

October 17, 1996 Project 286-001.6B

Ms. Eva Chu Alameda County Health Care Services 1131 Harbor Bay Parkway Alameda, California 94502-6577

Re: Well Destruction Letter Former Estate of John B. Henry Property 1726 Park Street at Eagle Avenue Alameda, California

Dear Ms. Chu:

This letter has been prepared by Pacific Environmental Group, Inc. (PACIFIC) to document the abandonment of three groundwater monitoring wells (MW-5, MW-8, and MW-9) at the site reference above (Figures 1 and 2). The work was performed on October 8, 1996 by PACIFIC to complete all site activities regarding the remediation of soil and groundwater beneath the site. The work was performed in response to the Alameda County Health Care Services (ACHCS) letter Well Decommission at 1726 Park Street, Alameda, CA dated August 26, 1996.

The scope of work included the abandonment of groundwater Monitoring Wells MW-5, MW-8, and MW-9 by pressure grouting. Prior to abandonment, the wells were sounded to ensure no obstructions were present. The well was then backfilled to the surface, by tremming the cement grout from the bottom of the well casing to displace the groundwater. The existing well casings, screen, and filter-pack were then abandoned in place by the placement of neat cement grout under pressure up to approximately 2 feet below ground surface. The well boxes, along with the upper 1 to 2 feet of grout seal were filled with concrete to ground surface. Only California-licensed drilling contractors staffed with 40-hour OSHA trained employees were used for drilling operations.

A well destruction permit number 96701 was obtained prior to field work from the Alameda County Zone 7 Water Agency upon approval to destroy the wells from the ACHCS. Well destruction permit, boring logs, and the ACHCS letter referenced above are presented in Attachment A.

Should you have any questions regarding these site activities, please do not hesitate to call.

Sincerely,

Pacific Environmental Group, Inc.

Douglas J.F. Andrews

Senior Staff Geologist

Project Engineer

Attachments:

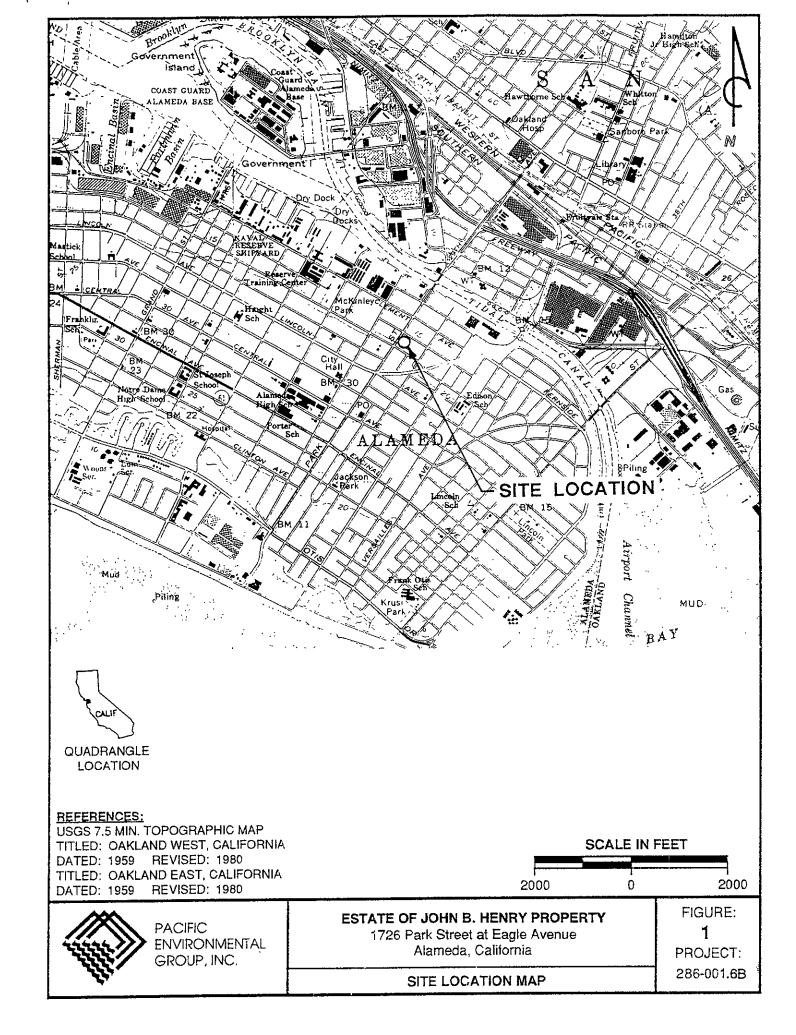
Figure 1 - Site Location Map

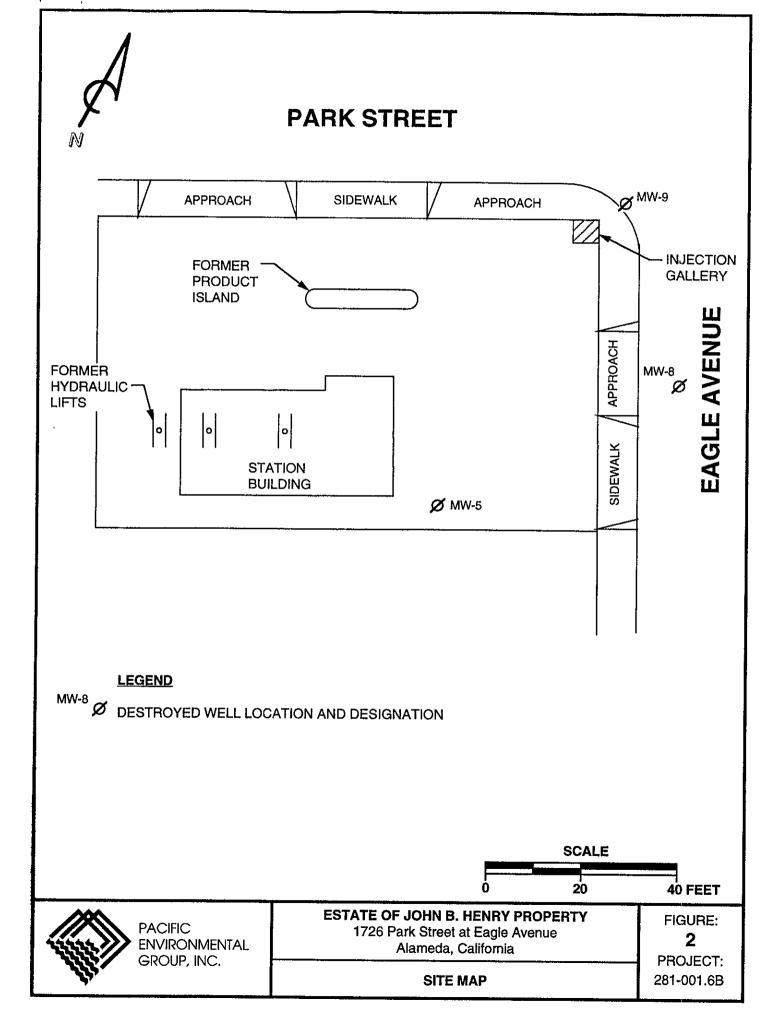
Figure 2 - Site Map

Attachment A - Monitoring Well Destruction Permit, Boring Logs, and ACHCS Letter

Ms. Elsie Matsuno, Mendelson and Brown

Mr. Craig A. Mayfield, Alameda County Zone 7 Water Agency





ATTACHMENT A

MONITORING WELL DESTRUCTION PERMIT, BORING LOGS, AND ACHCS LETTER



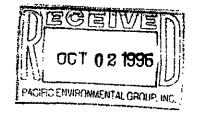
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588-5127

PHONE (510) 484-2600 FAX (510) 462-3914

October 1, 1996



Ms. Suzanne McClurkin-Nelson Pacific Environmental 2025 Gateway Place, Suite 440 San Jose, CA 95110

Dear Ms. McClurkin-Nelson:

Enclosed is drilling permit 96701 for the destruction of well 2S/3W 7L80 to 7L82 at 1726 Park Street in Alameda.

Please note that permit condition A-2 requires that a well destruction report be submitted after completion of the work. The report should include a description of methods and materials used to destroy the well, location sketch, date of destruction, and permit number. 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 Wyman Hong at extension 235 or me at extension 240.

Very truly yours,

Craig A. Mayfield

Water Resources Engineer III

Craig a. Mary

CM:ab Enc.

286-001.30



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ZONE WATER AGENCY

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600 FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT 1726 PARK ST. @ EAGLE ALAMEDA, CALIFORNIA	PERMIT NUMBER 96701 LOCATION NUMBER 25/3W 7L80 to 7L82
CLIENT Name FSTATE OF JOHN B. HENRY CONENDER Address LOUG MARINA VILLAGEOICE (510) 521-1211 CITY SUITE B MARINA, CA ZIP APPLICANT	Serve Sazero PERMIT CONDITIONS Circled Permit Requirements Apply
Name PACIFIC ENVIRONNENTAL GROUP, INC. Fax (408) 441-9102 Address 2025 (ATTEMPY FL. #446 Voice (408) 441-7500 City SAN JOSE , C2 Zip 95110 TYPE OF PROJECT	A. GENERAL A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date. 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
Well Construction Gathodic Protection Water Supply Monitoring General Well Destruction General Well Destruction General Well Destruction General Well Destruction General Monitoring Well Destruction General Genera	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 group placed by tremie.
Municipal Irrigation Other DRILLING METHOD:	 Minimum seal depth is 50 feet for municipal and industrial well 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.
Mud Rotary Air Rotary Auger X' Cable Other DRILLER'S LICENSE NO. C.57 - 677-617	C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bantonite and upper two feet with compacted material. In areas of known or suspected contamination, tremled cement grout shall be used in place of compacted cuttings.
WELL PROJECTS (well distruction - Pressure a rout) Drill Hole Diameter 8 in. Maximum Casing Diameter 2 in. Depth 19 ft. Surface Seal Don'th	D. CATHODIC. Fill hole above anode zone with concrete placed by tremle. E. WELL DESTRUCTION. See attached.
GEOTECHNICAL PROJECTS Number of Borings Maximum Hole Diameter in. Depth ft.	
ESTIMATED STARTING DATE 9/30/96 ESTIMATED COMPLETION DATE 9/30/96 hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.	Approved Wyman Hong Date 27 Sep S

91992

27 September 1996

ZONE 7 WATER RESOURCES ENGINEERING GROUNDWATER PROTECTION ORDINANCE

ESTATE OF JOHN B. HENRY 1726 PARK STREET ALAMEDA WELLS 25/3W 7L80 TO 7L82 PERMIT 96701

<u>Destruction Requirements:</u>

OUT- 4-96 FRI 9:51

- 1. Clean out all bridged or poorly compacted materials to the bottom of the well.
- 2. Pressure grout the casing to 2 feet below finished grade or original ground, whichever is the lower elevation.
- 3. Remove casing, seal and gravel pack to 2 feet below finished grade or original ground, whichever is the lower elevation.
- 4. After the seal has set, backfill the remaining hole with compacted material.

These destruction requirements as proposed by Suzanne McClurkin-Nelson of Pacific Environmental meet or exceed Zone 7 minimum requirements.

WELL LOG KEY TO ABBREVIATIONS

Drilling Method

Gravel Pack

HSA - Hollow stem auger

CA - Coarse aquarium sand

CFA - Continous flight auger Air - Reverse air circulation

Sampling Method

Cal. Mod. - California modified split-spoon sampler (2" inner diameter) driven 18" by a

140-pound hammer having a 30" drop. Where penetration resistance is

designated "P", sampler was instead pushed by drill rig. Disturbed - Sample taken from drill-return materials as they surfaced.

Shelby - Shelby Tube thin-walled sampler (3" diameter), where sampler is pushed by drill-rig.

Moisture Content	Sorting	<u>Plasticity</u>	<u> </u>	H-NU (ppm)
Dry - Dry	PS - Poorly sorted	L - Low		ND - No detection
Dp - Damp	MS - Moderately sorted	M - Moderate		115 116 461661011
Mst - Moist	WS - Well sorted	H - High		
Wt -Wet		•		
Sat - Saturated			<u> </u>	Sample Preserved for Laboratory Testing
Symbols	•	_		, , , , , , , , , , , , , , , , , , ,
	sampieo	sample		
Static ground water	(∟			
Density (Blows/Foot -	<u>Cal Mod Sampler)</u>			
Sands and gravels		Silts and Clays		
0 - 5 - Very Lo	ose	0-2	- Very Soft	
5 - 13 - Loose		2-4	- Soft	
13 - 38 - Medium	dense	4-9	-Firm	
38 - 63 - Dense		9-17	- Stiff	
over 63 - Very de	nse	17 - 37	- Very Stiff	
		37 - 72	- Hard	
		over 72	- Very Hard	
•	GRAIN - SIZE SO	CALE	-	

GRADE LIMITS U.S. Standard

GRADE NAME

inch sieve size			·
12.0		Boulders	
3.0 3.0 in		Cobbles	
0.19 No. 4		Gravels	
0.08 No. 10	coarse		
No. 40	medium	Sand	
————— No. 200 ———	fine		
		Silt	
		Clay Size	~

Primary	Divisions	Syı		oup /Graj	ohic Typical Names
COARSE GRAINED SOILS	GRAINED		GW	000	Well graded gravels, gravel-sand mixtures; little or no fines
more than	(less than 5% fines)	GP	0000	Poorly graded gravels or gravel-sand mixtures; little or no fines	
than #200 sieve	#4 sieve	GRAVEL WITH	GM	0000	Silty gravels, gravel-sand-silt mixtures
		FINES	GC		Clayey gravels, gravel-sand-clay mixtures
	SANDS half of	CLEAN SANDS	sw		Well graded sands, gravelly sands, little or no fines
coarse fraction smaller	coarse fraction smaller	(less than 5% fines)	SP		Poorly graded sands or gravelly sands; little or no fines
	than #4 sieve	SANDS WITH	SM		Silty sands, sand-silt mixtures
		FINES	sc		Clayey sands, sand-clay mixtures, plastic fines
FINE GRAINED SOILS	GRAINED		ML		Inorganic silts and very fine sand, rock flour, silty or clayey fine sands or clayey silts, with slight plasticity
liquid limit less than 50% more than half is smaller than		CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
		OL		Organic silts and organic silty clays of low plasticity	
#200 sieve SILTS AND CLAYS liquid limit more than 50%		МН		Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	
			СН		Inorganic clays of high plasticity, fat clays
			ОН		Organic clays of medium to high plasticity, organic silts
HIGHL	HIGHLY ORGANIC SOILS		Pt		Peat and other highly organic soils



Unified Soil Classification System

