



GETTLER-RYAN INC.

July 27, 2005

Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Ste. 250
Alameda, CA 94502-6577

Alameda County
AUG 0 2005
Environmental Health


**Subject: Groundwater Monitoring and Sampling Event of July 12, 2005
Schwieckert Property, 515 S. Livermore Avenue, Livermore, California
Alameda County Site #R00002595**

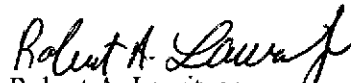
Mr. Wickham:

On behalf of Mrs. Marie Schwieckert, Gettler-Ryan-Inc (GR) is submitting this report summarizing the groundwater monitoring and sampling event of July 12, 2005 performed by GR at the above referenced site. Water level data, groundwater elevations, separate-phase hydrocarbon thickness (if any), and laboratory-reported groundwater data including those parameters associated with the biodegradation of petroleum hydrocarbons are presented in attached Table 1. Groundwater field parameters collected during this sampling event are presented in Table 2 (attached). A potentiometric map for this event is included as Figure 1. Groundwater samples were collected from the piezometers and submitted to California Laboratory Services (ELAP #1233) for analyses. Field data sheets for this event are attached. A concentration map for this event is included as Figure 2. The chain of custody document and laboratory analytical report are also attached.

GR is scheduled to collect additional groundwater samples in October of 2005. If you have any questions, please feel free call us at (916) 631-1300

Sincerely,
Gettler-Ryan Inc.


Geoffrey B. Risse
Project Geologist


Robert A. Lauritzen
Senior Geologist, PG #7504



Attachments: Table 1. Grab Groundwater Monitoring Data
Table 2. Groundwater Field Parameter Results
Figure 1. Potentiometric Map
Figure 2. Concentration Map
Field Data Sheets
Laboratory Analytical Report and Chain of Custody

CC: Mrs. Marie Schwieckert
Ms. Julie Rose, McNichols, Randick, O'Dea, & Tooliatos LLP
Mr. Dennis Parfitt, State Water Resources Control Board

6747 Sierra Court, Suite J • Dublin, CA 94568 • (925) 551-7555 • Fax (925) 551-7888
3140 Gold Camp Drive, Suite 170 • Rancho Cordova, CA 95670 • (916) 631-1300 • Fax (916) 631-1317
1364 N. McDowell Blvd., Suite B2 • Petaluma, CA 94954 • (707) 789-3255 • Fax (707) 789-3218

Table 1
Grab Groundwater Monitoring Data[†]
Schwieckert Residence
515 S. Livermore Avenue
Livermore, California

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH Thickness (feet)	GWE (feet)	TPHd (ppb)	Ferrous Fe (mg/L)	Total Alkalinity (mg/L)	Carbon Dioxide (mg/L)	Sulfide (mg/L)	Methane (mg/L)	Total Manganese (µg/L)	Dissolved Manganese (µg/L)	Dissolved Oxygen (mg/L)	ORP (mV)	Nitrate (mg/L)	Sulfate (mg/L)
PZ-1	1/28/05	504.29	28.15	0.00	476.14	1,800	--	--	--	--	--	--	--	--	--	--	--
	4/26/05	504.29	22.49	0.00	481.80	7,700	--	--	--	--	--	--	--	--	--	--	--
	7/12/05	504.29	27.02	0.00	477.27	1,600	<0.10	390	38	1.6	0.066	1,600	1,600	4.5	440	24	51
PZ-2	1/28/05	503.40	27.58	0.00	475.82	93	--	--	--	--	--	--	--	--	--	--	--
	4/26/05	503.40	21.83	0.00	481.57	<50	--	--	--	--	--	--	--	--	--	--	--
	7/12/05	503.40	26.45	0.00	476.95	<50	<0.10	370	35	1.6	0.00063	1,600	1,100	3.3	450	15	63
PZ-3	1/28/05	503.44	27.77	0.00	475.67	83	--	--	--	--	--	--	--	--	--	--	--
	4/26/05	503.44	21.93	0.00	481.51	76 ¹	--	--	--	--	--	--	--	--	--	--	--
	7/12/05	503.44	26.63	0.00	476.81	<50	<0.10	400	30	2.0	0.0025	110	100	5.0	440	22	81
PZ-4	1/28/05	504.00	28.52	0.00	475.48	76	--	--	--	--	--	--	--	--	--	--	--
	4/26/05	504.00	22.69	0.00	481.31	<50	--	--	--	--	--	--	--	--	--	--	--
	7/12/05	504.00	27.38	0.00	476.62	<50	<0.10	350	22	2.4	<0.0004	86	<10	3.1	440	39	63
PZ-5	1/28/05	502.98	27.13	0.00	475.85	210	--	--	--	--	--	--	--	--	--	--	--
	4/26/05	502.98	21.32	0.00	481.66	<50	--	--	--	--	--	--	--	--	--	--	--
	7/12/05	502.98	25.99	0.00	476.99	<50	<0.10	350	26	2.4	<0.0004	120	45	5.1	440	31	76
PZ-6	1/28/05	504.23	27.57	0.00	476.66	250	--	--	--	--	--	--	--	--	--	--	--
	4/26/05	504.23	21.80	0.00	482.43	<50	--	--	--	--	--	--	--	--	--	--	--
	7/12/05	504.23	26.47	0.00	477.76	<50	<0.10	390	37	2.4	0.00043	54	46	5.5	460	37	120

Table 1
Grab Groundwater Monitoring Data⁺
Schwieckert Residence
515 S. Livermore Avenue
Livermore, California

Explanations

+ = no purge groundwater sampling

ppb = parts per billion

mg/L = milligrams per liter

µg/L = micrograms per liter

mV = millivolts

TPHd = Total Petroleum Hydrocarbons as diesel

ORP = Oxidation-Reduction Potential

SPH = Separate Phase Hydrocarbon

TOC = Top of Casing elevation measured relative to mean sea level

DTW = Depth to Water

-- = Not Analyzed

TOC surveyed by Morrow Surveying (PLS 5161) on February 7, 2005

¹Hydrocarbons reported as TPHd in this sample do not exhibit a typical Diesel chromatographic pattern. There are discrete peaks which may or may not be petroleum related.

Analytical Laboratory:

1/28/05 & 4/26/05: Kiff Analytical (ELAP# 2236)

7/12/05: California Laboratory Services (ELAP #1233)

Analytical Methods:

TPHd by EPA Method 8015M

Total Alkalinity by EPA Method 310.1

Carbon Dioxide by SM 4500C

Dissolved Oxygen by EPA Method 360.1

Ferrous Fe by SM 3500-Fe D

Nitrate as NO₃ & Sulfate as SO₄ by EPA Method 300.0

ORP by SM 2580

Sulfide by EPA Method 376.1

Total & Dissolved Manganese by EPA Method 200.7

Table 2
 Groundwater Field Parameter Results
 Schwieckert Property
 515 South Livermore Avenue
 Livermore, California

Sample ID	Sample Date	pH	Conductivity ($\mu\text{S}/\text{cm}$)	Temperature (degrees Celcius)	Dissolved Oxygen (mg/L)	ORP (mV)
PZ-1	7/12/05	7.05	1.066	22.07	5.29	58
PZ-2	7/12/05	7.14	1.095	20.57	4.33	-3.00
PZ-3	7/12/05	7.24	1.229	20.4	4.39	-26
PZ-4	7/12/05	7.29	0.830	20.62	3.77	9.00
PZ-5	7/12/05	7.23	1.100	20.35	5.37	51
PZ-6	7/12/05	7.14	1.126	20.91	4.60	52

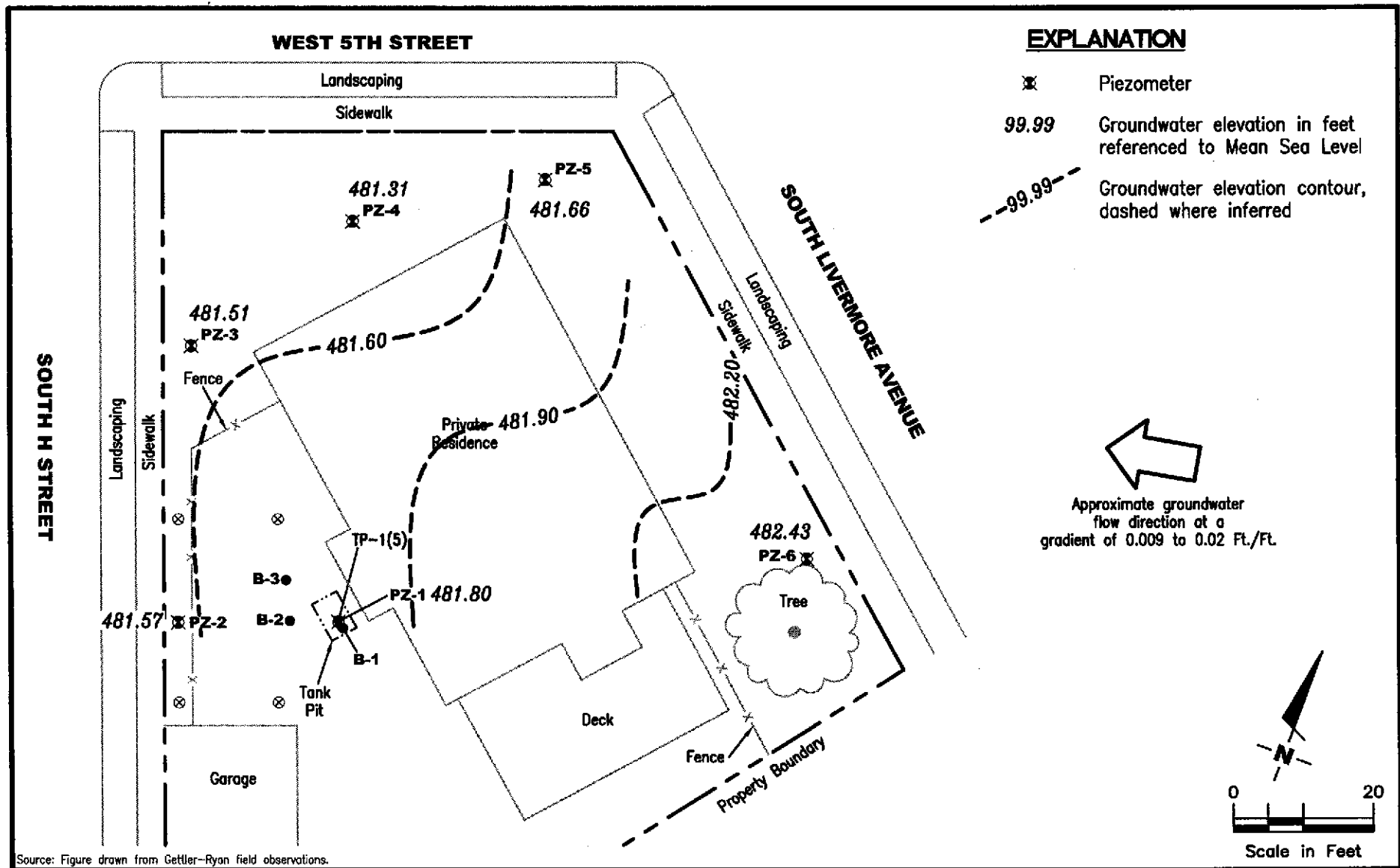
Explanations

$\mu\text{S}/\text{cm}$ = microSiemens per centimeter

mg/L = milligrams per liter

ORP = Oxidation Reduction Potential

mV = millivolts



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Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Marie Schweickert Property
515 South Livermore Avenue
Livermore, California

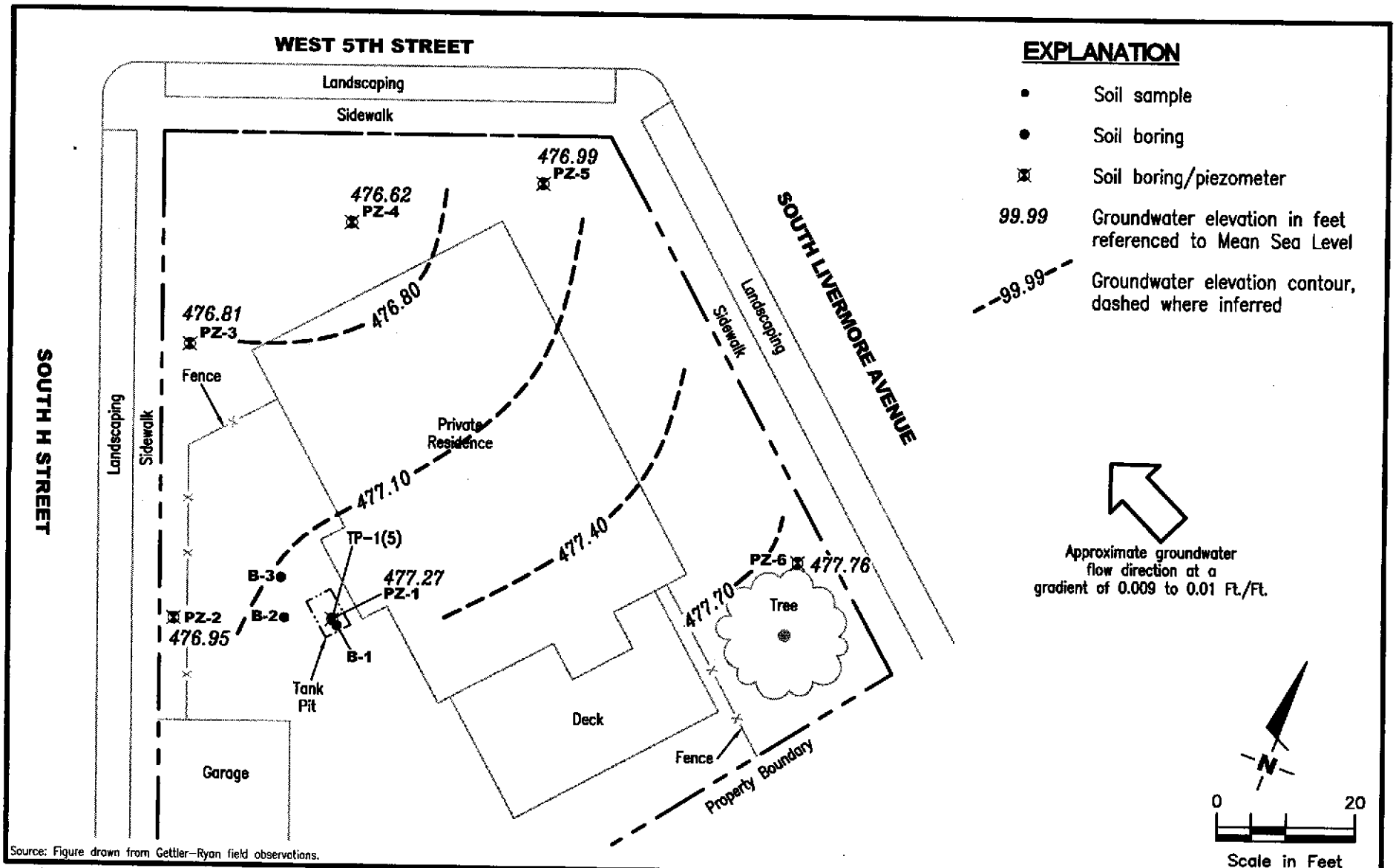
FIGURE
1

PROJECT NUMBER
948209

REVIEWED BY


DATE
April 26, 2005

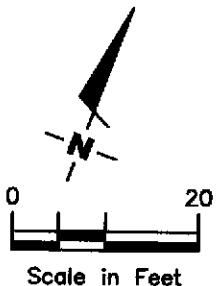
REVISED DATE



EXPLANATION

- Soil sample
- Soil boring
- ⊗ Soil boring/piezometer
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- - - 99.99 - - - Groundwater elevation contour, dashed where inferred


 Approximate groundwater flow direction at a gradient of 0.009 to 0.01 Ft./Ft.



Source: Figure drawn from Gettler-Ryan field observations.


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POTENTIOMETRIC MAP
 Marie Schweickert Property
 515 South Livermore Avenue
 Livermore, California

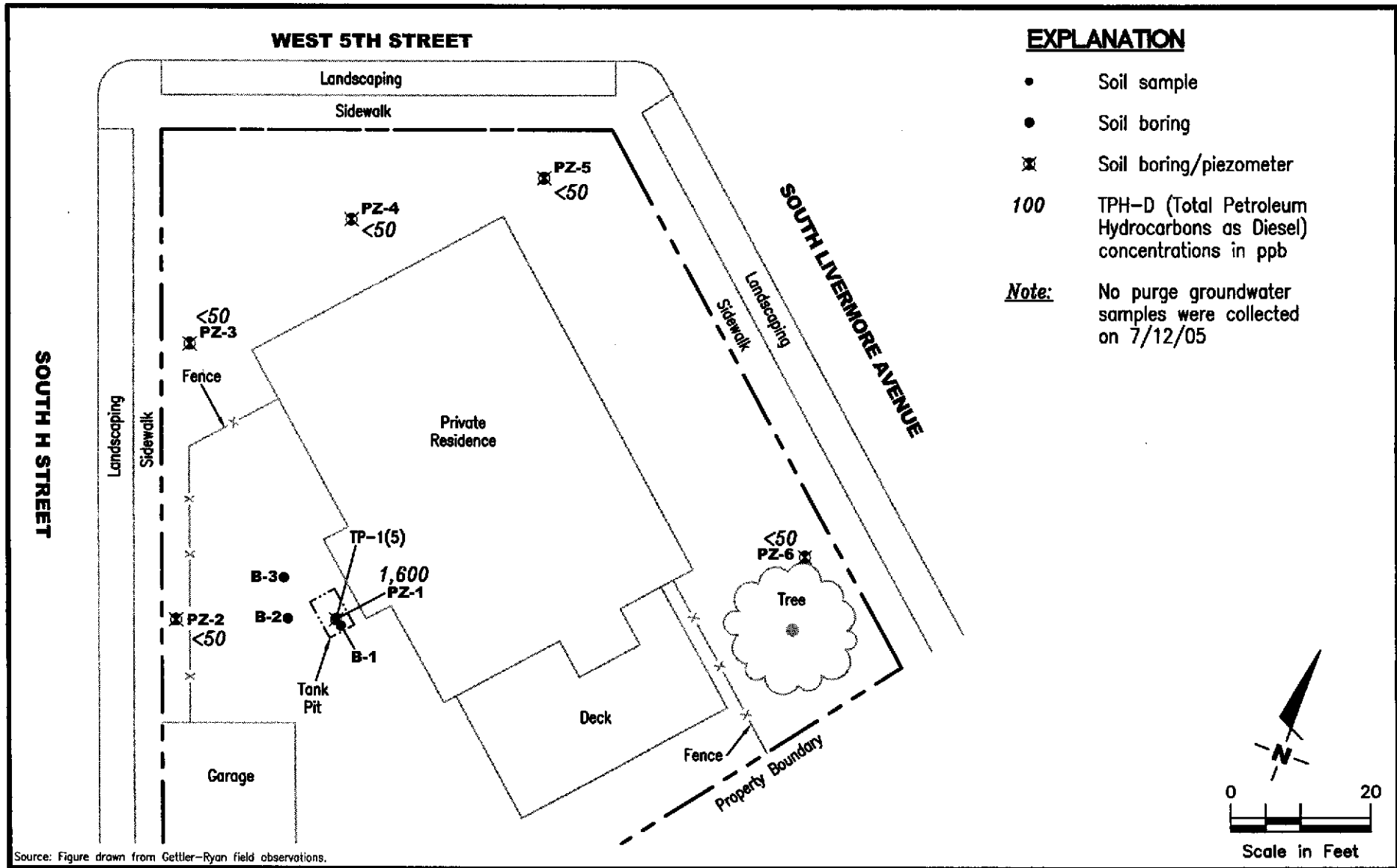
FIGURE
1

PROJECT NUMBER
948209

REVIEWED BY

DATE
July 12, 2005

REVISED DATE



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CONCENTRATION MAP
 Marie Schweickert Property
 515 South Livermore Avenue
 Livermore, California

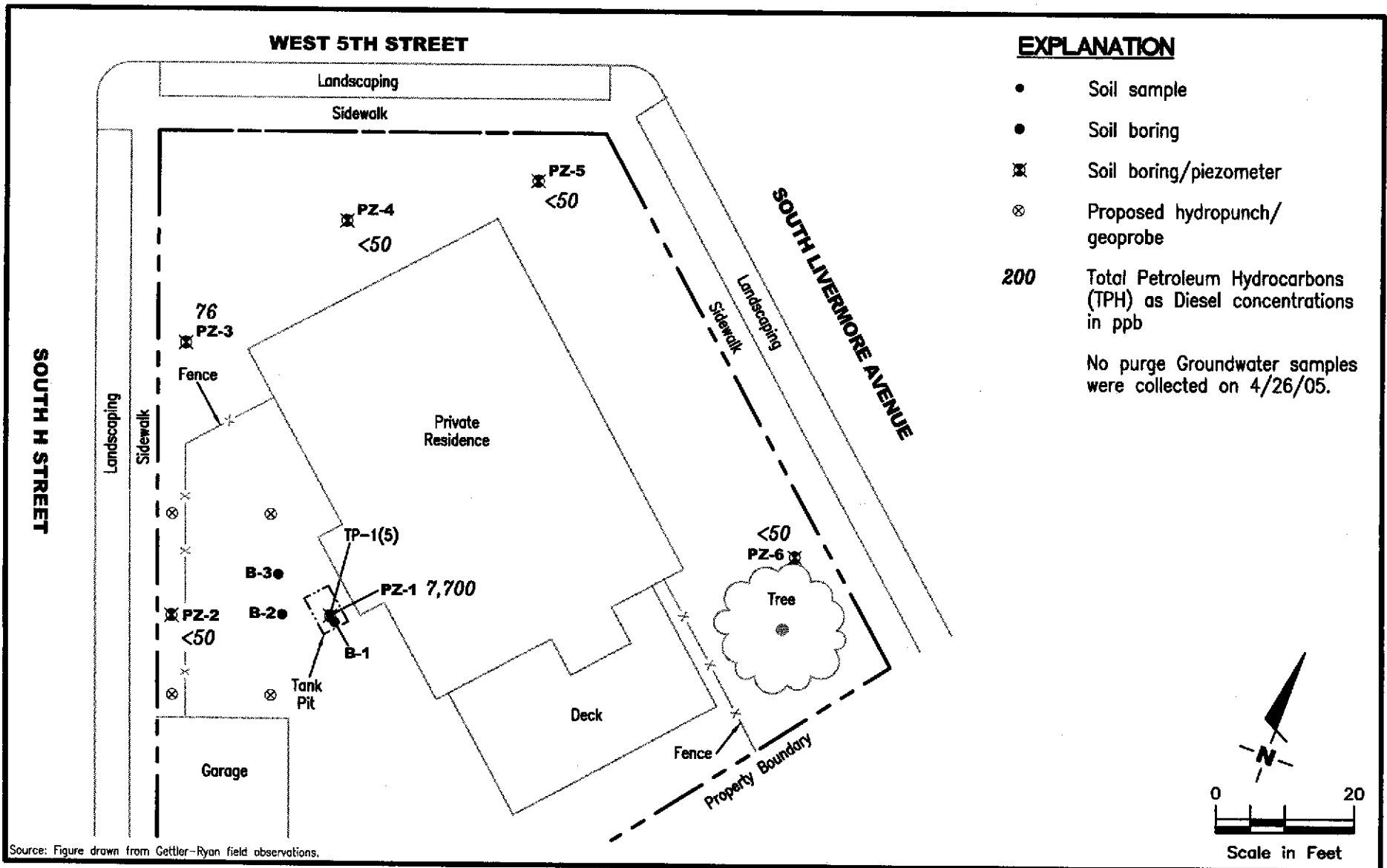
FIGURE
2

PROJECT NUMBER
948209

REVIEWED BY

DATE
July 12, 2005

REVISED DATE



EXPLANATION

- Soil sample
 - Soil boring
 - ⊗ Soil boring/piezometer
 - ⊗ Proposed hydropunch/geoprobe
- 200** Total Petroleum Hydrocarbons (TPH) as Diesel concentrations in ppb
- No purge Groundwater samples were collected on 4/26/05.

Source: Figure drawn from Gettler-Ryan field observations.

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CONCENTRATION MAP
 Marie Schweickert Property
 515 South Livermore Avenue
 Livermore, California

FIGURE

7b

PROJECT NUMBER
948209

REVIEWED BY

DATE
 April 26, 2005

REVISED DATE

**WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET**

Client/Facility: Schwieckert Property Job#: 948209.04
 Address: 515 S. Livermore Ave Date: 7/17/05
 City: Livermore, CA Sampler: Geoffrey D. Risse

Well ID: 3/4 PZ-1 Well Condition: Good
 Well Diameter: 3/4 in.
 Total Depth: 39.00 ft.
 Depth to Water: 27.02 ft.

Hydrocarbon Thickness:	Amount Bailed (product/water):			
	Ft.	(gal.)	(gal.)	(gal.)
Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	
	6" = 1.50	12" = 5.80		

11.98 X VF _____ = _____ X 10 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: Peristaltic Pump

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: Peristaltic Pump

Starting Time: _____ Weather Conditions: clear, warm
 Sampling Time: 1144 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Turbidity (ppm) (NTU)
<u>12:00</u>		<u>7.05</u>	<u>1,066</u>	<u>22.07</u>	<u>5.29</u>	<u>58</u>	

PZ-1 (1) 125mL Poly ^{None} LABORATORY INFORMATION CLS

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
PZ-1	(3) VOA	Y	None	CLS	Metadone
"	(1) 125mL Poly	Y	Zn Ac	CLS	Sulfide
"	(1) Amber	Y	None	CLS	TPH
PZ-1	(1) 1L Poly	Y	None	CLS	

COMMENTS: _____

**WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET**

Client/Facility: Schwieckert Property Job#: 948209.04
 Address: 515 S. Livermore Ave Date: 7/12/05
 City: Livermore, CA Sampler: Geoffrey D. Risse

Well ID: PZ-2 Well Condition: Good
 Well Diameter: 3/4 in. Hydrocarbon Thickness: _____ Ft. Amount Bailed (product/water): _____ (gal.)
 Total Depth: 3400 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water: 26.45 ft. 6" = 1.50 12" = 5.80

7.55 X VF _____ = _____ X 10 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer Sampling Equipment: Disposable Bailer
 Bailer Stack Suction Grundfos Other: Peristaltic Pump
 Bailer Pressure Bailer Grab Sample Other: Peristaltic Pump

Starting Time: _____ Weather Conditions: clear, warm
 Sampling Time: 11:21 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Turbidity (ppm) (NTU)
<u>11:52</u>		<u>7.14</u>	<u>1.095</u>	<u>20.57</u>	<u>4.33</u>	<u>-3</u>	

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>PZ-2</u>	<u>(3) VOA</u>	<u>Y</u>	<u>NONE</u>	<u>CLS</u>	<u>methane</u>
<u>PZ-2</u>	<u>(1) 125 mL Poly</u>	<u>Y</u>	<u>NONE ZNA</u>	<u>CLS</u>	<u>sulfide</u>
<u>PZ-2</u>	<u>(1) Amber</u>	<u>Y</u>	<u>NONE</u>	<u>CLS</u>	<u>TPH</u>
<u>PZ-2</u>	<u>(1) 1L Poly</u>	<u>Y</u>	<u>NONE</u>	<u>CLS</u>	

COMMENTS: PZ-2 (1) 125 mL Y NONE CLS

**WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET**

Client/Facility: Schwieckert Property Job#: 948209.04
 Address: 515 S. Livermore Ave Date: 11/2/09
 City: Livermore, CA Sampler: Gregory V. Risse

Well ID: PZ-3 Well Condition: Good
 Well Diameter: 3/4 in. Hydrocarbon Amount Bailed
 Thickness: _____ Ft. (product/water): _____ (gal.)
 Total Depth: 35.00 ft.
 Depth to Water: 26.63 ft.
 Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Factor (VF) 6" = 1.50 12" = 5.80
8.37 X VF _____ = _____ X 10 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer Sampling Equipment: Disposable Bailer
 Bailer Stack Suction Grundfos Other: Peristaltic Pump
 Bailer Pressure Bailer Grab Sample Other: Peristaltic Pump

Starting Time: _____ Weather Conditions: Clear, warm
 Sampling Time: 1200 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Turbidity (ppm) (NTU)
10:27		7.24	1.229	20.4	4.39	-26	

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
PZ-3	(3) VOA	Y	NONE	CLS	Methane
PZ-3	(1) 125mL Poly	Y	NONE ZNA	ZNA CLS	Sulfide
PZ-3	(1) Amber	Y	NONE	ELC	TPH
PZ-3	(1) 1L Poly	Y	NONE	CLS	

COMMENTS: _____

PZ-3 (1) 125mL Poly Y NONE CLS

**WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET**

Client/Facility: Schwieckert Property Job#: 948209.04
 Address: 515 S. Livermore Ave Date: 7/12/05
 City: Livermore, CA Sampler: Geoffrey D. Risse

Well ID: PZ-4 Well Condition: GOOD
 Well Diameter: 3/4 in. Hydrocarbon Thickness: _____ Ft. Amount Bailed (product/water): _____ (gal.)
 Total Depth: 35.00 ft.
 Depth to Water: 27.38 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

7.62 X VF _____ = _____ X 10 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other: Peristaltic Pump
 Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: peristaltic Pump

Starting Time: _____ Weather Conditions: Clear, cool
 Sampling Time: 1048 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Turbidity (ppm) (NTU)
<u>10:52</u>		<u>7.29</u>	<u>208</u>	<u>20.62</u>	<u>4.00</u>	<u>9</u>	<u>0</u>
					<u>3.77</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>PZ-4</u>	<u>(3) VOA</u>	<u>Y</u>	<u>NONE</u>	<u>CLS</u>	<u>Methane</u>
<u>PZ-4</u>	<u>(1) 125mL Poly</u>	<u>Y</u>	<u>Zn AL</u>	<u>CLS</u>	<u>Sulfide</u>
<u>PZ-4</u>	<u>(1) Amber</u>	<u>Y</u>	<u>NONE</u>	<u>CLS</u>	<u>TPH</u>
<u>PZ-4</u>	<u>(1) 1L Poly</u>	<u>Y</u>	<u>NONE</u>	<u>CLS</u>	

COMMENTS: _____

PZ-4 (1) 125mL Poly Y NONE CLS

**WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET**

Client/Facility: Schwieckert Property Job#: 948209.04
 Address: 515 S. Livermore Ave Date: 7/12/05
 City: Livermore, CA Sampler: Geoffrey D. Risse

Well ID: PZ-5 Well Condition: GOOD
 Well Diameter: 3/4 in. Hydrocarbon Thickness: _____ Ft. Amount Bailed (product/water): _____ (gal.)
 Total Depth: 35.00 ft.
 Depth to Water: 25.99 ft.
 Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 6" = 1.50 12" = 5.80
9.01 X VF _____ = _____ X 10 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer Bailer Stack Suction Grundfos Other: Peristaltic Pump
 Sampling Equipment: Disposable Bailer Bailer Pressure Bailer Grab Sample Other: Peristaltic Pump

Starting Time: _____ Weather Conditions: Clear, Cool
 Sampling Time: 1205 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? NONE If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Turbidity (ppm) (NTU)
<u>11:08</u>		<u>7.23</u>	<u>1,100</u>	<u>20.35</u>	<u>537</u>	<u>51</u>	

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>PZ-5</u>	<u>(3) VOA</u>	<u>Y</u>	<u>NONE</u>	<u>CLS</u>	<u>Methane</u>
<u>PZ-5</u>	<u>(1) 125mL Poly</u>	<u>Y</u>	<u>Zn Ac</u>	<u>CLS</u>	<u>Sulfide</u>
<u>PZ-5</u>	<u>(1) Amber</u>	<u>Y</u>	<u>NONE</u>	<u>CLS</u>	<u>TPH</u>
<u>PZ-5</u>	<u>(1) 1L Poly</u>	<u>Y</u>	<u>NONE</u>	<u>CLS</u>	

COMMENTS: _____
PZ-5 (1) 125mL Poly Y NONE CLS

**WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET**

Client/Facility: Schwieckert Property Job#: 948209,04
 Address: 515 S. Livermore Ave Date: 7/12/09
 City: Livermore, CA Sampler: Geoffrey D. Risse

Well ID: PZ-6 Well Condition: Good
 Well Diameter: 3/4 in. Hydrocarbon Thickness: _____ Ft. Amount Bailed (product/water): _____ (gal.)
 Total Depth: 38.00 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water: 26.47 ft. 6" = 1.50 12" = 5.80

8.53 X VF _____ = _____ X 10 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer Bailer Stack Suction Grundfos Other: Peristaltic Pump
 Sampling Equipment: Disposable Bailer Bailer Pressure Bailer Grab Sample Other: Peristaltic Pump

Starting Time: _____ Weather Conditions: _____
 Sampling Time: 1001 Water Color: _____ Odor: _____
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? No If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Turbidity (ppm) (NTU)
<u>11:08</u>		<u>7.23</u>	<u>1.100</u>	<u>20.35</u>	<u>5.37</u>	<u>51</u>	<u>(PZ-5)</u>
<u>11:19</u>		<u>7.14</u>	<u>1.126</u>	<u>20.91</u>	<u>4.97</u> <u>4.52</u> <u>4.60</u>	<u>52</u>	

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>PZ-6</u>	<u>(3) VOA</u>	<u>Y</u>	<u>NONE</u>	<u>CLS</u>	<u>Methane</u>
<u>PZ-6</u>	<u>(1) 125mL Poly</u>	<u>Y</u>	<u>NONE</u>	<u>CLS</u>	<u>Sulfide</u>
<u>PZ-6</u>	<u>(1) Amber</u>	<u>Y</u>	<u>NONE</u>	<u>CLS</u>	<u>TPH</u>
<u>PZ-6</u>	<u>(1) 1L Poly</u>	<u>Y</u>	<u>NONE</u>	<u>CLS</u>	

COMMENTS: _____
PZ-6 (1) 125mL Y NONE CLS

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

July 20, 2005

CLS Work Order #: COG0398
COC #:

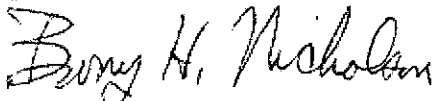
Geoffrey Risse
Gettler-Ryan, Inc.
3140 Gold Camp Road
Rancho Cordova, CA 95670

Project Name: Schwieckert Property

Enclosed are the results of analyses for samples received by the laboratory on 07/12/05 15:15. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,


FOR JAMES LIANG

James Liang, Ph.D. Barry Nicholson
Laboratory Director Quality Assurance Manager

CA DOHS ELAP Accreditation/Registration number 1233

Change of Status
Work Order #COG0398

Per client request, samples were analyzed for Total and Dissolved Manganese.

CALIFORNIA LABORATORY SERVICES

07/20/05 14:54

Gettler-Ryan, Inc.
3140 Gold Camp Road
Rancho Cordova, CA 95670

Project: Schwieckert Property
Project Number: 948209.04
Project Manager: Geoffrey Risse

CLS Work Order #: COG0398
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PZ-1 (COG0398-01) Water Sampled: 07/12/05 11:44 Received: 07/12/05 15:15									
Total Alkalinity	390	5.0	mg/L	1	CO05407	07/18/05	07/18/05	EPA 310.1	
Bicarbonate as CaCO3	390	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
Carbon Dioxide as CO2	38	5.0	"	"	CO05421	07/19/05	07/19/05	SM 4500C	
Dissolved Oxygen	4.5	0.1	"	"	CO05252	07/12/05	07/12/05	EPA 360.1	
Ferrous Iron	ND	0.10	"	"	CO05257	07/13/05	07/13/05	SM3500-Fe D	
Nitrate as NO3	24	0.50	"	"	CO05282	07/14/05	07/14/05	EPA 300.0	
Oxidation/Reduction Potential	440	1.0	mV	"	CO05274	07/13/05	07/13/05	SM 2580	
Sulfate as SO4	51	2.5	mg/L	5	CO05282	07/14/05	07/14/05	EPA 300.0	
Sulfide	1.6	1.0	"	1	CO05384	07/18/05	07/18/05	EPA 376.1	
PZ-2 (COG0398-04) Water Sampled: 07/12/05 11:51 Received: 07/12/05 15:15									
Total Alkalinity	370	5.0	mg/L	1	CO05407	07/18/05	07/18/05	EPA 310.1	
Bicarbonate as CaCO3	370	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
Carbon Dioxide as CO2	35	5.0	"	"	CO05421	07/19/05	07/19/05	SM 4500C	
Dissolved Oxygen	3.3	0.1	"	"	CO05252	07/12/05	07/12/05	EPA 360.1	
Ferrous Iron	ND	0.10	"	"	CO05257	07/13/05	07/13/05	SM3500-Fe D	
Nitrate as NO3	15	0.50	"	"	CO05282	07/14/05	07/14/05	EPA 300.0	
Oxidation/Reduction Potential	450	1.0	mV	"	CO05274	07/13/05	07/13/05	SM 2580	
Sulfate as SO4	63	2.5	mg/L	5	CO05282	07/14/05	07/14/05	EPA 300.0	
Sulfide	1.6	1.0	"	1	CO05384	07/18/05	07/18/05	EPA 376.1	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

07/20/05 14:54

Gettler-Ryan, Inc.
3140 Gold Camp Road
Rancho Cordova, CA 95670

Project: Schwieckert Property
Project Number: 948209.04
Project Manager: Geoffrey Risse

CLS Work Order #: COG0398
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PZ-3 (COG0398-05) Water Sampled: 07/12/05 12:00 Received: 07/12/05 15:15

Total Alkalinity	400	5.0	mg/L	1	CO05407	07/18/05	07/18/05	EPA 310.1	
Bicarbonate as CaCO3	400	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
Carbon Dioxide as CO2	30	5.0	"	"	CO05421	07/19/05	07/19/05	SM 4500C	
Dissolved Oxygen	5.0	0.1	"	"	CO05252	07/12/05	07/12/05	EPA 360.1	
Ferrous Iron	ND	0.10	"	"	CO05257	07/13/05	07/13/05	SM3500-Fe D	
Nitrate as NO3	22	0.50	"	"	CO05282	07/14/05	07/14/05	EPA 300.0	
Oxidation/Reduction Potential	440	1.0	mV	"	CO05274	07/13/05	07/13/05	SM 2580	
Sulfate as SO4	81	2.5	mg/L	5	CO05282	07/14/05	07/14/05	EPA 300.0	
Sulfide	2.0	1.0	"	1	CO05384	07/18/05	07/18/05	EPA 376.1	

PZ-4 (COG0398-08) Water Sampled: 07/12/05 10:48 Received: 07/12/05 15:15

Total Alkalinity	350	5.0	mg/L	1	CO05407	07/18/05	07/18/05	EPA 310.1	
Bicarbonate as CaCO3	350	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
Carbon Dioxide as CO2	22	5.0	"	"	CO05421	07/19/05	07/19/05	SM 4500C	
Dissolved Oxygen	3.1	0.1	"	"	CO05252	07/12/05	07/12/05	EPA 360.1	
Ferrous Iron	ND	0.10	"	"	CO05257	07/13/05	07/13/05	SM3500-Fe D	
Nitrate as NO3	39	0.50	"	"	CO05282	07/14/05	07/14/05	EPA 300.0	
Oxidation/Reduction Potential	440	1.0	mV	"	CO05274	07/13/05	07/13/05	SM 2580	
Sulfate as SO4	63	2.5	mg/L	5	CO05282	07/14/05	07/14/05	EPA 300.0	
Sulfide	2.4	1.0	"	1	CO05384	07/18/05	07/18/05	EPA 376.1	

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

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CALIFORNIA LABORATORY SERVICES

07/20/05 14:54

Gettler-Ryan, Inc.
3140 Gold Camp Road
Rancho Cordova, CA 95670

Project: Schwieckert Property
Project Number: 948209.04
Project Manager: Geoffrey Risse

CLS Work Order #: COG0398
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PZ-5 (COG0398-09) Water Sampled: 07/12/05 12:05 Received: 07/12/05 15:15									
Total Alkalinity	350	5.0	mg/L	1	CO05407	07/18/05	07/18/05	EPA 310.1	
Bicarbonate as CaCO3	350	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
Carbon Dioxide as CO2	26	5.0	"	"	CO05421	07/19/05	07/19/05	SM 4500C	
Dissolved Oxygen	5.1	0.1	"	"	CO05252	07/12/05	07/12/05	EPA 360.1	
Ferrous Iron	ND	0.10	"	"	CO05257	07/13/05	07/13/05	SM3500-Fe D	
Nitrate as NO3	31	0.50	"	"	CO05282	07/14/05	07/14/05	EPA 300.0	
Oxidation/Reduction Potential	440	1.0	mV	"	CO05274	07/13/05	07/13/05	SM 2580	
Sulfate as SO4	76	2.5	mg/L	5	CO05282	07/14/05	07/14/05	EPA 300.0	
Sulfide	2.4	1.0	"	1	CO05384	07/18/05	07/18/05	EPA 376.1	
PZ-6 (COG0398-12) Water Sampled: 07/12/05 10:01 Received: 07/12/05 15:15									
Total Alkalinity	390	5.0	mg/L	1	CO05407	07/18/05	07/18/05	EPA 310.1	
Bicarbonate as CaCO3	390	5.0	"	"	"	"	"	"	
Carbonate as CaCO3	ND	5.0	"	"	"	"	"	"	
Hydroxide as CaCO3	ND	5.0	"	"	"	"	"	"	
Carbon Dioxide as CO2	37	5.0	"	"	CO05421	07/19/05	07/19/05	SM 4500C	
Dissolved Oxygen	5.5	0.1	"	"	CO05252	07/12/05	07/12/05	EPA 360.1	
Ferrous Iron	ND	0.10	"	"	CO05257	07/13/05	07/13/05	SM3500-Fe D	
Nitrate as NO3	37	2.5	"	5	CO05282	07/14/05	07/14/05	EPA 300.0	
Oxidation/Reduction Potential	460	1.0	mV	1	CO05274	07/13/05	07/13/05	SM 2580	
Sulfate as SO4	120	2.5	mg/L	5	CO05282	07/14/05	07/14/05	EPA 300.0	
Sulfide	2.4	1.0	"	1	CO05384	07/18/05	07/18/05	EPA 376.1	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

07/20/05 14:54

Gettler-Ryan, Inc.
3140 Gold Camp Road
Rancho Cordova, CA 95670

Project: Schwieckert Property
Project Number: 948209.04
Project Manager: Geoffrey Risse

CLS Work Order #: COG0398
COC #:

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PZ-1 (COG0398-01) Water Sampled: 07/12/05 11:44 Received: 07/12/05 15:15									
Diesel	1.6	0.050	mg/L	1	CO05277	07/13/05	07/14/05	EPA 8015M	
PZ-2 (COG0398-04) Water Sampled: 07/12/05 11:51 Received: 07/12/05 15:15									
Diesel	ND	0.050	mg/L	1	CO05277	07/13/05	07/14/05	EPA 8015M	
PZ-3 (COG0398-05) Water Sampled: 07/12/05 12:00 Received: 07/12/05 15:15									
Diesel	ND	0.050	mg/L	1	CO05277	07/13/05	07/14/05	EPA 8015M	
PZ-4 (COG0398-08) Water Sampled: 07/12/05 10:48 Received: 07/12/05 15:15									
Diesel	ND	0.050	mg/L	1	CO05277	07/13/05	07/14/05	EPA 8015M	
PZ-5 (COG0398-09) Water Sampled: 07/12/05 12:05 Received: 07/12/05 15:15									
Diesel	ND	0.050	mg/L	1	CO05277	07/13/05	07/14/05	EPA 8015M	
PZ-6 (COG0398-12) Water Sampled: 07/12/05 10:01 Received: 07/12/05 15:15									
Diesel	ND	0.050	mg/L	1	CO05277	07/13/05	07/14/05	EPA 8015M	

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CALIFORNIA LABORATORY SERVICES

07/20/05 14:54

Gettler-Ryan, Inc.
3140 Gold Camp Road
Rancho Cordova, CA 95670

Project: Schwieckert Property
Project Number: 948209.04
Project Manager: Geoffrey Risse

CLS Work Order #: COG0398
COC #:

Metals by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PZ-1 (COG0398-01) Water Sampled: 07/12/05 11:44 Received: 07/12/05 15:15									
Manganese	1600	10	µg/L	1	CO05262	07/13/05	07/13/05	EPA 200.7	
PZ-2 (COG0398-04) Water Sampled: 07/12/05 11:51 Received: 07/12/05 15:15									
Manganese	1600	10	µg/L	1	CO05262	07/13/05	07/13/05	EPA 200.7	
PZ-3 (COG0398-05) Water Sampled: 07/12/05 12:00 Received: 07/12/05 15:15									
Manganese	110	10	µg/L	1	CO05262	07/13/05	07/13/05	EPA 200.7	
PZ-4 (COG0398-08) Water Sampled: 07/12/05 10:48 Received: 07/12/05 15:15									
Manganese	86	10	µg/L	1	CO05262	07/13/05	07/13/05	EPA 200.7	
PZ-5 (COG0398-09) Water Sampled: 07/12/05 12:05 Received: 07/12/05 15:15									
Manganese	120	10	µg/L	1	CO05262	07/13/05	07/13/05	EPA 200.7	
PZ-6 (COG0398-12) Water Sampled: 07/12/05 10:01 Received: 07/12/05 15:15									
Manganese	54	10	µg/L	1	CO05262	07/13/05	07/13/05	EPA 200.7	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

07/20/05 14:54

Gettler-Ryan, Inc.
3140 Gold Camp Road
Rancho Cordova, CA 95670

Project: Schwieckert Property
Project Number: 948209.04
Project Manager: Geoffrey Risse

CLS Work Order #: COG0398
COC #:

Metals (Dissolved) by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PZ-1 (COG0398-01) Water Sampled: 07/12/05 11:44 Received: 07/12/05 15:15									
Manganese	1600	10	µg/L	1	CO05262	07/13/05	07/13/05	EPA 200.7	
PZ-2 (COG0398-04) Water Sampled: 07/12/05 11:51 Received: 07/12/05 15:15									
Manganese	1100	10	µg/L	1	CO05262	07/13/05	07/13/05	EPA 200.7	
PZ-3 (COG0398-05) Water Sampled: 07/12/05 12:00 Received: 07/12/05 15:15									
Manganese	100	10	µg/L	1	CO05262	07/13/05	07/13/05	EPA 200.7	
PZ-4 (COG0398-08) Water Sampled: 07/12/05 10:48 Received: 07/12/05 15:15									
Manganese	ND	10	µg/L	1	CO05262	07/13/05	07/13/05	EPA 200.7	
PZ-5 (COG0398-09) Water Sampled: 07/12/05 12:05 Received: 07/12/05 15:15									
Manganese	45	10	µg/L	1	CO05262	07/13/05	07/13/05	EPA 200.7	
PZ-6 (COG0398-12) Water Sampled: 07/12/05 10:01 Received: 07/12/05 15:15									
Manganese	46	10	µg/L	1	CO05262	07/13/05	07/13/05	EPA 200.7	

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

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CALIFORNIA LABORATORY SERVICES

07/20/05 14:54

Gettler-Ryan, Inc.
3140 Gold Camp Road
Rancho Cordova, CA 95670

Project: Schwieckert Property
Project Number: 948209.04
Project Manager: Geoffrey Risse

CLS Work Order #: COG0398
COC #:

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Smart Chemistry Corporation

3401 La Grande Blvd, Sacramento, CA 95823, (916)391-3300, (916)391-3440 (fax)

Analytical Results of Methane in Water

To: **Dr. James Liang, Ms. Susan Shaw**
From: **CLS Labs, 3249 Fitzgerald Road, Rancho Cordova, CA 95742, (916)638-7301, (916)638-4510 (fax)**
Column: **J. P. Hsu, SMART CHEMISTRY Corporation**
Client Job Number: **30M X 0.53 Supel-Q PLOT Column**
Date Received: **COG0398**
Date Analyzed: **7/13/2005**
7/15/2005

Sample ID	METHANE
	Conc.(mg/L)
PZ-1	0.066
PZ-1 Duplicate	0.038
PZ-2	0.00063
PZ-2 Duplicate	0.00061
PZ-3	0.0025
PZ-3 Duplicate	0.0017
PZ-4	< 0.0004
PZ-4 Duplicate	< 0.0004
PZ-5	< 0.0004
PZ-5 Duplicate	< 0.0004
PZ-6	0.00043
PZ-6 Duplicate	0.00049
Method Blank	< 0.0004

Smart Chemistry Corporation

3401 La Grande Blvd, Sacramento, CA 95823 (916)391-3300, (916)391-3440 (fax), www.smartchemistry.com,
jphsu@smartchemistry.com

Initial Calibration on 7/15/05

Retention Time (min)	Lvl	ul	Area	Amt/Area (RF)	Compounds	Relative Standard Average RF	Standard Deviation of RF				
0.556	8	3.04E-04	337.59366	9.00E-07	METHANE	1.21E-06	12%				
	7	7.60E-04	618.34332	1.23E-06							
	6	1.52E-03	1217.13672	1.25E-06							
	5	7.60E-03	6471.47852	1.17E-06							
	4	2.00E-02	1.73E+04	1.16E-06							
	3	5.00E-02	3.97E+04	1.26E-06							
	2	1.00E-01	7.51E+04	1.33E-06							
	1	5.00E-01	3.63E+05	1.38E-06							
	0.616	8	6.28E-04	993.54175				6.32E-07	ETHENE/ETHYNE	6.97E-07	6%
		7	1.52E-03	2087.52148				7.28E-07			
6		3.24E-03	4268.28271	7.59E-07							
5		1.52E-02	2.23E+04	6.83E-07							
4		4.00E-02	6.15E+04	6.50E-07							
3		1.00E-01	1.48E+05	6.78E-07							
2		2.00E-01	2.80E+05	7.14E-07							
1		1	1.37E+06	7.32E-07							
0.66	8	3.04E-04	607.73492	5.00E-07	ETHANE	6.27E-07	13%				
	7	7.60E-04	1180.52356	6.44E-07							
	6	1.52E-03	2210.18506	6.88E-07							
	5	7.60E-03	1.14E+04	6.65E-07							
	4	2.00E-02	3.79E+04	5.27E-07							
	3	5.00E-02	8.44E+04	5.92E-07							
	2	1.00E-01	1.50E+05	6.66E-07							
	1	5.00E-01	6.85E+05	7.30E-07							

CONTINUOUS Calibration Verification

1.00%v Continuous Standard AnalysisTime	File name		uL Found	% Rec
7/15/2005 16:05	001F2801.D	Methane	0.0014	90%
7/15/2005 16:05	001F2801.D	Ethene	0.0027	89%
7/15/2005 16:05	001F2801.D	Ethane	0.0013	84%

SUBCONTRACT ORDER

790 per sample
COG0398

SENDING LABORATORY:

CLS Labs
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742
Phone: 916-638-7301
Fax: 916-638-4510
Project Manager: Mark Smith
Project: Schwieckert Property

RECEIVING LABORATORY:

SMART-CHEMISTRY
3401 La Grande Blvd.Rd.
Sacramento, CA 95823
Phone : (916) 391-3300
Fax: (916) 391-3440

5-CL5040-

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Methane (SUB)	10	07/19/05 12:0	07/26/05 11:44	COG0398-02	07/12/05 11:44	07/12/05 15:15	Water

01 Client sample ID: PZ-1

Sampler:

Laboratory sample ID: COG0398-02

Please use client sample ID on all reports

Containers Supplied:

Voa Vial - Unpres (A) Voa Vial - Unpres (B) Voa Vial - Unpres (C)

Methane (SUB)	10	07/19/05 12:0	07/26/05 11:51	COG0398-03	07/12/05 11:51	07/12/05 15:15	Water
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02 Client sample ID: PZ-2

Sampler:

Laboratory sample ID: COG0398-03

Please use client sample ID on all reports

Containers Supplied:

Voa Vial - Unpres (A) Voa Vial - Unpres (B) Voa Vial - Unpres (C)

Methane (SUB)	10	07/19/05 12:0	07/26/05 12:00	COG0398-06	07/12/05 12:00	07/12/05 15:15	Water
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03 Client sample ID: PZ-3

Sampler:

Laboratory sample ID: COG0398-06

Please use client sample ID on all reports

Containers Supplied:

Voa Vial - Unpres (A) Voa Vial - Unpres (B) Voa Vial - Unpres (C)

Relinquished By <i>[Signature]</i>	Date 7/13/05	Received By <i>[Signature]</i>	Date 7/13/05
Relinquished By <i>[Signature]</i>	Date 7/13/05	Received By <i>[Signature]</i>	Date 7/13/05 10:30

Shipped By *CLS Courier*

Airbill Number

SUBCONTRACT ORDER

COG0398

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Methane (SUB)	10	07/19/05 12:0	07/26/05 10:48	COG0398-07	07/12/05 10:48	07/12/05 15:15	Water

04 Client sample ID: PZ-4
Laboratory sample ID: COG0398-07
Please use client sample ID on all reports

Sampler:

Containers Supplied:
Voa Vial - Unpres (A) Voa Vial - Unpres (B) Voa Vial - Unpres (C)

05

Methane (SUB)	10	07/19/05 12:0	07/26/05 12:05	COG0398-10	07/12/05 12:05	07/12/05 15:15	Water
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Client sample ID: PZ-5
Laboratory sample ID: COG0398-10
Please use client sample ID on all reports

Sampler:

Containers Supplied:
Voa Vial - Unpres (A) Voa Vial - Unpres (B) Voa Vial - Unpres (C)

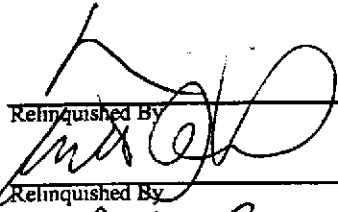
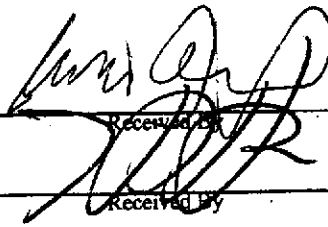
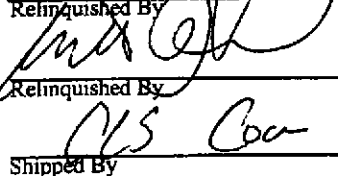
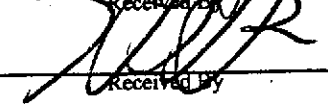

06

Methane (SUB)	10	07/19/05 12:0	07/26/05 10:01	COG0398-11	07/12/05 10:01	07/12/05 15:15	Water
---------------	----	---------------	----------------	------------	----------------	----------------	-------

Client sample ID: PZ-6
Laboratory sample ID: COG0398-11
Please use client sample ID on all reports

Sampler:

Containers Supplied:
Voa Vial - Unpres (A) Voa Vial - Unpres (B) Voa Vial - Unpres (C)

Relinquished By:  Date: 7/13/05
Received By:  Date: 7/13/05
Relinquished By:  Date: 7/13/05
Received By:  Date: 7/13/05 1830
Shipped By:  Airbill Number: _____ Page 2 of 2

REPORT TO:		CLIENT JOB NUMBER		ANALYSIS REQUESTED				GEOTRACKER:			
NAME AND ADDRESS <u>Gettler-Ryan INC</u>		<u>948209.04</u>		PRESERVATIVES Methanols Ferrous Iron Alkalinity / Ammonia HCO ₃ / TPHd NO / Redox Potential Sulfide Sulfate / Nitrate				EDF REPORT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
<u>3140 Gold Camp Dr. Ste. 170</u>		DESTINATION LABORATORY						GLOBAL ID: <u>T0600160029</u>			
<u>Rancho Cordova CA 95670</u>		<input checked="" type="checkbox"/> CLS (916) 638-7301						COMPOSITE:			
PROJECT MANAGER <u>Geoffrey D. Risse</u> <small>PHONE# 9161631-1300</small>		3249 FITZGERALD RD. RANCHO CORDOVA, CA. 95742						FIELD CONDITIONS:			
PROJECT NAME <u>Schwieckert Property</u>		<input type="checkbox"/> OTHER									
SAMPLED BY <u>Geoffrey D. Risse</u>											
JOB DESCRIPTION											
SITE LOCATION <u>515 S. Livermore Ave</u>											

DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	TYPE	TURN AROUND TIME				SPECIAL INSTRUCTIONS		
						1 DAY	2 DAY	5 DAY	10 DAY	OR	ALT. ID:	
7/12/05	1144	PZ-1	Water	Amphol Poly	1	3						
7/12/05	1144	PZ-1	Water	3	VOA	3	X					
7/12/05	1151	PZ-2	Water	3	VOA	3	X					
7/12/05	1151	PZ-2	Water	Amphol Poly	1	3		X	X	X	X	
7/12/05	1200	PZ-3	Water	Amphol Poly	1	3		X	X	X	X	
7/12/05	1200	PZ-3	Water	3	VOA	3	X					
7/12/05	1048	PZ-4	Water	3	VOA	3	X					
7/12/05	1048	PZ-4	Water	Amphol Poly	1	3		X	X	X	X	
7/12/05	1205	PZ-5	Water	Amphol Poly	1	3		X	X	X	X	
7/12/05	1205	PZ-5	Water	3	VOA	3	X					
7/12/05	1001	PZ-6	Water	3	VOA	3	X					
7/12/05	1001	PZ-6	Water	1	Amphol Poly	3		X	X	X	X	

SUSPECTED CONSTITUENTS		PRESERVATIVES:		(1) HCL	(3) = COLD	(5) = H ₂ SO ₄	(7) =		
				(2) HNO ₃	(4) = NaOH	(6) = Na ₂ S ₂ O ₃			
RELINQUISHED BY (SIGN)		PRINT NAME / COMPANY		DATE / TIME		RECEIVED BY (SIGN)		PRINT NAME / COMPANY	
		<u>Geoffrey D. Risse</u>		<u>7/12/05 1526</u>					
REC'D AT LAB BY:		DATE / TIME:		CONDITIONS / COMMENTS:					
<u>Jon R</u>		<u>7-12-05 1515</u>							
SHIPPED BY:		<input type="checkbox"/> FED X		<input type="checkbox"/> UPS		<input type="checkbox"/> OTHER		AIR BILL #	

Table 2
 Groundwater Monitoring Data⁺
 Schwieckert Residence
 515 S. Livermore Avenue
 Livermore, California

Alameda County

MAY 06 2005

Sample ID	Sample Date	TOC (feet)	DTW (feet)	Environmental Health		
				FPP Thickness (feet)	GWE (feet)	TPHd (ppb)
PZ-1	1/28/05	504.29	28.15	0.00	476.14	1,800
	4/26/05	504.29	22.49	0.00	481.80	7,700
PZ-2	1/28/05	503.40	27.58	0.00	475.82	93
	4/26/05	503.40	21.83	0.00	481.57	<50
PZ-3	1/28/05	503.44	27.77	0.00	475.67	83
	4/26/05	503.44	21.93	0.00	481.51	76 ¹
PZ-4	1/28/05	504.00	28.52	0.00	475.48	76
	4/26/05	504.00	22.69	0.00	481.31	<50
PZ-5	1/28/05	502.98	27.13	0.00	475.85	210
	4/26/05	502.98	21.32	0.00	481.66	<50
PZ-6	1/28/05	504.23	27.57	0.00	476.66	250
	4/26/05	504.23	21.80	0.00	482.43	<50

Explanations

+ = no purge groundwater sampling

ppb = parts per billion

TPHd = Total Petroleum Hydrocarbons as diesel

* GWE corrected due to the presence of free product;

correction factor: $[(\text{TOC}-\text{DTW})+(\text{product thickness} \times 0.75)]$

-- = Not measured

FPP = Free Phase Product

TOC = Top of Casing elevation measured relative to mean sea level

DTW = Depth to Water

TOC surveyed by Morrow Surveying (PLS 5161) on February 7, 2005

¹Hydrocarbons reported as TPHd in this sample do not exhibit a typical Diesel chromatographic pattern. There are discrete peaks which may or may not be petroleum related.

Analytical Laboratory:

Kiff Analytical (ELAP# 2236)

Analytical Methods:

TPHg by EPA Method 8015M