

SCS ENGINEERS

July 15, 1998
File No. 0198078.00

Ms. Jeanne M. Dodge M.A.
1120 Walker Avenue
Walnut Creek, CA 94596

**SUBJECT: Report of Groundwater Monitoring Well Closure
7400 Amador Valley Boulevard, Dublin, California**

Dear Ms. Dodge:

SCS Engineers (SCS) is pleased to provide this report summarizing our recent well closure performed at the subject site. This work was performed in accordance with SCS' proposal dated May 28, 1998 (File No. 0110298). The closure of the well was conducted at the request of the Alameda County Health Care Services Agency (ACHCSA) and in accordance with the requirements of the Zone 7 Alameda County Flood Control and Water District (Zone 7).

OBJECTIVES AND SCOPE OF WORK

The objective was to close the one groundwater monitoring well on the site in accordance with applicable requirements of the ACHCSA and Zone 7. The work was conducted in response to a requirement by ACHCSA to properly abandon the well. The scope of work covered generally consisted of:

- Planning and permitting prior to commencement of the proposed work including the preparation of a site health and safety plan.
- The in-place abandonment of the one on-site well using the pressure grouting method under the direction of Zone 7.

A description of the project background, field activities, and conclusions and recommendations resulting from the aforementioned activities follows.

BACKGROUND

The site is currently vacant of all structures and is paved with asphalt. A detailed site history was not reviewed as part of this proposal. SCS understands that multiple wells were installed at the site following the removal of one or more underground storage tanks. One well (labeled MW-13) remains at the site. In a diagram provided by the client, the well appears to be approximately 18 feet deep and static groundwater exists in the well at approximately 11 feet below grade (fbg). A site location map is presented in Figure 1. A site map depicting pertinent site features is presented in Figure 2.

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ENVIRONMENTAL
PROTECTION



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A letter from the ACHCSA, dated December 22, 1997, indicates that no further remedial action is required in regards to the previous tanks at the site. The ACHCSA letter requests that the remaining well (labeled MW-13) be properly abandoned in order to issue final closure to the site. The ACHCSA letter is provided in Attachment 1.

Below is a description of the work done to complete the closure of the wells.

SCOPE OF WORK

Planning and Permitting

Prior to closure, SCS obtained permit number 98106 from Zone 7 for the in-place abandonment of the well using the pressure grouting method for well destruction. SCS prepared a site specific health and safety plan for use by authorized employees of SCS while on the job site. According to Mr. Wyman Hong of Zone 7, no inspection of the well abandonment was required. The approved permit for the closure of the well is provided in Attachment 2. As per Zone 7 guidelines, the California Department of Water Resources Well Completion Form (DWR Well Completion Form) for the destruction of the well was completed and submitted to Zone 7. A copy of the DWR Well Completion Form is provided in Attachment 3.

Well Closure

On June 29, 1998, the well (labeled MW-13) was abandoned in-place through pressure grouting as per the regulations of the Zone 7. Well closure activities were completed by PC Exploration, Inc. (PCX) of Roseville, California (Lic. No. C57-265556) with supervision by SCS.

The depth to water in the well was measured at 7.71 feet below the top of the casing prior to the well closure activities. The well was closed by forcing sealing material in the form of neat cement grout into the well under pressure until it appeared that the well would accept no more grout. Approximately 25 gallons of grout was forced into the well and additional grout was used to top-off the well up to 2 fbg. Poorly compacted materials and well construction materials were cleaned out from the upper portion of the well and the surrounding well box was broken out and removed. Concrete was then used to fill the remaining void up to the finished grade and to resurface the top of the well.

CONCLUSIONS

Based on this and previous work at the site, SCS concludes that:

- Closure of the groundwater monitoring well on the site was completed in accordance with applicable requirements of Zone 7.

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RECOMMENDATIONS

Based on this information, no further activities regarding well MW-13 are recommended at this time. Copies of this report have been submitted to the agencies referenced below to document the closure of the well.

CLOSING

We appreciate the opportunity to be of continued service to you on this project. If you have any questions or require any clarifications, please do not hesitate to call.

Sincerely,



Bryan M. Campbell
Staff Geologist
SCS ENGINEERS

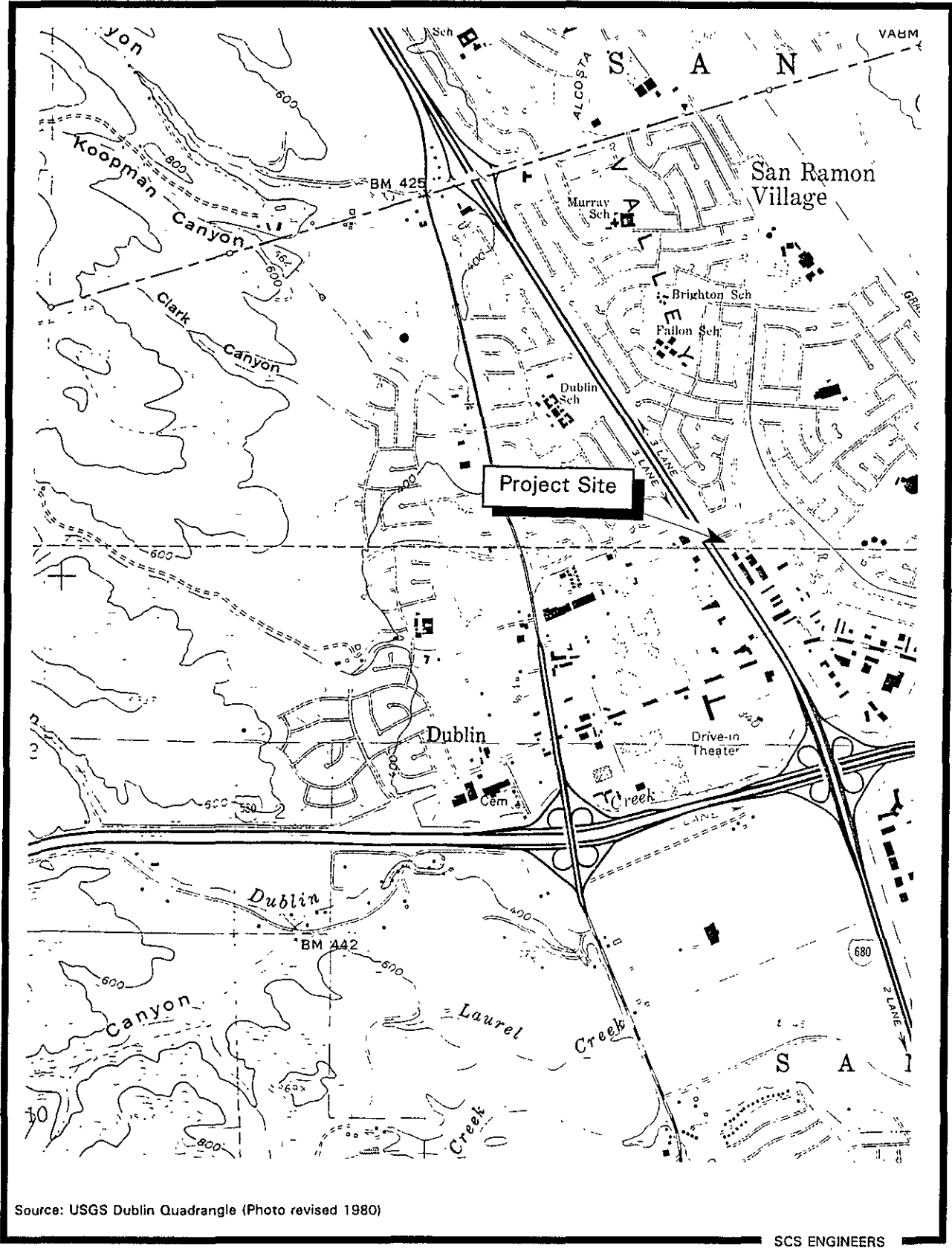


for Kevin W. Green, R.E.A., R.G.
Project Manager
SCS ENGINEERS

Enclosures: Figure 1. Site Vicinity Map
Figure 2. Site Map
Attachment 1. ACHCSA Letter
Attachment 2. Well Closure Permit
Attachment 3. DWR Well Completion Form

cc: Mr. Wyman Hong, Zone 7 Alameda County Flood Control and Water District,
5997 Parkside Drive, Pleasanton, CA 94588

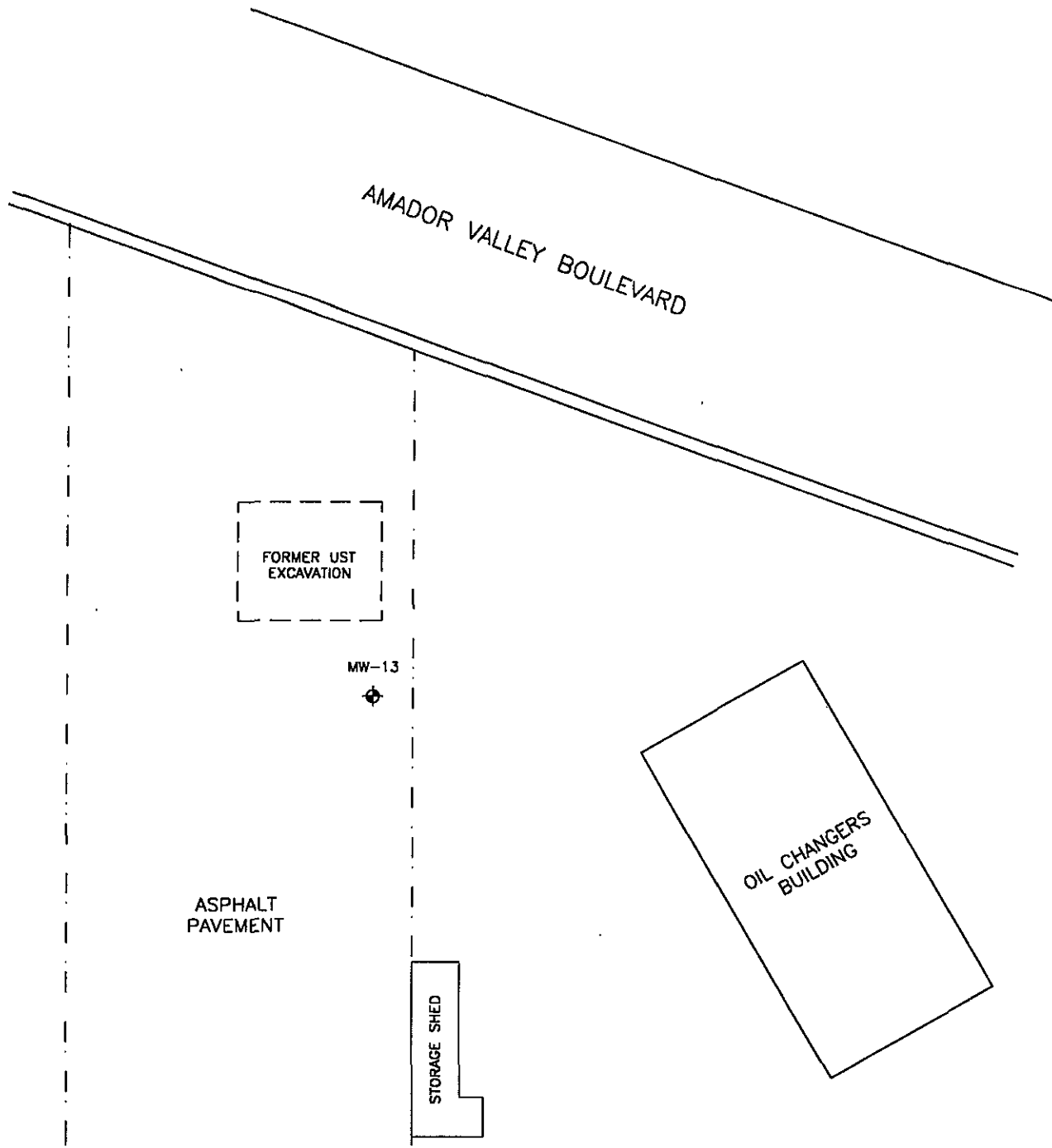
Ms. Eva Chu, Alameda County Health Care Services Agency,
1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502





Source: USGS Dublin Quadrangle (Photo revised 1980)

SCS ENGINEERS

Figure 1 Site Vicinity Map



LEGEND

-  WELL MW-13
(ABANDONED ON 6/29/98)
-  PROPERTY BOUNDARY



SCS ENGINEERS ENVIRONMENTAL CONSULTANTS <small>8761 SHERMAN COUNTY, SUITE 0 DUBLIN, CALIFORNIA 94568-2411 PH. (510) 829-0861 FAX. (510) 829-3483</small>	SHEET TITLE		FIGURE NO. 2
	SITE MAP		
<small>PROJ. NO. 0198078.00</small> <small>DATE 7/8/98</small>	<small>CHK. BY GMC</small> <small>APP. BY KWG</small>	<small>ADVIS FILE: 3/11/01</small> <small>APR. BY</small>	PAGE
PROJECT TITLE		DODGE PROPERTY 7400 AMADOR VALLEY BOULEVARD DUBLIN, CALIFORNIA	

ATTACHMENT 1

ACHCSA LETTER

ALAMEDA COUNTY

HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

StID 3729

December 22, 1997

Mr. Richard Dodge
1120 Walker Ave
Walnut Creek, CA 94596

RE: Well Decommission at 7400 Amador Valley Blvd, Dublin, CA

Dear Mr. Dodge:

This office and the San Francisco RWQCB have reviewed the case closure summary for the above referenced site and concur that no further action related to the underground tank release is required at this time. Before a remedial action completion letter is sent, the onsite monitoring well (MW-13) should be decommissioned, if it will no longer be monitored. Please notify this office upon completion of well destruction so a closure letter can be issued.

Well destruction permits may be obtained from Alameda County Flood Control and Water Conservation, Zone 7. They can be reached at (510) 484-2600.

If you have any questions, I can be reached at (510) 567-6762.

Sincerely,

eva chu
Hazardous Materials Specialist

dutch8

ATTACHMENT 2
WELL CLOSURE PERMIT



ZONE 7 WATER AGENCY

6887 PARKSIDE DRIVE. PLEASANTON, CALIFORNIA 94588-6127 PHONE (510) 484-2600 X235
FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT
7400 Amador Valley Boulevard
Dublin, California

PERMIT NUMBER 98106
WELL NUMBER 2S/LW 36P21
APN _____

California Coordinates Source _____ ft. Accuracy ± _____ ft.
CC _____ ft. CCE _____ ft.
APN _____

PERMIT CONDITIONS

CLIENT
Name Ms. Jeanne M. Dodge M.A.
Address 1120 Walker Avenue Phone _____
City Walnut Creek, CA Zip 94596

Circled Permit Requirements Apply

APPLICANT
Name Bryan Campbell
SCS Engineers Fax (925) 829-5493
Address 6761 Sierra Ct, Ste D Phone (925) 829-0661
City Dublin, CA Zip 94568

- 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
Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

- 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.

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

- 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.

DRILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other

- 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.

DRILLER'S LICENSE NO. C57-265556

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

VELOCITIES PROJECTS
Drill Hole Diameter _____ in. Maximum _____
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number _____

- F. WELL DESTRUCTION. See attached.
G. SPECIAL CONDITIONS

GEOTECHNICAL PROJECTS
Number of Borings 1 Maximum _____
Hole Diameter 8 in. Depth 18 ft.

ESTIMATED STARTING DATE 6/29/98
ESTIMATED COMPLETION DATE 6/29/98

Approved Wyman Hong Date 24 Jun 98
Wyman Hong

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

APPLICANT'S SIGNATURE [Signature] Date 6/22/98

ATTACHMENT 3
DWR WELL COMPLETION FORM

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED