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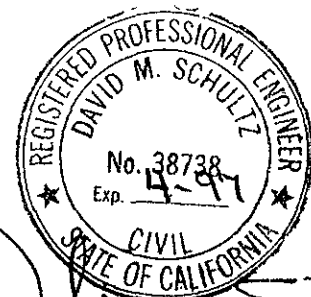
January 19, 1994

PROJECT REPORT
OVEREXCAVATION AND OFFHAUL
ACTIVITIES
ASE JOB NO. 2607

Former Alameda Max's
1357 High Street
Alameda, California

Submitted by:

Aqua Science Engineers
2411 Old Crow Canyon Road, #4
San Ramon, California 94583
(510) 820-9391





January 19, 1994

Alameda County Health Care Services Agency
80 Swan Way, Room 350
Oakland, CA 94621

ATTENTION: Ms. Juliet Shin

SUBJECT: Overexcavation Activities
Former Alameda Max's Property
1357 High Street
Alameda, CA 94501

1.0 INTRODUCTION

In response to your May 12, 1993 letter which required overexcavation activities to be performed at the subject site, please accept this report as the methods and findings of Aqua Science Engineers', Inc. (ASE) field activities which took place on November 22, 1993.

2.0 OVEREXCAVATION

On November 22, 1993 ASE mobilized onto the subject site to perform overexcavation of the former waste-oil tank pit and to remove the stockpiles that were generated during tank removal operations, which were subsequently backfilled into their respective tank pits.

A total of approximately 88 tons of waste-oil and gasoline-contaminated soil was overexcavated and removed from the site on November 22, 1993. The material that was removed from the site was primarily from the overexcavation of the former waste-oil pit (Figure 1); the remainder of the offhauled material was made up of the former stockpiles that were used as backfill material during the UST removal. The use of drawings and notes generated during the UST removal operations enabled ASE to overexcavate the proper areas where soil contamination existed.

3.0 OFFHAUL AND RECYCLING

The overexcavated material was pre-approved for disposal at the Port Costa Materials facility in Port Costa, California. Therefore, upon completion of overexcavation activities, the material was loaded onto 4 trucks, carrying the proper manifests, and was hauled to the Port Costa Facility where it was remediated/recycled.

4.0 SOIL SAMPLING AND CHEMICAL ANALYSES

Prior to backfilling the excavations, a soil sample (OEX-A) was collected from the bottom/sidewall of the waste-oil overexcavation limits. The soil sample was collected in a pre-cleaned brass sample tube, covered on both ends with Teflon tape, end caps and duct tape. The sample was then labeled and placed in an ice chest for cool storage until delivery to Geochem Environmental Laboratories under chain of custody. The soil sample was collected from the native material approximately 5.5 feet below ground surface and approximately 3 feet in from the edge of the driveway of the neighboring property (Figure 1). The soil sample was analyzed for total petroleum hydrocarbons as gasoline (TPH-G) by EPA method 8015M, for TPH as diesel by EPA method 8015M, for total oil and grease by EPA method 5520 F, and for BTEX by EPA method 8020. Analyses for VOC's, total lead, CAM17 Metals, and Acid & Base/Neutral Extractables were not conducted due to the low levels of these contaminants found in the original soil samples. Table One below shows the results of the analyses on the soil sample; see Appendix A for a copy of the analytical data. ✓

TABLE ONE
Summary of Chemical Analyses of
SOIL SAMPLES

TPH Sample I.D.	TPH Gasoline (ppm)	TPH Diesel (ppm)	Total O&G (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl Benzene (ppm)	Total Xylenes (ppm)
----- OEX-A	<1	<1	2	<0.1	<0.1	<0.1	<0.1
EPA METHOD	8015M	8015M	5520F	8020	8020	8020	8020

ppm parts per million

5.0 BACKFILLING

The excavations and entire site was backfilled and compacted to original grade with clean, imported material.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The elevated levels of oil and grease that previously existed in the area of the former waste-oil tank appear to have been removed from the site. Equally, the former contaminated stockpiles generated during the UST removal operations have been removed from the site. The contaminated material was remediated/recycled by the Port Costa Materials facility in Port Costa, CA.

The installation of 3 groundwater monitoring wells is recommended to investigate for the presence of petroleum hydrocarbons in the shallow groundwater previously identified at the site.

7.0 REPORT LIMITATIONS

The results of this investigation represent conditions at the time and specific location at which soil samples were collected, and for the specific parameters analyzed for by the laboratory. It does not fully characterize the site for contamination resulting from unknown sources, or for parameters not analyzed for by the laboratory. All of the laboratory work cited in this report was prepared under the direction of independent CSDHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

ASE appreciates having the opportunity to provide our services to you. If you have any questions or comments, please feel free to call us at (510) 820-9391.

Respectfully submitted,

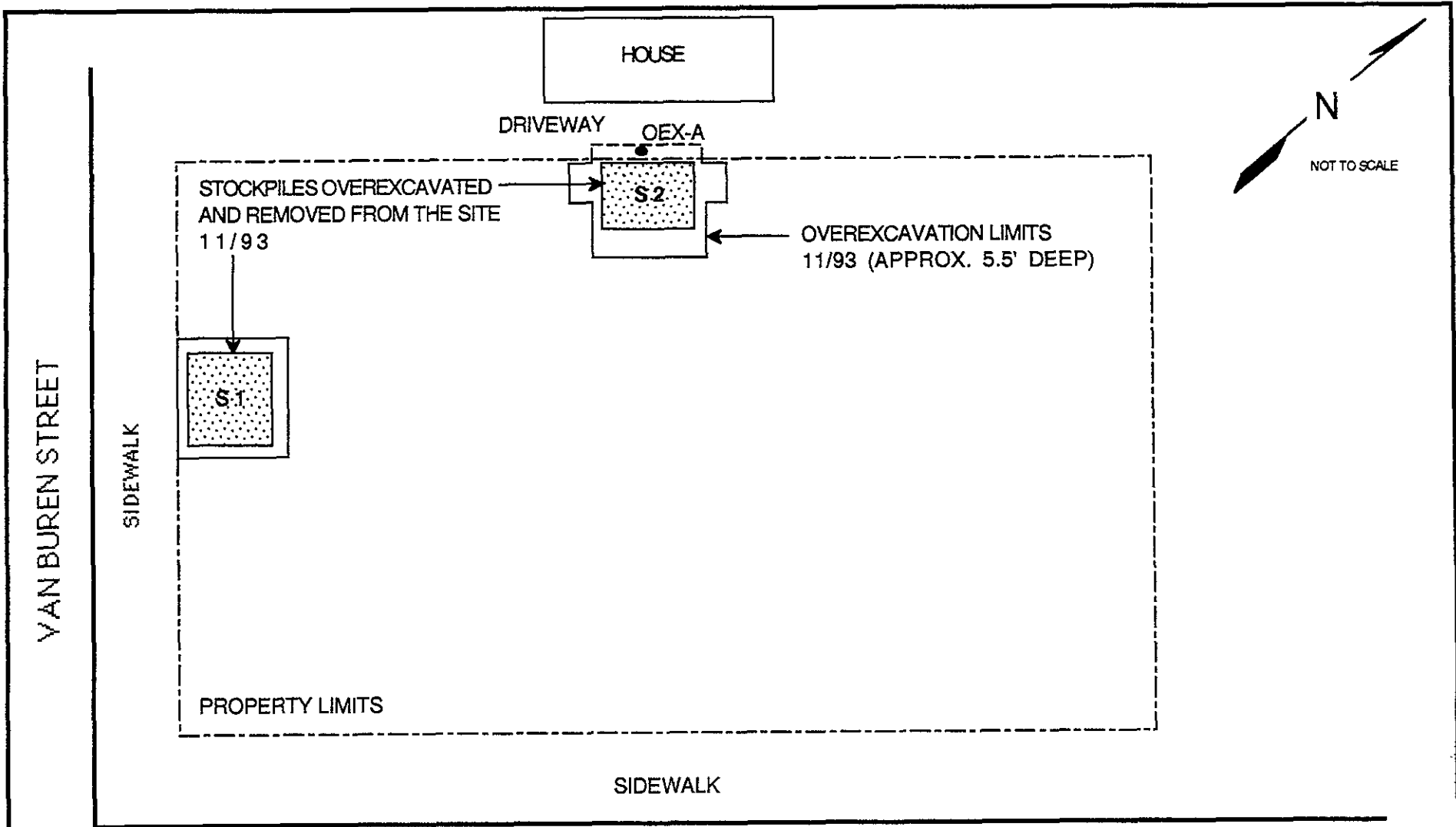
AQUA SCIENCE ENGINEERS, INC.



A handwritten signature in cursive script that reads "David Allen". The signature is written in black ink and is positioned above the printed name and title.

David Allen
Project Manager

Enclosures: Figure 1 - Site Plan
 Appendix A

cc: Mr. James A. Phillipsen, Property Owner
 Mr. Rich Hiatt, RWQCB - San Francisco Bay Region



LEGEND	
	PREVIOUSLY STOCKPILED SOIL GENERATED DURING UST REMOVAL, WHICH WAS SUBSEQUENTLY USED AS TEMPORARY BACKFILL
OEX-A 	SOIL SAMPLE LOCATION COLLECTED AFTER OVEREXCAVATION ACTIVITIES CONDUCTED ON 11/93

SITE PLAN	
Former Alameda Max's 1357 High Street Alameda, California	
Aqua Science Engineers	Figure 1

APPENDIX A

**CAL-EPA Certified
Analytical Results**



Geochem ENVIRONMENTAL LABORATORIES

Mobile & In-House Laboratories Certified by State of California

Phone: (408) 955-9988 / FAX: (408) 955-9538

ANALYTICAL REPORT

Page: 1 of 1

Client: Aqua Science Engineers, Inc.
2411 Old Crow Canyon Rd., #4
San Ramon, CA 94583
Attn: D. Allen

Date Sampled: 11/22/93
Date Received: 11/24/93
Date Analyzed: 12/04/93
Batch:SD-331 Matrix: Soil
Conc. Unit mg/kg (ppm)

Project: Phillipsen (Proj.#2607)

"ND" means "not detected" at indicated detection limit.
B:benzene, T:toluene, E:ethylbenzene & X:total xylenes.
Samples recieved chilled with a chain of custody record.

SAMPLE I.D.	TOG	8015M/TPH	8015M/TPH	8020	B	T	E	X
5520F	Diesel	Gasoline						

DETECTION

LIMIT	1 ppm	1.0 ppm	1.0 ppm	0.1 ppm				
OEX-A	2	ND	ND	ND	/	ND	/	ND / ND

Reviewed and approved by

George Tsai, DEC. 06, 1993
George Tsai, Laboratory Director

Aqua Science Engineers, Inc.
 2411 Old Crow Canyon Road, #4,
 San Ramon, CA 94583
 (510) 820-9391 - FAX (510) 837-4853

Chain of Custody

DATE 11-24-93 PAGE 1 OF 1

SAMPLERS (SIGNATURE) D. Allen (PHONE NO) 510-820-9391 PROJECT NAME PHILLIPSEN NO. 2607
 ADDRESS 1357 H/64 STREET, ALAMEDA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

SAMPLE ID	DATE	TIME	MATRIX	NO OF SAMPLES	TPH GASOLINE (EPA 5030/9015)	TPH GASOLINE/BTEX (EPA 5030/9015-8020)	TPH DIESEL (EPA 3510/8015)	PURGABLE AROMATICS (EPA 602/C10)	PURGABLE HALOCARBOHS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/R240)	BASE/NEUTRALS, ACIDS (EPA 625-8270)	OIL & GREASE (EPA 5520 P&F or R&F)	HEAVY METALS (5) (EPA 6010-7000)	TITLE 22 (CAM 17) (EPA 6010-7000)	TCLP (EPA 1311/1310)	STLC-CAM WET (EPA 1311/1310)	REACTIVITY CORROSIVITY IGNITABILITY
					0EX-A	11/22	13:05	SOIL	1		X	X					X

RELINQUISHED BY <u>D. Allen</u> (signature)	RECEIVED BY <u>AMELIA Z GARZA</u> (signature)	RELINQUISHED BY	RECEIVED BY LABORATORY	COMMENTS <u>REGULAR TURNAROUND TIME.</u>
10:20 (time)	11-24-93 (time)	(signature)	(signature)	
D. ALLEN (printed name)	AMELIA Z GARZA (printed name)	(printed name)	(printed name)	
Company- ASE, Inc.	Company- <u>Geochem</u>	Company-	Company-	