



ENVIRONMENTAL
PROTECTION

97 JUL 22 PM 4: 05

July 21, 1997

Mr. Lance Bryant
City of Alameda
1616 Fortmann Way
Alameda, CA 94501

RE: Monitoring Well Destruction Letter Report
Fire Station #2, 635 Pacific Avenue, Alameda, California
ACC Project No. 96-6209-008.01

Dear Mr. Bryant:

ACC Environmental Consultants, Inc., (ACC) presents this letter report summarizing the destruction of three monitoring wells at Fire Station #2, 635 Pacific Avenue, Alameda, California (Figure 1).

BACKGROUND

Mr. Rafat A. Shalid of the Alameda County Health Care Services Agency (ACHCSA) stated that no further action was required at Fire Station #2 in a letter dated February 28, 1994. Therefore, groundwater monitoring wells are no longer warranted at the site. Four 2-inch-diameter monitoring wells were reported to exist at the site. Monitoring well MW-1 was reportedly removed during parking slab replacement prior to 1996.

WELL DESTRUCTION PROCEDURES

As required by the Occupational Health and Safety Administration, 29 Code of Federal Regulations 1910.120, ACC prepared a site specific Health and Safety Plan for the proposed work.

During field procedures on July 10, 1997, only three wells were located. No evidence of well MW-1 was observed during field work. Three 2-inch-diameter monitoring wells, each with a total depth of 20 feet, were abandoned by grout by Gregg Drilling & Testing, Martinez, California, (license C57-485165) on July 10, 1997. Permit #97WR009 for well destruction was obtained from the Alameda County Public Works Agency, formerly provided by Zone 7 Water Resources Management, prior to performing field activities and is attached.

Well Completion Report Numbers 525482 through 525484 for the decommissioned wells are attached and appropriate copies will be mailed to the Department of Water Resources.

Mr. Lance Bryant

July 21, 1997

Page 2

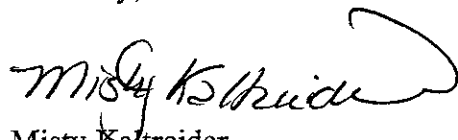
The following procedures were followed for each well to be destroyed.

- The monitoring wells to be abandoned were investigated prior to destruction. The depth, casing diameter, and construction and sealing design of the wells were ascertained. The wells were sounded immediately before destruction to determine whether there were obstructions within each wellbore that would interfere with grouting.
- Each monitoring well was destroyed by pressure grouting. A volume of cement grout at least equal to the pore space in the annular sandpack and the inside diameter of the well was introduced into each well. The top one foot of each wellbore was filled with concrete to surface grade and finished to match the existing surface.
- Each wellbore accepted the grout slurry and the grout settled uniformly. ACC believes the annular sandpack accepted the grout evenly and the grout volume introduced was equal to or greater than the annular pore space plus the well volume.
- Well casings were trimmed approximately one foot below grade.
- The surface was topped with approximately one foot of quick drying cement after ACC had observed that no grout settling had occurred in the well casing during a 30-minute interval.

No soil cuttings were generated by pressure grouting.

If you have any questions regarding this letter report, please call me at (510) 638-8400.

Sincerely,

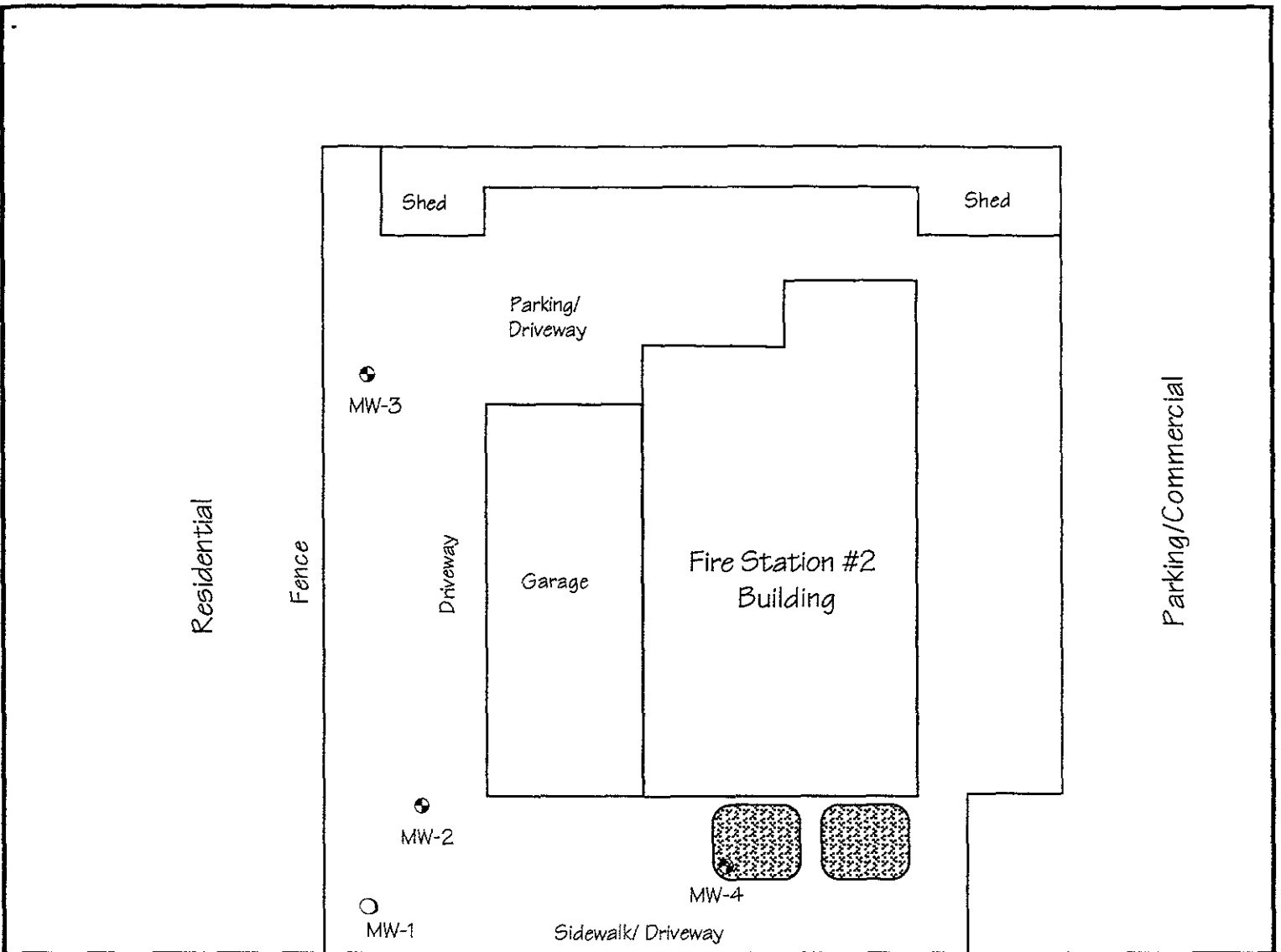


Misty Kaltreider
Senior Project Geologist

/clm:mck




Attachments

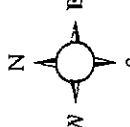
cc: Ms. Juliet Shin, ACHCSA ✓
Mr. Alvin Kan, Alameda County Public Works Agency



Pacific Avenue

Legend

- MW-2  Groundwater Monitoring Well (destroyed 7/10/97)
- MW-1  Presumed Destroyed Monitoring Well Location
-  Landscape

Title: Site Plan Fire Station #2 635 Pacific Avenue Alameda, California	
Figure Number: 1.0	Scale: None
Drawn By: CLM	Date: 7/17/97
Project Number: 6209-008.01	
ACC Environmental Consultants 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax: (510) 638-8404	
	



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 (415) 484-2600
DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Fire Station No. 2
Alameda, CA

PERMIT NUMBER 97 WR 009
LOCATION NUMBER _____

CLIENT
Name City of Alameda
Address 1616 Fortmann Way Phone 748-4520
City Alameda Zip 94501

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT
Name ACC Environmental Consultants
7977 Capwell Drive, Suite 100
Address _____ Phone 638-8400
City Oakland Zip 94621

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.

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

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.

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

E WELL DESTRUCTION. See attached.

TYPE OF PROJECT
Well Construction _____ Geotechnical Investigation _____
Cathodic Protection _____ General _____
Water Supply _____ Contamination _____
Monitoring _____ Well Destruction 4

PROPOSED WATER SUPPLY WELL USE
Domestic _____ Industrial _____ Other _____
Municipal _____ Irrigation _____

DRILLING METHOD:
Mud Rotary _____ Air Rotary _____ Auger _____
Cable _____ Other Pressure Grout

DRILLER'S LICENSE NO. 485165

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum _____
Casing Diameter 2 in. Depth 20 ft.
Surface Seal Depth _____ ft. Number 4

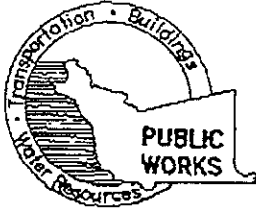
GEOECHANICAL PROJECTS
Number of Borings _____ Maximum _____
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE 7/7/97-7/11/97
ESTIMATED COMPLETION DATE Same

Approved Alk Date 7/3/97

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

APPLICANT'S SIGNATURE Carolyn Mulvihill Date 6-27-97



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

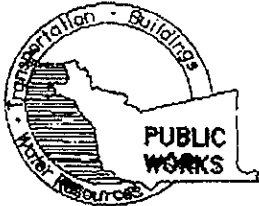
951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262
(510) 670-5248 ALVIN KAN

WATER RESOURCES SECTION GROUNDWATER PROTECTION ORDINANCE

CITY OF ALAMEDA
FIRE STATION # 2 638 PACIFIC AVE
ALAMEDA
PERMIT NO. 97 WR 009

Destruction Requirements:

1. Remove from the well any pump, appurtenances, debris, or other materials to a depth of 22 feet below the finished grade or original ground, whichever is the lower elevation.
2. Sound the well as deeply as practicable and record for your report.
3. Fill well below 22 feet with pea gravel as necessary. Neat cement, cement grout or concrete may be substituted for pea gravel, if desired.
4. Remove any casing(s) and annular seal to 2 feet below finished grade of original ground, whichever is the lower elevation.
5. Fill the remaining 20 foot length of casing with neat cement, cement grout or concrete. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.
6. After the seal has set, backfill the remaining hole with compacted material.



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262
(510) 670-5248 ALVIN KAN

Name CAROLYN MULVHILL

Date JULY 8, 1997

Company ACE ENVIRONMENTAL

Address 7977 CAMPBELL DR

City/State/Zip OAKLAND CA 94621

Dear CAROLYN MULVHILL:

Enclosed are drilling permit number(s) 97WR009 for

- a geotechnical investigation
- a water supply well construction project
- a contamination investigation
- a cathodic protection well project
- a monitoring well construction project
- the destruction of well(s)

at 1616 FORTMAN WAY
ALABAMA

for your client CITY OF ALABAMA

Please note that permit condition:

- A-1 requests that an application be submitted five days prior to your proposed start of work.
- A-2 requires that a well (~~construction~~)-(destruction) report be submitted after completion of the work.

The report should include:

- permit number
- drilling and completion logs
- location sketch
- date of destruction
- a description of methods and materials used to destroy the well
- a Water Well Drillers Report (for drillers)

Please submit the original of your completion report. We will forward your submittal to the California Department of Water Resources.

If you have any questions, please contact Alvin Kan at (510) 670-5248 or myself at (510) 670-5575.

Sincerely,

Andreas Godfrey
Engineer-Scientist

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