

**Subsurface Consultants, Inc.**

ENVIRONMENTAL  
PROFESSIONAL  
99 FEB 16 PM 1:59

January 12, 1999  
SCI 537.013

Ms. Susan Hugo  
Alameda County Health Care Services Agency  
1331 Harbor Bay Parkway, Suite 200  
Alameda, CA 94502

**Letter Report  
Monitoring Wells Abandonment  
Emeryville Old Town Hall  
Emeryville, California**

Dear Ms. Hugo:

This letter describes the environmental services performed by Subsurface Consultants, Inc. (SCI) for the abandonment of three 2.0" diameter, 20.0 feet deep groundwater monitoring wells at the Emeryville Old Town Hall, located at 1333 Park Avenue in Emeryville, California (Site). The Site is currently under renovation as the future Emeryville Civic Center. The well abandonment was performed with your oral approval on January 4, 1999, pending issuance of case closure for the Site. Mr. Alvin Kan of the Alameda County Public Works Agency-Water Resources Section (ACPWA-WRS) also approved the abandonment of the wells via facsimile on December 24, 1998. The former well locations are shown on the attached Groundwater Gradient Map (Site Plan), previously prepared by another consultant.

Prior to proceeding with well abandonment, SCI obtained a Drilling Permit (Permit) from the ACPWD-WRS (attached). SCI initially sought to conduct abandonment by over-drilling the well casings, containerizing the sand filter pack materials, and sealing the resulting void with tremie grouting.

SCI's field engineer was onsite to supervise and document field activities, as well as to coordinate access with the City of Emeryville's Site construction superintendent. Soils Exploration Services (SES), SCI's subcontractor, initiated over-drilling of the wells on January 5, 1999. The well covers were set in concrete cement; SCI was unable to penetrate the full thickness of the concrete using hollow-stem augers. It was not known how thick the concrete around and beneath the well covers was, since well construction details are not available from Alameda County. SCI telephoned Mr. Kan from the Site to request permission to switch the method of abandonment

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from over-drilling to pressure-grouting. Mr. Kan subsequently telephoned you regarding the Site status, and it is our understanding that you informed him that available groundwater analytical data indicated that the Site was "clean" and a candidate for case closure. Mr. Kan verbally approved the use of pressure-grouting shortly afterwards on the same day.

Monitoring wells MW-1, MW-2, and MW-3 were abandoned by pressure-grouting with neat cement, using the tremie method. Grout was placed from the bottom to top of each well casing. The metal manholes are to be removed during the second or third week of this month by the contractor during removal of the asphaltic concrete covering the parking area. Pursuant to Alameda County regulation, a Well Completion Report (Form DWR 188 Rev. 7-90) is attached.

If you have any questions, please call either of the undersigned at (925) 299-7960.  
Yours very truly,

Subsurface Consultants, Inc.

*John R Rasmussen*

John R. Rasmussen  
Staff Engineer



*Mark S. Stanley*  
Mark S. Stanley, P.E.  
Civil Engineer 49746 (expires 9/30/00)

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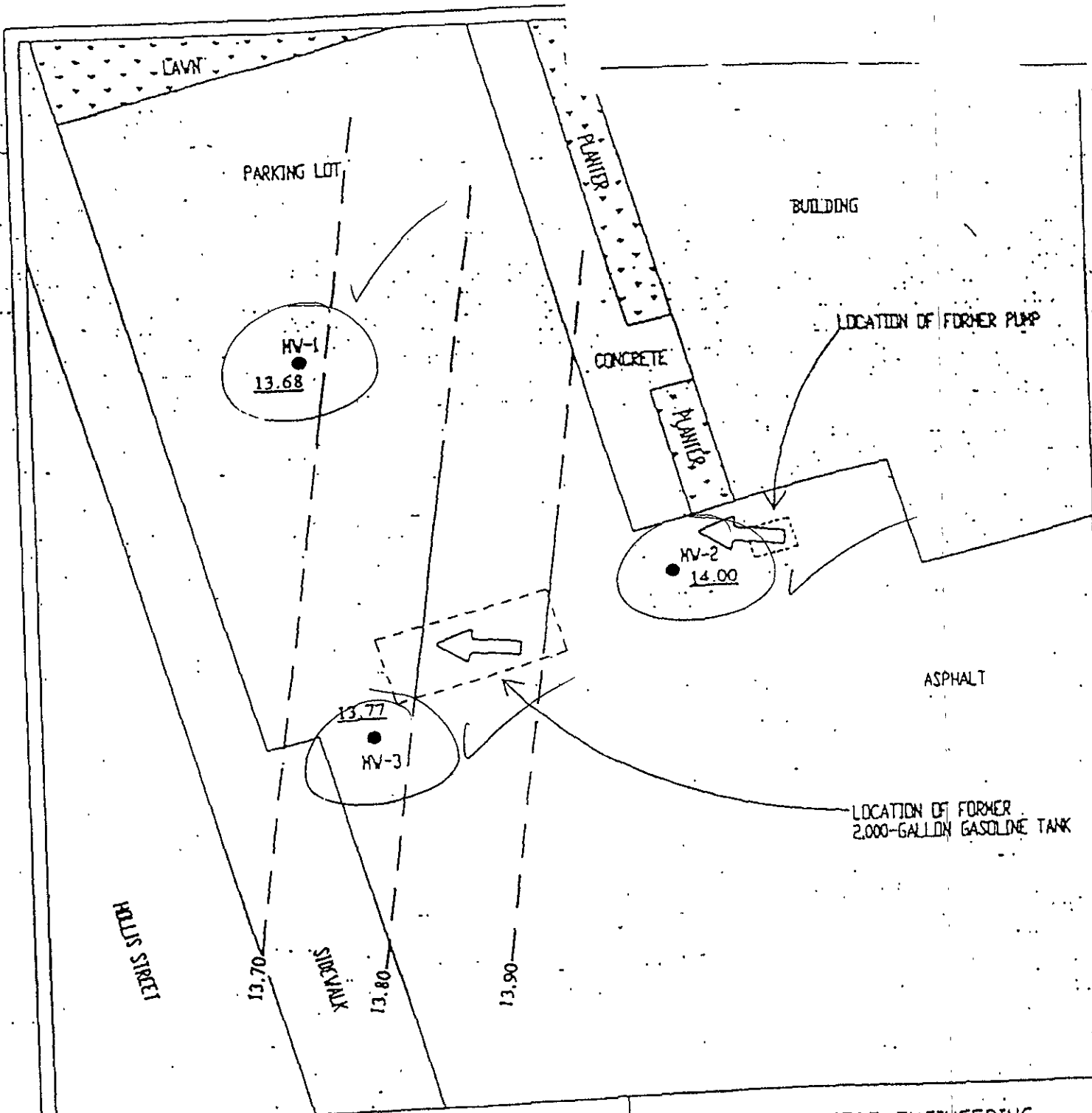
Attachments: Groundwater Gradient Map (Site Plan) prepared by Tank Protect Engineering  
Permit # 98WR542  
Well Completion Report

cc: Mr. Alvin Kan  
ACPWA-WRS  
951 Turner Court, Ste 300  
Hayward, CA 94545-2651



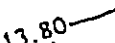

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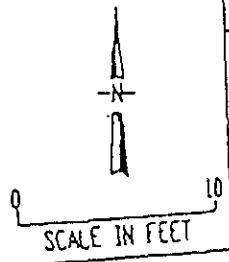
**Mr. Ignacio Dayrit  
City of Emeryville Redevelopment Agency  
2200 Powell Street, 12th Floor  
Emeryville, CA 94608**

**Ms. Dana Gemmell  
City of Emery Public Works Department  
2200 Powell Street, 12th Floor  
Emeryville, CA 94608**



LEGEND

- 
 HV-1 NAME AND LOCATION OF GROUNDWATER MONITORING WELL
- 
 13.68 POTENTIOMETRIC ELEVATION (FEET-MSL)
- 
 13.80 POTENTIOMETRIC CONTOUR
- 
 GROUNDWATER FLOW DIRECTION (12/30/92)



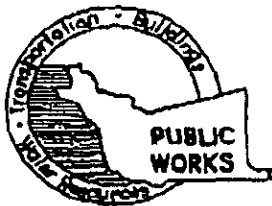
TANK PROTECT ENGINEERING

GROUNDWATER GRADIENT MAP (12/30/92)

1333 PARK AVENUE  
EMERYVILLE, CA 94608

DATE	1/19/93
FIGURE	1
FILE #	2134-17
DRAWN BY	KAC
CHECKED BY	JVM

Sent by: SCL LAFAYETTE



# 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

### DRILLING PERMIT APPLICATION

#### FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Emeryville Old Town Hall  
SE Corner of intersection of Hall's St & Park Ave  
Emeryville CA

California Coordinates Source \_\_\_\_\_ ft. Accuracy ± \_\_\_\_\_ ft.  
CCN \_\_\_\_\_ ft. GCE \_\_\_\_\_ ft.  
APN N/A

CLIENT Name City of Emeryville Redevelopment Agency Contact: Ignacio Dayrit  
Address 2700 Powell St, 12th Floor Phone 510-596-1435  
City Emeryville CA Zip 94608

APPLICANT Name Subsurface Consultants Inc Contact: John Rasmussen  
Address 3736 Mt Diablo Blvd Ste 200 Phone 925-299-7970  
City Lafayette CA Zip 94549-3659

#### TYPE OF PROJECT

Well Construction \_\_\_\_\_  
Cathodic Protection  Geotechnical Investigation \_\_\_\_\_  
Water Supply  General   
Monitoring  Contamination   
Well Destruction  (3) by overdrilling + grouting

#### PROPOSED WATER SUPPLY WELL USE N/A

New Domestic  Replacement Domestic   
Municipal  Irrigation   
Industrial  Other \_\_\_\_\_

#### DRILLING METHOD:

Mud Rotary  Air Rotary  Auger   
Cable  Other

DRILLER'S LICENSE NO. C57# - 582696

#### WELL PROJECTS

Drill Hole Diameter 8 in. Maximum \_\_\_\_\_  
Casing Diameter \_\_\_\_\_ in. Depth 20 ft.  
Surface Seal Depth \_\_\_\_\_ ft. Number 3

#### GEOTECHNICAL PROJECTS

Number of Borings \_\_\_\_\_ Maximum \_\_\_\_\_  
Hole Diameter \_\_\_\_\_ in. Depth \_\_\_\_\_ ft.

ESTIMATED STARTING DATE 1/1/98  
ESTIMATED COMPLETION DATE 1/10/98

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

APPLICANT'S SIGNATURE John R Rasmussen, E.I. DATE 12/22/98

#### FOR OFFICE USE

PERMIT NUMBER 98WR542  
WELL NUMBER \_\_\_\_\_  
APN \_\_\_\_\_

#### PERMIT CONDITIONS

Circled Permit Requirements Apply

#### A. GENERAL

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

#### 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.

#### 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, tremie cement grout shall be used in place of compacted cuttings.

#### E. CATHODIC

Fill hole above anode zone with concrete placed by tremie

#### F. WELL DESTRUCTION

See attached,

#### G. SPECIAL CONDITIONS

APPROVED [Signature] DATE 12/24/98

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**