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**ENVIRONMENTAL ENGINEERING, INC**

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March 29, 2006

Mr. Jerry Wickham  
Alameda County Department of  
Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Project: 2841

Subject: Fuel Leak Case No. RO0002585, Wente Winery  
Site Located at 5565 Tesla Road, Livermore, California

Dear Mr. Wickham:

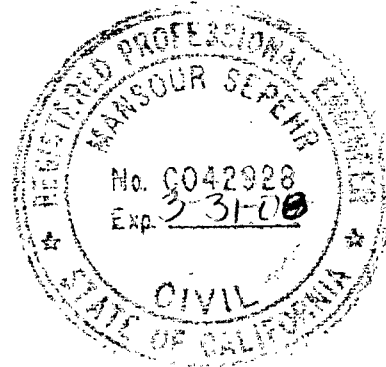
SOMA's "First Quarter 2006 Groundwater Monitoring Report" for the subject site has been uploaded to the State's GeoTracker database and Alameda County's FTP site for your review.

Thank you for your time in reviewing our report. Please do not hesitate to call me at (925) 734-6400, if you have any questions or comments.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mansour Sepehr', written over a horizontal line.

Mansour Sepehr, Ph.D., PE  
Principal Hydrogeologist



cc: Mr. Aris Krimetz w/report enclosure

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# **First Quarter 2006 Groundwater Monitoring Report**

**WENTE WINERY  
5565 Tesla Road  
Livermore, California**

March 29, 2006

Project 2841

**Prepared for**

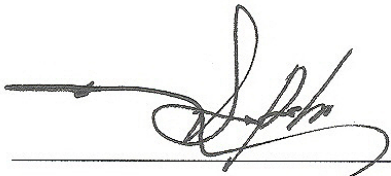
**Mr. Aris Krimetz  
5565 Tesla Road  
Livermore, California**

**Prepared by**

**SOMA Environmental Engineering, Inc.  
6620 Owens Drive, Suite A  
Pleasanton, California**

## CERTIFICATION

This report has been prepared by SOMA Environmental Engineering, Inc. on behalf of Mr. Aris Krimetz, for Wente Winery, which is located at 5565 Tesla Road, Livermore, California to comply with the requirements of the Alameda County Environmental Health Services and the California Regional Water Quality Control Board for the First Quarter 2006 groundwater monitoring event.



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Mansour Sepehr, Ph.D., P.E.  
Principal Hydrogeologist



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- Appendix A: SOMA's Groundwater Monitoring Procedures
- Appendix B: Table of Elevations & Coordinates on Monitoring Wells Measured by Harrington Surveys, Inc., and Field Measurements of Physical, Chemical & Biodegradation Parameters of the Groundwater Samples at Time of Sampling
- Appendix C: Laboratory Report and Chain of Custody Form for the First Quarter 2006 Monitoring Event
- Appendix D: Specifications for Off-site well at 5443 Tesla Road

## **1.0 INTRODUCTION**

This monitoring report has been prepared by SOMA Environmental Engineering, Inc. (SOMA) on behalf of Mr. Aris Krimez, for Wente Winery, which is located at 5565 Tesla Road, Livermore, California. Figure 1 shows the location of the Site.

This report summarizes the results of the First Quarter 2006 groundwater monitoring event conducted at the Site on February 13, 2006. This report also includes the laboratory analytical results on the groundwater samples.

A natural attenuation study was conducted during this monitoring event. The objective of the natural attenuation study was to evaluate whether the petroleum hydrocarbons found in the groundwater were biodegrading.

These activities were performed in accordance with the general guidelines of the California Regional Water Quality Control Board (CRWQCB) and the Alameda County Environmental Health Services (ACEHS). Appendix A details the groundwater monitoring procedures used during this monitoring event.

### **1.1 Site Description**

West of the winery buildings is an enclosed maintenance and agricultural storage area with a former underground storage tank (UST) pit that contained one gasoline and one diesel UST. The USTs were replaced with three aboveground storage tanks (ASTs), with a total capacity of 4,000 gallons. An on-site potable water supply well provides backup potable drinking water and processed water for the winery facility. This water supply well is located south of and presumably upgradient from the former USTs area.

### **1.2 Previous Activities and Investigations**

In 1987, two fuel USTs were removed from the Site. There is no information regarding the condition of the tank or evidence of leakage. In 1990, the ACEHS issued a notice of violation (NOV) for discharging waste sludge into an open ditch adjacent to a former steam-cleaning bay.

Clayton Environmental Consultants (Clayton) conducted a Phase I Environmental Site Assessment of the maintenance and storage areas. The Phase I study revealed the existence of the former USTs, former waste discharge area, and a number of agricultural storage areas.

In 2003, Clayton performed a subsurface investigation at the Site to implement the recommendations of the Phase I report. As shown in Figure 2, boreholes were advanced near the ASTs and near other RECs. The study indicated that a fuel release in the former UST area impacted the groundwater. In the former steam-cleaning bay, gasoline and motor oil-range petroleum hydrocarbons were detected in the groundwater. Figure 2 illustrates the locations of the soil borings.

Wente then retained SOMA to review Clayton's report. SOMA subsequently submitted a workplan that included a vicinity well survey, a regional hydrogeologic study, and an additional site characterization. The site characterization included sampling and evaluating the water quality of the on-site water supply well, installing monitoring wells, and additional lithologic characterization to better define the shallow/perched water-bearing zone.

On May 5, 2005, SOMA oversaw Woodward Drilling (Woodward) install three monitoring wells, MW-1 through MW-3, as shown in Figure 2. On May 20, 2005, Woodward developed the newly installed wells.

On June 24, 2005, SOMA oversaw Woodward drill two confirmatory boreholes (B-9 and B-10). The purpose of this investigation was to confirm the presence of petroleum hydrocarbons in the soil and groundwater next to the former USTs and to evaluate the current soil and groundwater conditions in close proximity of the former steam cleaning area. The results of this investigation are presented in SOMA's report entitled, "Phase I: Soil and Groundwater Investigation, Wente Winery, at 5565 Tesla Road, Livermore, California," dated July 25, 2005.

### **1.3 Regional Hydrogeologic Features**

The subject site is located in the Livermore Valley Groundwater Basin (LVGB). The LVGB consists of a structural trough that is an important source of irrigation water for the Livermore Valley. In the western part of the basin up to 40 feet of clay caps these water-bearing sediments. The water-bearing zone is predominantly a permeable unit consisting of sand and gravel in a clayey sand matrix. The potentiometric surface of valley-fill groundwater near the Site is at approximately 20 to 30 feet below ground surface (bgs).

The groundwater flow in the valley-fill and underlying Livermore Formations is to the northwest/north. The nearby water supply wells west of and presumably downgradient from the Site are potentially exposed to the on-site contaminant plume.

There is one on-site well and five wells in the properties immediately west of and presumably downgradient from the Site. North/northeast of and presumably up/cross gradient from the subject site there are seven wells within 2,000 feet of the investigation area. Approximately 1,800 feet south of the Site there is another water supply well. Available records indicate that six of the seven wells located north/northeast of and within 2,000 feet of the Site may be used as drinking water wells.

## **2.0 Results**

The following sections provide the results of the field measurements and laboratory analyses for the February 13, 2006 groundwater monitoring event.

## 2.1 Field Measurements

Table 1 presents the depths to groundwater, as well as the corresponding groundwater elevations for the monitoring wells. The depths to groundwater ranged from 6.29 feet in well MW-1 to 7.06 feet in well MW-3. The corresponding groundwater elevations ranged from 608.87 feet in well MW-1 to 610.26 feet in well MW-3.

The groundwater elevation contour map is displayed in Figure 3. The groundwater flows north to northwesterly across the Site, at a gradient of approximately 0.007 feet/feet. The gradient and flow direction are consistent with the previous monitoring event.

Refer to Table 1 for the historical site-wide groundwater elevation trends.

The field notes in Appendix B show the detailed measurements of the physical and chemical parameters of the groundwater for each well during this monitoring event. The more positive the redox potential of an electron acceptor, the more energetically favorable is the reaction utilizing that electron acceptor. The most energetically preferred electron acceptor for redox reactions is dissolved oxygen (DO). Evaluating the distribution of electron acceptors can provide evidence of where and to what extent hydrocarbon biodegradation is occurring.

DO concentrations ranged from 7.60 mg/L in well MW-3 to 17.50 mg/L in the off-site supply well. However, the DO concentration in the off-site supply well may be erroneous. The purging of the off-site supply well was conducted using an active downhole pump. The high DO level in this well could be the result of this active pumping station within the well.

Oxygen reduction potential (ORP) showed positive redox potentials throughout the Site. As previously noted, positive redox potentials are more energetically favorable in utilizing electron acceptors during chemical reactions. This promotes the removal of organic mass from the contaminated groundwater by indigenous bacteria in the subsurface during the release of the transfer of electrons.

## 2.2 Sampling of Off-Site Well at 5443 Tesla Road

On February 13, 2006, SOMA contacted Wente Vineyards (Wente) to inform them that the off-site well needed to be sampled. The field personnel at Wente, as well as SOMA, began extracting groundwater from the well using an on-site pump. Water passed through a flow cell during purging; within the flow cell, measurements for dissolved oxygen, pH, temperature, electrical conductivity, turbidity, and oxygen reduction potential were recorded using a U-22 meter. This method reduced the intrusion of oxygen from ambient air into the groundwater samples. A groundwater sample was collected when all of the field parameters stabilized. This occurred when approximately 36 gallons of groundwater had been



purged.

The field measurements and piping diagram of the pump are shown in Appendix A. Based on the information supplied by Wentz, the total depth of this well is 125 feet bgs. The pump was installed at 100 feet bgs in the year of 1972. The water from this well is used solely for irrigation of the vineyards. The letter referencing the off-site supply well is included in Appendix D.

### **2.3 Laboratory Analysis**

The historical total petroleum hydrocarbons as gasoline (TPH-g), total petroleum hydrocarbons as diesel (TPH-d), total petroleum hydrocarbons as motor oil (TPH-mo), benzene, toluene, ethylbenzene, total xylenes (BTEX), and Methyl tertiary Butyl Ether (MtBE) groundwater analytical results are shown in Table 1.

All TPH-g, BTEX, and MtBE constituents were below the laboratory reporting limit throughout the Site. TPH-d was below the laboratory reporting limit in wells MW-1, MW-3, and the off-site supply well. The highest TPH-d concentration was detected in the on-site supply well at 91.8 ug/L. TPH-mo was below the laboratory reporting limit in well MW-1 and the on and off-site supply wells. The highest TPH-mo concentration was detected in well MW-2 at 657 ug/L. No iso-concentration figure was drawn for either TPH-d or TPH-mo.

The TPH-d result in well MW-2 and the TPH-mo results in wells MW-2 and MW-3 may have been misrepresentative. The TPH-d result in well MW-2 displayed several discrete peaks during testing. The TPH-mo chromatographic pattern did not resemble the standard fuel pattern. Refer to Appendix C for further detailed information for both TPH-d and TPH-mo.

Table 2 shows the analytical results for gasoline oxygenates and lead scavengers. All gasoline oxygenates and lead scavengers were below the laboratory reporting limit in all of the groundwater samples collected during this monitoring event.

Table 3 shows the historical concentrations of volatile organic compounds (VOCs) in the groundwater. Tetrachloroethene, 1,1,1-Trichloroethane, Cis-1,2-dichloroethene, Trans-1,2-dichloroethene, vinyl chloride, 1,2-Dichloropropane, and 1,1-Dichloroethene were all below the laboratory reporting limit in all of the groundwater samples collected during this monitoring event.

Based on the results of this monitoring event, chloromethane was detected in wells MW-1, MW-2, MW-3, and the on-site supply well at 4.03 ug/L, 3.68 ug/L, 3.39 ug/L, and 3.58 ug/L, respectively. Chloroethane was detected in wells MW-1, MW-2, MW-3, and the on-site supply well at 1.03 ug/L, 0.59 ug/L, 0.61 ug/L, and 0.50 ug/L, respectively. Chloromethane was detected in the off-site supply well at 3.02 ug/L. These compounds are referenced in the laboratory report in Appendix C.

Table 4 shows the historical concentrations of metals in the groundwater. Cadmium, chromium, lead, and nickel were all below the laboratory reporting limit in the samples collected from both supply wells. Zinc was below the laboratory reporting limit in the on-site supply well and detected in the off-site supply well at 1,700 ug/L.

Appendix C includes the laboratory report and chain-of-custody (COC) form for this monitoring event.

### **3.0 Conclusions and Recommendations**

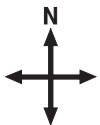
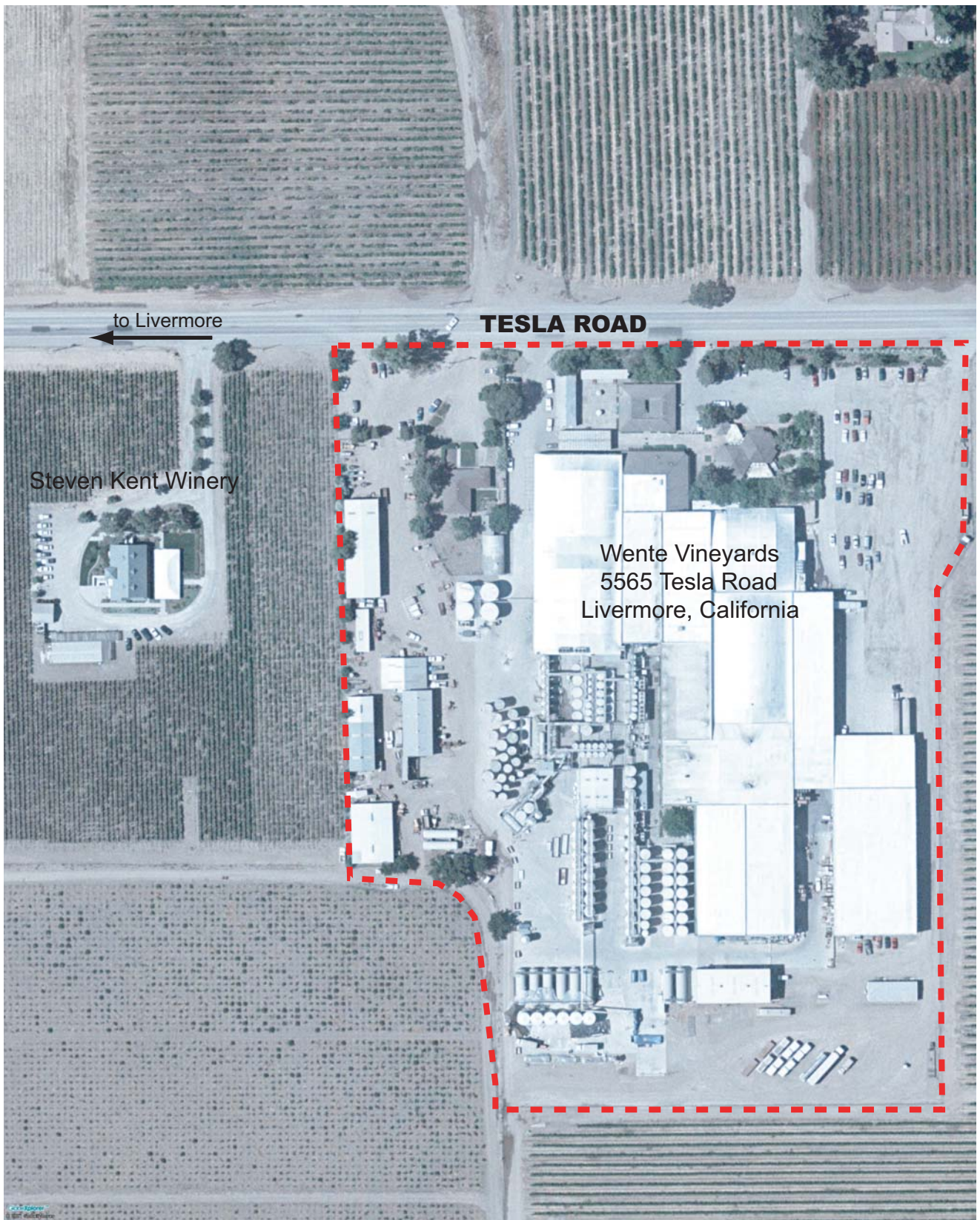
The results of the First Quarter 2006 groundwater monitoring event can be summarized as follows:

- The groundwater flow direction appears to be north to northwesterly across the Site, at a gradient of 0.007 feet/feet. The groundwater flow direction and gradient have remained consistent.
- Based on the results of the bio-attenuation study, indigenous bacteria have effectively removed organic mass from any impacted groundwater in the subsurface during the release of the transfer of electrons. This is evidenced by the high DO levels and positive redox potentials observed throughout the Site.
- Both TPH-d and TPH-mo were detected at low levels, however, the sample results may have been misrepresentative. The highest constituent was zinc.
- As the hydrocarbon concentrations have been limited and contained, the more observable constituent appears to be chlorinated solvents. Both chloromethane and chloroethane were detected site wide. Chloroethane and chloromethane are widely used as industrial solvents and refrigerants.

Based on the results from this monitoring event, SOMA recommends the following action items:

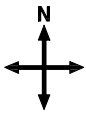
- Continuing of the quarterly monitoring events to further understand the seasonal variations in the groundwater quality conditions; and
- In-situ bioremediation to avoid increased levels of chloroethane and chloromethane, as well as, to avoid future chlorinates from impacting the groundwater.

# FIGURES



approximate scale in feet  
0 50 100

Figure 1: Site vicinity map.



▲ Off-Site Supply Well (Steven Kent Winery)

ACTIVE VINEYARDS

↑ TO TESLA RD

RESIDENCE

MW-1

B-7

PROCESS PAD

GARAGE

BUILDING A

B-8

AGRICULTURAL STORAGE

CPT-2

B-9

CPT-4

MW-2

CPT-1

B-1 @ 20'

Former FUEL TANKS

CPT-6

MW-3

PROCESS HARDWARE

TRACTOR SHED

ACTIVE VINEYARDS

FARM SHOP OFFICE

PROCESS PAD

PROCESS HARDWARE

CPT-3

B-3

B-5

PROCESS HARDWARE

WELDING SHOP

EQUIPMENT MAINTENANCE

PROCESS PAD

▲ MONITORING WELL (May 2005)

▲ PRIVATE WATER WELL

◆ TEMPORARY WELL BOREHOLE (June 24, 2005)

⊕ CPT BOREHOLE (October 2005)

◆ HSA CALIBRATION BOREHOLE

⊕ SOIL BORING (April 2003 By Clayton)

⊕ ANGLED SOIL BORING (April 2003 By Clayton)

B-10

HSA

CPT-5

B-4

WATER STORAGE

BUILDING S

B-6

PROCESS PAD

VINEYARD ACCESS

▲ On-Site Supply Well

VINEYARD ACCESS

ACTIVE VINEYARDS

approximate scale in feet

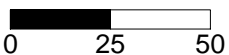
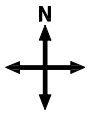


Figure 2: Map showing locations of newly installed wells, temporary well boreholes, and previous soil borings installed by Clayton group.



ACTIVE VINEYARDS

TO TESLA RD



RESIDENCE



GARAGE

PROCESS PAD

BUILDING A

MW-1  
608.87

B-7

608.25

609.45

609.85

CPT-2

B-1 @ 20°

CPT-4

MW-2  
609.51

CPT-1

B-2 @ 10°

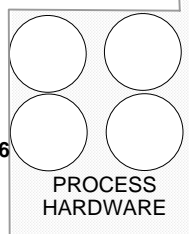
CPT-6

MW-3  
610.26

PROCESS HARDWARE



TRACTOR SHED



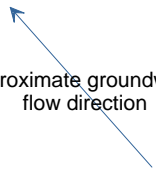
FARM SHOP OFFICE

CPT-3

PROCESS PAD

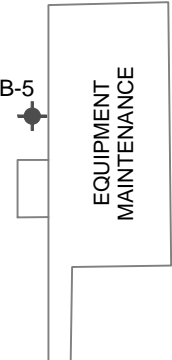
PROCESS HARDWARE

approximate groundwater flow direction



B-3

WELDING SHOP



B-5

EQUIPMENT MAINTENANCE

PROCESS PAD

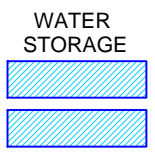
PROCESS HARDWARE

- MONITORING WELL (May 2005)
- PRIVATE WATER WELL
- CPT BOREHOLE
- HSA CALIBRATION BOREHOLE
- SOIL BORING (April 2003 By Clayton)
- ANGLED SOIL BORING (April 2003 By Clayton)
- NC NOT CALCULATED

HSA

CPT-5

B-4

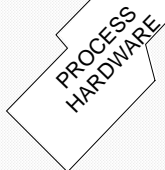


WATER STORAGE



B-6

BUILDING S



PROCESS HARDWARE

PROCESS PAD

VINEYARD ACCESS

On-Site Supply Well  
NC

VINEYARD ACCESS

ACTIVE VINEYARDS

approximate scale in feet

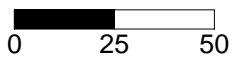


Figure 3: Groundwater elevation contour map in feet. February 2006.

# TABLES

**Table 1**  
**Historical Groundwater Elevation Data & Analytical Results**  
**Hydrocarbons, BTEX, & MtBE**  
**Wente Vineyards**  
**5565 Tesla Road, Livermore, California**

Monitoring Well	Date	Top of Casing (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-mo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)
<b>MW-1</b>	May-05	615.16	6.10	609.06	<200	<50	320 YZ	<0.5	<0.5	<0.5	<1.0	<0.5
	Sep-05	615.16	9.19	605.97	<50	<50	<300	<0.5	<2.0	<0.5	<1.0	<0.5
	Nov-05	615.16	8.90	606.26	<50	150 YZ	<300	<0.5	<2.0	<0.5	<1.0	<0.5
	<b>Feb-06</b>	<b>615.16</b>	<b>6.29</b>	<b>608.87</b>	<b>&lt;50</b>	<b>&lt;50</b>	<b>&lt;250</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	<b>&lt;1.0</b>	<b>&lt;0.5</b>
<b>MW-2</b>	May-05	616.03	6.69	609.34	<200	<50	<300	<0.5	<0.5	<0.5	<1.0	<0.5
	Sep-05	616.03	9.30	606.73	<50	<50	<300	<0.5	<2.0	<0.5	<1.0	<0.5
	Nov-05	616.03	9.20	606.83	<50	<50	<300	<0.5	<2.0	<0.5	<1.0	<0.5
	<b>Feb-06</b>	<b>616.03</b>	<b>6.52</b>	<b>609.51</b>	<b>&lt;50</b>	<b>76.5<sup>D35</sup></b>	<b>657<sup>D06</sup></b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	<b>&lt;1.0</b>	<b>&lt;0.5</b>
<b>MW-3</b>	May-05	617.32	7.04	610.28	<200	680	<300	<0.5	1.58	<0.5	<1.0	<0.5
	Sep-05	617.32	9.61	607.71	<50	300 Y	<300	<0.5	<2.0	<0.5	<1.0	<0.5
	Nov-05	617.32	9.60	607.72	<50	150 YZ	<300	<0.5	<2.0	<0.5	<1.0	<0.5
	<b>Feb-06</b>	<b>617.32</b>	<b>7.06</b>	<b>610.26</b>	<b>&lt;50</b>	<b>&lt;50</b>	<b>322<sup>D06</sup></b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	<b>&lt;1.0</b>	<b>&lt;0.5</b>
<b>B-9</b>	Jun-05	NA	NA	NA	1,850,000	540,000 LY	<24,000	3,820	114,000	40,400	177,700	<462
<b>B-10</b>	Jun-05	NA	NA	NA	<200	<50	<300	<0.5	4.23	1.10	4.03	<0.5
<b>Onsite Supply Well</b>	May-05	NS	NM	NC	<200	<50	<300	<0.5	0.85	<0.5	<1.0	<0.5
	Nov-05	NS	NM	NC	<50	100 YZ	<300	<0.5	<2.0	<0.5	<1.0	<0.5
	<b>Feb-06</b>	<b>NS</b>	<b>NM</b>	<b>NC</b>	<b>&lt;50</b>	<b>91.8</b>	<b>&lt;250</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	<b>&lt;1.0</b>	<b>&lt;0.5</b>
<b>Offsite Supply Well</b>	May-05	NS	NM	NC	<200	<50	<300	0.77	1.08	<0.5	<1.0	<0.5
	Nov-05	NS	NM	NC	<5,380	120 YZ	<300	<53.8	<215	<53.8	<108	<53.8
	Jan-06	NS	9.65	NC	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5
	<b>Feb-06</b>	<b>NS</b>	<b>NM</b>	<b>NC</b>	<b>&lt;50</b>	<b>&lt;50</b>	<b>&lt;250</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	<b>&lt;1.0</b>	<b>&lt;0.5</b>



**Table 1**  
**Historical Groundwater Elevation Data & Analytical Results**  
**Hydrocarbons, BTEX, & MtBE**  
**Wente Vineyards**  
**5565 Tesla Road, Livermore, California**

Monitoring Well	Date	Top of Casing (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-mo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)
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Notes:

- 1) The wells were installed on May 5, 2005 and developed by Woodward Drilling on May 20, 2005.
- 2) A grab sample was collected after the well development on May 20, 2005.
- 3) A grab sample was also collected from the water well, southeast of the water storage units on May 20, 2005.
- 4) The wells were surveyed by Harrington Surveys of Walnut Creek, CA on June 5, 2005.
- 5) A grab sample was collected from the borings on June 24, 2005.
- 6) The groundwater elevation for the May 2005 sampling was based on the survey data of Harrington Surveys.
- 7) The supply wells were first added to the quarterly events in the Fourth Quarter 2005.  
 The off-site water supply well was re-sampled on January 16, 2006, based on the directive of Alameda County Environmental Health Dpt. Tetrahydrofuran was detected at 19,700 ug/L and chloroethane was detected at 380 ug/L during the 4Q05 Monitoring Event.

NA: Not Applicable. B-9 and B-10 are boring locations and are not surveyed.

NC: Not calculated.

NM: Not Measured

NS: Not surveyed. The onsite well is a private well.

TPH-d: Total hydrocarbons as diesel

TPH-g: Total hydrocarbons as gasoline

TPH-mo: Total hydrocarbons as motor oil

L: Lighter weight hydrocarbons contributed to the quantitation

Y: Sample exhibits chromatographic pattern which does not resemble standard

Z: Sample exhibits unknown single peaks or peaks.

<: Not Detected above the laboratory reporting limit.

D35: Sample does not display fuel pattern. Sample contains several discrete peaks. (1Q06 diesel)

D06: Sample chromatographic pattern does not resemble fuel standard used for quantitation. (1Q06, motor oil)

**Table 2**  
**Historical Groundwater Analytical Results**  
**Gasoline Oxygenates & Lead Scavengers**  
**Wente Vineyards**  
**5565 Tesla Road, Livermore, California**

<b>Monitoring Well</b>	<b>Date</b>	<b>TBA (µg/L)</b>	<b>DIPE (µg/L)</b>	<b>ETBE (µg/L)</b>	<b>TAME (µg/L)</b>	<b>1,2-DCA (µg/L)</b>	<b>EDB (µg/L)</b>
<b>MW-1</b>	Sep-05	<2.5	<0.5	<0.5	<2.0	<0.5	<2.0
	<b>Feb-06</b>	<b>&lt;2.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>
<b>MW-2</b>	Sep-05	<2.5	<0.5	<0.5	<2.0	<0.5	<2.0
	<b>Feb-06</b>	<b>&lt;2.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>
<b>MW-3</b>	Sep-05	<2.5	<0.5	<0.5	<2.0	<0.5	<2.0
	<b>Feb-06</b>	<b>&lt;2.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>
<b>Onsite Supply Well</b>	Nov-05	<2.5	<0.5	<0.5	<2.0	<0.5	<2.0
	<b>Feb-06</b>	<b>&lt;2.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>
<b>Offsite Supply Well</b>	Nov-05	<269	<53.8	<53.8	<215	<53.8	<215
	Jan-06	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	<b>Feb-06</b>	<b>&lt;2.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>

**Table 2**  
**Historical Groundwater Analytical Results**  
**Gasoline Oxygenates & Lead Scavengers**  
**Wente Vineyards**  
**5565 Tesla Road, Livermore, California**

Monitoring Well	Date	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
-----------------	------	---------------	----------------	----------------	----------------	-------------------	---------------

Notes:

- 1) A grab sample was collected after well development on May 20, 2005.
- 2) Based on the approval of the Alameda County Environmental Health Services since gasoline oxygenates were not detected, further analysis was not required for wells MW-1 to MW-3. The only time gasoline oxygenates were tested for wells MW-1 to MW-3 was in the Third Quarter 2005.
- 3) The supply wells were first added to the quarterly events in the Fourth Quarter 2005. The off-site water supply well was re-sampled on January 16, 2006, based on the directive of Alameda County Environmental Health Dpt. Tetrahydrofuran was detected at 19,700 ug/L and chloroethane was detected at 380 ug/L during the 4Q05 Monitoring Event.

<: Not Detected above the laboratory reporting limit.

Gasoline Oxygenates:

TBA: tertiary Butyl Alcohol  
 DIPE: Di-Isopropyl Ether  
 ETBE: Ethyl tertiary Butyl Ether  
 TAME: Methyl tertiary Amyl Ether

Lead Scavengers:

EDB: 1,2-Dibromoethane  
 1,2-DCA: 1,2-Dichloroethane

**Table 3**  
**Historical Analytical Results For Volatile Organic Compound**  
**Analyses in Groundwater Samples**  
**Wente Vineyards**  
**5565 Tesla Road, Livermore, California**

Monitoring Well	Date	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	1,2-DCP (µg/L)	1,1-DCE (µg/L)
MW-1	Sep-05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Feb-06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-2	Sep-05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Feb-06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-3	Sep-05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Feb-06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Onsite Supply Well	Nov-05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Feb-06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Offsite Supply Well	Nov-05	<53.8	<53.8	<53.8	<53.8	<53.8	<53.8	<53.8
	Jan-06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Feb-06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

**Table 3**  
**Historical Analytical Results For Volatile Organic Compound**  
**Analyses in Groundwater Samples**  
**Wente Vineyards**  
**5565 Tesla Road, Livermore, California**

Monitoring Well	Date	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	1,2-DCP (µg/L)	1,1-DCE (µg/L)
-----------------	------	------------	------------	--------------------	----------------------	-----------------------	----------------	----------------

Notes:

- 1) A grab sample was collected after well development on May 20, 2005. However, the first time volatile organic compounds (VOCs) were analyzed was during the Third Quarter 2005 monitoring event.
  - 2) Based on the approval of the Alameda County Environmental Health Services since VOCs were not detected, further analysis was not required for wells MW-1 to MW-3. The only time VOCs were tested in wells MW-1 to MW-3 was in the Third Quarter 2005.
  - 3) The supply wells were first added to the quarterly events in the Fourth Quarter 2005. The off-site water supply well was re-sampled on January 16, 2006, based on the directive of Alameda County Environmental Health Dpt. Tetrahydrofuran was detected at 19,700 ug/L and chloroethane was detected at 380 ug/L during the 4Q05 Monitoring Event.
- <: Not detected above the laboratory reporting limit.

Volatile organic compounds (VOCs)

PCE:	tetrachloroethene	TCE:	1,1,1-trichloroethane
cis-1,2-DCE:	cis-1,2-dichloroethene	trans-1,2-DCE:	trans-1,2-dichloroethene
vinyl chloride		1,2-DCP:	1,2-dichloropropane
1,1-DCE:	1,1-dichloroethene		

**Table 4**  
**Historical Groundwater Analytical Results**  
**Metals**  
**Wente Vineyards**  
**5565 Tesla Road, Livermore, California**

Monitoring Well	Date	Cadmium (µg/L)	Chromium (µg/L)	Lead (µg/L)	Nickel (µg/L)	Zinc (µg/L)
MW-1	Sep-05	<5.0	<10	<3.0	<20	27
MW-2	Sep-05	<5.0	<10	<3.0	<20	23
MW-3	Sep-05	<5.0	<10	<3.0	<20	<20
B-10	Jun-05	12	930	82	3,600	800
Onsite Supply Well	Nov-05	<5.0	<10	<3.0	<20	62
	Feb-06	<5.0	<10	<3.0	<20	<20
Offsite Supply Well	Nov-05	<5.0	<10	<3.0	<20	830
	Jan-06	<5.0	<10	8.30	<20	650
	Feb-06	<5.0	15	<3.0	<20	1700

Notes:

- 1) Metals were tested at boring B-10 on June 24, 2005.
  - 2) Due to the results from B-10, the Alameda County Environmental Health Services requested that SOMA further analyze the wells for metals in a letter dated Sept. 19, 2005. SOMA collected grab samples from the wells on September 29, 2005.
  - 3) The only time metals were tested in wells MW-1 to MW-3 was in the Third Quarter 2005.
  - 4) The supply wells were first added to the quarterly events in the Fourth Quarter 2005. The off-site water supply well was re-sampled on January 16, 2006, based on the directive of Alameda County Environmental Health Dpt. Tetrahydrofuran was detected at 19,700 ug/L and chloroethane was detected at 380 ug/L during the 4Q05 Monitoring Event.
- <: Not Detected above the laboratory reporting limit.

# Appendix A

## SOMA's Groundwater Monitoring Procedures

## Field Activities

On February 13, 2006, SOMA's field crew conducted a groundwater monitoring event in accordance with the procedures and guidelines of the CRWQCB and the ACEHCS. During this groundwater monitoring event a total of three monitoring wells (MW-1 to MW-3) and two supply wells were monitored. Figure 2 shows the locations of the wells.

The depth to groundwater in each monitoring well was measured from the top of the casing to the nearest 0.01 foot using an electric sounder. Harrington Surveys Inc., of Walnut Creek, surveyed the Site on June 3, 2005. The survey datum was based on an elevation of 566.57 NAVD 88. Top of casing elevation data and the depth to groundwater in each monitoring well was used to calculate the groundwater elevation.

The survey data is included in Appendix B for the monitoring wells. The survey was conducted to comply with EDF requests for electronic reporting of data to the State Water Resources Control Board (SWRCB) Database.

Prior to collecting samples, each well was purged using a battery operated 2-inch diameter pump (Model ES-60 DC). During the purging activities, in order to obtain accurate measurements of groundwater parameters and especially to avoid the intrusion of oxygen from ambient air into the groundwater samples, field measurements were conducted in-situ (i.e., down-hole inside each monitoring well). The groundwater parameters such as DO, pH, temperature, EC, turbidity, and the ORP were measured in-situ using a Horiba, Model U-22 multi-parameter instrument. The equipment was calibrated at the Site using standard solutions and procedures provided by the manufacturer.

The pH of groundwater has an effect on the activity of microbial populations in the groundwater. The groundwater temperature affects the metabolic activity of bacteria. The groundwater conductivity (EC) is directly related to the concentration of ions in solution.

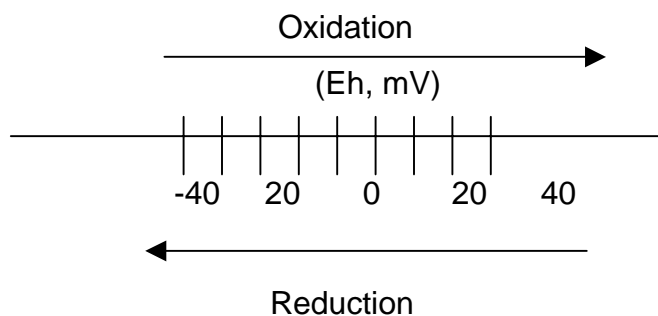
There is a strong correlation between the turbidity level and the biological oxygen demand of natural water bodies. The main purpose for checking the turbidity level is to provide a general overview of the extent of the suspended solids in the groundwater.

ORP (oxidation reduction potential) is the measure of the potential for an oxidation or reduction process to occur. In the oxidation process a molecule or ion loses one or several electrons. In the reduction process a molecule or ion gains one or several electrons. The unit of the redox potential is the Volt or m-Volt. The most important redox reaction in petroleum contaminated groundwater is the oxidation of petroleum hydrocarbons in the presence of bacteria and free molecular oxygen. Because the solubility of O<sub>2</sub> in water is low (9 mg/L at 25 °C and 11 mg/L at 5 °C), and because the rate of O<sub>2</sub> replenishment in subsurface environments is limited,



DO can be entirely consumed, when the oxidation of only a small amount of petroleum hydrocarbons occurs.

Oxidation of petroleum hydrocarbons can still occur, when all the dissolved  $O_2$  in the groundwater is consumed, however, the oxidizing agents (i.e., the constituents that undergo reduction) now become  $NO_3^-$ ,  $MnO_2$ ,  $Fe(OH)_3$ ,  $SO_4^{2-}$  and others (Freeze and Cherry, 1979). As these oxidizing agents are consumed, the groundwater environment becomes more and more reduced. If the process proceeds far enough, the environment may become so strongly reduced that the petroleum hydrocarbons may undergo anaerobic degradation, resulting in the production of methane and carbon dioxide. The concept of oxidation and reduction in terms of changes in oxidation states is illustrated below.



The purging of the wells continued until the parameters for DO, pH, temperature, EC, turbidity, and redox stabilized or three casing volumes were purged. A disposable polyethylene bailer was used to collect sufficient samples from each well for laboratory analyses.

The groundwater sample was transferred to four 40-mL VOA vials and preserved with hydrochloric acid. The vials were then sealed to prevent the development of air bubbles within the headspace. The groundwater sample was also transferred into a one-liter non-preserved amber glass container. All groundwater samples were placed in an ice chest along with a chain of custody (COC) form. On February 13, 2006, SOMA's field crew delivered the samples to Pacific Analytical Laboratory (PAL) in Alameda, California.

### Laboratory Analysis

The groundwater samples for both the monitoring wells and supply wells were analyzed for TPH-g, TPH-d, TPH-mo, BTEX, MtBE, gasoline oxygenates, lead scavengers, and volatile organic compounds (VOCs). Metals were analyzed at the supply wells.

Pacific Analytical Laboratory, a state certified laboratory, analyzed the samples for TPH-g, TPH-d, TPH-mo, BTEX, MtBE, gasoline oxygenates, lead scavengers, and VOCs. EPA Method 5030B was used to prepare the samples for TPH-g, BTEX, MtBE, gasoline oxygenates, lead scavengers, and VOCs measurements, and

analyzed using Method 8260B. EPA Method 8015 modified was used to analyze TPH-d and TPH-mo.

Samples for metals were subcontracted through Curtis and Tompkins, Ltd in Berkeley, CA. Metal measurements were prepared using EPA Method 3010A and analyzed using EPA Method 6010B.

# Appendix B

Table of Elevations & Coordinates on Monitoring Wells  
Measured by Harrington Surveys, Inc.,  
and  
Field Measurements of Physical, Chemical, & Biodegradation  
Parameters of the Groundwater Samples  
at Time of Sampling

**Harrington Surveys Inc.**  
**Land Surveying & Mapping**

2278 Larkey Lane, Walnut Creek, Ca. 94597 Phone (925)935-7228 Fax (925)935-5118  
Cell (925)788-7359 E-Mail (ben5132@pacbell.net)

SOMA ENVIRONMENTAL ENGINEERING  
2680 BISHOP DR. # 203  
SAN RAMON, CA. 94583

JUNE 05, 2005

ATTN: ELENA

5565 TESLA ROAD,  
LIVERMORE CA.

**SURVEY REPORT**

**CONTROLLING POINTS FOR SURVEY:**

CALIFORNIA HPGN MONUMENT 04 FL, CALIFORNIA COORDINATE SYSTEM, ZONE 3.  
NAD 83. NORTH 2,085,087.52 - EAST 6,213,127.18. LAT. N37°42'56.31172"  
W121°42'18.00018".  
ELEVATION 566.57, NAVD 88.

CALIFORNIA HPGN MONUMENT 04 FL, CALIFORNIA COORDINATE SYSTEM, ZONE 3.  
NORTH 2,055,842.44 - EAST 6,189,298.07, LAT N37°38'02.07933",  
W121°47'09.51080"  
ELEVATION 637.80NAVD 88.

**INSTRUMENTATION:**  
TRIMBLE GPS, MODEL 5800 AND LEICA TCA 1800, 1" HORZ. & VERT.  
**OBSERVATION:** EPOCH = 180.

**FIELD SURVEY:** JUNE 03, 2005.

BEN HARRINGTON  
PLS 5132

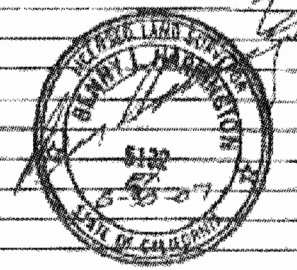


MONITORING WELLS  
 6665 TESLA RD.  
 LIVERMORE, CA.

HARRINGTON SURVEYS INC.  
 2278 LARKEY LANE, WALNUT CREEK CA.  
 925-938-7228

JOB#2028  
 6-05-05

PT #	NORTH	EAST	ELEV	LATITUDE	LONGITUDE	
1	2085287 52	6213127.18	608.57	37°42'56.31176"N	121°42'18.00017"W	FD 04 FL HPGN
2	2085287 52	6213127.18	608.57	37°42'56.31175"N	121°42'18.00018"W	FD 04 FL HPGN
10	2066750 37	6208469.09	615.16	37°39'52.28454"N	121°43'37.83506"W	MW-1 V N PVC
11	2066750 71	6208469.04	615.52	37°39'52.28825"N	121°43'37.83609"W	MW-1 PUNCH N RIM
12	2066753 85	6208471.51	615.56	37°39'52.23057"N	121°43'37.80414"W	BLG COR
13	2066753 67	6208512.16	615.56	37°39'52.23412"N	121°43'37.29647"W	BLG COR
14	2066628 15	6205469.05	616.03	37°39'50.98763"N	121°43'37.80672"W	MW-2 V N PVC
15	2066628 56	6205469.61	616.38	37°39'50.99158"N	121°43'37.80724"W	MW-2 PUNCH N. RIM
16	2066632 84	6206516.64	618.48	37°39'51.04109"N	121°43'37.22314"W	5.0 E BLG COR
17	2066600 86	6206568.19	617.32	37°39'50.73030"N	121°43'38.80162"W	MW-3 V N PVC
18	2066601 16	6206668.10	617.54	37°39'50.73332"N	121°43'38.80286"W	MW-3 PUNCH N. RIM
19	2066610 26	6206664.10	617.64	37°39'50.82300"N	121°43'36.62917"W	FC COR
20	2066604 40	6206549.81	617.66	37°39'50.78325"N	121°43'36.80588"W	FC COR
21	2066620 00	6206539.65	617.75	37°39'51.00516"N	121°43'36.93629"W	FC COR
22	2066634 88	6206554.19	617.86	37°39'51.06493"N	121°43'36.76646"W	FC COR
3	2080138 47	6208815.78	552.46	37°42'04.85555"N	121°43'10.81967"W	FD. Z 927
4	2080138 48	6208815.77	552.45	37°42'04.85566"N	121°43'10.81976"W	FD. Z 927
5	2055842 44	6189298.07	637.79	37°38'02.07930"N	121°47'09.51084"W	FD 4 FK HPGN
6	2055842 43	6189298.07	637.82	37°38'02.07924"N	121°47'09.51088"W	FD 4 FK HPGN
7	2066813 66	6206642.08	616.00	37°39'52.83104"N	121°43'36.93627"W	SET RB/GATE
8	2066813 64	6206642.08	614.98	37°39'52.83084"N	121°43'36.93616"W	SET RB/GATE
9	2066808 93	6206470.38	616.04	37°39'52.75518"N	121°43'37.82678"W	SET 6.D NW YARD
23	2066806 93	6206470.38	616.07	37°39'52.75523"N	121°43'37.82680"W	SET 6.D NW YARD



JUN 26 2005 5:02PM HARRINGTON SURVEYS INC. 0000000114



ENVIRONMENTAL ENGINEERING, INC

Well No.: 17W-1  
 Casing Diameter: 2 inch  
 Depth of Well: 15 ft  
 Top of Casing Elevation: 615.16 ft  
 Depth to Groundwater: 6.29 ft  
 Groundwater Elevation: 608.87 ft  
 Water Column Height: 8.71 ft  
 Purged Volume: 7 gallons

Project No.: 2841  
 Address: Wente Vineyards  
 5565 Tesla Rd, Livermore  
 Date: 2/13/06  
 Sampler: Mehran Nowroozi  
*Fony Perini*

Purging Method: Bailer  Pump  (*bc pump*)

Sampling Method: Bailer  Pump

Color: No  Yes  Describe \_\_\_\_\_

Sheen: No  Yes  Describe \_\_\_\_\_

Odor: No  Yes  Describe \_\_\_\_\_

Field Measurements:

Time	Volume (gallons)	D.C. (mg/L)	pH	Temp (°C)	E.C. (µS/cm)	Turb. (NTU)	ORP
<i>1 PM</i>	<i>Started purging well</i>						
<i>1:02 PM</i>	<i>1.0</i>	<i>7.90</i>	<i>6.98</i>	<i>15.25</i>	<i>1530</i>	<i>999</i>	<i>141</i>
<i>1:05 PM</i>	<i>4</i>	<i>8.50</i>	<i>6.93</i>	<i>15.05</i>	<i>1530</i>	<i>419</i>	<i>141</i>
<i>1:08 PM</i>	<i>7</i>	<i>8.90</i>	<i>6.90</i>	<i>15.01</i>	<i>1530</i>	<i>336</i>	<i>140</i>
<i>1:10 PM</i>	<i>Sampled</i>						

Notes:



ENVIRONMENTAL ENGINEERING, INC

Well No.: 1766-2  
 Casing Diameter: 2 inch  
 Depth of Well: 15 ft  
 Top of Casing Elevation: 616.03 ft  
 Depth to Groundwater: 6.52 ft  
 Groundwater Elevation: 609.51 ft  
 Water Column Height: 8.48 ft  
 Purged Volume: 7 gallons

Project No.: 2841  
 Address: Wente Vineyards  
 5565 Tesla Rd, Livermore  
 Date: 2/13/06  
 Sampler: Mehran Nowroozi  
*FOR PERM*

Purging Method: Bailer  Pump  *DL purging*

Sampling Method: Bailer  Pump

Color: No  Yes  Describe \_\_\_\_\_

Sheen: No  Yes  Describe \_\_\_\_\_

Odor: No  Yes  Describe \_\_\_\_\_

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
<i>1:19 PM</i>	<i>Started purging well</i>						
<i>1:21 PM</i>	<i>2.0</i>	<i>7.90</i>	<i>6.91</i>	<i>15.68</i>	<i>1500</i>	<i>960</i>	<i>137</i>
<i>1:23 PM</i>	<i>5.0</i>	<i>7.80</i>	<i>6.85</i>	<i>15.49</i>	<i>1510</i>	<i>407</i>	<i>137</i>
<i>1:25 PM</i>	<i>7.0</i>	<i>7.80</i>	<i>6.81</i>	<i>15.41</i>	<i>1530</i>	<i>317</i>	<i>137</i>
<i>1:27 PM</i>	<i>Sampled</i>						

Notes:



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-3  
 Casing Diameter: 2 inch  
 Depth of Well: 13.39 ft  
 Top of Casing Elevation: 617.32 ft  
 Depth to Groundwater: 7.06 ft  
 Groundwater Elevation: 610.26 ft  
 Water Column Height: 6.33 ft  
 Purged Volume: 4 gallons

Project No.: 2841  
 Address: Wente Vineyards  
 5565 Tesla Rd, Livermore  
 Date: 2/13/06  
 Sampler: Mehran Nowroozi  
 7014 PCH

Purging Method: Bailer  Pump   
 Sampling Method: Bailer  Pump   
 Color: No  Yes  Describe \_\_\_\_\_  
 Sheen: No  Yes  Describe \_\_\_\_\_  
 Odor: No  Yes  Describe \_\_\_\_\_

Field Measurements:

Time	Volume (gallons)	D.C. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
1:41 PM	Started purging well						
1:43 PM	2.0	7.80	6.80	16.64	1570	499	135
1:45 PM	4.0	7.60	6.80	16.49	1580	477	135
1:47 PM	sampled						

Notes:





ENVIRONMENTAL ENGINEERING, INC

Well No.: on site supply well  
 Casing Diameter: 6 inch  
 Depth of Well: 1100 ft  
 Top of Casing Elevation: 115 ft  
 Depth to Groundwater: 1100 ft  
 Groundwater Elevation: 110 ft  
 Water Column Height: 110 ft  
 Purged Volume: 24 gallons

Project No.: 2841  
 Address: Wente Vineyards  
 5565 Tesla Rd, Livermore  
 Date: 2/13/06  
 Sampler: Mehran Nowroozi  
*707 462 1101*

Purging Method: Bailer  Pump  *on site pump*

Sampling Method: Bailer  Pump

Color: No  Yes  Describe \_\_\_\_\_

Sheen: No  Yes  Describe \_\_\_\_\_

Odor: No  Yes  Describe \_\_\_\_\_

Field Measurements:

Time	Volume (gallons)	D.C. mg/L	pH	Temp °C	E.C. (uS/cm)	Turb. NTU	ORP
<i>11:25 AM</i>	<i>5</i>	<i>8.50</i>	<i>7.32</i>	<i>16.94</i>	<i>1590</i>	<i>236</i>	<i>106</i>
<i>11:29 AM</i>	<i>10</i>	<i>8.50</i>	<i>7.60</i>	<i>15.60</i>	<i>1600</i>	<i>277</i>	<i>111</i>
<i>11:32 AM</i>	<i>24</i>	<i>9.50</i>	<i>7.18</i>	<i>15.20</i>	<i>1590</i>	<i>264</i>	<i>108</i>
<i>11:38 AM</i>	<i>5 samples</i>						

Notes:

*2nd not measured  
 2nd not measured  
 2nd not calculated*



ENVIRONMENTAL ENGINEERING, INC

Well No.: (off site supply well)  
 Casing Diameter: 6 inch  
 Depth of Well: 147 ft  
 Top of Casing Elevation: NS ft  
 Depth to Groundwater: 147 ft  
 Groundwater Elevation: NC ft  
 Water Column Height: NC ft  
 Purged Volume: 36 gallons

Project No.: 2841  
 Address: Wente Vineyards  
 5565 Tesla Rd, Livermore  
 Date: 2/13/06  
 Sampler: Mehran Nowroozi  
Tony Peterson

Purging Method: Bailer  Pump  circulating pump  
 Sampling Method: Bailer  Pump  circulating pump  
 Color: No  Yes  Describe \_\_\_\_\_  
 Sheen: No  Yes  Describe \_\_\_\_\_  
 Odor: No  Yes  Describe \_\_\_\_\_

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
10:46 AM	<u>started purging well</u>						
10:49 AM	5	17.20	7.52	18.91	1610	<del>146</del> 146	129
10:53 AM	12	17.35	7.40	18.43	1620	186	129
10:58 AM	20	15.83	7.33	18.87	1570	487	127
11:04 AM	28	15.35	7.20	18.76	1600	330	115
11:08 AM	36	17.50	7.17	18.75	1590	310	110
11:10 AM	<u>stop purging</u>						

Notes:

nm. not measured  
 no. not calculated  
 vi. not surveyed

# Appendix C

Laboratory Report and Chain of Custody Form  
for the  
First Quarter 2006 Monitoring Event

01 March 2006

Mansour Sepehr  
SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton, CA 94588

RE: 5565 Tesla Rd, Livermore

Work Order Number: 6020012

This Laboratory report has been reviewed for technical correctness and completeness. This entire report was reviewed and approved by the Laboratory Director or the Director's designee, as verified by the following signature.

Sincerely,



---

Maiid Akhavan  
Laboratory Director

# CHAIN OF CUSTODY FORM

**PAL** Pacific Analytical Laboratory  
 851 West Midway Ave., Suite 201B  
 Alameda, CA 94501  
 510-864-0364 Telephone  
 510-864-0365 Fax

PAL  
 Login# 6020012

Project No: 2841				Sampler: Mehran Nowrozi / Tony Perini				Analyses/Method											
Project Name: 5565 Tesla Rd, Livermore				Report To: Tony Perini				TPHg, BTEX, MIBE 8260B	TPH-d, TPH-mo	VOCs (full 8260B list)	metals								
Turnaround Time: Standard				Company: SOMA Environmental Engineering, Inc.															
				Tel: 925-734-6400 Fax: 925-734-6401															
Lab No.	Sample ID	Sampling Date/Time		Matrix			# of Containers				Preservatives				Field Notes				
		Date	Time	Soil	Water	Waste	HCL	H <sub>2</sub> SO <sub>4</sub>	NONE	ICE									
	MW-1	2/13/06	1:10 PM		X		1 L Amber 4 VOAs	X		X	X	Grab Sample	X	X					
	MW-2		1:27 PM		X		1 L Amber 4 VOAs	X		X	X	Grab Sample	X	X					
	MW-3		1:47 PM		X		1 L Amber 4 VOAs	X		X	X	Grab Sample	X	X					
	Off-site supply well		11:10 AM		X		1 L Amber 4 VOAs 250 ml poly	X		X	X	Grab Sample, HNO <sub>3</sub>	X	X	X	X			
	On-site supply well		11:38 AM		X		1 L Amber 4 VOAs 250 ml poly	X		X	X	Grab Sample, HNO <sub>3</sub>	X	X	X	X			
<b>Sampler Remarks:</b>				<b>Relinquished by:</b>				<b>Date/Time:</b>				<b>Received by:</b>				<b>Date/Time:</b>			
EDF output required				M. Nowrozi				2/13/06 3:45 PM				James Zingiz				3:45 PM 2/13/06			



SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 5565 Tesla Rd, Livermore  
Project Number: 2841  
Project Manager: Mansour Sepehr

**Reported:**  
01-Mar-06 11:29

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6020012-01	Water	13-Feb-06 13:10	13-Feb-06 16:02
MW-2	6020012-02	Water	13-Feb-06 13:27	13-Feb-06 16:02
MW-3	6020012-03	Water	13-Feb-06 13:47	13-Feb-06 16:02
Off-site supply well	6020012-04	Water	13-Feb-06 11:10	13-Feb-06 16:02
On-site supply well	6020012-05	Water	13-Feb-06 11:38	13-Feb-06 16:02



SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 5565 Tesla Rd, Livermore  
Project Number: 2841  
Project Manager: Mansour Sepehr

**Reported:**  
01-Mar-06 11:29

**Extractable Petroleum Hydrocarbons by 8015 DRO**  
**Pacific Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (6020012-01) Water    Sampled: 13-Feb-06 13:10    Received: 13-Feb-06 16:02</b>									
Diesel (C10-C24)	ND	50.0	ug/l	1	BB62102	13-Feb-06	21-Feb-06	EPA 8015M	
Motor Oil (C24-C36)	ND	250	"	"	"	"	"	"	
<i>Surrogate: Pentacosane</i>		94.6 %	50-140		"	"	"	"	
<b>MW-2 (6020012-02) Water    Sampled: 13-Feb-06 13:27    Received: 13-Feb-06 16:02</b>									
<b>Diesel (C10-C24)</b>	<b>76.5</b>	50.0	ug/l	1	BB62102	13-Feb-06	21-Feb-06	EPA 8015M	D-35
<b>Motor Oil (C24-C36)</b>	<b>657</b>	250	"	"	"	"	"	"	D-06
<i>Surrogate: Pentacosane</i>		83.6 %	50-140		"	"	"	"	
<b>MW-3 (6020012-03) Water    Sampled: 13-Feb-06 13:47    Received: 13-Feb-06 16:02</b>									
Diesel (C10-C24)	ND	50.0	ug/l	1	BB62102	13-Feb-06	21-Feb-06	EPA 8015M	
<b>Motor Oil (C24-C36)</b>	<b>322</b>	250	"	"	"	"	"	"	D-06
<i>Surrogate: Pentacosane</i>		91.8 %	50-140		"	"	"	"	
<b>Off-site supply well (6020012-04) Water    Sampled: 13-Feb-06 11:10    Received: 13-Feb-06 16:02</b>									
Diesel (C10-C24)	ND	50.0	ug/l	1	BB62102	13-Feb-06	21-Feb-06	EPA 8015M	
Motor Oil (C24-C36)	ND	250	"	"	"	"	"	"	
<i>Surrogate: Pentacosane</i>		62.6 %	50-140		"	"	"	"	
<b>On-site supply well (6020012-05) Water    Sampled: 13-Feb-06 11:38    Received: 13-Feb-06 16:02</b>									
<b>Diesel (C10-C24)</b>	<b>91.8</b>	50.0	ug/l	1	BB62102	13-Feb-06	21-Feb-06	EPA 8015M	
Motor Oil (C24-C36)	ND	250	"	"	"	"	"	"	
<i>Surrogate: Pentacosane</i>		99.0 %	50-140		"	"	"	"	



SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 5565 Tesla Rd, Livermore  
Project Number: 2841  
Project Manager: Mansour Sepehr

Reported:  
01-Mar-06 11:29

**Volatile Organic Compounds by EPA Method 8260B**

**Pacific Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (6020012-01) Water Sampled: 13-Feb-06 13:10 Received: 13-Feb-06 16:02</b>									
1,1,1,2-Tetrachloroethane	ND	2.00	ug/l	1	BB62201	13-Feb-06	21-Feb-06	EPA 8260B	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethene	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.500	"	"	"	"	"	"	
TBA	ND	2.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.00	"	"	"	"	"	"	
1,2-Dibromo-3-Chloropropane	ND	2.00	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
1,3-dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-dichloropropane	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
2-nitropropane	ND	2.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
ACETONE	ND	5.00	"	"	"	"	"	"	
Acetonitrile	ND	0.500	"	"	"	"	"	"	
Acrylonitrile	ND	2.50	"	"	"	"	"	"	
Alylchloride	ND	2.50	"	"	"	"	"	"	
Benzene	ND	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.500	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Butan-2-one( MEK)	ND	2.00	"	"	"	"	"	"	
Carbon bisulfide	ND	0.500	"	"	"	"	"	"	

Pacific Analytical Laboratory

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*





SOMA Environmental Engineering Inc. 6620 Owens Drive, Suite A Pleasanton CA, 94588	Project: 5565 Tesla Rd, Livermore Project Number: 2841 Project Manager: Mansour Sepehr	Reported: 01-Mar-06 11:29
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**Volatile Organic Compounds by EPA Method 8260B**

**Pacific Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (6020012-01) Water    Sampled: 13-Feb-06 13:10    Received: 13-Feb-06 16:02</b>									
Chlorobenzene	ND	2.00	ug/l	1	BB62201	13-Feb-06	21-Feb-06	EPA 8260B	
Chloroform	ND	0.500	"	"	"	"	"	"	
Chloroprene	ND	0.500	"	"	"	"	"	"	
cis-1,2 dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,3-Dichloro-1-Propene	ND	0.500	"	"	"	"	"	"	
CIS-1,4-Dichloro-2-butene	ND	2.50	"	"	"	"	"	"	
Dibromochloromethane	ND	2.00	"	"	"	"	"	"	
Diethylether	ND	0.500	"	"	"	"	"	"	
Ethyl methacrylate	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Freon 113	ND	0.500	"	"	"	"	"	"	
Hexachloro-1,3-Butadiene	ND	2.00	"	"	"	"	"	"	
Idomethane	ND	2.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	1.00	"	"	"	"	"	"	
Methyl methacrylate	ND	8.50	"	"	"	"	"	"	
Methylene dichloride	ND	10.0	"	"	"	"	"	"	
Naphthene	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Pentachloroethane	ND	1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Styrene	ND	2.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Tetrachlorocarbon	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
Tetrahydrofuran	ND	5.00	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	2.50	"	"	"	"	"	"	
Trans-Di-1,2-Chloroethylene	ND	0.500	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.500	"	"	"	"	"	"	
<b>Chloromethane</b>	<b>4.03</b>	0.500	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
Nitrobenzene	ND	10.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.500	"	"	"	"	"	"	

Pacific Analytical Laboratory

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SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 5565 Tesla Rd, Livermore  
Project Number: 2841  
Project Manager: Mansour Sepehr

Reported:  
01-Mar-06 11:29

### Volatile Organic Compounds by EPA Method 8260B

#### Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (6020012-01) Water</b> Sampled: 13-Feb-06 13:10 Received: 13-Feb-06 16:02									
Bromodichloromethane	ND	0.500	ug/l	1	BB62201	13-Feb-06	21-Feb-06	EPA 8260B	
Dibromomethane	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.00	"	"	"	"	"	"	
Vinyl acetate	ND	2.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.00	"	"	"	"	"	"	
<b>Chloroethane</b>	<b>1.03</b>	0.500	"	"	"	"	"	"	
DIPE	ND	0.500	"	"	"	"	"	"	
1,1-dichloropropene	ND	0.500	"	"	"	"	"	"	
trans-1,3-Dichloro-1-Propene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.4 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		101 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		98.2 %		70-130	"	"	"	"	
Gasoline (C6-C12)	ND	50.0	"	"	"	"	"	EPA 8015M	
<b>MW-2 (6020012-02) Water</b> Sampled: 13-Feb-06 13:27 Received: 13-Feb-06 16:02									
1,1,1,2-Tetrachloroethane	ND	2.00	ug/l	1	BB62201	13-Feb-06	21-Feb-06	EPA 8260B	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethene	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.500	"	"	"	"	"	"	
TBA	ND	2.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.00	"	"	"	"	"	"	
1,2-Dibromo-3-Chloropropane	ND	2.00	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	

Pacific Analytical Laboratory

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SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 5565 Tesla Rd, Livermore  
Project Number: 2841  
Project Manager: Mansour Sepehr

Reported:  
01-Mar-06 11:29

**Volatile Organic Compounds by EPA Method 8260B**

**Pacific Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-2 (6020012-02) Water    Sampled: 13-Feb-06 13:27    Received: 13-Feb-06 16:02</b>									
1,3-dichlorobenzene	ND	0.500	ug/l	1	BB62201	13-Feb-06	21-Feb-06	EPA 8260B	
1,3-dichloropropane	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
2-nitropropane	ND	2.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
ACETONE	ND	5.00	"	"	"	"	"	"	
Acetonitrile	ND	0.500	"	"	"	"	"	"	
Acrylonitrile	ND	2.50	"	"	"	"	"	"	
Alylchloride	ND	2.50	"	"	"	"	"	"	
Benzene	ND	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.500	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Butan-2-one( MEK)	ND	2.00	"	"	"	"	"	"	
Carbon bisulfide	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	2.00	"	"	"	"	"	"	
Chloroform	ND	0.500	"	"	"	"	"	"	
Chloroprene	ND	0.500	"	"	"	"	"	"	
cis-1,2 dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,3-Dichloro-1-Propene	ND	0.500	"	"	"	"	"	"	
CIS-1,4-Dichloro-2-butene	ND	2.50	"	"	"	"	"	"	
Dibromochloromethane	ND	2.00	"	"	"	"	"	"	
Diethylether	ND	0.500	"	"	"	"	"	"	
Ethyl methacrylate	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Freon 113	ND	0.500	"	"	"	"	"	"	
Hexachloro-1,3-Butadiene	ND	2.00	"	"	"	"	"	"	
Idomethane	ND	2.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	1.00	"	"	"	"	"	"	
Methylene dichloride	ND	10.0	"	"	"	"	"	"	
Naphthene	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	

Pacific Analytical Laboratory

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SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 5565 Tesla Rd, Livermore  
Project Number: 2841  
Project Manager: Mansour Sepehr

Reported:  
01-Mar-06 11:29

### Volatile Organic Compounds by EPA Method 8260B

#### Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-2 (6020012-02) Water    Sampled: 13-Feb-06 13:27    Received: 13-Feb-06 16:02</b>									
o-xylene	ND	0.500	ug/l	1	BB62201	13-Feb-06	21-Feb-06	EPA 8260B	
Pentachloroethane	ND	1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Styrene	ND	2.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Tetrachlorocarbon	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
Tetrahydrofuran	ND	5.00	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	2.50	"	"	"	"	"	"	
Trans-Di-1,2-Chloroethylene	ND	0.500	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.500	"	"	"	"	"	"	
<b>Chloromethane</b>	<b>3.68</b>	0.500	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
Nitrobenzene	ND	10.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.00	"	"	"	"	"	"	
Vinyl acetate	ND	2.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.00	"	"	"	"	"	"	
<b>Chloroethane</b>	<b>0.590</b>	0.500	"	"	"	"	"	"	
DIPE	ND	0.500	"	"	"	"	"	"	
1,1-dichloropropene	ND	0.500	"	"	"	"	"	"	
trans-1,3-Dichloro-1-Propene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.0 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		98.0 %		70-130	"	"	"	"	
Gasoline (C6-C12)	ND	50.0	"	"	"	"	"	EPA 8015M	



SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 5565 Tesla Rd, Livermore  
Project Number: 2841  
Project Manager: Mansour Sepehr

Reported:  
01-Mar-06 11:29

**Volatile Organic Compounds by EPA Method 8260B**

**Pacific Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-3 (6020012-03) Water Sampled: 13-Feb-06 13:47 Received: 13-Feb-06 16:02</b>									
1,1,1,2-Tetrachloroethane	ND	2.00	ug/l	1	BB62201	13-Feb-06	21-Feb-06	EPA 8260B	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethene	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.500	"	"	"	"	"	"	
TBA	ND	2.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.00	"	"	"	"	"	"	
1,2-Dibromo-3-Chloropropane	ND	2.00	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
1,3-dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-dichloropropane	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
2-nitropropane	ND	2.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
ACETONE	ND	5.00	"	"	"	"	"	"	
Acetonitrile	ND	0.500	"	"	"	"	"	"	
Alylchloride	ND	2.50	"	"	"	"	"	"	
Benzene	ND	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.500	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Butan-2-one( MEK)	ND	2.00	"	"	"	"	"	"	
Carbon bisulfide	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	2.00	"	"	"	"	"	"	

Pacific Analytical Laboratory

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SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 5565 Tesla Rd, Livermore  
Project Number: 2841  
Project Manager: Mansour Sepehr

Reported:  
01-Mar-06 11:29

**Volatile Organic Compounds by EPA Method 8260B**

**Pacific Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-3 (6020012-03) Water    Sampled: 13-Feb-06 13:47    Received: 13-Feb-06 16:02</b>									
Chloroform	ND	0.500	ug/l	1	BB62201	13-Feb-06	21-Feb-06	EPA 8260B	
Chloroprene	ND	0.500	"	"	"	"	"	"	
cis-1,2 dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,3-Dichloro-1-Propene	ND	0.500	"	"	"	"	"	"	
CIS-1,4-Dichloro-2-butene	ND	2.50	"	"	"	"	"	"	
Dibromochloromethane	ND	2.00	"	"	"	"	"	"	
Diethylether	ND	0.500	"	"	"	"	"	"	
Ethyl methacrylate	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Freon 113	ND	0.500	"	"	"	"	"	"	
Hexachloro-1,3-Butadiene	ND	2.00	"	"	"	"	"	"	
Idomethane	ND	2.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	1.00	"	"	"	"	"	"	
Methylene dichloride	ND	10.0	"	"	"	"	"	"	
Naphthene	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Pentachloroethane	ND	1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Styrene	ND	2.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Tetrachlorocarbon	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
Tetrahydrofuran	ND	5.00	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	2.50	"	"	"	"	"	"	
Trans-Di-1,2-Chloroethylene	ND	0.500	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.500	"	"	"	"	"	"	
<b>Chloromethane</b>	<b>3.39</b>	0.500	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
Nitrobenzene	ND	10.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.500	"	"	"	"	"	"	

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SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 5565 Tesla Rd, Livermore  
Project Number: 2841  
Project Manager: Mansour Sepehr

Reported:  
01-Mar-06 11:29

### Volatile Organic Compounds by EPA Method 8260B

#### Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-3 (6020012-03) Water</b> Sampled: 13-Feb-06 13:47 Received: 13-Feb-06 16:02									
Dichlorodifluoromethane	ND	2.00	ug/l	1	BB62201	13-Feb-06	21-Feb-06	EPA 8260B	
Vinyl acetate	ND	2.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.00	"	"	"	"	"	"	
<b>Chloroethane</b>	<b>0.610</b>	0.500	"	"	"	"	"	"	
DIPE	ND	0.500	"	"	"	"	"	"	
1,1-dichloropropene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.00	"	"	"	"	"	"	
trans-1,3-Dichloro-1-Propene	ND	0.500	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.0 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		98.2 %		70-130	"	"	"	"	
Gasoline (C6-C12)	ND	50.0	"	"	"	"	"	EPA 8015M	
<b>Off-site supply well (6020012-04RE1) Water</b> Sampled: 13-Feb-06 11:10 Received: 13-Feb-06 16:02									
1,1,1,2-Tetrachloroethane	ND	2.00	ug/l	1	BB62201	13-Feb-06	23-Feb-06	EPA 8260B	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethene	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
ETBE	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.500	"	"	"	"	"	"	
TBA	ND	2.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.00	"	"	"	"	"	"	
1,2-Dibromo-3-Chloropropane	ND	2.00	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"	
1,3-dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-dichloropropane	ND	0.500	"	"	"	"	"	"	

Pacific Analytical Laboratory

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SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 5565 Tesla Rd, Livermore  
Project Number: 2841  
Project Manager: Mansour Sepehr

**Reported:**  
01-Mar-06 11:29

**Volatile Organic Compounds by EPA Method 8260B**

**Pacific Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Off-site supply well (6020012-04RE1) Water Sampled: 13-Feb-06 11:10 Received: 13-Feb-06 16:02</b>									
1,4-Dichlorbenzene	ND	0.500	ug/l	1	BB62201	13-Feb-06	23-Feb-06	EPA 8260B	
2,2-Dichloropropane	ND	2.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
2-nitropropane	ND	2.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
ACETONE	ND	5.00	"	"	"	"	"	"	
Acetonitrile	ND	0.500	"	"	"	"	"	"	
Alylchloride	ND	2.50	"	"	"	"	"	"	
Benzene	ND	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.500	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Butan-2-one( MEK)	ND	2.00	"	"	"	"	"	"	
Carbon bisulfide	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	2.00	"	"	"	"	"	"	
Chloroform	ND	0.500	"	"	"	"	"	"	
Chloroprene	ND	0.500	"	"	"	"	"	"	
cis-1,2 dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,3-Dichloro-1-Propene	ND	0.500	"	"	"	"	"	"	
CIS-1,4-Dichloro-2-butene	ND	2.50	"	"	"	"	"	"	
Dibromochloromethane	ND	2.00	"	"	"	"	"	"	
Diethylether	ND	0.500	"	"	"	"	"	"	
Ethyl methacrylate	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Freon 113	ND	0.500	"	"	"	"	"	"	
Hexachloro-1,3-Butadiene	ND	2.00	"	"	"	"	"	"	
Idomethane	ND	2.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	1.00	"	"	"	"	"	"	
Methylene dichloride	ND	10.0	"	"	"	"	"	"	
Naphthene	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Pentachloroethane	ND	1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	

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SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 5565 Tesla Rd, Livermore  
Project Number: 2841  
Project Manager: Mansour Sepehr

Reported:  
01-Mar-06 11:29

**Volatile Organic Compounds by EPA Method 8260B**

**Pacific Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Off-site supply well (6020012-04RE1) Water Sampled: 13-Feb-06 11:10 Received: 13-Feb-06 16:02</b>									
Styrene	ND	2.00	ug/l	1	BB62201	13-Feb-06	23-Feb-06	EPA 8260B	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Tetrachlorocarbon	ND	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
Tetrahydrofuran	ND	5.00	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	2.50	"	"	"	"	"	"	
Trans-Di-1,2-Chloroethylene	ND	0.500	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.500	"	"	"	"	"	"	
<b>Chloromethane</b>	<b>3.02</b>	0.500	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
Nitrobenzene	ND	10.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.00	"	"	"	"	"	"	
Vinyl acetate	ND	2.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.00	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
DIPE	ND	0.500	"	"	"	"	"	"	
1,1-dichloropropene	ND	0.500	"	"	"	"	"	"	
trans-1,3-Dichloro-1-Propene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.6 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		103 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		97.0 %		70-130	"	"	"	"	
Gasoline (C6-C12)	ND	50.0	"	"	"	"	"	EPA 8015M	



SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 5565 Tesla Rd, Livermore  
Project Number: 2841  
Project Manager: Mansour Sepehr

Reported:  
01-Mar-06 11:29

**Volatile Organic Compounds by EPA Method 8260B**

**Pacific Analytical Laboratory**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
<b>On-site supply well (6020012-05) Water    Sampled: 13-Feb-06 11:38    Received: 13-Feb-06 16:02</b>										
1,1,1,2-Tetrachloroethane	ND	2.00	ug/l	1	BB62201	13-Feb-06	21-Feb-06	EPA 8260B		
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	2.00	"	"	"	"	"	"		
1,1,2-Trichloroethane	ND	2.00	"	"	"	"	"	"		
1,1,2-Trichloroethene	ND	0.500	"	"	"	"	"	"		
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"		
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"		
ETBE	ND	0.500	"	"	"	"	"	"		
1,2,3-Trichlorobenzene	ND	0.500	"	"	"	"	"	"		
TBA	ND	2.50	"	"	"	"	"	"		
1,2,4-Trichlorobenzene	ND	0.500	"	"	"	"	"	"		
1,2,4-Trimethylbenzene	ND	2.00	"	"	"	"	"	"		
1,2-Dibromo-3-Chloropropane	ND	2.00	"	"	"	"	"	"		
1,2-Dibromoethan	ND	2.00	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"		
Ethanol	ND	1000	"	"	"	"	"	"		
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"		
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	"	"	"		
1,3-dichlorobenzene	ND	0.500	"	"	"	"	"	"		
1,3-dichloropropane	ND	0.500	"	"	"	"	"	"		
1,4-Dichlorbenzene	ND	0.500	"	"	"	"	"	"		
2,2-Dichloropropane	ND	2.00	"	"	"	"	"	"		
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"		
2-nitropropane	ND	2.00	"	"	"	"	"	"		
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"		
4-Isopropyltoluene	ND	0.500	"	"	"	"	"	"		
ACETONE	ND	5.00	"	"	"	"	"	"		
Acetonitrile	ND	0.500	"	"	"	"	"	"		
Alylchloride	ND	2.50	"	"	"	"	"	"		
Benzene	ND	0.500	"	"	"	"	"	"		
Bromobenzene	ND	0.500	"	"	"	"	"	"		
Bromochloromethane	ND	0.500	"	"	"	"	"	"		
Bromoform	ND	5.00	"	"	"	"	"	"		
Butan-2-one( MEK)	ND	2.00	"	"	"	"	"	"		
Carbon bisulfide	ND	0.500	"	"	"	"	"	"		
Chlorobenzene	ND	2.00	"	"	"	"	"	"		

Pacific Analytical Laboratory

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SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
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Project: 5565 Tesla Rd, Livermore  
Project Number: 2841  
Project Manager: Mansour Sepehr

Reported:  
01-Mar-06 11:29

**Volatile Organic Compounds by EPA Method 8260B**

**Pacific Analytical Laboratory**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
<b>On-site supply well (6020012-05) Water    Sampled: 13-Feb-06 11:38    Received: 13-Feb-06 16:02</b>										
Chloroform	ND	0.500	ug/l	1	BB62201	13-Feb-06	21-Feb-06	EPA 8260B		
Chloroprene	ND	0.500	"	"	"	"	"	"		
cis-1,2 dichloroethene	ND	0.500	"	"	"	"	"	"		
cis-1,3-Dichloro-1-Propene	ND	0.500	"	"	"	"	"	"		
CIS-1,4-Dichloro-2-butene	ND	2.50	"	"	"	"	"	"		
Dibromochloromethane	ND	2.00	"	"	"	"	"	"		
Diethylether	ND	0.500	"	"	"	"	"	"		
Ethyl methacrylate	ND	0.500	"	"	"	"	"	"		
Ethylbenzene	ND	0.500	"	"	"	"	"	"		
Freon 113	ND	0.500	"	"	"	"	"	"		
Hexachloro-1,3-Butadiene	ND	2.00	"	"	"	"	"	"		
Idomethane	ND	2.00	"	"	"	"	"	"		
Isopropylbenzene	ND	0.500	"	"	"	"	"	"		
m&p-Xylene	ND	1.00	"	"	"	"	"	"		
Methylene dichloride	ND	10.0	"	"	"	"	"	"		
Naphthene	ND	0.500	"	"	"	"	"	"		
n-Butylbenzene	ND	0.500	"	"	"	"	"	"		
n-Propylbenzene	ND	0.500	"	"	"	"	"	"		
o-xylene	ND	0.500	"	"	"	"	"	"		
Pentachloroethane	ND	1.00	"	"	"	"	"	"		
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"		
Styrene	ND	2.00	"	"	"	"	"	"		
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"		
Tetrachlorocarbon	ND	0.500	"	"	"	"	"	"		
Tetrachloroethene	ND	0.500	"	"	"	"	"	"		
Tetrahydrofuran	ND	5.00	"	"	"	"	"	"		
Toluene	ND	2.00	"	"	"	"	"	"		
MTBE	ND	0.500	"	"	"	"	"	"		
trans-1,4-Dichloro-2-butene	ND	2.50	"	"	"	"	"	"		
Trans-Di-1,2-Chloroethylene	ND	0.500	"	"	"	"	"	"		
Methyl isobutyl ketone	ND	0.500	"	"	"	"	"	"		
<b>Chloromethane</b>	<b>3.58</b>	0.500	"	"	"	"	"	"		
Bromomethane	ND	2.00	"	"	"	"	"	"		
Nitrobenzene	ND	10.0	"	"	"	"	"	"		
Vinyl chloride	ND	0.500	"	"	"	"	"	"		
Bromodichloromethane	ND	0.500	"	"	"	"	"	"		
Dibromomethane	ND	0.500	"	"	"	"	"	"		

Pacific Analytical Laboratory

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SOMA Environmental Engineering Inc.  
 6620 Owens Drive, Suite A  
 Pleasanton CA, 94588

Project: 5565 Tesla Rd, Livermore  
 Project Number: 2841  
 Project Manager: Mansour Sepehr

**Reported:**  
 01-Mar-06 11:29

**Volatile Organic Compounds by EPA Method 8260B**

**Pacific Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>On-site supply well (6020012-05) Water    Sampled: 13-Feb-06 11:38    Received: 13-Feb-06 16:02</b>									
Dichlorodifluoromethane	ND	2.00	ug/l	1	BB62201	13-Feb-06	21-Feb-06	EPA 8260B	
Vinyl acetate	ND	2.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.00	"	"	"	"	"	"	
<b>Chloroethane</b>	<b>0.500</b>	0.500	"	"	"	"	"	"	
DIPE	ND	0.500	"	"	"	"	"	"	
1,1-dichloropropene	ND	0.500	"	"	"	"	"	"	
trans-1,3-Dichloro-1-Propene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	2.00	"	"	"	"	"	"	
TAME	ND	2.00	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.2 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		103 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		99.0 %		70-130	"	"	"	"	
Gasoline (C6-C12)	ND	50.0	"	"	"	"	"	EPA 8015M	



SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 5565 Tesla Rd, Livermore  
Project Number: 2841  
Project Manager: Mansour Sepehr

Reported:  
01-Mar-06 11:29

**Extractable Petroleum Hydrocarbons by 8015 DRO - Quality Control**

**Pacific Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch BB62102 - EPA 3510B**

**Blank (BB62102-BLK1)**

Prepared & Analyzed: 21-Feb-06

Surrogate: Pentacosane	27.8		ug/l	50.0		55.6	50-140			
Diesel (C10-C24)	ND	50.0	"							
Motor Oil (C24-C36)	ND	250	"							

**LCS (BB62102-BS1)**

Prepared & Analyzed: 21-Feb-06

Surrogate: Pentacosane	46.0		ug/l	50.0		92.0	50-140			
Diesel (C10-C24)	714	50.0	"	1000		71.4	50-130			

**LCS Dup (BB62102-BSD1)**

Prepared & Analyzed: 21-Feb-06

Surrogate: Pentacosane	39.4		ug/l	50.0		78.8	50-140			
Diesel (C10-C24)	692	50.0	"	1000		69.2	50-130	3.13	40	



SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 5565 Tesla Rd, Livermore  
Project Number: 2841  
Project Manager: Mansour Sepehr

Reported:  
01-Mar-06 11:29

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Pacific Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch BB62201 - EPA 5030 Water MS**

**Blank (BB62201-BLK1)**

Prepared & Analyzed: 22-Feb-06

Surrogate: 4-Bromofluorobenzene	50.4		ug/l	50.0		101	70-130			
Surrogate: Dibromofluoromethane	50.4		"	50.0		101	70-130			
Surrogate: Perdeuterotoluene	49.7		"	50.0		99.4	70-130			
1,1,1,2-Tetrachloroethane	ND	2.00	"							
1,1,1-Trichloroethane	ND	0.500	"							
1,1,2,2-Tetrachloroethane	ND	2.00	"							
1,1,2-Trichloroethane	ND	2.00	"							
1,1,2-Trichloroethene	ND	0.500	"							
1,1-Dichloroethane	ND	0.500	"							
1,1-Dichloroethene	ND	0.500	"							
ETBE	ND	0.500	"							
1,2,3-Trichlorobenzene	ND	0.500	"							
TBA	ND	2.50	"							
1,2,4-Trichlorobenzene	ND	0.500	"							
1,2,4-Trimethylbenzene	ND	2.00	"							
1,2-Dibromo-3-Chloropropane	ND	2.00	"							
1,2-Dibromoethane	ND	2.00	"							
1,2-Dichlorobenzene	ND	0.500	"							
Ethanol	ND	1000	"							
1,2-dichloroethane	ND	0.500	"							
1,2-Dichloropropane	ND	0.500	"							
1,3,5-Trimethylbenzene	ND	0.500	"							
1,3-dichlorobenzene	ND	0.500	"							
1,3-dichloropropane	ND	0.500	"							
1,4-Dichlorobenzene	ND	0.500	"							
2,2-Dichloropropane	ND	2.00	"							
2-Chlorotoluene	ND	0.500	"							
2-nitropropane	ND	2.00	"							
4-Chlorotoluene	ND	0.500	"							
4-Isopropyltoluene	ND	0.500	"							
ACETONE	ND	5.00	"							
Acetonitrile	ND	0.500	"							
Acrylonitrile	ND	2.50	"							
Alylchloride	ND	2.50	"							
Benzene	ND	0.500	"							
Bromobenzene	ND	0.500	"							

Pacific Analytical Laboratory

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SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 5565 Tesla Rd, Livermore  
Project Number: 2841  
Project Manager: Mansour Sepehr

Reported:  
01-Mar-06 11:29

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Pacific Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch BB62201 - EPA 5030 Water MS**

**Blank (BB62201-BLK1)**

Prepared & Analyzed: 22-Feb-06

Bromochloromethane	ND	0.500	"							
Bromoform	ND	5.00	"							
Butan-2-one( MEK)	ND	2.00	"							
Carbon bisulfide	ND	0.500	"							
Chlorobenzene	ND	2.00	"							
Chloroform	ND	0.500	"							
Chloroprene	ND	0.500	"							
cis-1,2 dichloroethene	ND	0.500	"							
cis-1,3-Dichloro-1-Propene	ND	0.500	"							
CIS-1,4-Dichloro-2-butene	ND	2.50	"							
Dibromochloromethane	ND	2.00	"							
Diethylether	ND	0.500	"							
Ethyl methacrylate	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Freon 113	ND	0.500	"							
Hexachloro-1,3-Butadiene	ND	2.00	"							
Idomethane	ND	2.00	"							
Isopropylbenzene	ND	0.500	"							
m&p-Xylene	ND	1.00	"							
Methyl methacrylate	ND	8.50	"							
Methylene dichloride	ND	10.0	"							
Naphthene	ND	2.00	"							
n-Butylbenzene	ND	0.500	"							
n-Propylbenzene	ND	0.500	"							
o-xylene	ND	0.500	"							
Pentachloroethane	ND	1.00	"							
sec-Butylbenzene	ND	0.500	"							
Styrene	ND	2.00	"							
tert-Butylbenzene	ND	0.500	"							
Tetrachlorocarbon	ND	0.500	"							
Tetrachloroethene	ND	0.500	"							
Tetrahydrofuran	ND	5.00	"							
Toluene	ND	2.00	"							
MTBE	ND	0.500	"							
trans-1,4-Dichloro-2-butene	ND	2.50	"							
Trans-Di-1,2-Chloroethylene	ND	0.500	"							

Pacific Analytical Laboratory

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SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 5565 Tesla Rd, Livermore  
Project Number: 2841  
Project Manager: Mansour Sepehr

Reported:  
01-Mar-06 11:29

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Pacific Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch BB62201 - EPA 5030 Water MS**

**Blank (BB62201-BLK1)**

Prepared & Analyzed: 22-Feb-06

Methyl isobutyl ketone	ND	0.500	ug/l							
Chloromethane	ND	0.500	"							
Bromomethane	ND	2.00	"							
Nitrobenzene	ND	10.0	"							
Vinyl chloride	ND	0.500	"							
Bromodichloromethane	ND	0.500	"							
Dibromomethane	ND	0.500	"							
Dichlorodifluoromethane	ND	2.00	"							
Vinyl acetate	ND	2.00	"							
Trichlorofluoromethane	ND	2.00	"							
Chloroethane	ND	0.500	"							
DIPE	ND	0.500	"							
1,1-dichloropropene	ND	0.500	"							
trans-1,3-Dichloro-1-Propene	ND	0.500	"							
1,2,3-Trichloropropane	ND	2.00	"							
2-Hexanone	ND	2.00	"							
TAME	ND	2.00	"							
Gasoline (C6-C12)	ND	50.0	"							

**LCS (BB62201-BS1)**

Prepared & Analyzed: 22-Feb-06

<i>Surrogate: 4-Bromofluorobenzene</i>	49.0		ug/l	50.0		98.0	70-130			
<i>Surrogate: Dibromofluoromethane</i>	46.7		"	50.0		93.4	70-130			
<i>Surrogate: Perdeuterotoluene</i>	47.6		"	50.0		95.2	70-130			
1,1,2-Trichloroethene	90.2	0.500	"	100		90.2	70-130			
1,1-Dichloroethane	126	0.500	"	100		126	70-130			
1,1-Dichloroethene	105	0.500	"	100		105	70-130			
TBA	384	2.50	"	500		76.8	70-130			
1,2-dichloroethane	97.6	0.500	"	100		97.6	70-130			
Benzene	95.6	0.500	"	100		95.6	70-130			
Chlorobenzene	106	2.00	"	100		106	70-130			
Chloroform	91.6	0.500	"	100		91.6	70-130			
Tetrachloroethene	91.2	0.500	"	100		91.2	70-130			
Toluene	94.8	2.00	"	100		94.8	70-130			
MTBE	104	0.500	"	100		104	70-130			
Gasoline (C6-C12)	2570	50.0	"	2000		128	70-130			

Pacific Analytical Laboratory

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SOMA Environmental Engineering Inc.  
 6620 Owens Drive, Suite A  
 Pleasanton CA, 94588

Project: 5565 Tesla Rd, Livermore  
 Project Number: 2841  
 Project Manager: Mansour Sepehr

Reported:  
 01-Mar-06 11:29

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Pacific Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch BB62201 - EPA 5030 Water MS**

**LCS Dup (BB62201-BSD1)**

Prepared & Analyzed: 22-Feb-06

Surrogate: 4-Bromofluorobenzene	49.1		ug/l	50.0		98.2	70-130			
Surrogate: Dibromofluoromethane	47.4		"	50.0		94.8	70-130			
Surrogate: Perdeuterotoluene	47.5		"	50.0		95.0	70-130			
1,1,2-Trichloroethene	99.3	0.500	"	100		99.3	70-130	9.60	20	
1,1-Dichloroethane	135	0.500	"	100		135	70-130	6.90	20	A-01
1,1-Dichloroethene	109	0.500	"	100		109	70-130	3.74	20	
TBA	416	2.50	"	500		83.2	70-130	8.00	20	
1,2-dichloroethane	105	0.500	"	100		105	70-130	7.31	20	
Benzene	105	0.500	"	100		105	70-130	9.37	20	
Chlorobenzene	112	2.00	"	100		112	70-130	5.50	20	
Chloroform	98.9	0.500	"	100		98.9	70-130	7.66	20	
Tetrachloroethene	97.9	0.500	"	100		97.9	70-130	7.09	20	
Toluene	103	2.00	"	100		103	70-130	8.29	20	
MTBE	110	0.500	"	100		110	70-130	5.61	20	
Gasoline (C6-C12)	1850	50.0	"	2000		92.5	70-130	32.6	20	QR-02



SOMA Environmental Engineering Inc.  
6620 Owens Drive, Suite A  
Pleasanton CA, 94588

Project: 5565 Tesla Rd, Livermore  
Project Number: 2841  
Project Manager: Mansour Sepehr

**Reported:**  
01-Mar-06 11:29

### Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- D-35 Sample does not display a fuel pattern. Sample contains several discreet peaks.
- D-06 The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
- A-01 Analyte recovery exceeded QC limits; however, this analyte was not found to be present in any of the samples.
- 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

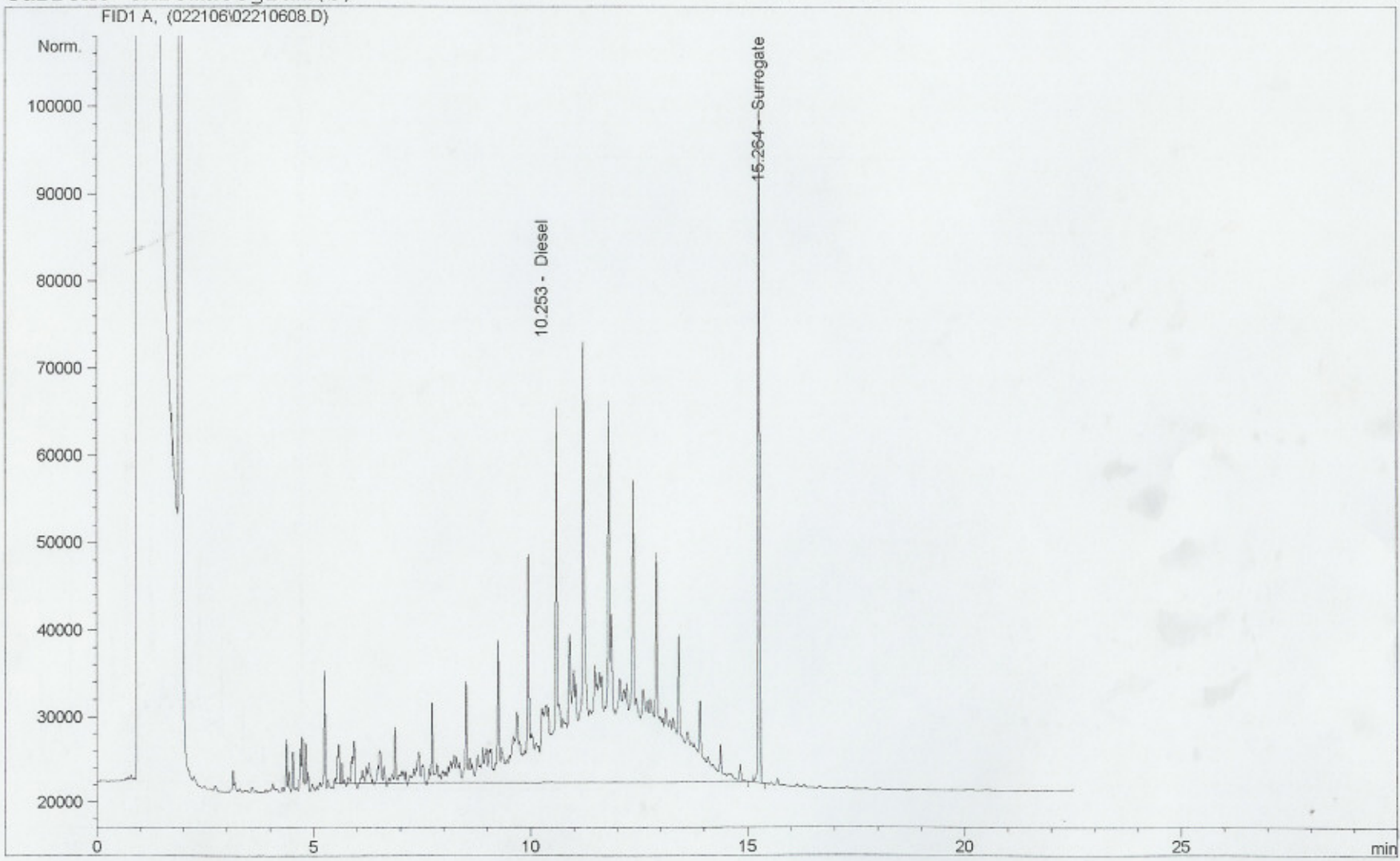


Injection Date : 2/21/06 4:39:45 PM  
Sample Name : BB62102-BS1  
Acq. Operator : jz

Seq. Line : 2  
Vial : 5  
Inj : 1  
Inj Volume : 2 ul

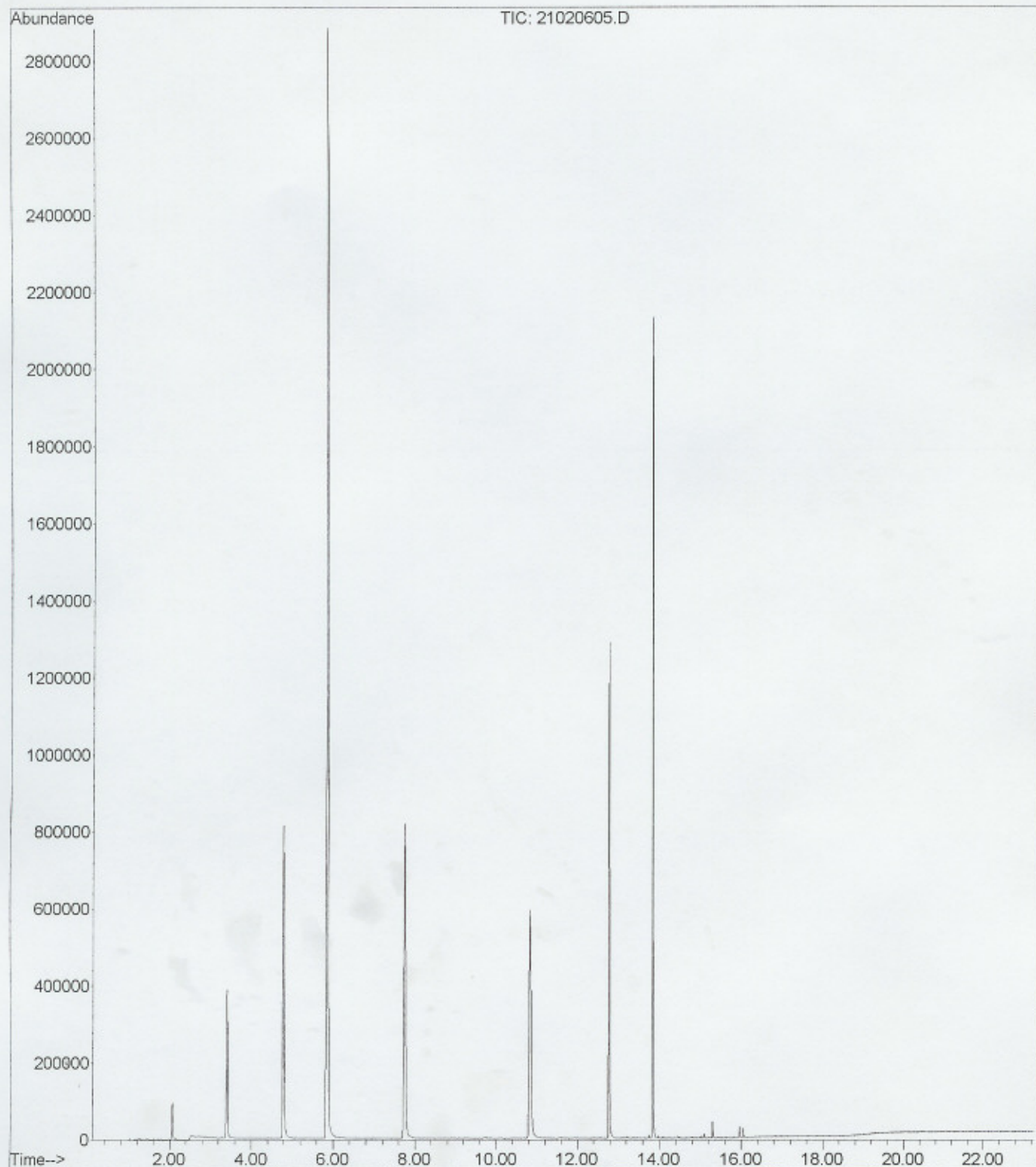
Acq. Method : C:\HPCHEM\1\METHODS\GC021506.M  
Last changed : 2/21/06 3:59:03 PM by jz  
Analysis Method : C:\HPCHEM\1\METHODS\GC021506.M  
Last changed : 2/28/06 12:58:41 PM by jz

Current Chromatogram(s)

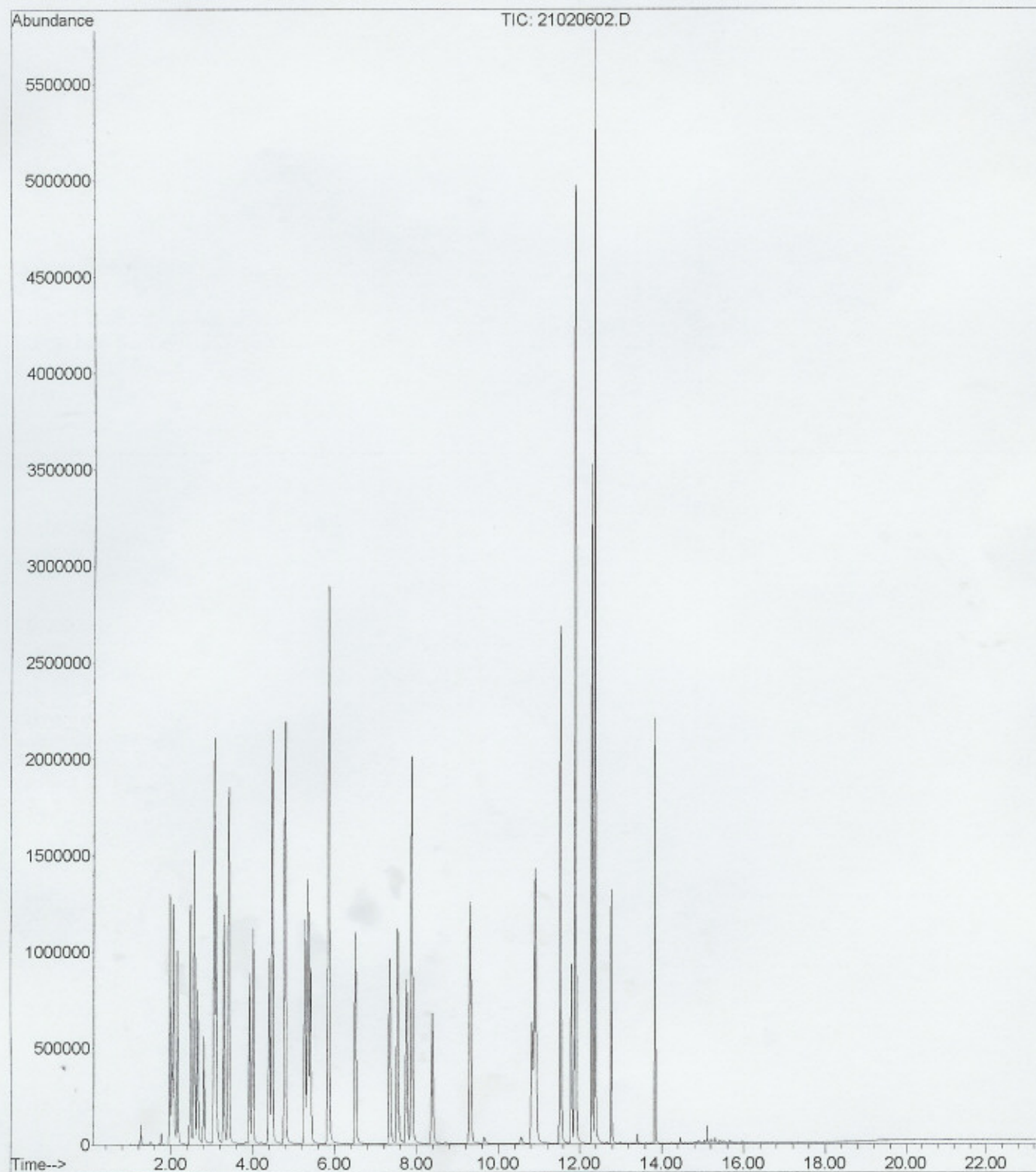




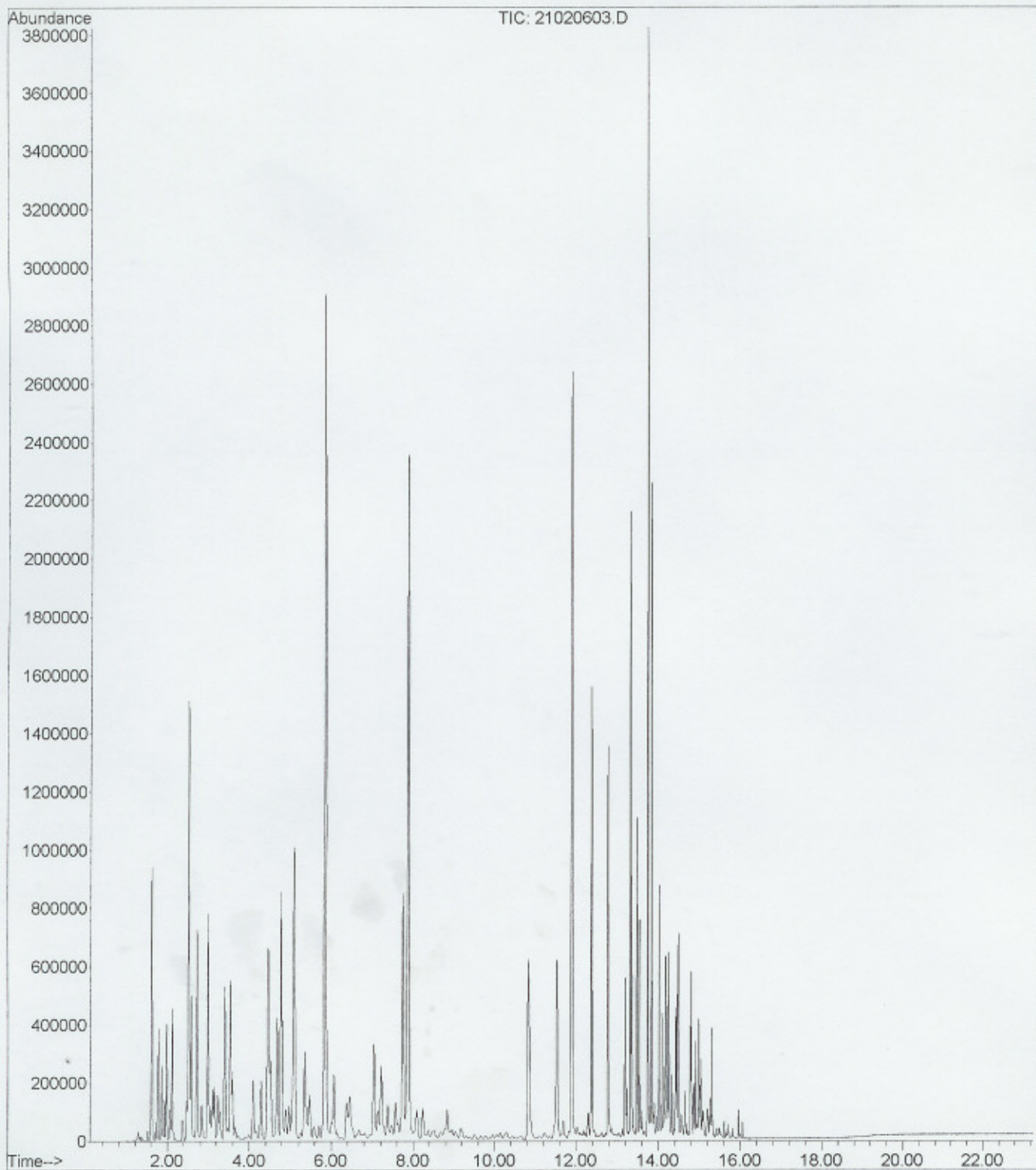
File : C:\MSDChem\1\DATA\2006-Feb-21-0924.b\21020605.D  
Operator :  
Acquired : 21 Feb 2006 11:41 am using AcqMethod OXY21506.M  
Instrument : PAL GCMS  
Sample Name: BB62201-BLK1  
Misc Info :  
Vial Number: 5



File : C:\MSDCHEM\1\DATA\2006-Feb-21-0924.b\21020602.D  
Operator :  
Acquired : 21 Feb 2006 10:08 am using AcqMethod OXY21506.M  
Instrument : PAL GCMS  
Sample Name: BB62201-BS1@voc  
Misc Info :  
Vial Number: 2



File :C:\MSDCHEM\1\DATA\2006-Feb-21-0924.b\21020603.D  
Operator :  
Acquired : 21 Feb 2006 10:39 am using AcqMethod OXY21506.M  
Instrument : PAL GCMS  
Sample Name: BB62201-BS1@gas  
Misc Info :  
Vial Number: 3







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

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

A N A L Y T I C A L   R E P O R T

Prepared for:

Pacific Analytical Laboratory  
851 West Midway Ave  
Suite 201B  
Alameda, CA 94501

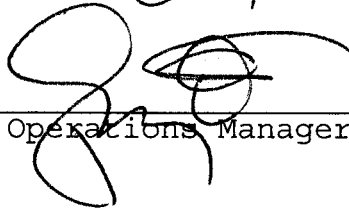
Date: 27-FEB-06  
Lab Job Number: 184918  
Project ID: STANDARD  
Location: 5565 Tesla Rd.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by:

  
Project Manager

Reviewed by:

  
Operations Manager

This package may be reproduced only in its entirety.

**CASE NARRATIVE**

Laboratory number: 184918  
Client: Pacific Analytical Laboratory  
Location: 5565 Tesla Rd.  
Request Date: 02/14/06  
Samples Received: 02/14/06

This hardcopy data package contains sample and QC results for two water samples, requested for the above referenced project on 02/14/06. The samples were received on ice and intact.

**Metals (EPA 6010B):**

No analytical problems were encountered.

# CHAIN OF CUSTODY FORM

**PAL** Pacific Analytical Laboratory  
 851 West Midway Ave., Suite 201B  
 Alameda, CA 94501  
 510-864-0364 Telephone  
 510-864-0365 Fax

PAL  
 Login# 6020012

184918

Project No: 2841				Sampler: Mehran Nowrozi / Tony Perini						Analyses/Method			
Project Name: 5565 Tesla Rd, Livermore				Report To: Tony Perini						TPH, DPEX, MBE-8260B TPH-C, TPHTO VOCs (not on list) metals 3010A/6010B			
				Company: SOMA Environmental Engineering, Inc.									
Turnaround Time: Standard				Tel: 925-734-6400 Fax: 925-734-6401									
Lab No.	Sample ID	Sampling Date/Time		Matrix			# of Containers	Preservatives				Field Notes	
		Date	Time	Soil	Water	Waste		HCL	H <sub>2</sub> SO <sub>4</sub>	NONE	ICE		
	MW-1	2/13/06	1:10 PM		X		1 L Amber 4 VOAs	X		X	X	Grab Sample	
	MW-2		1:27 PM		X		1 L Amber 4 VOAs	X		X	X	Grab Sample	
	MW-3		1:47 PM		X		1 L Amber 4 VOAs	X		X	X	Grab Sample	
-1	Off-site supply well		11:10 AM		X		1 L Amber 4 VOAs 250 ml poly	X		X	X	Grab Sample, HNO <sub>3</sub>	
-2	On-site supply well		11:38 AM		X		1 L Amber 4 VOAs 250 ml poly	X		X	X	Grab Sample, HNO <sub>3</sub>	
Sampler Remarks:				Relinquished by:				Date/Time:		Received by:		Date/Time:	
EDF input required				<input checked="" type="checkbox"/> Received <input checked="" type="checkbox"/> Cold <input type="checkbox"/> Ambient <input type="checkbox"/> Intact <input type="checkbox"/> On Ice				[Signature] 2/13/06 3:45 PM		[Signature] 2/13/06 3:45 PM		[Signature] 2/13/06 3:45 PM	
				[Signature] 2/14/06 1:00 PM				[Signature] 2/14/06 1:00 PM		[Signature] 2/14/06 1:00 PM		[Signature] 2/14/06 1:00 PM	

**Lisa Brooker**

**From:** "Majid Akhavan" <makhavan@pal-lab.net>  
**To:** "Lisa Brooker" <lisa@ctberk.com>  
**Sent:** Wednesday, February 15, 2006 10:46 AM  
**Subject:** Re: 5565 Tesla Rd. - C&T Login Summary (184918)

Hi Lisa,

Please analyze for following metals:

Cd, Cr, Zn, Pb, and Ni

Thanks,

Majid Akhavan  
 Pacific Analytical Laboratory  
 851 W. Midway Ave. Suite 201B  
 Alameda, CA 94501  
 Phone:(510) 864-0364

----- Original Message -----

**From:** Lisa Brooker  
**To:** makhavan@pal-lab.net  
**Cc:** jzaininger@pal-lab.net  
**Sent:** Wednesday, February 15, 2006 10:19 AM  
**Subject:** 5565 Tesla Rd. - C&T Login Summary (184918)

Hi, The COC says metals. I am assuming you would like the Title 26 metals aka Cam 17 list. Is this correct? Thanks, Lisa

### C&T Login Summary for 184918

<b>Project:</b> STANDARD <b>Site:</b> 5565 Tesla Rd. <b>Lab Login #:</b> 184918 <b>Report Due:</b> 02/22/06 <b>PO#:</b> <b>C&amp;T Proj Mgr:</b> Lisa Brooker	<b>Report To:</b> Pacific Analytical Laboratory 851 West Midway Ave Suite 201B Alameda, CA 94501 ATTN: Majid Akhavan (510) 864-0364	<b>Bill To:</b> Pacific Analytic 851 West Midw Suite 201B Alameda, CA 9 ATTN: Majid A (510) 864-0364
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Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	Comments
OFF-SITE SUPPLY WELL	001	02/13	02/14			6020012	
				Water	EDF		
				Water	T26 MET		
ON-SITE SUPPLY WELL	002	02/13	02/14			6020012	
				Water	T26 MET		

### California LUFT Metals

Lab #: 184918	Location: 5565 Tesla Rd.
Client: Pacific Analytical Laboratory	Prep: EPA 3010A
Project#: STANDARD	Analysis: EPA 6010B
Matrix: Water	Sampled: 02/13/06
Units: ug/L	Received: 02/14/06
Diln Fac: 1.000	Prepared: 02/15/06
Batch#: 110475	Analyzed: 02/15/06

Field ID: OFF-SITE SUPPLY WELL      Lab ID: 184918-001  
 Type: SAMPLE

Analyte	Result	RL
Cadmium	ND	5.0
Chromium	15	10
Lead	ND	3.0
Nickel	ND	20
Zinc	1,700	20

Field ID: ON-SITE SUPPLY WELL      Lab ID: 184918-002  
 Type: SAMPLE

Analyte	Result	RL
Cadmium	ND	5.0
Chromium	ND	10
Lead	ND	3.0
Nickel	ND	20
Zinc	ND	20

Type: BLANK      Lab ID: QC328123

Analyte	Result	RL
Cadmium	ND	5.0
Chromium	ND	10
Lead	ND	3.0
Nickel	ND	20
Zinc	ND	20

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

California LUFT Metals			
Lab #:	184918	Location:	5565 Tesla Rd.
Client:	Pacific Analytical Laboratory	Prep:	EPA 3010A
Project#:	STANDARD	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	110475
Units:	ug/L	Prepared:	02/15/06
Diln Fac:	1.000	Analyzed:	02/15/06

Type: BS Lab ID: QC328124

Analyte	Spiked	Result	%REC	Limits
Cadmium	50.00	51.91	104	80-120
Chromium	200.0	198.0	99	80-120
Lead	100.0	94.93	95	76-124
Nickel	500.0	497.6	100	80-120
Zinc	500.0	514.8	103	80-120

Type: BSD Lab ID: QC328125

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	50.00	51.74	103	80-120	0	20
Chromium	200.0	197.9	99	80-120	0	20
Lead	100.0	93.13	93	76-124	2	20
Nickel	500.0	496.1	99	80-120	0	20
Zinc	500.0	516.0	103	80-120	0	20

## Batch QC Report

California LUFT Metals			
Lab #:	184918	Location:	5565 Tesla Rd.
Client:	Pacific Analytical Laboratory	Prep:	EPA 3010A
Project#:	STANDARD	Analysis:	EPA 6010B
Field ID:	ON-SITE SUPPLY WELL	Batch#:	110475
MSS Lab ID:	184918-002	Sampled:	02/13/06
Matrix:	Water	Received:	02/14/06
Units:	ug/L	Prepared:	02/15/06
Diln Fac:	1.000	Analyzed:	02/15/06

Type: MS Lab ID: QC328126

Analyte	MSS Result	Spiked	Result	%REC	Limits
Cadmium	<0.5500	50.00	48.84	98	80-120
Chromium	2.937	200.0	192.3	95	80-120
Lead	<0.5698	100.0	83.26	83	61-135
Nickel	1.766	500.0	463.7	92	77-120
Zinc	18.09	500.0	501.7	97	75-124

Type: MSD Lab ID: QC328127

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	50.00	49.77	100	80-120	2	20
Chromium	200.0	195.6	96	80-120	2	20
Lead	100.0	84.44	84	61-135	1	23
Nickel	500.0	475.2	95	77-120	2	20
Zinc	500.0	504.6	97	75-124	1	20

# Appendix D

Specifications for Off-site well at 5443 Tesla Road



**Mansour Sepehr**

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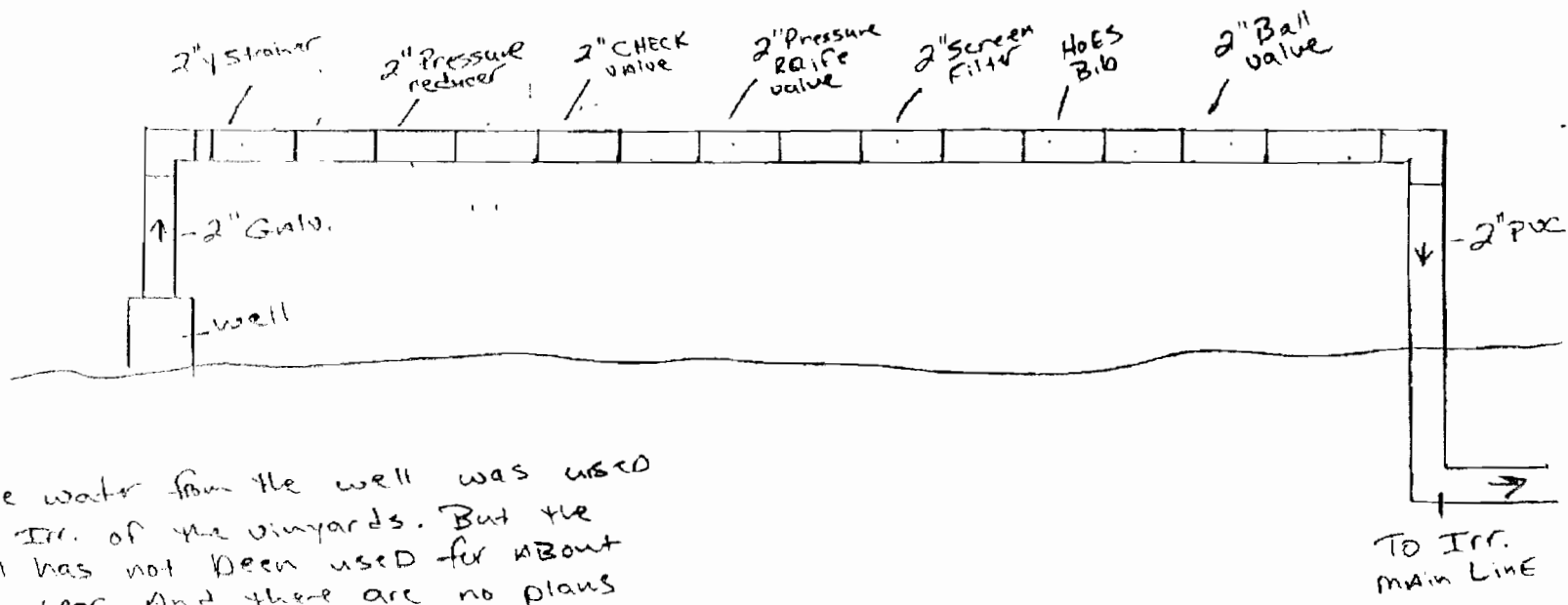
**From:** Aris Krimetz [aris@wentevineyards.com]  
**Sent:** Thursday, February 16, 2006 5:06 PM  
**To:** Mansour Sepehr (E-mail)  
**Subject:** 5443 Tesla Road

Mansour-

According to documents provided by the previous owner, the total depth of the well is 125', and the pump is at 100'. It was installed about 1972 by the previous owner. We only re-piped on the well discharge side and connected it to the irrigation system, removing it from the potable system when we purchased the property in 1995/96. The potable water for the property is supplied from a municipal source.

**Aris Krimetz**

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The water from the well was used for Irr. of the vineyards. But the well has not been used for ABOUT one year. And there are no plans to use the well in the near future