

TEL (925) 244-6600 • FAX (925) 244-6601

August 16, 2001

Ms. Susan Hugo Alameda County Environmental Health Services 1131 Harbor Bay Parkway 2nd Floor Alameda, California 94502

AUG 2 0 2001

Subject:

Well Decommissioning Report, 4550 San Pablo Avenue Emeryville,

California

Dear Susan:

Per your verbal approval, SOMA Environmental Engineering, Inc. (SOMA) decommissioned the existing groundwater monitoring wells at the subject site. Attached is a copy of our report entitled "Well Decommissioning Report" dated August 15, 2001. Please review the attached report and call me at (925) 244-6600, if you have any questions or comments.

Sincerely,

Mansour Sépehr, Ph.D., P.E. Principal Hydrogeologist

Enclosure

cc: Carol Light, Silverman & Light



WELL DECOMMISSIONING REPORT

4550 San Pablo Ave. Emeryville, California

August 15, 2001

Project 2370

Prepared for
Emeryville Farms and Associates
4550 San Pablo Avenue
Emeryville, California 94608

Prepared by
SOMA Environmental Engineering, Inc.
2680 Bishop Drive, Suite 203
San Ramon, California 94583

Certification

This report has been prepared by SOMA Environmental Engineering, Inc. on behalf of Emeryville Farms and Associates, the property owner at 4550 San Pablo Avenue, Emeryville, California, to comply with the Alameda County Environmental Health Services' requirements for the decommissioning of monitoring wells at the site.

Mansour Sepehr, Ph.D., P.E.

Principal Hydrogeologist

No. CO42928
EXP. 3-31-04

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12, 2000.

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the ACEHS for the Site. In a letter dated April 12, 2000, ACEHS concurred with the SOMA's recommendation and required three additional quarterly groundwater monitoring events to be conducted prior decommissioning of the groundwater monitoring wells at the Site. Appendix A includes ACEHS letter dated April 12, 2001. Subsequently, SOMA conducted additional three quarterly groundwater monitoring events during year 2000. After submission of last quarterly groundwater monitoring report to ACEHS, SOMA contacted ACEHS to acquire permission to decommission the groundwater monitoring wells. In July 2001, Ms Susan Hugo of ACEHS verbally agreed decommissioning of the two existing groundwater monitoring wells. This report contains the procedure for closure of existing groundwater monitoring wells based on the Alameda County monitoring well abandonment guidelines.

2.0 FIELD WORK

2.1 Scope of work

The work included the following tasks:

- 1. Prepare a site-specific Health and Safety Plan (HASP)
- 2. Obtain permits for well destruction from Alameda County
- 3. Locate and decommission two groundwater monitoring wells

These tasks are described below.

2.2 Prepare HASP

Before commencement of the field activities, a site-specific health and safety plan (HASP) was prepared by SOMA. The HASP was designed to address safety provisions during the field activities. It provided procedures to protect the field crew from physical and chemical hazards resulting from drilling, and groundwater sampling. The HASP established personnel responsibilities, general safe work practices and field procedures, personal protective equipment standards, decontamination procedures, and emergency action plans.

2.3 Obtain Permits

Prior to drilling, all necessary drilling permits were obtained from the Alameda County Public Works Agency. (See Appendix A)

2.4 Locate and Decommission Wells

Prior field activities SOMA personnel visited the site and located the two monitoring wells, MW-1 and MW-2, scheduled for decommissioning. SOMA contracted Fisch Drilling of Valley Springs, California, to decommission the wells according to Alameda County Public Works Agency's published guidelines. The locations of these well are shown in Figure 2.

The first step to decommissioning the wells was to over-drill the well box of each well using an eight-inch diameter, hollow-stem auger. After the asphalt and cement was removed from around the well box, the box itself was removed, exposing the well. The well was then over-drilled using an eight-inch diameter hollow-stem auger, and all existing well casing was removed from the borehole. The well was drilled to the bottom depth indicated on the well logs supplied by the previous contractor (see Appendix A), and re-measured in the field also. Once the drilling was completed and all casing removed from the hole, the auger was withdrawn as the hole was simultaneously filled with Portland-cement grout, mixed with 5% bentonite. In this fashion, each well was fully grouted to land surface.

3.0 REFERENCES

SOMA Environmental Engineering, Inc., February 1, 2000 "Comprehensive Site Closure Report, 4550 San Pablo Avenue, Emeryville, California"

TABLES

Table 1: Well Destruction Details

4550 San Pablo Ave. Emeryville, California

Depth of Well Well (Ft)		of Well	Diameter of Borehole (in)	Diameter of Over- Drilled Borehole	
MW-1	22	2	8	8	
MW-2	22	2	8	8	

FIGURES

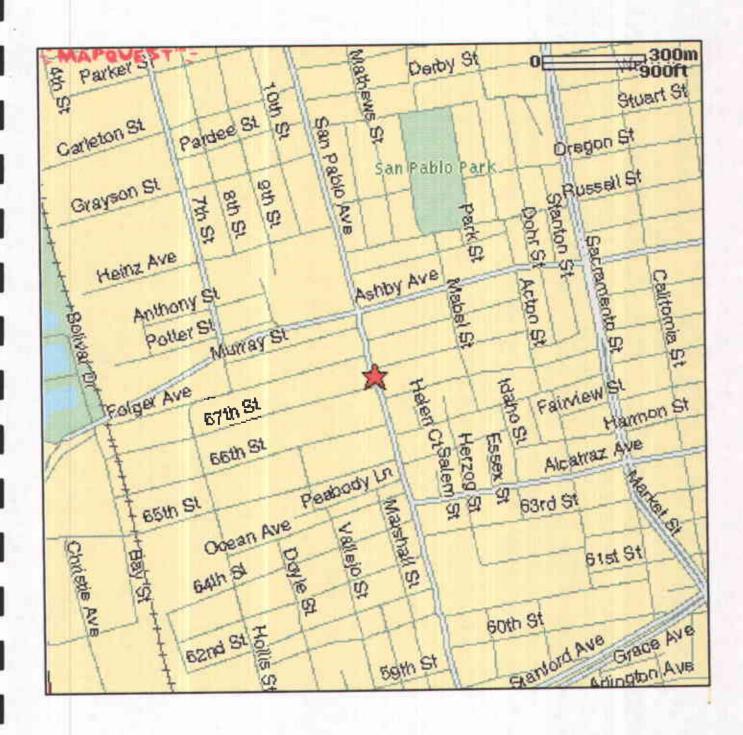
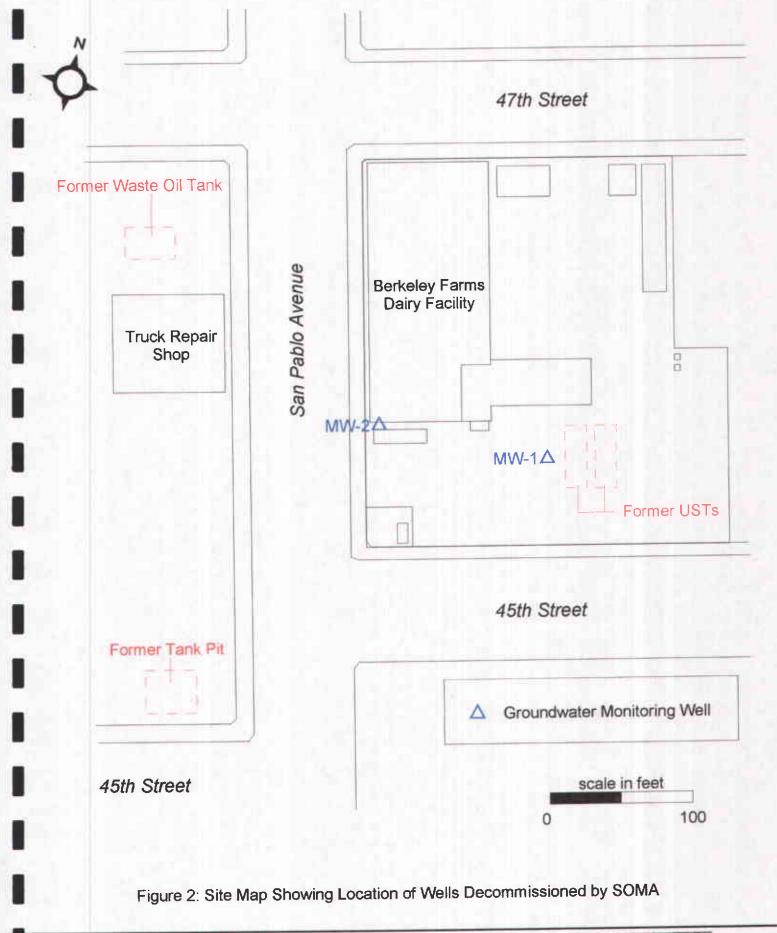


Figure 1: Site Vicinity Map







APPENDIX A

Alameda County Environmental Health Services' Letter Dated April 12, 2000

ALAMEDA COUNTY

HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

April 12, 2000

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

Ms. Carol Light Emeryville Farms, L.L.C. 1201 Park Avenue, Suite 100 Emeryville, CA 94608

Subject:

Former Berkeley Farms Facility (STID # 1754) 4550 San Pablo Avenue, Emeryville, California 94608

Dear Ms. Light:

The Alameda County Environmental Health Services has reviewed the "Comprehensive Site Closure Report" dated February 1, 2000 and Addendum to Comprehensive Site Closure Report dated March 6, 2000, prepared and submitted by Soma Environmental Engineering, Inc. for the above subject site.

The subject site was formerly a dairy facility from 1946 up to 1997. A vacant two-story building occupies the northwestern portion of the property. The site is bounded by San Pablo Avenue to the west, 47th Street to the north and 45th Street to the south. The site is proposed to be developed into commercial office building.

The referenced reports document the recent investigation conducted at the site and included historical data to validate that the site meets the low risk soil and /or groundwater case. The Site Closure Report also addresses the short-term and long-term potential risks to human health and the environment from residual soil and groundwater contaminants at the site and provided guidelines to be followed during the planned redevelopment of the site as commercial offices.

This agency concurs with the general scope of the Comprehensive Site Closure Report. Based upon the available information and with the provision that the information provided to this agency is accurate and representative of site conditions, no further action is required at the site at this time other than quarterly groundwater monitoring of existing wells MW-1 and MW-2 for three additional sampling events. The groundwater at the site must be analyzed for the following target compounds: Total Petroleum Hydrocarbon (TPH) as diesel, TPH as gasoline, benzene, toluene, ethyl benzene, xylene, methyl

Ms. Carol Light

RE: 4550 San Pablo Avenue, Emeryville, CA

April 12, 2000 Page 2 of 2

tertiary butyl ether (MTBE) and semivolatile organic compounds by EPA Method 8270.

As you know, one of the groundwater monitoring wells at the former Berkeley Farms Truck Repair Yard located west of the subject site is being used historically as the downgradient monitoring well. You will need to coordinate groundwater sampling with the former Berkeley Farms Truck Repair Yard or install a downgradient monitoring well for your site. Data collected during the three additional monitoring events will be evaluated and if results indicate that the groundwater plume is stable and the concentrations are decreasing over time, then the site will go through case closure process until issuance of "Remedial Action Completion Certificate" or closure letter.

The construction risk management plan should be implemented during redevelopment of the subject site. Please notify this office when redevelopment will begin at the site.

If you have any questions regarding this letter or the subject site, please contact me at (510) 567-6780.

Sincerely,

Susan I Hugo

Hazardous Materials Specialist

CC: Mee Ling Tung, Director, Environmental Health Services
 Ariu Levi, Chief, Hazardous Materials and Household Hazardous Programs
 Chuck Headlee, San Francisco Bay RWQCB
 Patrick O'Keefe, City of Emeryville, 2200 Powell Street, Emeryville, CA 94608
 Barrie Cromartie, City of Emeryville, 2200 Powell Street, Emeryville, CA 94608
 Norman Albert, Berkeley Land Co., 1211 Newell Ave., #120, Walnut Creek, CA 94596
 Mansour Sepehr, SOMA Environmental, 2680 Bishop Dr., Suite 203, San Ramon, CA 94583
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APPENDIX B

Well Destruction Permits, Well Logs, Well Construction Details

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ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-3554
FAX (510)787-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	
	FOR OFFICE USE
LOCATION OF PROJECT	PERMIT NUMBER NO 1. 5 7
1530 534 PERIO AVE.	WELL NUMBER
Emacquille, CA	APNMAA
	PERMIT CONDITIONS
CLIENT	Circled Petroli Requirements Apply
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Areins 1301 Park AVE, Six. 100 Phose	
THE 24 60 8	I. A permit application should be submitted so as to acrive at the ACPWA office fire days prior to
APPLICANT	proposed skilming dale.
Name SOMA Eminements	2. Submit to ACPWA within 60 cays after completion of permitted original Department of Water Resourcest-
Scap Brehop Dr.) Fre 725-244-6601	Well Completion Report of Water Resources.
Address Sunt 42 803) Phone 735-144-6600). Permit is void if project not keren within 90 days of
Cir San Ramon, CA 20 14583	approval data
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TYPE OF PROJECT	1. Minimum surface seal thickness is two feeches of
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Sidnifornit 0 Well Destruction	C. GROUNDWATER MONITORING WELLS
PROPOSED WATER SUPPLY WELL USE	INCLUDING PIEZOMETERS
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Municipal D. Ingation D	comest grow placed by wernie.
Industrial D Other	2. Minimum trai death for momenting wells is the maximum depth provides he so feet.
DRILLING METHOD	D. GEOTECHNICAL
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Cable 0 Other 0	RIGHT SAME DESCRIPTION OF PARTY PARTY AND ADDRESS OF THE PARTY.
	or with engineered engines.
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DRILLER'S LICENSE NO. 683865	Fig hale anode zone with contrate placed by semie. F. WELL BESTRUCTION
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Caring Diameter 2 in Death 22 h	FOTE: One application must be submitted for each well or well
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ENTINIATED COMPLETION DATE 7/32/01	APPROVED DATE -23-2
t hereby agree to comply with all requirements of this period and Alameda County Orina	A WITE
Orming County Orming	/ ,
APPLICANTS SIGNATURE The til publish DATE 7/	20/61
SELECTION PARTY PARTY SALL	<u> </u>
Rod-	22-D0
	~

JUL-12-01 THU 02:51 PM ALAMEDA COUNTY PWA RM239

FAX NO. 5107821939

P. 02



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
199 ELMHURST ST. HAYWARD CA. 94541-1395
PHONE (518) 678-2554
FAX (510)181-1939

DRILLING PERMIT	APPLICATION
FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT	PERMIT HUNDER WOL- STV
4550 SZA PLOTO AVE.	WELL NUMBER
- Emergrille, CA	APN
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the state of the s	FERNIT CONDITIONS Cacked Fermit Requirements Apply
CLIENT - ALL C . P. A.	months of the last of the state of the transfer of the transfe
Name Empry VIII France & ASSOC. Address HOT Park Ave; Ste. 100 Phone	A. GENERAL
City Energy tile CA Zip 7460 6	1. A permit application should be submitted so as to
	active at the ACPWA affice five days prior to
APPEICANT	2. Sybmit to ACPU'A within 60 days after completion of
Nome SOMA Environmental	permitted original Department of Water Resources-
success Sunte 203 Phane 715-144-6600	Well Completion Report.
Authors 50 12 203 Phane 715-144-6600	3. Permit is જાલે કે project વાલ કરવામાં જાંકોના ૧૫ તમુક વર્ક પ્રકારવાઓ તૈકાદ
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Mankoring Well Description	C. GROUNDWATER MONITORING WELLS
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irdentral 0 Oties 1	unratumin george deregency (1) less
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Cable () Water ()	growtsond mirrore. Upper two-three feet replaced in kind or with compacted excings.
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ORDICERS NAME David Fisch	Fill hole made some with encarete placed by tremic.
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WELL PROJECTS A	C. SPECIAL CONDITIONS
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Create Districtor	NOTE: One application must be submitted for each well destruction. Multiple burings on one application are acceptable
Surface Seal Depth @ @ Owner's Well Number MW. 2	Lys. Reservances une continuestion and extra Esquare
GEOTECHNICAL PROJECTS	1) Athehed.
Number of Berings hirrinany	- Harron
Hole Digraeter in O-7th n	
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ESTIMATED COMPLETION DATE 7/30/01	(200)
	APPROVED DATE
I hereby serve to comply with all requirements of this permit and Alameda County Orci-	names No. 73-68 / / //
APPLICANTS SIGNATURE TEXTEN A Plin DATE 7	
	<u>~~~</u> " \
PLEASE PROTECTION FOR THE PARTY OF THE PARTY	55.00 V

BORING LOG								
Project No. 1011 Boring and casing diameter, 8", 2" Logged By: JG								
Project: Former Berkeley Farms Dairy			Well Cover Elevation: 42.43				Date drilled: 2/28/99	
Boring No. M\	Boring No. MW-2-Dairy			Orilling Method: Hollow Stem Aug			Drilling Company: Woodward	
Penetration Blows/6* PID	Blaws/6* level Depti		E-1		Description Description			
					5" of concr	ete pavement c	over 4" of sand and grown here	
			- CL		1	8" of concrete pavement over 4" of sand and gravel base.		
5/6/10/12	5/6/10/12 PID-0				@1' - Silty clay (CL), black (5Y 2.5/2), moist, very stiff. @ 5' - Clayey silt (ML), dark olive gray (5Y 3/2), moist, very stiff. trace angular gravels to 3/8" diameter.			
1,0114/15/15 1,3/6/16/20	목	- 10 -	ML.		© 10' - Clayey silt with gravel (ML), plive gray (5Y 6/3), very moli very stiff, estimated 15–25% variable gravel content, gravels are angular, to 1.5" diameter. ② 11.5'-Sandy silt (ML), yellowish brown (10YR 5/4), v. molst, v. s ② 13' - Silt (ML), light clive gray (5Y 6/2), saturated, very stiff, loc with up to 15% angular gravels to 1/2" diameter, locally clayey to sandy. Abundant FoD staining.			
B/1 2/ :19 /2 2		20	SM ML		gravels to 1/4" die	and very fine to imeter, 10-15% silt (ML), olive	reak red (2.5Y 4/2), saturated, course-grained, 15% authangular allt and clay gray (SY 5/3), saturated, hard, trace abundant Feo and MnO staining.	
		25 —			Total Depth: 2 Screen: 0.010 Sandpack: #2 Seal: Bentonii	slot from 6-2 112 sand from	•	
	- - -	30 -						
4550 San. P	Former Berkeley Farms Dairy 4550 San Pablo Avenue			MW2	Date: Mar	rch 12,1999		
Emeryville, California					-Dairy	Drawn By:	JG/Geo-Logic	
Boring Log and Well Completion Details								

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BORING LOG							
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Project: Forme Farms (ley	Well Cover Elevation: 43.27			.27	Date drilled: 2/26/99	
Boring No. MW-1-Dairy			Drilling Method: Hollow Stem Auger			Auger	Drilling Company: Woodward Drilling
Penetration Blows/5" PID	G.W. level	Sample Depth (ft)	th Stratigraph		Description		Description
					8" of concret	e pavement s	iver 4" of sand and gravel base
			4		@1' - Silty day (C	L), black (5Y	2.5/2), moist, very stiff.
3/6/12/15 5/6/10/14	1 ‡		CL		@5' - Silty clay (CL), very dark gray (5Y 3/1), moist, very stiff, estimated 10% subangular gravets to 1/4" diameter. @7' - As above except gray (6Y 5/1), very moist, very stiff, slight odor of hydrocarbons.		
9/14/14/15		- 10	ML		@9" - Clayey silt w	Ath gravel (Mi	L), dark greenish gray (5G 41), well
15/15/8/11	포	-	GW		estimated 15-30% variable gravel content, mod. odor of hydrocarbons. @11 - Sandy gravet, ck. greenish gray (5G 4/1), saturated, v. atm, v. fine to med-orained angular gravets to 1/2" est, 10% silt, str. edpr. @12.4' - Sandy silt (ML), yellowish brown (10YR 6/4), saturated, slight		
(SEEDIO) I							
18/26/50-6*		15 -	ML		odor of hydrocarbo		cept very hard.
18/20/20/36		20]			@20' - Clayey sit with gravel (ML), yellowish brown (10YR 5/4), saturated, hard, up to 15% variable subangular gravels to 3/8" diameter, trace to 10% v. fine-grained sand, sl. of hydrocarbons. Total Depth: 22 feet Screen: 0.010 stol from 6-22 feet Sandpack: #2/12 sand from 5-22 feet		
		- 25 —					
-		_ •]		Seal: Bentonite	s 3,5-5 feet,	neat cement grout 0-3.5 feet,
			4				
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Former Be			Dairy		MW1	Date: Ma	arch 12,1999
4550 San Pablo Avenue Emeryville, California			-Dairy D	Drawn By	y: JG/Geo-Logic		
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