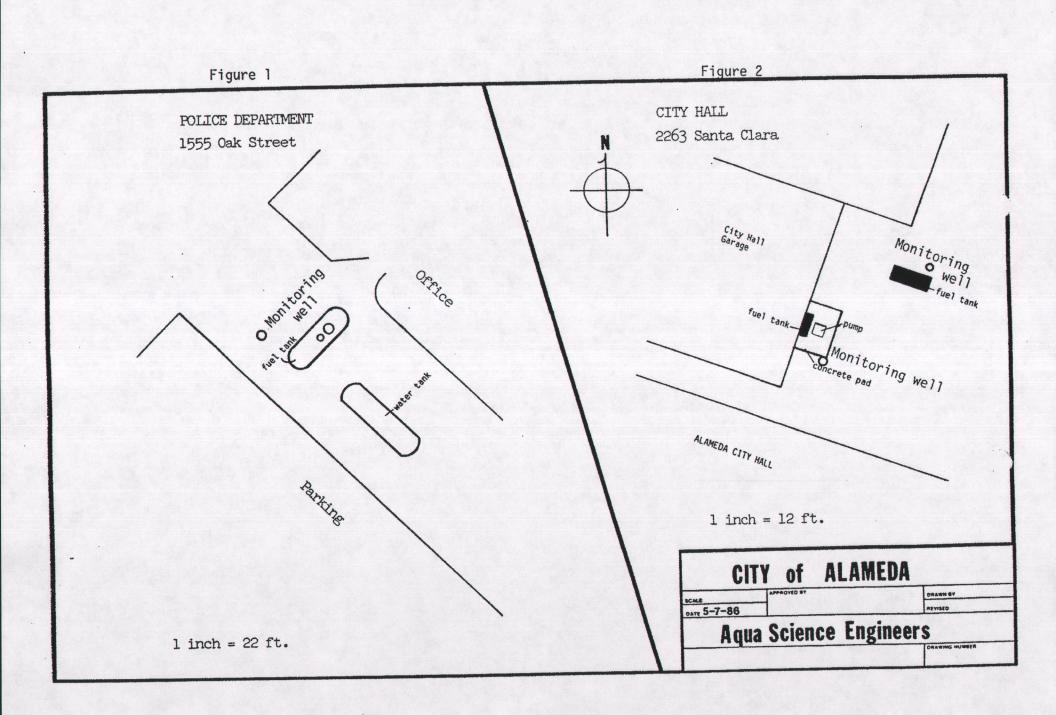
Lab No.	Client ID	Motor Fuel (mg/1)	Beuzene (mg/l)	Toluene (mg/l)	Nylene (mg/l)	Fuel Type	
4629	Fire House #2 635 Pacific Street	< 0.2				Diesel	
4630	Fire House #3 1703 Grand Street	, 5.4		·		Diesel	
4631	Police Dept. 1555 Oak Street	1.6				Diesel	
4632	Fire House #1 1300 Park Street	< 0.2				Diesel	
4633	City Hall #1 2263 Santa Clara	< 0.05	< 0.001	<.0.001	< 0.001	Gasoline	
4634	City Hall #2 2263 Santa Clara	< 0.05	< 0.001	< 0.001	< 0.001	Gasoline	
4635	Fire House #3 1703 Grand Street	< 0.05	< 0.001	< 0.001	< 0.001	Gasoline	•
4636	Alameda Municipal Golf Course	< 0.05	< 0.001	€ 0.001	< 0.001	Gasoline	
	METHOD: Note 1						

NOTES:

Note 1 - EPA method 5020/8015/8020.

Analytical Supervisor

MESCO LABORATORIES IS A DIVISION OF MESTERN ECOLOGICAL SERVICES COMPANY (MESCO)





ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

· 5997 PARKSIDE DRIVE, PLEASANTON, CALIFORNIA 94566

415-484-2600

GROUNDWATER PROTECTION ORDINANCE PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
(I) LOCATION OF PROJECT Alameda Police Department 1555 Oak Street	PERMIT NUMBER 86140 'LOCATION NUMBER
Alameda, CA 94501	
City of Alameda Address 2263 Santa Clara Phone (415) 522-4100 City Alameda, CA Zip 04501	Approved Craig a. Manfield Dote 3 Jun 8. Craig A. Mayfield
(5) APPLICANT	PERMIT CONDITIONS
Address San Ramon, CA Phone (415) 820-9391	Circled Permit Requirements Apply
	GENERAL
(A) DESCRIPTION OF PROJECT Water Well Construction X Geotechnical Cathodic Protection Well Destruction	 A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date. Notify this office (443-9300) at least one day
(5) PROPOSED WATER WELL USE Domestic Industrial Irrigation Municipal Monitoring X Other	prior to starting work on permitted work and before placing well seals. 3. Submit to Zone 7 within 30 days after completion of permitted work the original Department of
(6) PROPOSED CONSTRUCTION Drilling Method: Mud Rotery Air Rotery Auger X Cebie Other	Water Resources Water Well Drillers Report or equivalent for well projects, or bore hole logs and location sketch for geotechnical projects. Permitted work is completed when the last surface seal is placed or the last boring is completed. 4. Permit is void if project not begun within 90
WELL PROJECTS Drill Hole Diameter 8 in. Depth 15 ft. 6 Casing Diameter 2 in. Number 1 Surface Seal Depth 5 ft. Driller's License No. 483678	days of approval date.
Dismeter	is specially approved. GEOTECHNICAL. Backfill bore hole with compacted cut- tings or heavy bentonite and upper two feet with com-
ESTIMATED COMPLETION DATE 6-4-86	pacted material. CATHODIC. Fill hole above anode zone with concrete placed by tremie, or equivalent. WELL DESTRUCTION. See attached.
to t tombe come to comply with all requirements of	Aqua Science Engineers Representative: Mr. David Schultz
January Da Melling	21-00

AQUA SCIENCE ENGINEERS WELL LOG

Casing: 2" PVC

Well Depth: 18.0 ft.

Logged By: D. Schultz, P.E.

Water Depth: 7.5 ft.

Driller: ASE

Alameda Police Dept. 1555 Oak Street Alameda, CA Boring # 1 Date: 6-4-86

DEPTH	(ft.)	SOIL	DESCRIPTION	WELL CONSTRUCTION DETAILS
	6" Asphalt	Cover		
	Dark Brown	Sand		
6-	Light Brow	n Sand	∇	
8-	Light Brow	n Sand Clay	, = 1//3	Sand
10-	80ше	Clay		
12-				
14-				
16-				
18-				Bentonite
20-				
22-				

Bottom of Boring 22.5 ft.