

McCUTCHEEN, DOYLE, BROWN & ENERSEN

SAN FRANCISCO
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WASHINGTON, D.C.
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AFFILIATED OFFICE
BANGKOK

April 7, 1993

DIRECT DIAL NUMBER

(415) 393-2050

Scott O. Seery, CHMM
Senior Hazardous Materials Specialist
Alameda County Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

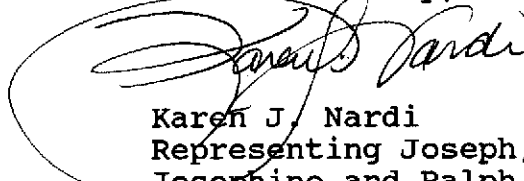
Marshall Steel Cleaners
Castro Valley

Dear Mr. Seery:

Enclosed are laboratory results from sampling conducted at monitoring wells 5, 6, and 7 on properties owned by Joseph and Josephine Sorani and Safeway on Redwood Road in Castro Valley. The cost of this sampling was shared equally by the Soranis, Safeway, and Bill Kelly of Marshall Steel Cleaners.

We understand that sampling of volatile organic compounds is being conducted at the Unocal site. We would like to review the results of that sampling when it becomes available.

Yours sincerely,



Karen J. Nardi
Representing Joseph,
Josephine and Ralph Sorani

Enclosure

cc: Jonathan Redding
Linda MacDonald, Safeway
Ralph Sorani



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710. Phone (510) 486-0900

DATE RECEIVED: 03/04/93
DATE REPORTED: 03/16/93

LABORATORY NUMBER: 110234

CLIENT: APPLIED GEOTECHNOLOGY INC.

PROJECT ID: 15722.001

LOCATION: SURANI CTR

RESULTS: SEE ATTACHED

Teresa K. Morrison
Reviewed by

Kathy O'Brien
Reviewed by

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Berkeley

Los Angeles

MAR 17 '93 14:30

205 646 9523

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Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110234-1
 CLIENT: APPLIED GEOTECHNOLOGY INC.
 PROJECT ID: 15722.001
 SAMPLE ID: 1047

DATE SAMPLED: 03/04/93
 DATE RECEIVED: 03/04/93
 DATE ANALYZED: 03/10/93
 DATE REPORTED: 03/16/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	200
Bromomethane	ND	200
Vinyl chloride	ND	200
Chloroethane	ND	200
Methylene chloride	ND	400
Acetone	ND	400
Carbon disulfide	ND	100
Trichlorofluoromethane	ND	100
1,1-Dichloroethene	ND	100
1,1-Dichloroethane	ND	100
cis-1,2-Dichloroethene	ND	100
trans-1,2-Dichloroethene	ND	100
Chloroform	ND	100
Freon 113	ND	100
1,2-Dichloroethane	ND	100
2-Butanone	ND	200
1,1,1-Trichloroethane	ND	100
Carbon tetrachloride	ND	100
Vinyl acetate	ND	200
Bromodichloromethane	ND	100
1,2-Dichloropropane	ND	100
cis-1,3-Dichloropropene	ND	100
Trichloroethene	200	100
Dibromochloromethane	ND	100
1,1,2-Trichloroethane	ND	100
Benzene	ND	100
trans-1,3-Dichloropropene	ND	100
Bromoform	ND	100
2-Hexanone	ND	200
4-Methyl-2-pentanone	ND	200
1,1,2,2-Tetrachloroethane	ND	100
Tetrachloroethene	2,900	100
Toluene	ND	100
Chlorobenzene	ND	100
Ethyl benzene	ND	100
Styrene	ND	100
Total xylenes	ND	100

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	109 %
Toluene-d8	98 %
Bromofluorobenzene	94 %



LABORATORY NUMBER: 110234-2
 CLIENT: APPLIED GEOTECHNOLOGY INC.
 PROJECT ID: 15722.001
 SAMPLE ID: MW-6

DATE SAMPLED: 03/04/93
 DATE RECEIVED: 03/04/93
 DATE ANALYZED: 03/09/93
 DATE REPORTED: 03/16/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	DETECTED (4)	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND - Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	105 %
Toluene-d8	102 %
Bromofluorobenzene	96 %



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LABORATORY NUMBER: 110234-3
 CLIENT: APPLIED GEOTECHNOLOGY INC.
 PROJECT ID: 15722.001
 SAMPLE ID: MW-5

DATE SAMPLED: 03/04/93
 DATE RECEIVED: 03/04/93
 DATE ANALYZED: 03/09/93
 DATE REPORTED: 03/16/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropane	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND - Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	104 %
Toluene-d8	99 %
Bromofluorobenzene	96 %



LABORATORY NUMBER: 110234
 CLIENT: APPLIED GEOTECHNOLOGY INC.
 PROJECT ID: 15722.001
 SAMPLE ID: METHOD BLANK

DATE ANALYZED: 03/09/93
 DATE REPORTED: 03/16/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethane	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	107 %
Toluene-d8	101 %
Bromofluorobenzene	96 %



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110234
 CLIENT: APPLIED GEOTECHNOLOGY INC.
 PROJECT ID: 15722.001
 SAMPLE ID: METHOD BLANK

DATE ANALYZED: 03/10/93
 DATE REPORTED: 03/16/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	109 %
Toluene-d8	100 %
Bromofluorobenzene	98 %



MS/MSD Report

Matrix Sample Number: 110234-002
 Lab No: QC41391 QC41392
 Matrix: WATER
 Batch No: 8515 931560 931561 931544

Data Analyzed: 10-MAR-93
 Spike File: >CC915
 Spike Dup File: >CC916
 Analyst: AL

	Instrdg	SpikeAmt	% Rec	Limits
<u>MS RESULTS</u>				
1,1-Dichloroethene	42.96	50	86 %	61-145%
Trichloroethene	47.65	50	95 %	71-120%
Benzene	47.07	50	94 %	76-127%
Toluene	45.01	50	90 %	76-125%
Chlorobenzene	46.07	50	92 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	52.74	50	105 %	76-114%
Toluene-d8	46.78	50	94 %	88-110%
Bromofluorobenzene	48.99	50	98 %	86-115%
<u>MSD RESULTS</u>				
1,1-Dichloroethene	48.41	50	97 %	61-145%
Trichloroethene	47.74	50	96 %	71-120%
Benzene	47.21	50	94 %	76-127%
Toluene	47.47	50	95 %	76-125%
Chlorobenzene	46.6	50	93 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	53.3	50	107 %	76-114%
Toluene-d8	49.83	50	100 %	88-110%
Bromofluorobenzene	47.41	50	95 %	86-115%
<u>MATRIX RESULTS</u>				
1,1-Dichloroethene	0			
Trichloroethene	0			
Benzene	0			
Toluene	0			
Chlorobenzene	0			
<u>RPD DATA</u>				
1,1-Dichloroethene	12 %			< 14%
Trichloroethene	0 %			< 14%
Benzene	0 %			< 11%
Toluene	5 %			< 13%
Chlorobenzene	1 %			< 13%

Results within Specifications - PASS

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8240 Laboratory Control Sample Report

Lab No: QC41389
Date Analyzed: 09-MAR-93
Matrix: WATER
Batch No: 8515 931528

LCS Datafile: >CC903

Operator: AL

Compound	Instrdg	SpikeAmt	% Rec	Limits
1,1-Dichloroethene	47.35	50	95 %	61-145%
Trichloroethene	43.54	50	87 %	71-120%
Benzene	42.31	50	85 %	76-127%
Toluene	42.55	50	85 %	76-125%
Chlorobenzene	44.06	50	88 %	75-130%

Surrogate Recoveries

1,2-Dichloroethane-d4	51.68	50	103 %	76-114%
Toluene-d8	48.55	50	97 %	88-110%
Bromofluorobenzene	48.25	50	97 %	86-115%

Results within Specifications - PASS



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MS/MSD Report

Matrix Sample Number: 110256-001
 Lab No: QC41433 QC41434
 Matrix: WATER
 Batch No: 8528 931592 931593 931587

Date Analyzed: 11-MAR-93
 Spike File: >CCA15
 Spike Dup File: >CCA16
 Analyst: AL

	Instrdg	SpikeAmt	% Rec	Limits
<u>MS RESULTS</u>				
1,1-Dichloroethene	42.65	50	85 %	61-145%
Trichloroethene	47.55	50	95 %	71-120%
Benzene	46.96	50	94 %	76-127%
Toluene	46.67	50	92 %	76-125%
Chlorobenzene	49.01	50	98 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	53.53	50	107 %	76-114%
Toluene-d8	49.6	50	99 %	88-110%
Bromofluorobenzene	49.89	50	100 %	86-115%
<u>MSD RESULTS</u>				
1,1-Dichloroethene	47.28	50	95 %	61-145%
Trichloroethene	50.3	50	101 %	71-120%
Benzene	49.66	50	99 %	76-127%
Toluene	49.59	50	98 %	76-125%
Chlorobenzene	52.08	50	104 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	54.28	50	109 %	76-114%
Toluene-d8	50.53	50	101 %	88-110%
Bromofluorobenzene	50.38	50	101 %	86-115%
<u>MATRIX RESULTS</u>				
1,1-Dichloroethene	0			
Trichloroethene	0			
Benzene	0			
Toluene	.701			
Chlorobenzene	0			
<u>RPD DATA</u>				
1,1-Dichloroethene	10 %			< 14%
Trichloroethene	6 %			< 14%
Benzene	6 %			< 11%
Toluene	6 %			< 13%
Chlorobenzene	6 %			< 13%

Results within specifications - PASS



Curtis & Tompkins, Ltd

8240 Laboratory Control Sample Report

Lab No: QC41435
Date Analyzed: 10-MAR-93
Matrix: WATER
Batch No: 8528 931575

LCS Datafile: >CCA04
Operator: AL

Compound	Instrdg	SpikeAmt	% Rec	Limits
1,1-Dichloroethene	43.15	50	86 %	61-145%
Trichloroethene	43.93	50	88 %	71-120%
Benzene	45.75	50	92 %	76-127%
Toluene	43.63	50	87 %	76-125%
Chlorobenzene	46.33	50	93 %	75-130%

Surrogate Recoveries

1,2-Dichloroethane-d4	54.04	50	108 %	76-114%
Toluene-d8	50.13	50	100 %	88-110%
Bromofluorobenzene	49.19	50	98 %	86-115%

Results within Specifications - PASS

MAR 17 '93 14:38



Applied Geotechnology Inc.
 Geotechnical Engineering
 Geology & Hydrogeology

CHAIN OF CUSTODY

Date 3-4-93 Page 1 of 1

Project Manager: <u>Don Henninger</u>					Laboratory Number: <u>110234</u>																																																																																																																								
Project Name: <u>Succia CTR</u>					ANALYSIS REQUEST <table border="1"> <tr> <td>TEL Metals (23)</td> <td>Priority Polymers Metals (16)</td> <td>EPTDR Metals (8) Total</td> <td>EP TOX Metals (4) EP EXT</td> <td>TCLP Metals</td> <td>EP TOX Pesticides (5)</td> <td>TCLP - Volatiles</td> <td>9010 Halogenated Volatiles</td> <td>9020 Aromatic Volatiles</td> <td>9030 ONLY</td> <td>9040 OCMS Volatiles</td> <td>9070 CCMS R&P</td> <td>9310 MPLC PMA</td> <td>9090 OC Pesticides & PCB's</td> <td>PCRA ONLY</td> <td>8140 Phosphate Pesticides</td> <td>8150 METALS</td> <td>WDOE PANAMA (WAC 172)</td> <td>418.1 (TPH)</td> <td>418.2 (Gaseous H₂)</td> <td>8015M Fuel (Benzophen)</td> <td>TOD 9000</td> <td>TOX 9020</td> <td>% Moisture</td> <td>NUMBER OF CONTAINERS</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>W</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>W</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>W</td> </tr> </table>															TEL Metals (23)	Priority Polymers Metals (16)	EPTDR Metals (8) Total	EP TOX Metals (4) EP EXT	TCLP Metals	EP TOX Pesticides (5)	TCLP - Volatiles	9010 Halogenated Volatiles	9020 Aromatic Volatiles	9030 ONLY	9040 OCMS Volatiles	9070 CCMS R&P	9310 MPLC PMA	9090 OC Pesticides & PCB's	PCRA ONLY	8140 Phosphate Pesticides	8150 METALS	WDOE PANAMA (WAC 172)	418.1 (TPH)	418.2 (Gaseous H ₂)	8015M Fuel (Benzophen)	TOD 9000	TOX 9020	% Moisture	NUMBER OF CONTAINERS											X																W											X																W											X																W
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Phone/Fax: <u>562-2425</u> Sampled By: <u>STH</u>																																																																																																																													
SAMPLE DISPOSAL INSTRUCTIONS																																																																																																																													
<input checked="" type="checkbox"/> Lab Disposal <input type="checkbox"/> Return <input type="checkbox"/> Pickup (will call)																																																																																																																													
SAMPLE ID	DATE	TIME	MATRIX	LAB ID																																																																																																																									
MW-7	3-4-93	0820	Water	-1																						W																																																																																																			
MW-6	3-4-93	0830	Water	-2																						W																																																																																																			
MW-5	3-4-93	1105	Water	-3																						W																																																																																																			

LAB INFORMATION		SAMPLE RECEIPT		RELINQUISHED BY: 1.		RELINQUISHED BY: 2.		RELINQUISHED BY: 3.	
Lab Name: <u>Succia Tanking</u>	Total Number of Containers:	Chain of Custody Seals: <u>Y/N/NA</u>	Intact?: <u>Y/N/N</u>	Received in Good Cond./Cold:	Signature: <u>Don Henninger</u>	Date: <u>3-4-93</u>	Printed Name: <u>Don Henninger</u>	Date: <u>3-4-93</u>	Company: <u>AGI</u>
Lab Address:	Received in Good Cond./Cold:	TAT: <input type="checkbox"/> 24h. <input type="checkbox"/> 48h. <input type="checkbox"/> 72h. <input type="checkbox"/> 1 wk. <input checked="" type="checkbox"/> 2 wks. (normal)		RECEIVED BY: 1.		RECEIVED BY: 2.		RECEIVED BY: 3.	
Via: <u>Hand Delivered</u>	PRIOR AUTHORIZATION IS REQUIRED FOR RUSH DATA		Special Instructions: <u>Please, include G.C. strips w/ chain package.</u>		Signature: <u>Don Henninger</u>	Date: <u>3-4-93</u>	Printed Name: <u>Don Henninger</u>	Date: <u>3-4-93</u>	Company: <u>AGI</u>

AGI OFFICES: Bellevue: (206) 453-8393 Tacoma: (206) 383-4980 Portland: (503) 222-2820

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206 646 9523

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