Results of Off-Site Investigation Report At Former Westinghouse Facility Located 5815 Peladeau Street Emeryville, California

Project 98-2172

August 4, 1998

Prepared for
CBS Corporation
11 Stanwix Street
Pittsburgh, Pennsylvania

Prepared by

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EXECUTIVE SUMMARY

This Report has been prepared by SOMA Environmental Engineering, Inc. on behalf of CBS Corporation. The project site is the former Westinghouse Electric Corporation facility located at 5815 Peladeau Street, Emeryville, California (the "Site"), see Figure 1. The purpose of this report is to evaluate the impact of the previous on-site activities by Westinghouse on the adjacent properties, if any. In addition, the off-site investigations were conducted to evaluate the source of on-site petroleum hydrocarbon concentration detected at the southwestern corner of the property.

The results of off-site investigation at the northern end of the property within Heritage Square and the U.S. Postal Service of Emeryville indicated that concentration of PCBs as Aroclor 1260 are below the recommended human health risk levels for intended site's future land use type. The results of laboratory analysis on soil samples collected from two soil borings at the southeastern corner of the Parcel I, did not establish the source of petroleum hydrocarbons discovered at this location.

1.0 INTRODUCTION

SOMA Environmental Engineering, Inc. (SOMA) has prepared this report on behalf of CBS Corporation. The project site is the former Westinghouse facility located at 5815 Peladeau Street, Emeryville, California (the "Property"), see Figure 1. This report presents the results of the soil and groundwater investigation at off-site areas located immediately north and south of the former Westinghouse facility.

The investigation at the two adjacent properties known as Heritage Square and U.S. Postal Services of Emeryville was conducted to evaluate the potential impact of former Westinghouse facility operations on these properties located immediately north of the Property. Another investigation was conducted to define the potential source of elevated petroleum hydrocarbon concentrations detected at the southwestern corner of the Property.

1.1 Background

In 1996, SOMA conducted a baseline human health risk assessment (HHRA) to address the adverse health effects of residual chemicals found in soil and groundwater on current and future site workers (SOMA, 1996). Based on the results of the risk assessment study, PCB impacted soils at the northern part of the Property (now known as Parcel 4) adjacent to the Heritage Square property were above acceptable levels for the proposed use of at the subject Property. Based on the recommendation of the human health risk assessment, CBS Corporation retained Alta Geosciences to remove PCB impacted soils in the summer of 1996.

Remediation criteria for the August, 1996 Soil Remediation were determined from the HHRA report as:

1. 0.5 ppm PCBs from the ground surface to a depth of 2 feet (residential criteria).
2. 59.3 ppm PCBs from a depth of 2 feet to a depth of 4 feet (site utility worker criteria).

Below a depth of 4 feet, the adverse risks to human health were not considered significant and no remediation was required. At the direction of CBS Corporation, the remediation goal of 50.0 ppm was set for the soils between a depth of 2 to 4 feet bgs to ensure that all soils in the upper 4 feet, which exceeded remediation criteria, were excavated and disposed of.

The soil remediation was performed in August and September 1996. As described in the Completion Report by Alta Geosciences, remediation goals were met throughout the excavation bottom, either by excavation until confirmation sampling indicated that the excavation bottom was less than the remediation criteria, or by excavation to at least 4 feet bgs.

Confirmation soil samples were collected from the North, East and West walls of the excavation. The west wall of the excavation borders the TSCA containment cell and therefore the sidewall confirmation test results for the west wall were not further evaluated. The sidewall sample results from the North and East walls are discussed below.

1.1.1 East boundary

Sidewall soil confirmation samples along the eastern boundary of what is now known as Parcel 4 were taken at a depth of 1.0 feet bgs (see Completion Report, Table 3-3). The nine soil sample results ranged from non-detect (less than 0.5 ppm PCBs, 6 samples) to a maximum of 8.2 ppm PCBs. Based on the approved workplan by the Regional water Quality Control Board, dated April 23, 1998 no further subsurface sampling east of the eastern boundary was conducted.

1.1.2 North Boundary

Twenty-two sidewall samples were taken from the north sidewall of the excavation, all from a depth of 2 feet. Sample results ranged from not detectable (less than 0.5 ppm PCBs) to 93 ppm. Mean value of the north boundary sidewall sample results was 16 ppm (using 0.25 ppm for non-detect samples. It should be noted that fourteen out of the 22 excavation bottom samples contained less than 0.7 ppm PCBs, and only four samples exceeded 10 ppm PCBs (Alta Geosciences 1996).

2.0 SCOPE OF WORK

The objective of this investigation was to evaluate the horizontal and vertical extent of the potential PCB impacts, if any in the off-site areas located immediately to the Property's northern boundary. Additional investigation was also conducted to evaluate the potential off-site source(s) of the petroleum hydrocarbons detected at the southeastern corner of the Property, what is now called Parcel I.

3.0 FIELD INVESTIGATION

Field activities were conducted based on approved work plan by the Regional Water Quality Control Board (RWQCB) and Alameda County Department of Environmental Health (ACDEH).

On June 23, 1998 at the request of Wareham Development, the future owner of the former Westinghouse facility, two composite soil samples and one groundwater samples were collected from Heritage Square. The samples were collected from an open pit within the parking lot immediately north of the former Westinghouse facility. The samples were analyzed for PCBs and total petroleum hydrocarbons using USEPA Methods of 8080 and 8015 Modified.

On June 28, 1998 according to approved work plan SOMA drilled eight soil borings along the outside of the Property's northern boundary. SOMA drilled four soil borings in the Heritage Square property and another four borings in the U.S. Postal Services property. Figure 2 shows the location of off-site soil borings. Soil borings were drilled by hollow stem auger to a maximum depth of 5 feet and soil samples were collected at 0.5 foot and 4 feet below ground surface (bgs). The samples were analyzed for PCBs using USEPA Method of 8080.

On July 10, 1998 two discrete confirmatory soil samples were collected at 2 and 4 feet bgs around the open pit in Heritage Square. The soil samples were submitted to Priority Laboratory of Santa Clara for analysis using USEPA Method of 8080.

In 1993, EMCON and Associates (EMCON) conducted extensive site investigation to evaluate the nature and extent of soil contamination beneath the Property. SOMA used the results of this investigation to conduct a baseline human health risk assessment. Based on the EMCON site investigation data elevated levels of petroleum hydrocarbon were detected at the southeast corner of the Property. Currently, a Unocal 76 gas station is operating on upgradient area directly east of soil sampling locations where elevated levels of petroleum chemicals were detected.

In order to evaluate the possible source(s) of petroleum hydrocarbons at this area two soil borings were drilled between the Unocal 76 service station and the Parcel I of the Property. On July 21, 1998 SB-9 was drilled to a depth of 20 feet bgs at the western corner of intersection of Peladeau Street and Powell Street. SB-10 was drilled at the eastern corner of the Peladeau Street and Powell Street adjacent to the Unocal 76 service station. The soil samples were collected at 5-foot intervals and submitted to the Priority Laboratories for analysis using USEPA Methods of 5030 and 8015 modified.

4.0 RESULTS

The results off-site investigation in the Heritage Square property and U.S Postal Service station did not indicate the presence of elevated levels of PCBs in soil samples collected from eight shallow soil borings. The concentration of PCBs as Aroclor 1260 in soil samples collected from the eight soil borings ranged between non-detect and 3.8 mg/kg. The concentration of Aroclor 1260 in the two composite soil samples collected from the open pit in parking lot adjacent to the northern property line of the former Westinghouse facility ranged was 136 ppm and 4.1 mg/kg. The 136 mg/kg Aroclor 1260 concentration was detected in shallow composite soil sample (collected from between 0 to 2 feet bgs) while the 4.1 mg/kg concentration was detected in the deep composite soil sample (collected from between 2 to 4 feet bgs). Two confirmatory discrete soil samples did not confirm the elevated levels of Aroclor 1260 concentration around open pit area. The concentrations of Aroclor 1260 in the two discrete soil samples were 3.5 and 7.0 mg/kg. The concentration of PCBs in the groundwater sample collected from the open pit was 0.132 mg/l.

The concentration of total petroleum hydrocarbons as diesel and motor oil in soil samples collected from the open pit in the Heritage Square ranged between 70 and 156 mg/kg and 300 to 350 mg/kg respectively. The concentration of total petroleum hydrocarbons as diesel and motor oil in the groundwater sample collected from open pit was 0.72 and 1.9 mg/l. See Figure 3.

The results of laboratory analysis on soil samples collected from SB-9 and SB-10 drilled at intersection of Peladeau Street and Powell Street at the southern end of property did not detect petroleum hydrocarbons. However, the concentration of total petroleum hydrocarbons as gasoline in the groundwater samples collected from B-1 and B-2 were 1500 and 1200 microgram per liter. Minor concentration of benzene, ethylbenzene, and xylenes were also detected in groundwater

samples collected from B-1 and B-2. Benzene was detected at concentration of 3.2 microgram per liter at both locations. Concentration of ethylbenzene ranged between 4.7 and 13 microgram per liter and that of xylene ranged between 3 and 19 microgram per liter. Table 1 presents the results of laboratory analysis. Appendix A presents laboratory reports and chain of custody forms.

5.0 CONCLUSIONS

The results of off-site investigation at the northern end of the property within Heritage Square and the U.S. Postal Service of Emeryville indicated that concentrations of PCBs as Aroclor 1260 are below the recommended human health risk levels for intended site's future land use. The results of laboratory analysis on soil samples collected from two soil borings at the southeastern corner of the Parcel I, did not establish the source of petroleum hydrocarbons discovered at this location.

found 136 ppm PCBs

Tables

Table 1
Off-Site Soil and Groundwater Analytical Results

Sample ID	Chemical	Date Sampled	Detection Limit (ppm)	Concentration (ppm)	Matrix	Depth ft.
Outpit S1 Shallow	PCB 1016	6/23/98	1	ND	S	2
Outpit S1 Shallow	PCB 1221	6/23/98	1	ND	S	2
Outpit S1 Shallow	PCB 1232	6/23/98	1	ND	S	2
Outpit S1 Shallow	PCB 1242	6/23/98	1	ND	S	2
Outpit S1 Shallow	PCB 1248	6/23/98	1	ND	S	2
Outpit S1 Shallow	PCB 1254	6/23/98	1	ND	S	2
Outpit S1 Shallow	PCB 1260	6/23/98	1	136	S	2
Outpit S1 Shallow	TPH-Gas	6/23/98	0.05	ND	S	2
Outpit S1 Shallow	TPH-Diesel	6/23/98	1	156	S	2
Outpit S1 Shallow	TPH-Motor Oil	6/23/98	2.5	335	S	2
Outpit S2 Deep	PCB 1016	6/23/98	1	ND	S	4
Outpit S2 Deep	PCB 1221	6/23/98	1	ND	S	4
Outpit S2 Deep	PCB 1232	6/23/98	1	ND	S	4
Outpit S2 Deep	PCB 1242	6/23/98	1	ND	S	4
Outpit S2 Deep	PCB 1248	6/23/98	1	ND	S	4
Outpit S2 Deep	PCB 1254	6/23/98	1	ND	S	4
Outpit S2 Deep	PCB 1260	6/23/98	1	4.12	S	4
Outpit S2 Deep	TPH-Gas	6/23/98	0.05	ND	S	4
Outpit S2 Deep	TPH-Diesel	6/23/98	1	70	S	4
Outpit S2 Deep	TPH-Motor Oil	6/23/98	2.5	300	S	4
Outpit Water	PCB 1016	6/23/98	0.05	ND	GW	N/A
Outpit Water	PCB 1221	6/23/98	0.4	ND	GW	N/A
Outpit Water	PCB 1232	6/23/98	0.1	ND	GW	N/A
Outpit Water	PCB 1242	6/23/98	0.1	ND	GW	N/A
Outpit Water	PCB 1248	6/23/98	0.1	ND	GW	N/A
Outpit Water	PCB 1254	6/23/98	0.1	ND	GW	N/A
Outpit Water	PCB 1260	6/23/98	0.1	0.132	GW	N/A
Outpit Water	TPH-Gas	6/23/98	0.05	ND	GW	N/A
Outpit Water	TPH-Diesel	6/23/98	0.05	0.72	GW	N/A
Outpit Water	TPH-Motor Oil	6/23/98	0.1	1.9	GW	N/A
SB-1 6"	PCB 1260	6/28/98	0.005	0.0099	S	0.5
SB-1 4'	PCB 1260	6/28/98	0.005	ND	S	4
SB-2 6"	PCB 1260	6/28/98	0.005	0.32	S	0.5
SB-2 4'	PCB 1260	6/28/98	0.005	ND	S	4
SB-3 6"	PCB 1260	6/28/98	0.005	ND	S	0.5
SB-3 4'	PCB 1260	6/28/98	0.005	ND	S	4
SB-4 6"	PCB 1260	6/28/98	0.005	0.057	S	0.5
SB-4 4'	PCB 1260	6/28/98	0.005	0.062	S	4
SB-5 6"	PCB 1260	6/28/98	0.005	3.8	S	0.5
SB-5 4'	PCB 1260	6/28/98	0.005	2.7	S	4
SB-6 6"	PCB 1260	6/28/98	0.005	0.36	S	0.5
SB-6 4'	PCB 1260	6/28/98	0.005	ND	S	4
SB-7 6"	PCB 1260	6/28/98	0.005	0.035	S	0.5
SB-7 4'	PCB 1260	6/28/98	0.005	ND	S	4
SB-8 6"	PCB 1260	6/28/98	0.005	ND	S	0.5
SB-8 4'	PCB 1260	6/28/98	0.005	0.38	S	4
Open Pit S3	PCB 1260	7/10/98	0.01	3.5	S	N/A

Table 1
Off-Site Soil and Groundwater Analytical Results

Sample ID	Chemical	Date Sampled	Detection Limit (ppm)	Concentration (ppm)	Matrix	Depth ft.
Open Pit S3	TPH-Diesel	7/10/98	1	ND	S	N/A
Open Pit S3	TPH-Motor Oil	7/10/98	10	ND	S	N/A
Open Pit S4	PCB 1260	7/10/98	0.01	7	S	N/A
Open Pit S4	TPH-Diesel	7/10/98	1	ND	S	N/A
Open Pit S4	TPH-Motor Oil	7/10/98	10	ND	S	N/A
W-1	TPH-Gas	7/20/98	50	1500 ppb	GW	N/A
W-1	TPH-Diesel	7/20/98	50	ND	GW	N/A
W-1	Benzene	7/20/98	0.5	3.2 ppb	GW	N/A
W-1	Toluene	7/20/98	0.5	ND	GW	N/A
W-1	Ethyl Benzene	7/20/98	0.5	13 ppb	GW	N/A
W-1	Total Xylene	7/20/98	0.5	3 ppb	GW	N/A
W-1	MTBE	7/20/98	0.5	ND	GW	N/A
B-1-5	TPH-Gas	7/20/98	1	ND	S	5
B-1-5	TPH-Diesel	7/20/98	1	ND	S	5
B-1-5	Benzene	7/20/98	5	ND	S	5
B-1-5	Toluene	7/20/98	5	ND	S	5
B-1-5	Ethyl Benzene	7/20/98	5	ND	S	5
B-1-5	Total Xylene	7/20/98	5	ND	S	5
B-1-5	MTBE	7/20/98	5	ND	S	5
B-1-10	TPH-Gas	7/20/98	1	ND	S	10
B-1-10	TPH-Diesel	7/20/98	1	ND	S	10
B-1-10	Benzene	7/20/98	5	ND	S	10
B-1-10	Toluene	7/20/98	5	ND	S	10
B-1-10	Ethyl Benzene	7/20/98	5	ND	S	10
B-1-10	Total Xylene	7/20/98	5	ND	S	10
B-1-10	MTBE	7/20/98	5	ND	S	10
B-1-15	TPH-Gas	7/20/98	1	ND	S	15
B-1-15	TPH-Diesel	7/20/98	1	ND	S	15
B-1-15	Benzene	7/20/98	5	ND	S	15
B-1-15	Toluene	7/20/98	5	ND	S	15
B-1-15	Ethyl Benzene	7/20/98	5	ND	S	15
B-1-15	Total Xylene	7/20/98	5	ND	S	15
B-1-15	MTBE	7/20/98	5	ND	S	15
B-1-20	TPH-Gas	7/20/98	1	ND	S	20
B-1-20	TPH-Diesel	7/20/98	1	ND	S	20
B-1-20	Benzene	7/20/98	5	ND	S	20
B-1-20	Toluene	7/20/98	5	ND	S	20
B-1-20	Ethyl Benzene	7/20/98	5	ND	S	20
B-1-20	Total Xylene	7/20/98	5	ND	S	20
B-1-20	MTBE	7/20/98	5	ND	S	20
W-2	TPH-Gas	7/20/98	50	1200 ppb	GW	N/A
W-2	TPH-Diesel	7/20/98	50	ND	GW	N/A
W-2	Benzene	7/20/98	0.5	3.2	GW	N/A
W-2	Toluene	7/20/98	0.5	ND	GW	N/A
W-2	Ethyl Benzene	7/20/98	0.5	4.7	GW	N/A
W-2	Total Xylene	7/20/98	0.5	19	GW	N/A
W-2	MTBE	7/20/98	0.5	ND	GW	N/A
B-2-5	TPH-Gas	7/20/98	1	ND	S	5

Table 1
Off-Site Soil and Groundwater Analytical Results

Sample ID	Chemical	Date Sampled	Detection Limit (ppm)	Concentration (ppm)	Matrix	Depth ft.
B-2-5	TPH-Diesel	7/20/98	1	ND	S	5
B-2-5	Benzene	7/20/98	5	ND	S	5
B-2-5	Toluene	7/20/98	5	ND	S	5
B-2-5	Ethyl Benzene	7/20/98	5	ND	S	5
B-2-5	Total Xylene	7/20/98	5	ND	S	5
B-2-5	MTBE	7/20/98	5	ND	S	5
B-2-10	TPH-Gas	7/20/98	1	ND	S	10
B-2-10	TPH-Diesel	7/20/98	1	ND	S	10
B-2-10	Benzene	7/20/98	5	ND	S	10
B-2-10	Toluene	7/20/98	5	ND	S	10
B-2-10	Ethyl Benzene	7/20/98	5	ND	S	10
B-2-10	Total Xylene	7/20/98	5	ND	S	10
B-2-10	MTBE	7/20/98	5	ND	S	10
B-2-15	TPH-Gas	7/20/98	1	ND	S	15
B-2-15	TPH-Diesel	7/20/98	1	ND	S	15
B-2-15	Benzene	7/20/98	5	ND	S	15
B-2-15	Toluene	7/20/98	5	ND	S	15
B-2-15	Ethyl Benzene	7/20/98	5	ND	S	15
B-2-15	Total Xylene	7/20/98	5	ND	S	15
B-2-15	MTBE	7/20/98	5	ND	S	15
B-2-20	TPH-Gas	7/20/98	1	ND	S	20
B-2-20	TPH-Diesel	7/20/98	1	ND	S	20
B-2-20	Benzene	7/20/98	5	ND	S	20
B-2-20	Toluene	7/20/98	5	ND	S	20
B-2-20	Ethyl Benzene	7/20/98	5	ND	S	20
B-2-20	Total Xylene	7/20/98	5	ND	S	20
B-2-20	MTBE	7/20/98	5	ND	S	20

NOTE:
ND - Not Detected
N/A - Not Applicable
GW - Groundwater or Surface Water
S- Soil
Location of B-1 and W-1 are the same as SB-11, see Figure 2-20
Location of B-2 and W-2 are the same as SB-12, see Figure 2-20

Comprehensive Site Closure Report

Figures

Figure 1: Site Vicinity Map

ENVIRONMENTAL ENGINEERING, INC.

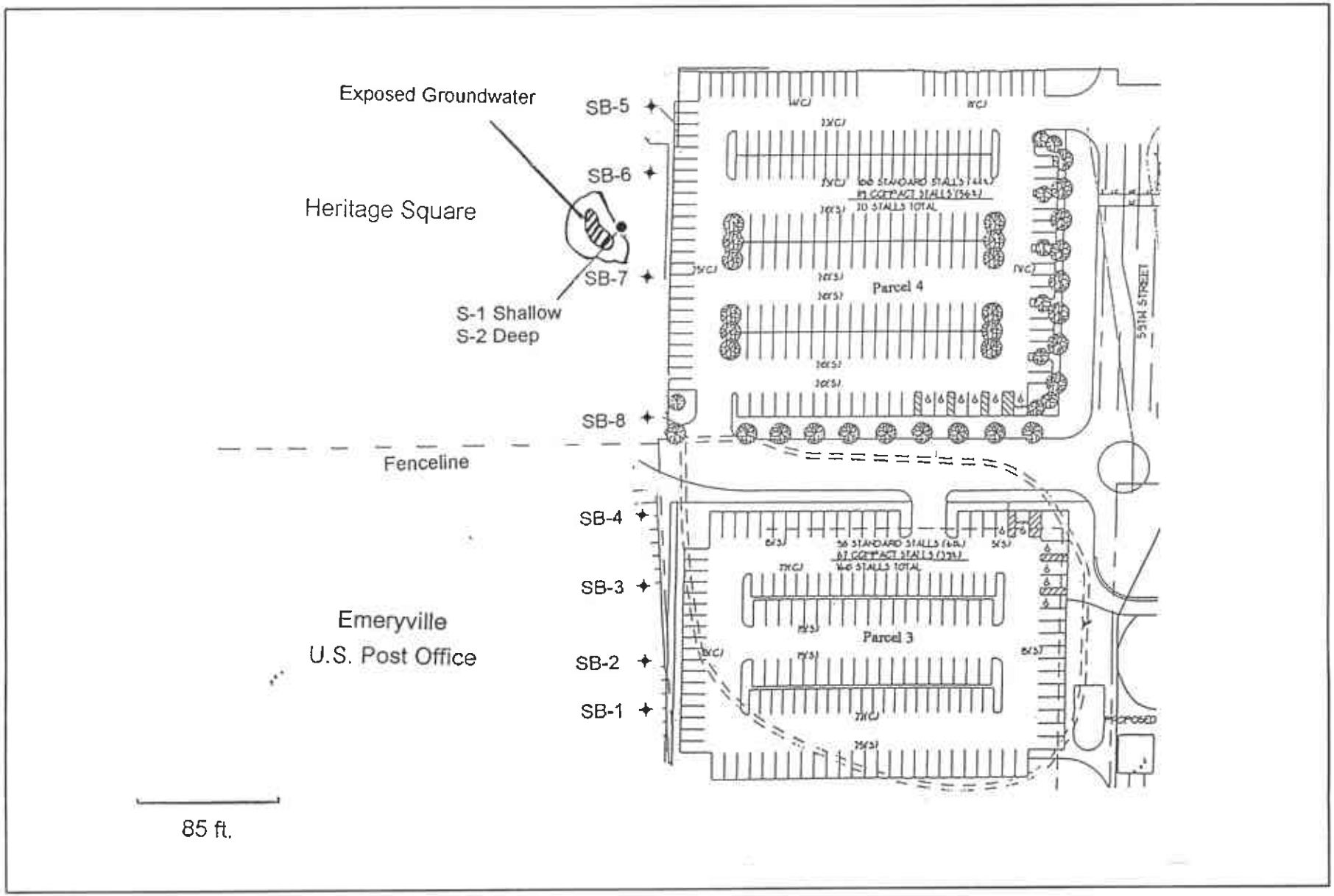

Figure 2: Location of Off-Site Borings Along the U.S Post Office and Heritage Square Properties

ENVIRONMENTAL ENGINEERING, INC.

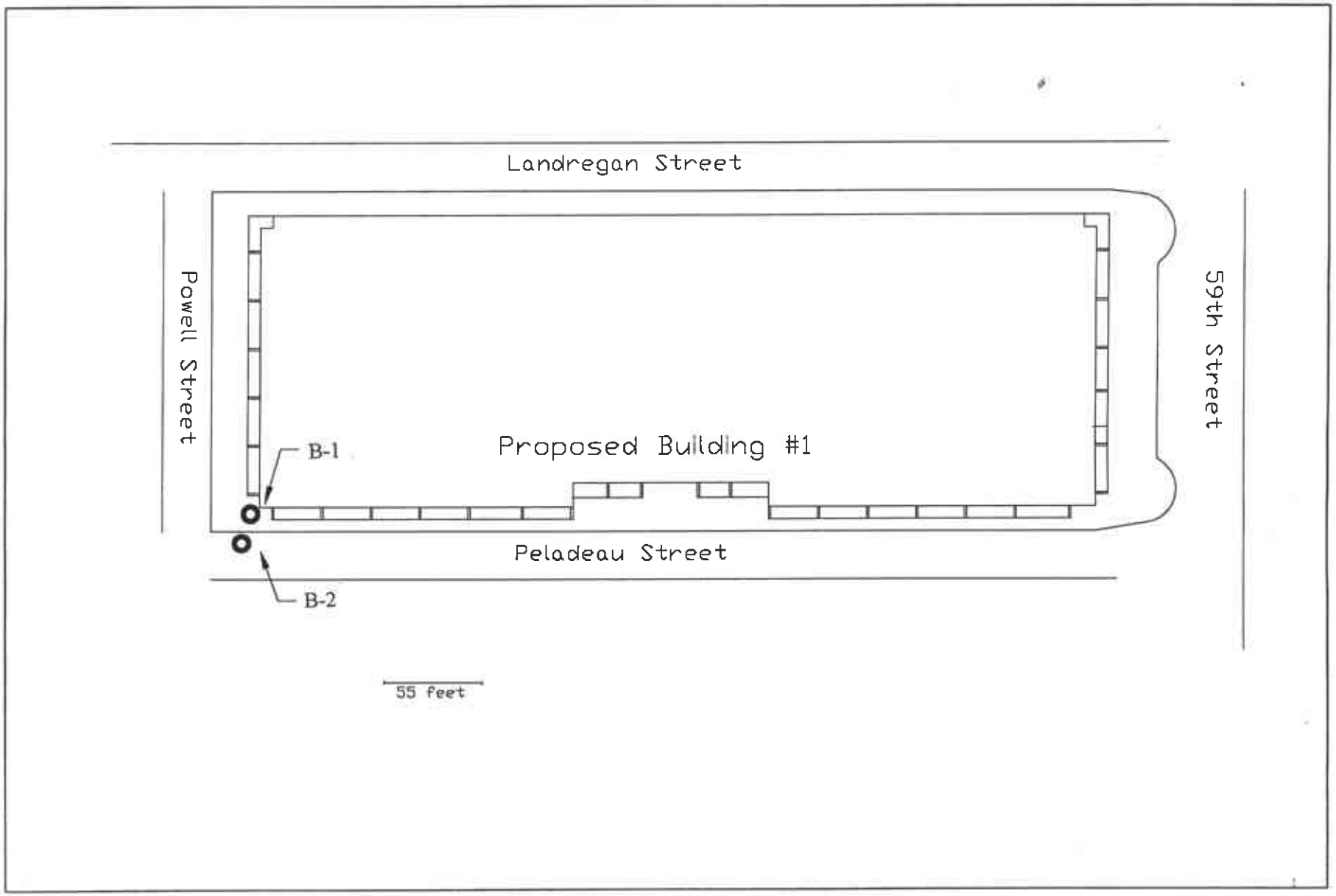

Figure 3: Location of Off-Site Borings at Intersection of Peladeau and Powell Streets

ENVIRONMENTAL ENGINEERING, INC.

< 2.7

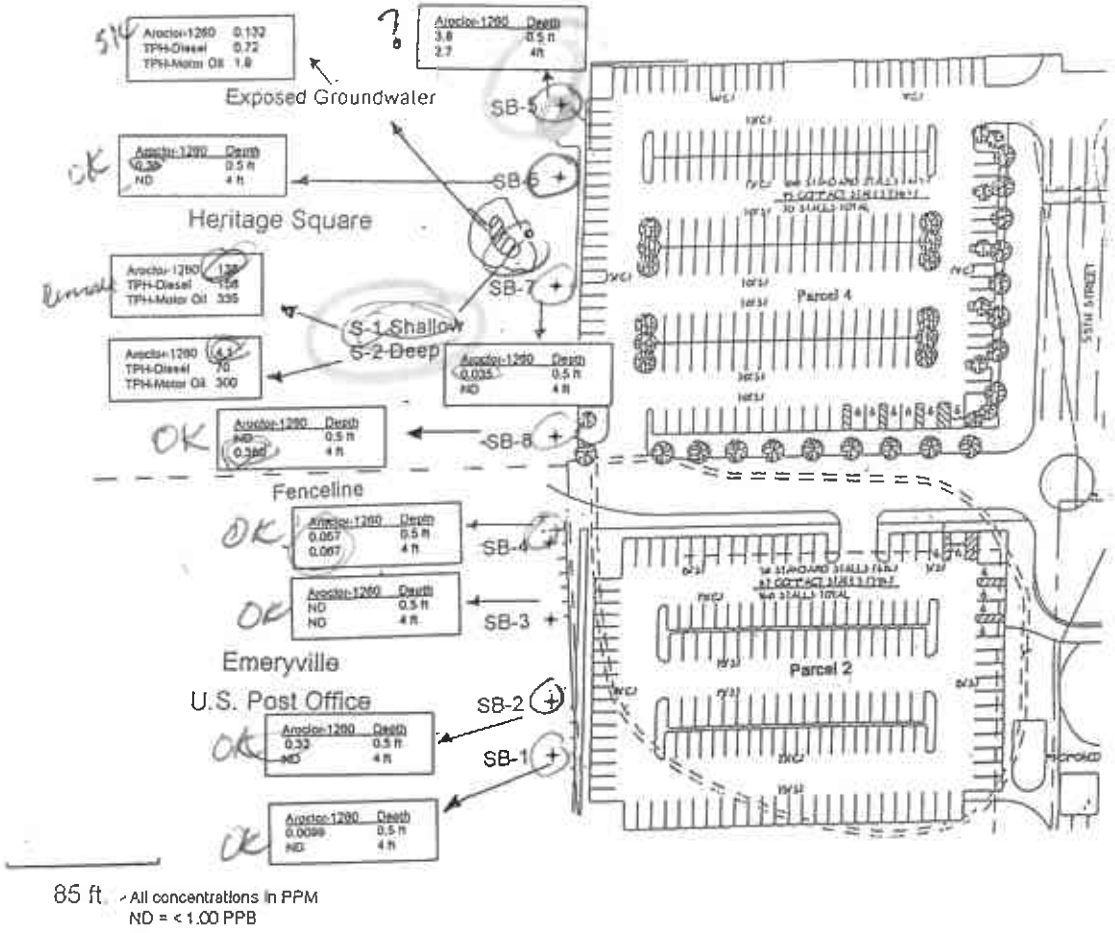

Figure 4: Soil and Groundwater Analytical Results

ENVIRONMENTAL ENGINEERING, INC.

Appendix A:
Laboratory Reports and Chain of Custody Forms

PRIORITY ENVIRONMENTAL LABS
Precision Environmental Analytical Laboratory

July 01, 1998

PEL # 9806046

SOMA ENVIRONMENTAL ENGINEERING

Attn: Mansour Sepehr

Re: Two water and seventeen soil samples for PCB's analysis.

Project name: CBS
Project number: 2174

Date sampled: Jun 28, 1998
Date extracted: Jun 29-July 01, 1998
Date submitted: Jun 29, 1998
Date analyzed: Jun 29-July 01, 1998

RESULTS:

SAMPLE I.D.	PCB's * (ug/L)
SB-9	370
SB-10	420
Detection limit	1.0
Method of analysis	608

SAMPLE I.D.	PCB's * (ug/Kg)
SB-1-6"	9.9
SB-1-4'	N.D.
SB-2-6"	320
SB-2-4'	N.D.
SB-3-6"	N.D.
SB-3-4'	N.D.
SB-4-6"	57
SB-4-4'	62
SB-5-6"	3800
SB-5-4'	2700
SB-6-6"	360
SB-6-4'	N.D.
SB-7-6"	35
SB-7-4'	N.D.
SB-8-6"	N.D.
SB-8-4'	380
SB-9-4'	560
Blank	N.D.
Spiked recovery	93.1%
Detection limit	5.0
Method of Analysis	8080

* This is Aroclor 1260 .

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PRIORITY ENVIRONMENTAL LABS
Precision Environmental Analytical Laboratory

July 01, 1998 PEL # 9806046

SOMA ENVIRONMENTAL ENGINEERING

Attn: Mansour Sepehr

Re: Two water and one soil samples for Diesel analysis.

Project name: CBS
Project number: 2174

Date sampled: Jun 28, 1998 Date submitted: Jun 29, 1998
Date extracted: Jun 29-July 01, 1998 Date analyzed: Jun 29-July 01, 1998
RESULTS:

SAMPLE I.D.	Diesel (mg/Kg)
SB-9-4'	N.D.
Detection limit	1.0
Method of analysis	3550/8015

SAMPLE I.D.	Diesel (ug/L)
SB-9	N.D.
SB-10	N.D.
Blank	N.D.
Spiked recovery	99.5%
Detection limit	50
Method of Analysis	3510/8015

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

July 30, 1998 PEL # 9807049

SOMA ENGINEERING, INC.

Attn: Mansour Setpher

Re: One water and four soil samples for Gasoline/BTEX with MTBE and Diesel analyses.

Project name: CBS Project number: 2172-CNS

Date sampled: Jul 28, 1998
Date extracted: Jul 29-30, 1998

Date submitted: Jul 29, 1998
Date analyzed: Jul 29-30, 1998

RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)	MTBE (ug/L)
W-2	1200	N.D.	3.2	N.D.	4.7	19	N.D.
Detection limit	50	50	0.5	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	3510 / 8015	602	602	602	602	602

SAMPLE I.D.	Gasoline (mg/Kg)	Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylene (ug/Kg)	MTBE (ug/Kg)
B-2-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
B-2-10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
B-2-15	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
B-2-20	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	89.4%	103.2%	84.6%	81.9%	102.5%	97.6%	---
Detection limit	1.0	1.0	5.0	5.0	5.0	5.0	5.0
Method of Analysis	5030 / 8015	3550 / 8015	8020	8020	8020	8020	8020

David Duong
Laboratory Director

PRIORITY ENVIRONMENTAL LABS

Chain of Custody

1764 Kouret Ct. Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

DATE: 7/20/98 PAGE: 1 OF: 1

PROJECT MGR: Mansour Setpher
COMPANY: SOMA
ADDRESS: 5815 Peladeau Street
Emeryville CA
PHONE: 510-547-7680 FAX: 510-547-7601
SIGNATURE:

ANALYSIS REPORT

SAMPLE ID	DATE	TIME	MATRIX	TPH-Gasoline (EPA 5030,8015)	TPH-Gasoline(5030,8015) +/BTEX(EPA 602,8020)	TPH-Diesel (EPA 3510/3550,8015)	PURGEABLE AROMATICS BTEX (EPA 602,8020)	TOTAL OIL & GREASE (EPA 5520 C&F)	PESTICIDES/PCB (EPA 608,8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	CHLORINATED HYDROCARBONS (EPA 601,8010)	MTBE	NUMBER OF CONTAINERS
B-1-5	7/20/98	8:30	Soil		✓	✓						✓	
B-1-10		9:00	Soil		✓	✓						✓	
B-1-15		9:40	Soil		✓	✓						✓	
B-1-20		10:15	Soil		✓	✓						✓	
W-1	↓	10:55	Water		✓	✓						✓	

TABLE 3

PROJECT INFORMATION
PROJECT NAME: CBS
PROJECT NUMBER: 2172-CBS

SAMPLE RECEIPT
TOTAL # OF CONTAINERS: 16
RECD. GOOD COND./COLD:

INSTRUCTIONS & COMMENTS:

RELINQUISHED BY: 1	RECEIVED BY: 1	RELINQUISHED BY: 2	RECEIVED BY: 2
SIGNATURE:	SIGNATURE:	SIGNATURE:	SIGNATURE:
Date: 7/20/98 Time: 15:15	Date: 7-20-98 Time: 15:45PM	Date: Time:	Date: Time:
COMPANY: STE	COMPANY: P.E.L	COMPANY:	COMPANY:

PRIORITY ENVIRONMENTAL LABS

Chain of Custody

1764 Houret Ct. Milpitas,CA.95035 Tel:408-946-9636 Fax:408-946-9663

DATE: 6/28/98 PAGE: 1 OF: 2

PROJECT MGR.: 2174
COMPANY: SOMA Env.
ADDRESS: 2680 Bishop Drive #203
San Ramon, CA 94583
PHONE: 925-244-6600 FAX: 925-244-6601
SIGNATURE: Manjou Singh

ANALYSIS REPORT

SAMPLE ID	DATE	TIME	MATRIX	TPH-Gasoline (EPA 5030,8015)	TPH-Gasoline(5030,8015) w/BTEX(EPA 602,8020)	TPH-Diesel (EPA 3510/3550,8015)	PURGEABLE AROMATICS BTEX (EPA 602,8020)	TOTAL OIL & GREASE (EPA 5520 C,D&F)	PESTICIDES/PCB (EPA 608,8080)	TOTAL RECOVERABL HYDROCARBONS (EPA 418.1)	CHLORINATED HYDROCARBONS (EPA 601,8010)	NUMBER OF CONTAINERS
SB-1-6"			Soil						✓			
SB-1-4'			Soil						✓			
SB-2-6"			Soil						✓			
SB-2-4'			Soil						✓			
SB-3-6"			Soil						✓			
SB-3-4'			Soil						✓			
SB-4-6"			Soil						✓			
SB-4-4'			Soil						✓			
SB-5-6"			Soil						✓			
SB-5-4'			Soil						✓			
SB-6-6"			Soil						✓			
SB-6-4'			Soil						✓			

PROJECT INFORMATION
PROJECT NAME: CBS. Corp.
PROJECT NUMBER: 2174

SAMPLE RECEIPT
TOTAL # OF CONTAINERS:
RECD. GOOD COND./COLD:

INSTRUCTIONS & COMMENTS:

RELINQUISHED BY: 1	RECEIVED BY: 1	RELINQUISHED BY: 2	RECEIVED BY: 2
Manjou S.			
SIGNATURE:	SIGNATURE:	SIGNATURE:	SIGNATURE:
Date: 6/28/98 Time:	Date: Time:	Date: Time:	Date: Time:
COMPANY: SOMA	COMPANY:	COMPANY:	COMPANY:

TABLE 3

PRIORITY ENVIRONMENTAL LABS

Chain of Custody

1764 Houret Ct. Milpitas,CA.95035 Tel:408-946-9636 Fax:408-946-9663

DATE: 6/28/98 PAGE: 2 OF: 2

PROJECT MGR.: 2174
COMPANY: SOMA Env.
ADDRESS: 2680 Bishop Drive #205
San Ramon, CA 94583
PHONE: 925-244-6600 FAX: 925-244-6601
SIGNATURE: Hanson Shih

ANALYSIS REPORT

SAMPLE ID	DATE	TIME	MATRIX	TPH-Gasoline (EPA 5030,8015)	TPH-Gasoline(5030,8015) w/BTEX(EPA 602,8020)	TPH-Diesel (EPA 3510/3550,8015)	PURGEABLE AROMATICS BTEX (EPA 602,8020)	TOTAL OIL & GREASE (EPA 5520 C,D&F)	PESTICIDES/PCB (EPA 608,8080)	TOTAL RECOVERABL HYDROCARBONS (EPA 418.1)	CHLORINATED HYDROCARBONS (EPA 601,8010)	NUMBER OF CONTAINERS
SB-7-6"			Soil						✓			
SB-7-4'			Soil						✓			
SB-8-6"			Soil						✓			
SB-8-4'			Soil						✓			
SB-9-4'			Soil			✓			✓			
SB-9			W			✓			✓			
SB-10			W			✓			✓			

TABLE 3

PROJECT INFORMATION
PROJECT NAME: CBS Corp.
PROJECT NUMBER: 2174

SAMPLE RECEIPT
TOTAL # OF CONTAINERS:
RECD. GOOD COND./COLD:

INSTRUCTIONS & COMMENTS:

RELINQUISHED BY: 1	RECEIVED BY: 1	RELINQUISHED BY: 2	RECEIVED BY: 2
Hanson S.			
SIGNATURE:	SIGNATURE:	SIGNATURE:	SIGNATURE:
Date: 6/28/98 Time:	Date: Time:	Date: Time:	Date: Time:
COMPANY: SOMA	COMPANY:	COMPANY:	COMPANY:

PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

July 30, 1998 PEL # 9807048

SOMA ENGINEERING, INC.

Attn: Mansour Setpher

Re: One water and four soil samples for Gasoline/BTEX with MTBE and Diesel analyses.

Project name: CBS Project number: 2172-CNS

Date sampled: Jul 20, 1998 Date submitted: Jul 20, 1998
Date extracted: Jul 20-21, 1998 Date analyzed: Jul 20-21, 1998

RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)	MTBE (ug/L)
W-1	1500	N.D.	3.2	N.D.	13	3.0	N.D.
Detection limit	50	50	0.5	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	3510 / 8015	602	602	602	602	602

SAMPLE I.D.	Gasoline (mg/Kg)	Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylene (ug/Kg)	MTBE (ug/Kg)
B-1-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
B-1-10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
B-1-15	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
B-1-20	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	89.4%	103.2%	84.6%	81.9%	102.5%	97.6%	---
Detection limit	1.0	1.0	5.0	5.0	5.0	5.0	5.0
Method of Analysis	5030 / 8015	3550 / 8015	8020	8020	8020	8020	8020

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9662

PRIORITY ENVIRONMENTAL LABS

Chain of Custody

1764 Houret Ct. Milpitas,CA.95035 Tel:408-946-9636 Fax:408-946-9663

DATE: 7/29/98 PAGE: 1 OF 1

PROJECT MGR.: Mansour Setpher
COMPANY: SCMA
ADDRESS: 5315 Peladeau Street : Emeryville, CA
PHONE: 510-444-6600 FAX: 510-444-6601
SIGNATURE:

ANALYSIS REPORT

SAMPLE ID	DATE	TIME	MATRIX	TPH Gasoline (EPA 5030,8015)	TPH-Gasoline(5030,8015) w/BTEX(EPA 602,8020)	TPH-Diesel (EPA 3510/3550,8015)	PURGEABLE AROMATICS BTEX (EPA 602,8020)	TOTAL OIL & GREASE (EPA 5520 C,D&F)	PESTICIDES/PCB (EPA 608,8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	CHLORINATED HYDROCARBONS (EPA 601,8010)	MTBE	NUMBER OF CONTAINERS
B-2-5	7/29/98	11:30	Soil		✓	✓						✓	
B-2-10		11:45			✓	✓						✓	
B-2-15		12:15			✓	✓						✓	
B-2-20		12:50			✓	✓						✓	
W-2		1:30	water		✓	✓						✓	

PROJECT INFORMATION
PROJECT NAME: CBS
PROJECT NUMBER: 3172-CBS

SAMPLE RECEIPT
TOTAL # OF CONTAINERS: 6
RECD. GOOD COND./COLD:

INSTRUCTIONS & COMMENTS:

RELINQUISHED BY: 1	RECEIVED BY: 1	RELINQUISHED BY: 2	RECEIVED BY: 2
SIGNATURE:	SIGNATURE: DUNG Huynh	SIGNATURE:	SIGNATURE:
Date: 7/29/98 Time: 15:35	Date: 7-29-98 Time: 15:35PM	Date: Time:	Date: Time:
COMPANY: STE	COMPANY: P.E.L	COMPANY:	COMPANY: