

GETTLER - RYAN INC.3140 GOLD CAMP DRIVE, SUITE 170
RANCHO CORDOVA, CALIFORNIA 95870
PHONE: (916) 631-1300
FAX: (916) 631-1317

Fax

To: Roseanna Garcia-Lagrille **From:** Bob Lauritzen

Of: Alameda County Health Services **Of:** GETTLER-RYAN INC.

Fax: 510-337-9335 **Pages:**

Phone: 510-777-2149 **Date:** 12/3/2003

Re: Schweickert Heating Oil UST **CC:**

Urgent For Review Please Comment Please Reply Please Recycle

• Comments:

If you have any questions or have trouble receiving this FAX, please call me at (916) 631-1300. *ext 18*

Lab results for soil and water samples from Schweickert residence heating oil UST investigation. Please contact me regarding Alameda County's position on this case. It looks to me like some shallow heating oil contamination, however higher concentrations are found much deeper and most likely from another source.

Bob Lauritzen

12 pages



Report Number : 35943

Date : 12/3/2003

Bob Lauritzen
Gettler-Ryan Inc.
3140 Gold Camp Dr., Suite 170
Rancho Cordova, CA 95670

Subject : 4 Soil Samples and 1 Water Sample
Project Name : Schweickert Residence
Project Number : 948209

Dear Mr. Lauritzen,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Dahl", is written over a printed name. The signature is stylized and somewhat cursive.

Jeff Dahl



Report Number : 35943

Date : 12/3/2003

Project Name : **Schweickert Residence**Project Number : **948209**

Sample : B-1

Matrix : Water

Lab Number : 35943-01

Sample Date : 11/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/1/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/1/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/1/2003
Total Xylenes	3.1	0.50	ug/L	EPA 8260B	12/1/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/1/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/1/2003
G.C. Toluene - d8 (Surr)	93.5		% Recovery	EPA 8260B	12/1/2003
4-Bromofluorobenzene (Surr)	86.1		% Recovery	EPA 8260B	12/1/2003
TPH as Diesel (Silica Gel)	100000	5000	ug/L	M EPA 8015	12/1/2003

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Approved By:  Jeff Danil

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 35943

Date : 12/3/2003

Project Name : Schweickert Residence

Project Number : 948209

Sample : B1-10.0

Matrix : Soil

Lab Number : 35943-02

Sample Date : 11/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Toluene - dB (Surr)	101		% Recovery	EPA 8260B	11/27/2003
4-Bromofluorobenzene (Surr)	93.1		% Recovery	EPA 8260B	11/27/2003
TPH as Diesel	65	1.0	mg/Kg	M EPA 8015	11/30/2003
TPH as Diesel (Silica Gel)	61	1.0	mg/Kg	M EPA 8015	12/2/2003
1-Chlorooctadecane (Diesel Surrogate)	91.3		% Recovery	M EPA 8015	11/30/2003
1-Chlorooctadecane (Silica Gel Surr)	Interference		% Recovery	M EPA 8015	12/2/2003

ppm \rightarrow $\frac{1}{10^6}$

$mg = .001 g = 10^{-3} g$

$Kg = 1000 g = 10^3 g$

$\frac{10^{-3} g}{10^3 g} = 10^{-6}$

Approved By:  Jeff Dahl



Report Number : 35943

Date : 12/3/2003

Project Name : Schweickert Residence

Project Number : 948209

Sample : B1-20.0

Matrix : Soil

Lab Number : 35943-03

Sample Date : 11/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	11/27/2003
4-Bromofluorobenzene (Surr)	94.6		% Recovery	EPA 8260B	11/27/2003
TPH as Diesel	35	1.0	mg/Kg	M EPA 8015	11/30/2003
TPH as Diesel (Silica Gel)	26	1.0	mg/Kg	M EPA 8015	12/2/2003
1-Chlorooctadecane (Diesel Surrogate)	73.2		% Recovery	M EPA 8015	11/30/2003
1-Chlorooctadecane (Silica Gel Surr)	84.6		% Recovery	M EPA 8015	12/2/2003

Approved By:  Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 35943

Date : 12/3/2003

Project Name : Schweickert Residence

Project Number : 948209

Sample : B1-30.0

Matrix : Soil

Lab Number : 35943-04

Sample Date : 11/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Total Xylenes	0.015	0.0050	mg/Kg	EPA 8260B	11/27/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Tert-Butanol	< 0.010	0.010	mg/Kg	EPA 8260B	11/27/2003
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	11/27/2003
4-Bromofluorobenzene (Surr)	92.1		% Recovery	EPA 8260B	11/27/2003
TPH as Diesel	1900	1.0	mg/Kg	M EPA 8015	11/30/2003
TPH as Diesel (Silica Gel)	2000	1.0	mg/Kg	M EPA 8015	12/2/2003
1-Chlorooctadecane (Diesel Surrogate)	102		% Recovery	M EPA 8015	11/30/2003
1-Chlorooctadecane (Silica Gel Surr)	74.2		% Recovery	M EPA 8015	12/2/2003

Approved By: Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 35943

Date : 12/3/2003

Project Name : **Schweickert Residence**Project Number : **948209**Sample : **B1-40.0**

Matrix : Soil

Lab Number : 35943-05

Sample Date : 11/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	11/27/2003
4-Bromofluorobenzene (Surr)	95.1		% Recovery	EPA 8260B	11/27/2003
TPH as Diesel	350	1.0	mg/Kg	M EPA 8015	11/30/2003
TPH as Diesel (Silica Gel)	330	1.0	mg/Kg	M EPA 8015	12/2/2003
1-Chlorooctadecane (Diesel Surrogate)	105		% Recovery	M EPA 8015	11/30/2003
1-Chlorooctadecane (Silica Gel Surr)	104		% Recovery	M EPA 8015	12/2/2003

Approved By:  Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 35943

Date : 12/3/2003

Dec-03-03 01:44pm From:Gottler-Ryan Inc

+9166311317

T-073 P 008/012 F-037


QC Report : Method Blank Data

Project Name : **Schweickert Residence**

Project Number : **948209**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 1.0	1.0	mg/Kg	MEPA 8015	11/29/2003
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	MEPA 8015	11/29/2003
1-Chlorooctadecane (Diesel Surrogate)	77.3		%	MEPA 8015	11/29/2003
1-Chlorooctadecane (Silica Gel Surr)	77.3		%	MEPA 8015	11/29/2003
TPH as Diesel (Silica Gel)	< 50	50	ug/L	MEPA 8015	11/26/2003
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/27/2003
Toluene - dB (Surr)	101		%	EPA 8260B	11/27/2003
4-Bromofluorobenzene (Surr)	94.0		%	EPA 8260B	11/27/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	11/29/2003
Toluene - dB (Surr)	94.8		%	EPA 8260B	11/29/2003
4-Bromofluorobenzene (Surr)	98.3		%	EPA 8260B	11/29/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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Approved By:  _____
 Jeff Dahl

KIFF ANALYTICAL, LLC

2795 2nd St. Suite 300 Davis, CA 95616 530.297.4800

Dec-03-03 01:44pm From:Gottler-Ryan Inc +9156311317 T-073 P 009/012 F-037

Report Number : 35943

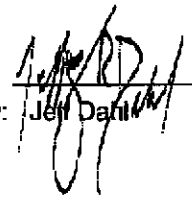
Date : 12/3/2003

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Schweickert Residence**

Project Number : **948209**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	35921-01	1.2	20.0	20.0	18.1	16.9	mg/Kg	M EPA 8015	11/30/03	85.1	79.4	6.83	60-140	25
Benzene	35986-02	<0.0050	0.0404	0.0401	0.0413	0.0408	mg/Kg	EPA 8260B	11/27/03	102	102	0.294	70-130	25
Toluene	35986-02	<0.0050	0.0404	0.0401	0.0406	0.0399	mg/Kg	EPA 8260B	11/27/03	100	99.6	0.850	70-130	25
Tert-Butanol	35986-02	<0.0050	0.202	0.200	0.186	0.184	mg/Kg	EPA 8260B	11/27/03	92.2	91.6	0.598	70-130	25
Methyl-t-Butyl Ether	35986-02	<0.0050	0.0404	0.0401	0.0410	0.0411	mg/Kg	EPA 8260B	11/27/03	101	102	1.05	70-130	25
Benzene	35983-01	<0.50	40.0	39.9	36.0	35.6	ug/L	EPA 8260B	11/29/03	90.1	89.2	1.03	70-130	25
Toluene	35983-01	<0.50	40.0	39.9	37.4	37.1	ug/L	EPA 8260B	11/29/03	93.5	93.0	0.617	70-130	25
Tert-Butanol	35983-01	220	200	200	418	426	ug/L	EPA 8260B	11/29/03	96.8	101	4.30	70-130	25
Methyl-t-Butyl Ether	35983-01	3.2	40.0	39.9	38.6	39.7	ug/L	EPA 8260B	11/29/03	88.5	91.5	3.34	70-130	25
TPH as Diesel	Blank	<50	1000	1000	1090	1010	ug/L	M EPA 8015	11/26/03	109	101	7.66	70-130	25

Approved By:  Jeff Davis

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number: 35943

Date: 12/3/2003

QC Report : Laboratory Control Sample (LCS)

Project Name : Schweickert Residence

Project Number : 948209

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
TPH as Diesel	20.0	mg/Kg	M EPA 8015	11/29/03	90.4	70-130
Benzene	0.0382	mg/Kg	EPA 8260B	11/27/03	104	70-130
Toluene	0.0382	mg/Kg	EPA 8260B	11/27/03	101	70-130
Tert-Butanol	0.191	mg/Kg	EPA 8260B	11/27/03	94.4	70-130
Methyl-t-Butyl Ether	0.0382	mg/Kg	EPA 8260B	11/27/03	101	70-130
Benzene	40.0	ug/L	EPA 8260B	11/29/03	89.2	70-130
Toluene	40.0	ug/L	EPA 8260B	11/29/03	90.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	11/29/03	86.8	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	11/29/03	87.8	70-130

KIFF ANALYTICAL, LLC

Approved By:  Jeff Datt

Dec-03-03 01:44pm From: Gattler-Ryan Inc +9166911917 T-079 P.010/012 F-037



2785 2nd Street, Suite 300
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4808

Lab No. **35943** Page **1** of **1**

Project Contact (Hardcopy or PDF To): **Bob Lauritzen**
 California EDF Report? Yes No

Company/Address: **Gettler Ryan, Inc Rancho Cordova**
3140 Gold Camp Dr. #170 95670
 Recommended but not mandatory to complete this section:
 Sampling Company Log Code: _____

Phone No.: **416-631-1300** FAX No.: **416-631-1317**
 Global ID: _____

Project Number: **948209** P.O. No.: _____
 EDF Deliverable To (Email Address): **blauritzen@grinc.com**

Project Name: **Schweickert Residence**
 Sampler Signature: *Bob Lauritzen*

Project Address: **515 S. Livermore Ave. Livermore, CA**

Sample Designation	Sampling		Container			Preservative				Matrix	
	Date	Time	40 ml VOA	SLEEVE	1 L. Amp	HCl	HNO ₃	ICE	NONE	WATER	SOIL
B-1	11/21/03	1210	✓	1		✓				✓	
B1-10.0		915		✓				✓			✓
B1-20.0		936		✓				✓			✓
B1-30.0		1130		✓				✓			✓
B1-40.0		1140		✓				✓			✓

Chain-of-Custody Record and Analysis Request

Analysis Request												TAT				
BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/80015)	TPH as Diesel (80015)	TPH as Motor Oil (80015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TPH-Diesel (5175/1258-4)	BTEX/MTBE/TBA by 8260B	12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
													✓	✓		01
													✓	✓		02
													✓	✓		03
													✓	✓		04
													✓	✓		05

Relinquished by: *Robert K. [Signature]* Date: **11/24/03** Time: _____ Received by: _____

Relinquished by: _____ Date: _____ Time: _____ Received by: _____

Relinquished by: _____ Date: **11/24/03** Time: **1120** Received by Laboratory: **John Little / Kiff Analytical**

Remarks: _____
 Bill to: **Gettler-Ryan, Inc.**

Dec-03-03 01:45pm From: Gettler-Ryan Inc +9166311317 T-073 P.01/012 F-037

DRAFT

Table 1 - Chemical Analytical Results

Marie Schweichert Property
515 South Livermore Ave.
Livermore, California

Sample ID	Sample Depth (ft)	Sample Date	TPHd* (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	MtBE (ppm)	TBA (ppm)	O&G (ppm)
Historical Soil Data										
TP-1(S)	5.0	7/29/2003	36	<0.0050	<0.0050	<0.0050	<0.0050	---	---	<0.0050
Comp-1(A,B,C,D)	---	7/29/2003	29	<0.0050	<0.0050	<0.0050	<0.0050	---	---	<0.0050
Soil Boring B-1										
B1-10.0	10.0	11/21/2003	65/61	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
B1-20.0	20.0	11/21/2003	35/31	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
B1-30.0	30.0	11/21/2003	1,900/2,000	<0.0050	<0.0050	<0.0050	0.015	<0.0050	<0.010	---
B1-40.0	40.0	11/21/2003	350/330	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
Groundwater Sample (pph)										
B-1	50	11/21/2003	100,000	<0.50	<0.0050	<0.0050	3.1	<0.50	<5.0	---

Explanation:

TPHd = Total Petroleum Hydrocarbons as diesel
BTEX = Benzene, toluene, ethylbenzene, xylenes
MtBE = Methyl tert-butyl ether
TBA = tert-Butyl alcohol
ppm = parts per million
ppb = parts per billion
-- = not analyzed
* = TPHd/TPHd (silica gel)

Analytical Methods:

TPHd by EPA Method 8015
BTEX, MtBE and TBA by EPA Method 8260B

Analytical Laboratory:

Kirt Analytical (ELAP # 2236)