

March 10, 2000

**Excavation and Removal of  
PCB-Impacted Soils at the Cistern Area  
Former Westinghouse Electric Facility  
5815 Peladeau Street  
Emeryville, California**

**INTRODUCTION**

This report has been prepared by SOMA Environmental Engineering, Inc. (SOMA) on behalf of CBS Corporation (CBS) the former owner of the subject property. Based on the February 16, 2000 letter of Ms. Susan Hugo of Alameda County Health Care Services (ACHCS), this report summarizes the procedure for excavation and disposal of PCB-impacted soils and cistern found at the site.

The site is the former Westinghouse Electric Corporation facility located at 5815 Peladeau Street in Emeryville, California, (the "Site"). On November 19, 1999 Mr. Gordon Taylor of CBS Corporation (CBS) informed SOMA about a discovery of an abandoned cistern at the Site. Apparently, WEBCOR Builders' construction crew discovered the cistern during construction activities at the northeast parking lot area. Figure-1 shows the location of the discovered cistern. February 7, 2000 report by SOMA summarizes the field activities and characterization of the PCB-impacted soils beneath the cistern. This report describes the field activities associated with the removal of PCB-impacted soils and cistern and the results of subsequent laboratory analysis on soil samples collected from the bottom of the excavation pit.

**Field Investigation**

On March 1, 2000, DJK Construction, a subcontractor of SOMA removed PCB-impacted soils and cistern itself and transported to a TSCA facility in Kettleman Hill, California. SOMA's Senior Field Engineer and Susan Hugo of ACHCS supervised the field activity and removal processes. Based on SOMA's proposed soil remediation plan dated February 2000, DJK removed PCB-impacted soils up to a 2 foot depth. Figure-2 shows the location of the soil excavation. A total of 23 tons of PCB-impacted soils were removed and transported to the TSCA facility. Appendix A shows the photographs taken during soil removal activities and the soil disposal manifest.

Subsequently, after removal of the PCB-impacted soils to a depth of 2-feet below the grade, four confirmatory soil samples were collected. The soil samples were placed in a cooler and delivered to Delta Environmental Laboratories for PCB

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**SOMA Environmental Engineering, Inc.**

analysis using EPA Method 8080. The excavated area was filled with clean fill material and compacted by DJK Construction field crew and returned to the original grade.

### Results of Laboratory Analysis

The results of laboratory analysis have been presented in Table-1. As Table-1 shows PCBs in the form of Arochlor 1260 were detected at four soil samples collected beneath the excavation pit. As Table-1 shows, the PCB concentration ranges between 2.4 ppm and 45 ppm. Appendix B shows the laboratory report and chain of custody forms. Based on the human health risk assessment results, (SOMA, 1996), only the top two feet of the surficial soils was supposed to be remediated in order to protect human health. Below the 2-foot depth, due to the low PCB levels and lack of exposure pathways, no remediation is warranted.

Table-1

### Results Laboratory Analysis

Sample ID	Sample Depth Ft.	Detection Limit mg/kg	PCB 1260 mg/kg
SB-1	2.5	.02	45
SB-2	2.5	.02	12
SB-3	2.5	.02	31
SB-4	2.5	.02	2.4

# FIGURES

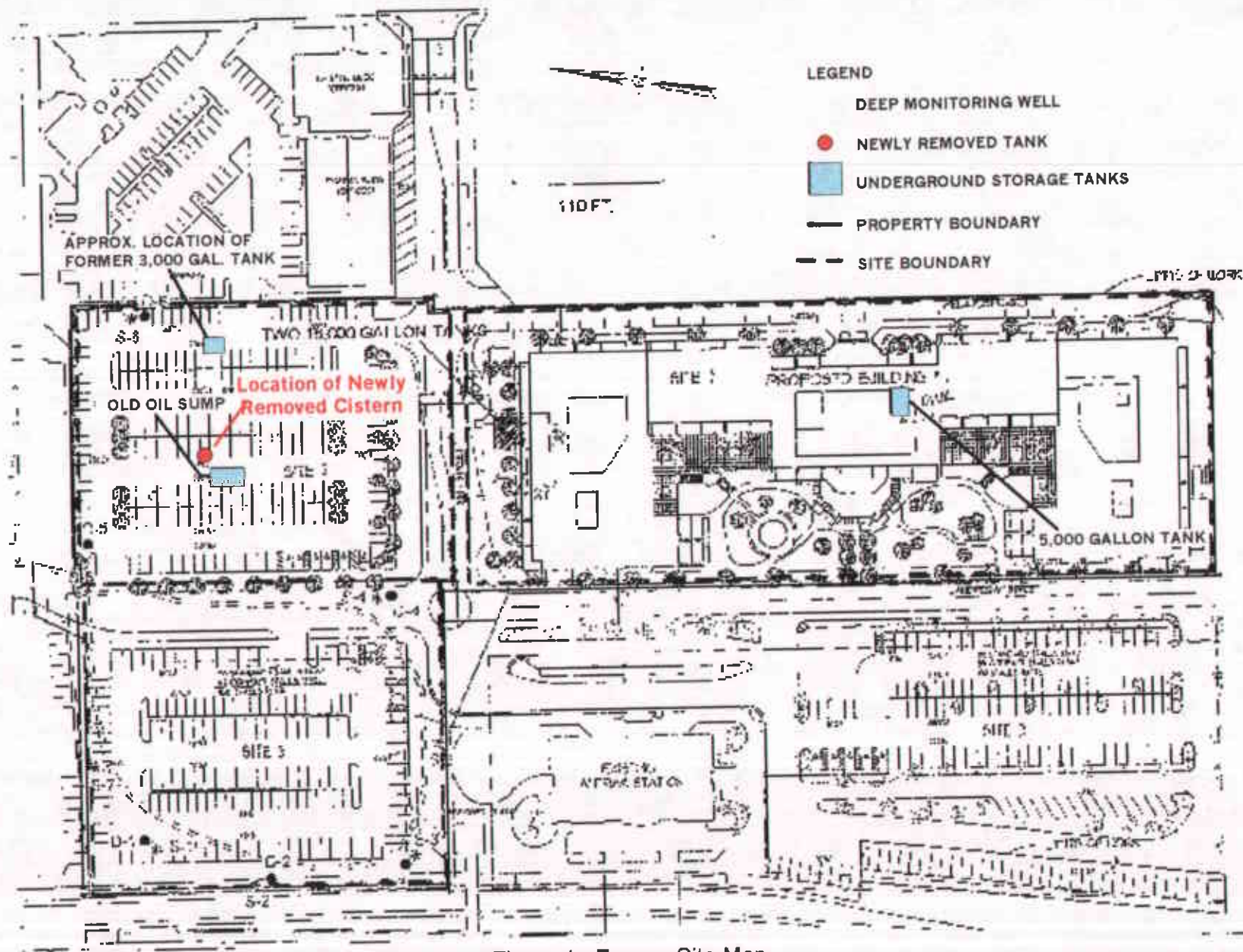
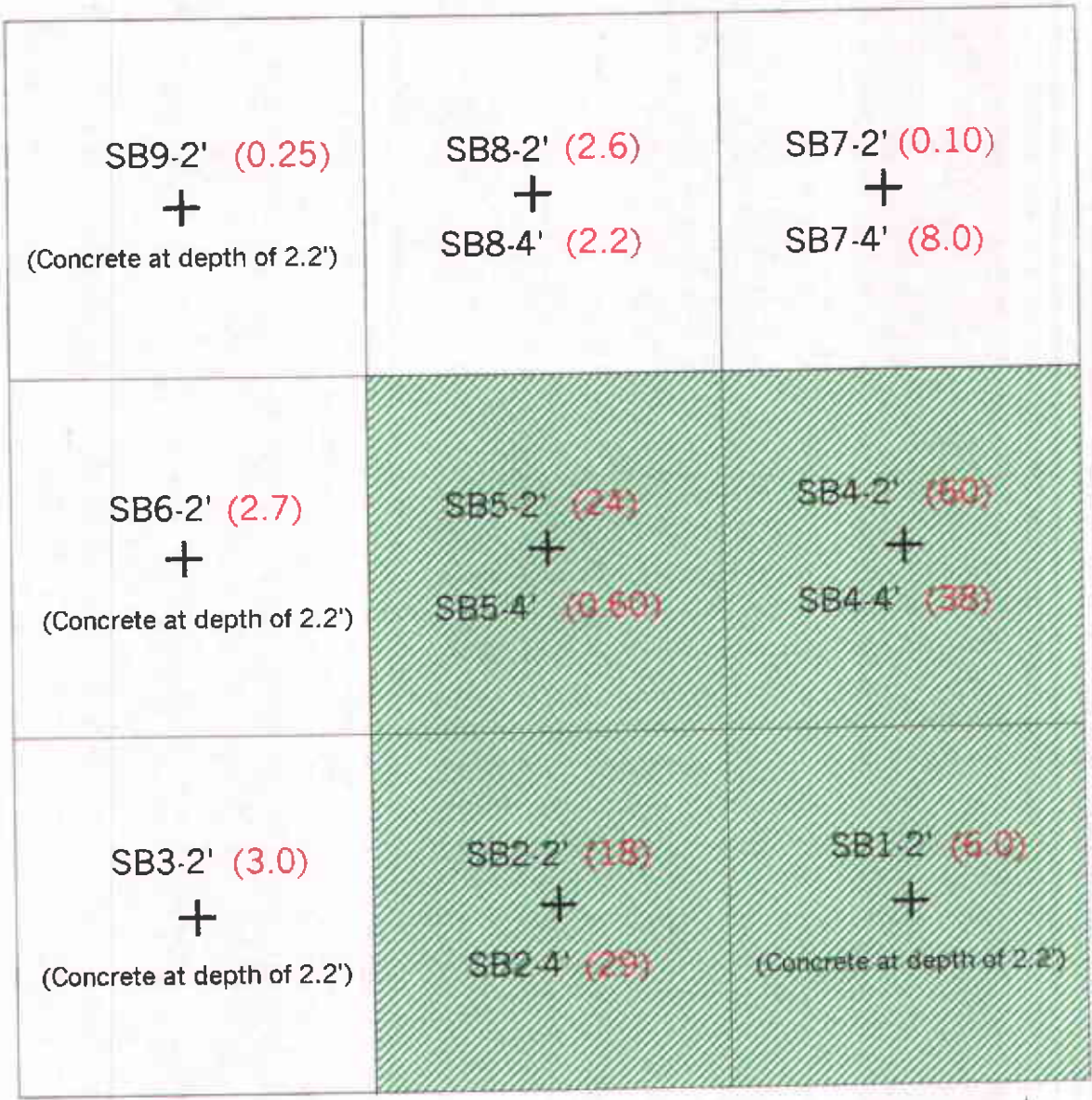




Figure 1: Former Site Map



 Sample location  
 (ppm of PCB as 1260)

 Area of Soil Excavated  
 to 2' Depth

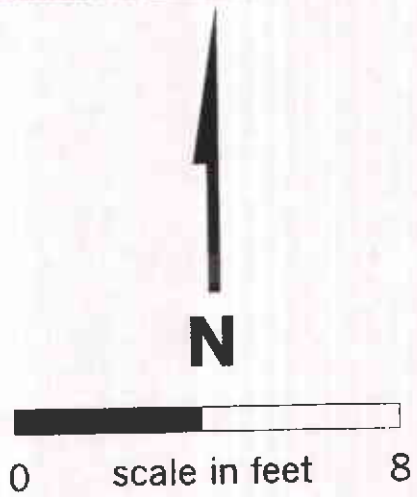


Figure 2: Area of Soil Excavation

# **APPENDIX A**

**Photographs Taken During Soil Removal  
Activities and Waste Manifest**



A1



A2



A3



A4





A5



A6

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA, CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law
3. Generator's Name and Mailing Address: CAS CORP 5399 PELADUELL ST EMERYVILLE, CA 94608-2002		C A 7 0 8 1 0 3 2 1 1 3		A. State Manifest Document Number 99670802	
4. Generator's Phone (925) 244-6600		5. Transporter 1 Company Name LUTRELL TRUCK SERVICES, CA		B. State Generator's ID	
6. US EPA ID Number		7. Transporter 2 Company Name		C. State Transporter's ID (Reserved)	
8. US EPA ID Number		8. US EPA ID Number C A 6 0 8 3 0 0 3 0 0 1 1		D. Transporter's Phone 800 839 7550	
9. Designated Facility Name and Site Address: CHEMICAL WASTE MANAGEMENT, INC 33251 OLD SKYLINE ROAD KETTLEMAN CITY, CA 93239		10. US EPA ID Number C A 7 0 0 0 6 4 6 1 1 7		E. State Transporter's ID (Reserved)	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) a. RG. ENVIRONMENTALLY HAZARDOUS SUBSTANCES SOLID, N.O.S., 9, UN3077, TII, (POB's)		12. Containers No. Type		13. Total Quantity	
		0010T000184		14. Unit Wt/Vol	
				1. Waste Number State 261.611 EPA/Other	
15. Special Handling Instructions and Additional Information  LG7/SP56253		K. Handling Codes for Wastes Listed Above 03		b.	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.		Printed/Typed Name NASER PAKROU		Signature 	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name J. REAGHER		Signature 	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature	
19. Discrepancy Indication Space		20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19		Printed/Typed Name V. Schwindt	
				Signature V. Schwindt	
				Month Day Year 03 01 00	

DO NOT WRITE BELOW THIS LINE.

03/14/00 17:53:47

Date Received	Manifest Number	Profile Number	Gross Weight	Tare Weight	Net Weight	NET TONS	Doc Gen Name
03/01/00	0099670802	EA0107	79060.00	30620.00	48440.00	24.22	CBS CORP

Total Docs for EA0107 03/01/00:  
TOTAL  
COUNT 1 48440.00

Total Documents:  
TOTAL  
COUNT 1 48440.00

\*\*\* END OF REPORT \*\*\*

# **APPENDIX B**

## **Laboratory Analytical Reports and Chain of Custody Forms**

WATER • WASTE WATER • HAZARDOUS WASTE • FUEL • AIR • SOIL


**DELTA** 

ENVIRONMENTAL LABORATORIES, LI

**Client:**Soma Environmental Eng. Inc  
2680 Bishop Dr., Suite 203  
San Ramon, CA 94583**Client Project ID:**  
CBS Cistern Location  
2177**Ref.:** R4830\_pcb  
**Method:** 8080  
**Sampled:** 3/1/00  
**Received:** 3/2/00  
**Matrix:** Soil  
**Analyzed:** 3/8/00  
**Reported:** 3/9/00  
**Units:** mg/kg**Attention:** Dr. Sepehr

Analytical Results for PCBs		
Sample ID	Detection Limit mg/kg	Analyte
		PCB 1260 mg/kg
SB1-2.5'	0.02	45
SB2-2.5'	0.08	12
SB4-2.5'	0.02	31
SB5-2.5'	0.02	2.4

ND: Not Detected

  
 Delta Environmental Laboratories  
 Hossein Khosh Khoo, Ph.D.

# Delta Environmental Laboratories



Chain of Custody (COC) Form

685 Stone Road #11 & 12

San Jose, Ca. 95110

(707) 747-6081, 800-747-6082 FAX (707) 747-6082

Project Name Proj 2177

Results to: SOMA - NASEA  
 Client Name: SOMA  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_  
 Telephone: 925 244 6600 Fax: 925 244 6601  
 Sampler (signature): \_\_\_\_\_  
 Turnaround Time: 8 Standard

Analysis Requested

No. of containers	
pH	
Temperature	<u>PCBS - 1260</u>

CBS. Cistern

LAB ID location

Ref # \_\_\_\_\_

**4830**

Special Instructions:

#	Sample ID	Date	Time	Matrix	Comments
1	<u>SB1-2.5'</u>	<u>3/1/00</u>	<u>10</u>	<u>Soil</u>	<u>✓</u>
2	<u>SB2-2.5'</u>	<u>3/1/00</u>	<u>"</u>	<u>"</u>	<u>✓</u>
3	<u>SB4-2.5'</u>	<u>3/1/00</u>	<u>"</u>	<u>"</u>	<u>✓</u>
4	<u>SB5-2.5'</u>	<u>3/1/00</u>	<u>"</u>	<u>"</u>	<u>✓</u>

Released by: [Signature] Date: 3/2/00  
 Received by: Lisa Purvis Date: 3/2/00

- Have all samples received been stored on ice? \_\_\_\_\_
- Did any VCA samples received have any head space? \_\_\_\_\_
- Were samples in appropriate containers and packaged properly? \_\_\_\_\_

03/09/00 THU 18:09 FAX 17077476082 D-E-L-T-A 003