

93 SEP 17 PM 3:07

TO: Eva chew  
Alameda County Health Care Services Agency

FROM: Ron Tye

DATE: September 16, 1993

SUBJECT: TANK CLOSURE REPORT  
327 - 34th Street  
Oakland, California

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Ms. Chew,

Enclosed you will find a copy of the Tank Closure Report from KTW & Associates for the property at 327 - 34th Street, Oakland, California.

Please feel free to call me at (510) 450-6608, if you have any questions.



43289 Osgood Road, Fremont, Calif. 94538

(510) 623-0480

Cal. State Cont. Lic. # 572427

## TANK CLOSURE REPORT

Val Strough Chevrolet  
327 34th Street  
Oakland, California

9/20/93

NAC:

No semi-volatile  
(EPA 8270) done,

- where is MW install  
report?

August 30, 1993

Mr. Ron Tye  
Val Strough Chevrolet  
3330 Broadway  
Oakland, California 94611

Mr. Tye:

K.T.W. & Associates, Inc. is pleased to submit this report describing closure activities associated with the removal of two underground storage tanks in Oakland, California. This report provides basic information regarding the site work. The tank removals were performed by Subsurface Environmental Corporation, 11072 San Palo Avenue, Suite 315, El Cerrito, California 94530. Any additional information may be obtained from Roxanne Harris @ (510) 215-6553.

### **Site Description**

The site is located at 327 34th Street, Oakland, California. A site location map is presented in Plate 1. One 550 gallon waste oil tank and one 1,000 gallon gasoline tank was formerly at the subject site. A site map showing the location of the site structures, and the former underground tank is presented in Plate 2.

### **Closure Plan and Permitting**

A closure plan and permit application from Alameda County Water District for removal of the underground tanks was submitted.

### **Underground Tank Closure**

Tank removal activities began on March 4, 1993. Inspector Eva Chu, from the Alameda County, Department of Environmental Health was present to observe the tank removal and sampling activities. Construction and documentation services associated with the closure were performed by Subsurface Environmental. Sampling activities were performed by Ms. Roxanne Harris, of Subsurface Environmental. Per information provided by Mr. Terry Williamson of Kip Prah, upon removal there were visible signs of structural failure evident with some holes. Additionally, there was noticeable soil staining in the waste oil tank and gasoline tank excavations as well as a detectable odors in the gasoline tank excavation.

### **Soil Sampling & MVA for Underground Fuel Tank Excavation**

Soil sampling of the tank excavation and stockpile occurred on March 5, 1993. Eight (8) soil samples were collected; one (TA001) from beneath the west end of the gasoline tank excavation at a depth of 11' below grade, one (TA002) from beneath the east end of the gasoline tank excavation at a depth of 10.5' below grade. One (TB003) from beneath the west end of the waste oil tank at a depth of 9.5' below grade, one from beneath the east end of the waste oil tank at a depth of 9.5' below grade, and a 1-4 composite sample (SP005) from the stockpile which was to be held. The soil samples from the tank excavation were obtained by driving a brass tube into the soil extracted from the excavation using a backhoe. The composite soil samples were obtained by driving a brass tube into the stockpiled material. The sample locations are noted on Plate 2.

All soil samples were collected in precleaned brass tubes, sealed with foil and plastic caps and promptly stored on dry ice in a cooler. Following completion of field work on March 5, 1993, the soil samples were submitted to Curtis & Tompkins, Ltd., 2323 Fifth Street, Berkeley, California (DOHS #1459) under appropriate chain of custody documentation.

The samples collected for minimum verification analyses (MVA) were analyzed in accordance with appropriate regulatory guidelines contained within Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks (RWQCB, 1988).

### **Certified Analytical Results**

The soil samples were analyzed for Total Petroleum Hydrocarbons as Gasoline (TPH-G), Benzene, Toluene, Total Xylenes, and Ethylbenzene (BTXE), Total Petroleum Hydrocarbons as Diesel, Hydrocarbon Oil & Grease, Chlorinated Hydrocarbons and 5 Metals (Cadmium, Chromium, Lead, Nickel, and Zinc). Sample TA001 taken from the bottom of the gasoline excavation indicated 5 parts per million (ppm) TPH-G, N.D. ppm Benzene, 110 ppm Toluene, 480 ppm Ethylbenzene, 280 ppm Total Xylenes. Sample TA002 also taken from the gasoline tank excavation showed 130 ppm TPH-G, N.D. ppm Benzene, 200 ppm Toluene, 4,900 ppm Ethylbenzene and 7,800 ppm Total Xylenes. Sample TB003 taken from the waste oil excavation showed N.D. for TPH-G, Benzene, Cadmium, Volatile Halocarbons and Hydrocarbon Oil & Grease. It also showed 5 ppm Toluene, 14 ppm Ethylbenzene, 18 ppm Total Xylenes, 96 ppm TPH-D, 49 ppm Chromium, 75 ppm Nickel, 8 ppm Lead and 160 ppm Zinc. Sample TB004 showed N.D. for TPH-G, Benzene, Toluene, Ethylbenzene, Total Xylenes, Cadmium, Lead, Volatile Halocarbons, and Hydrocarbon Oil & Grease.

Mr. Ron Tye  
August 30, 1993  
Page 3

It also showed 7 ppm TPH-D, 39 ppm Chromium, 65 ppm Nickel, and 22 ppm Zinc. The results from the samples are combined in Table I. Copies of soil analytical results are presented in Attachment A.

### **Regulatory Guidelines**

The Regional Water Quality Control Board - San Francisco Bay Region has established a level of 100 ppm TPH concentrations in soil as a general decision value for requiring further definition of site soil and groundwater contamination where shallow groundwater conditions are known to exist. The origin of the 100 ppm level was to "develop a method to prioritize the case load and indicate whether a significant volume of fuel had been released or discharged" (RWQCB, June, 1988).

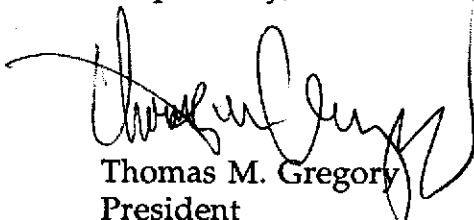
Copies of this report should be submitted to:

Alameda County Health Care Services Agency  
80 Swan Way, Room 200  
Oakland, California 94621  
Attn: Ms. Eva Chew

Additional copies of this report have been provided for the purpose of regulatory submittal.

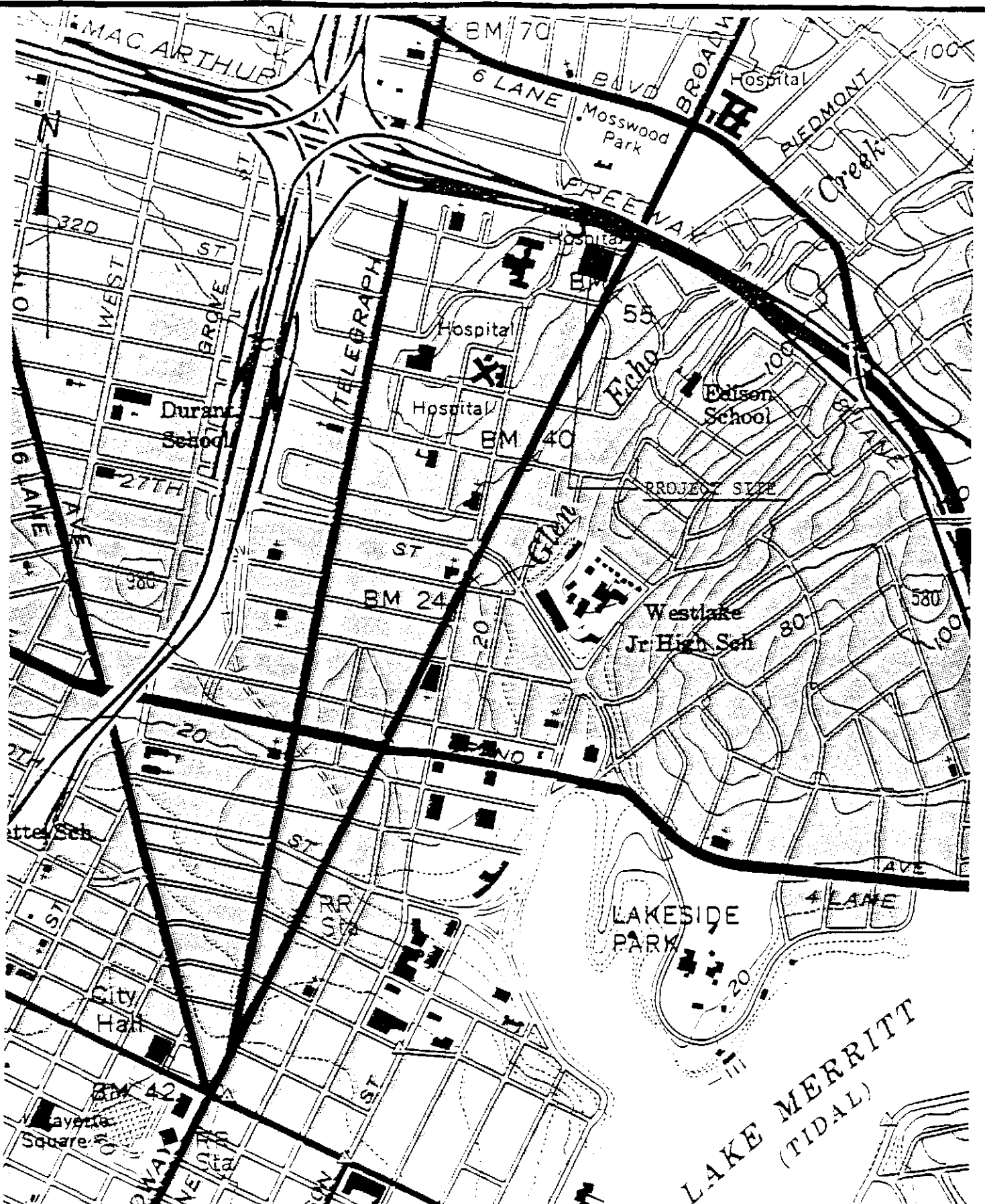
Should you have any questions or comments regarding the evaluations presented in this report, please call.

Respectfully,



Thomas M. Gregory  
President  
K.T.W. & Associates, Inc.

TMG/clg  
Attachments



TAL STROUGH CHEVROLET		
DATE 8-2-88	SCALE 1"=1000'	DRAWN BY jcg
WEDGEMOUNT MAP		
Figure 1		

34th STREET

APPROX. LOCATION OF FORMER GASOLINE TANK

APPROX. LOCATION OF FORMER WASTE OIL TANK

TA001

TA002

TB003

TB004

SIDEWALK

APPROX. LOCATION OF FORMER DISPENSER PUMP

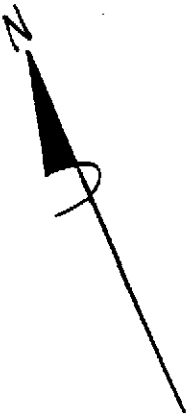
DOOR

STORAGE

PARTS DEPARTMENT

AUTO REPAIR SHOP

AUTO REPAIR SHOP



VAL STROUGH CHEVROLET		
DATE 7/1/93	SCALE 1"=10'	DRAWN BY dcg
SITE PLAN		
Figure 2		



# TABLE I

Val Strough Chevrolet  
 327 34th Street  
 Oakland, California

DATE	SAMPLE NO.	TPH-G	<i>ppb</i>				TPH-D	Cd	Cr	Ni	Pb	Zn	VH		
			B	T	E	X							EPA 8240	HOG	
3/4/93	gas < TA001	5	N.D.	110	480	280									
3/4/93	TA002	130	N.D.	200	4900	7800									
3/5/93	w.o. < TB003	N.D.	N.D.	5	14	18	96	N.D.	49	75	8	160	N.D.	N.D.	
3/5/93	TB004	N.D.	N.D.	N.D.	N.D.	N.D.	7	N/D	39	65	N.D.	22	N.D.	N.D.	

## ABBREVIATIONS:

TPH-G Total Petroleum Hydrocarbons as Gasoline

B Benzene

T Toluene

X Total Xylene

E Ethylbenzene

TPH-D Total Petroleum Hydrocarbons as Diesel

HOG Hydrocarbon Oil & Grease (Gravimetric)

Cd Cadmium

Cr Chromium

Ni Nickel

Pb Lead

Zn Zinc

VH EPA 8240 Volatile Halocarbons EPA 8010 Compound List by EPA 8240

N.D. Non-detected

N/A Not Applicable

Note: All soil samples are measured in milligrams per kilogram (mg/kg) or parts per million (p.p.m.).

**ATTACHMENT A**

**Soil Analytical Results**

MAR 17 '93 10:50 ALLSTATE DEMOLITION

TO:

P02

MAR 16 '93 17:04 CURTIS &amp; TOMPKINS BERKELEY

P.2



Curtis &amp; Tompkins, Ltd

LABORATORY NUMBER: 110242  
 CLIENT: SUBSURFACE ENVIRONMENTAL  
 PROJECT ID: 93124  
 LOCATION: VAL STROUGH CHEVROLET

DATE SAMPLED: 03/04, 05/93  
 DATE RECEIVED: 03/05/93  
 DATE ANALYZED: 03/12/93  
 DATE REPORTED: 03/15/93

Total Volatile Hydrocarbons with BTXE in Soils & Wastes  
 TVH by California DOHS Method/LUFT Manual October 1989  
 BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
110242-001	TA001 GASOLINE	5	ND(10)	110	480	280
110242-003	TS003 WASTE OIL	ND(1)	ND(5)	ND(5)	14	18

ND - Not detected at or above reporting limit; Reporting limit indicated in parentheses.



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110242  
CLIENT: SUBSURFACE ENVIRONMENTAL  
PROJECT ID: 93124  
LOCATION: VAL STROUGH CHEVROLET

DATE SAMPLED: 03/04/93  
DATE RECEIVED: 03/05/93  
DATE ANALYZED: 03/15/93  
DATE REPORTED: 03/16/93

Total Volatile Hydrocarbons with BTXE in Soils & Wastes  
TVH by California DOHS Method/LUFT Manual October 1989  
BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
110242-002	T002 GASOLINE	190	ND(80)	200	4,900	7,800

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

MAR 16 '93 17:05 CURTIS &amp; TOMPKINS BERKELEY

P. 4



Curtis &amp; Tompkins, Ltd.

LABORATORY NUMBER: 110242  
 CLIENT: SUBSURFACE ENVIRONMENTAL  
 PROJECT ID: 93124  
 LOCATION: VAL STROUGH CHEVROLET

DATE SAMPLED: 03/05/93  
 DATE RECEIVED: 03/05/93  
 DATE ANALYZED: 03/11/93  
 DATE REPORTED: 03/16/93

Total Volatile Hydrocarbons with BTXE in Soils & Wastes  
 TVH by California DOHS Method/LUFT Manual October 1989  
 BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
110242-004	TB004 WASTE OIL	ND(1)	ND(5)	ND(5)	ND(5)	ND(5)

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

MAR 12 '93 16:40 CURTIS & TOMPKINS BERKELEY

P. 4



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110242  
CLIENT: SUBSURFACE ENVIRONMENTAL  
PROJECT ID: 93124  
LOCATION: VAL STROUGH CHEVROLET

DATE SAMPLED: 03/04/93  
DATE RECEIVED: 03/05/93  
DATE EXTRACTED: 03/09/93  
DATE ANALYZED: 03/10/93  
DATE REPORTED: 03/12/93

Extractable Petroleum Hydrocarbons in Soils & Wastes  
California DOHS Method  
LUFT Manual October 1989

LAB ID	SAMPLE ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT* (mg/Kg)
110242-003	TB003	**		
110242-004	TB004	**	96	1
			7	1

WASTE OIL

\* Reporting limit applies to all analytes.  
\*\* Quantitated as diesel due to overlap of hydrocarbon ranges.

QA/QC SUMMARY

LOS RECOVERY, %

MAR 17 '93 11:03 ALLSTATE DEMOLITION

TO:

P02

MAR 12 '93 16:41 CURTIS & TOMPKINS BERKELEY

P.5



LABORATORY NUMBER: 110242-003  
CLIENT: SUBSURFACE ENVIRONMENTAL  
PROJECT ID: 93124  
LOCATION: VAL STROUGH CHEVROLET  
SAMPLE ID: T8003

DATE SAMPLED: 03/04/93  
DATE RECEIVED: 03/05/93  
DATE REPORTED: 03/12/93

METAL	RESULT	UNITS	REPORTING LIMIT	METHOD
Cadmium	ND	mg/Kg	0.3	EPA 6010
Chromium	49	mg/Kg	0.5	EPA 6010
Lead	8	mg/Kg	3	EPA 7420
Nickel	75	mg/Kg	2	EPA 6010
Zinc	160	mg/Kg	1	EPA 6010

WASTE OIL

QA/QC SUMMARY

	ANALYSIS DATE	RPD, %	RECOVERY, %
Cadmium	03/11/93	7	101
Chromium	03/11/93	4	100
Lead	03/11/93	<1	86
Nickel	03/11/93	4	102
Zinc	03/11/93	3	93

TO:

MAR 12 '93 16:42 CURTIS & TOMPKINS BERKELEY

P. 6



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110242-004  
CLIENT: SUBSURFACE ENVIRONMENTAL  
PROJECT ID: 93124  
LOCATION: VAL STROUGH CHEVROLET  
SAMPLE ID: T8004

DATE RECEIVED: 03/05/93  
DATE ANALYZED: 03/10/93  
DATE REPORTED: 03/12/93

EPA 8010 Compound List by EPA 8240  
Volatile Halocarbons in Soil & Wastes

Compound	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Trichlorofluoromethane	ND	5
1,1-Dichloroethane	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethane	ND	5
trans-1,2-Dichloroethane	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethane	ND	5
1,1,2-Trichloroethane	ND	5
trans-1,3-Dichloropropene	ND	5
Dibromochloromethane	ND	5
Bromoform	ND	5
Tetrachloroethylene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Chlorobenzene	ND	5
1,3-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
1,4-Dichlorobenzene	ND	5

WASTE DIL

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	102 %
Toluene-d8	100 %
Bromofluorobenzene	100 %



MAR 17 '93 10:55 ALLSTATE DEMOLITION

TO:

P03

MAR 12 '93 16:43 CURTIS &amp; TOMPKINS BERKELEY

P.9



Curtis &amp; Tompkins, Ltd.

LABORATORY NUMBER: 110242-METHOD BLANK  
 CLIENT: SUBSURFACE ENVIRONMENTAL  
 PROJECT ID: 93124  
 LOCATION: VAL STROUGH CHEVROLET

DATE ANALYZED: 03/10/93  
 DATE REPORTED: 03/12/93

EPA 8010 Compound List by EPA 8240  
 Volatile Halocarbons in Soil & Wastes

Compound	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	10
Trichlorofluoromethane	ND	20
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
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
1,1,2-Trichloroethane	ND	5
trans-1,3-Dichloropropene	ND	5
Dibromochloromethane	ND	5
Bromoform	ND	5
Tetrachloroethylene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Chlorobenzene	ND	5
1,3-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
1,4-Dichlorobenzene	ND	5

ND = Not detected at or above reporting limit.

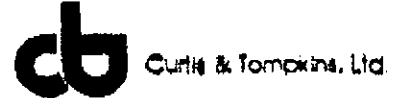
QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	107 %
Toluene-d8	99 %
Bromofluorobenzene	100 %

TO:

MAR 12 '93 16:43 CURTIS & TOMPKINS BERKELEY

P.10



LABORATORY CHECK SAMPLE SUMMARY SHEET FOR EPA 8240

Laboratory Number: 110242  
Client: Subsurface Environmental  
Sample type: SOIL

Analysis date: 03-10/93  
Spike file: ACA03

BLANK SPIKE DATA (spiked at 50 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS *
1,1-Dichloroethene	37.32	75 %	OK	59 - 172
Trichloroethene	49.36	99 %	OK	62 - 137
Benzene	49.06	98 %	OK	66 - 142
Toluene	49.14	98 %	OK	59 - 139
Chlorobenzene	50.73	101 %	OK	60 - 133
SURROGATES				
1,2-Dichloroethane-d4	51.96	104 %	OK	70 - 121
Toluene-d8	49.10	98 %	OK	81 - 117
Bromofluorobenzene	49.74	99 %	OK	74 - 121

\* Limits from CLP SOW 3/90

MAR 12 '93 16:44 CURTIS & TOMPKINS BERKELEY

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MS/MSD SUMMARY SHEET FOR EPA 8240

Laboratory Number: 110242  
 Client: Subsurface Environmental  
 Matrix Sample Number: 110242-004  
 Sample type: SOIL

Date Analyzed: 03/10/93  
 Spike File: ACA06  
 Spike Dup File: ACA07

MATRIX SPIKE DATA (spiked at 50 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS *
1,1-Dichloroethene	51.10	102 %	OK	59 - 172
Trichloroethene	50.38	101 %	OK	62 - 137
Benzene	48.62	98 %	OK	66 - 142
Toluene	50.97	102 %	OK	59 - 139
Chlorobenzene	52.04	104 %	OK	60 - 133
SURROGATES				
1,2-Dichloroethane-d4	57.37	115 %	OK	70 - 121
Toluene-d8	50.79	102 %	OK	81 - 117
Bromofluorobenzene	50.02	100 %	OK	74 - 121

MATRIX SPIKE DUP DATA (spiked at 50 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	51.98	104 %	OK	59 - 172
Trichloroethene	50.66	101 %	OK	62 - 137
Benzene	49.22	98 %	OK	66 - 142
Toluene	50.87	102 %	OK	59 - 139
Chlorobenzene	52.48	105 %	OK	60 - 133
SURROGATES				
1,2-Dichloroethane-d4	55.09	110 %	OK	70 - 121
Toluene-d8	50.03	100 %	OK	81 - 117
Bromofluorobenzene	49.97	100 %	OK	74 - 121

MATRIX DATA

1,1-Dichloroethene	0
Trichloroethene	0
Benzene	0
Toluene	0
Chlorobenzene	0

RPD DATA

SPIKE COMPOUNDS	SPIKE	SPIKE DUP	RPD	STATUS	LIMITS *
1,1-Dichloroethene	51.10	51.98	2 %	OK	< 22
Trichloroethene	50.38	50.66	1 %	OK	< 24
Benzene	48.62	49.22	1 %	OK	< 21
Toluene	50.97	50.87	0 %	OK	< 21
Chlorobenzene	52.04	52.48	1 %	OK	< 21

\* Limits from CLP SOW 3/90

03/17/93 12:25  
MAR 17 '93 10:57 ALLSTATE DEMOLITION

NO. 064 012

TO:

P06

P.2

MAR 12 '93 16:39 CURTIS & TOMPKINS BERKELEY



Client: Subsurface Environmental

Laboratory Login Number: 110242

Project Name: Val Strough Chevrolet  
Project Number: 93124

Report Date: 12 March 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric)

METHOD: SMMW 17:552027

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batch
110242-003	TS003	Soil	05-MAR-93	05-MAR-93	09-MAR-93	ND	Mg/Kg	30	TR	8522
110242-004	TS004	Soil	05-MAR-93	05-MAR-93	09-MAR-93	ND	Mg/Kg	50	TR	8522

WASTE OIL

ND = Not Detected at or above Reporting Limit (RL).

DATE 10-12-1990 CURTIS & TOMPKINS SERVICE



### QC Batch Report

Client: Subsurface Environmental  
Project Name: Val Strough Chevrolet  
Project Number: 93124

Laboratory Login Number: 110242  
Report Date: 12 March 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric)

QC Batch Number: 8812

#### Blank Results

Sample ID	Result	MDL	Units	Method	Date Analyzed
BLANK	ND	80	mg/Kg	SMW 17:88208F	09-MAR-93

#### Spike/Duplicate Results

Sample ID	Recovery	Method	Date Analyzed
BS	93%	SMW 17:88208F	09-MAR-93
BSD	91%	SMW 17:88208F	09-MAR-93

Average Spike Recovery	93%	Control Limits
Relative Percent Difference	3.7%	80% - 120%
		< 20%

MAR 17 '93 11:01 ALLSTATE DEMOLITION

TO:

P01

MAR 12 '93 16:41 CURTIS & TOMPKINS BERKELEY

P. 6



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110242-004  
CLIENT: SUBSURFACE ENVIRONMENTAL  
PROJECT ID: 93124  
LOCATION: VAL STROUGH CHEVROLET  
SAMPLE ID: TB004

DATE SAMPLED: 03/04/93  
DATE RECEIVED: 03/05/93  
DATE REPORTED: 03/12/93

METAL	RESULT	UNITS	REPORTING LIMIT	METHOD
Cadmium	ND	mg/Kg	0.3	EPA 6010
Chromium	39	mg/Kg	0.5	EPA 6010
Lead	ND	mg/Kg	3	EPA 7420
Nickel	65	mg/Kg	2	EPA 6010
Zinc	22	mg/Kg	1	EPA 6010

WASTE CIL

QA/QC SUMMARY	ANALYSIS DATE	RPD, %	RECOVERY, %
Cadmium	03/11/93		
Chromium	03/11/93	7	101
Lead	03/11/93	4	100
Nickel	03/11/93	<1	86
Zinc	03/11/93	4	102
		3	93

WILSONIAN

Lead

Nickel

Zinc

03/11/93

03/11/93

03/11/93

03/11/93

4  
<1  
4  
3

101  
100  
86  
102  
93

MAR 17 '93 11:02 ALLSTATE DEMOLITION

TO:

P01

MAR 12 '93 18:41 CURTIS & TOMPKINS BERKELEY

P.5



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110242-004  
CLIENT: SUBSURFACE ENVIRONMENTAL  
PROJECT ID: 93124  
LOCATION: VAL STROUGH CHEVROLET  
SAMPLE ID: ~~93004~~

DATE SAMPLED: 03/04/93  
DATE RECEIVED: 03/05/93  
DATE REPORTED: 03/12/93

METAL	RESULT	UNITS	REPORTING LIMIT	METHOD
Cadmium	ND	mg/Kg	0.3	EPA 6010
Chromium	39	mg/Kg	0.5	EPA 6010
Lead	ND	mg/Kg	3	EPA 7420
Nickel	65	mg/Kg	2	EPA 6010
Zinc	22	mg/Kg	1	EPA 6010

WASTE OIL

QA/QC SUMMARY	ANALYSIS DATE	RPD, %	RECOVERY, %
Cadmium	03/11/93	7	101
Chromium	03/11/93	4	100
Lead	03/11/93	<1	86
Nickel	03/11/93	4	102
Zinc	03/11/93	3	93



MAR 17 '93 10:34 ALLSTATE DEMOLITION

TO:

P01

MAR 12 '93 16:42 CURTIS & TOMPKINS BERKELEY

P.7



Curtis & Tompkins, L.

LABORATORY NUMBER: 110242-003  
CLIENT: SUBSURFACE ENVIRONMENTAL  
PROJECT ID: 93124  
LOCATION: VAL STROUGH CHEVROLET  
SAMPLE ID: T8003

DATE RECEIVED: 03/05/93  
DATE ANALYZED: 03/10/93  
DATE REPORTED: 03/12/93

EPA 8010 Compound List by EPA 8240  
Volatile Halocarbons in Soil & Wastes

Compound	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	10
Trichlorofluoromethane	ND	20
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
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
1,1,2-Trichloroethane	ND	5
trans-1,3-Dichloropropene	ND	5
Dibromochloromethane	ND	5
Bromoform	ND	5
Tetrachloroethylene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Chlorobenzene	ND	5
1,3-Dichlorobenzene	ND	5
1,2-Dichlorobenzene	ND	5
1,4-Dichlorobenzene	ND	5

WASTE CIL

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	107 %
Toluene-d8	103 %
Bromofluorobenzene	100 %

# CHAIN OF CUSTODY FORM

**Curtis & Tompkins, Ltd.**  
 2323 Fifth Street  
 Berkeley, CA 94710  
 (510) 486-0900 Phone  
 (510) 486-8532 Fax

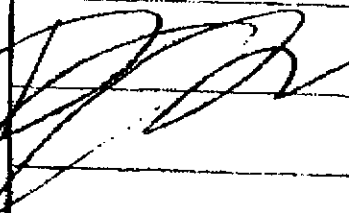
Project No: 93124      Company: Subsurface Environmental  
 Project Name: Valstrough Chevrolet      Telephone: 510 215 2533  
 Turnaround Time: 5 days      Fax: 510 234 7521

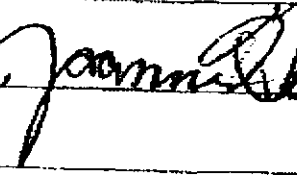
Laboratory Number	Sample ID.	Sampling Date	Time	Matrix			# of Containers	Preservative				Field Notes
				Soil	Water	Sludge		HCL	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	ICE	
1102-12	TA001	3/4/93	15:10	✓			1				✓	West end @ 11'
	TA002	3/4/93	15:15	✓			1				✓	East end @ 10.5'
	TB003	3/5/93	12:45	✓			1				✓	West end @ 9.2"
	TB004	3/5/93	12:55	✓			1				✓	East end @ 9.5'
	SP005	3/5/93	13:15	✓			1				✓	Composite Stackpile
	SP005	3/5/93	13:20	✓			1				✓	
	SP005	3/5/93	13:22	✓			1				✓	
	SP005	3/5/93	13:25	✓			1				✓	

TPH - Diesel	TPH - Gas	BTEX	Oil & Grease	Chlorinated Hydro	5 Metals (Cu, Pb)
✓	✓	✓	✓	✓	✓

MAR 16 '93 17:05 CURTIS & TOMPKINS BERKELEY

NOTES:  
 Hold SP005 until analyses determined.

RELINQUISHED BY:  
  
 DATE/TIME: 3/5/93 1:45

RECEIVED BY:  
  
 DATE/TIME: \_\_\_\_\_