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Environmental Health

July 15, 2008



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

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

Dear Mr. Wickham:

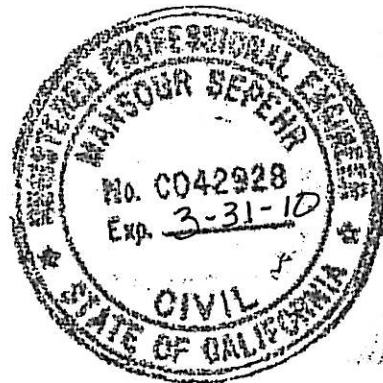
SOMA's "Second Quarter 2008 Groundwater Monitoring Report" for the subject site has been uploaded to the State's GeoTracker database and Alameda County's FTP site for your review.

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,

Mansour Sepehr, Ph.D., PE
Principal Hydrogeologist

cc: Mr. Aris Krimetz w/report enclosure



**Second Quarter 2008
Groundwater Monitoring Report**

**Wente Winery
5565 Tesla Road
Livermore, California**

July 15, 2008

Project 2841

Prepared for:

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

CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this report on behalf of Mr. Aris Krimetz for Wente Winery, located at 5565 Tesla Road, Livermore, California, to comply with requirements of Alameda County Environmental Health Services and the California Regional Water Quality Control Board for the Second Quarter 2008 groundwater monitoring event.



Mansour Sepehr, PhD, PE
Principal Hydrogeologist



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June 24, 2008

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- Appendix D: Chain of Custody Form and Laboratory Report

1. INTRODUCTION

SOMA Environmental Engineering, Inc. (SOMA) has prepared this report on behalf of Mr. Aris Krimetz for Wente Winery, located at 5565 Tesla Road, Livermore, California (Figure 1).

This report summarizes results of the Second Quarter 2008 groundwater monitoring event conducted at the site on June 24, 2008, and includes laboratory analysis results for the groundwater samples.

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 UST area.

1.2 Previous Activities and Investigations

1987: Two fuel USTs were removed from the site. There is no information regarding their condition or evidence of leakage. In 1990, Alameda County Environmental Health Services (ACEHS) issued a notice of violation 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 that revealed the existence of the former USTs, former waste discharge area, and a number of agricultural storage areas.

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 recognized environmental concerns. 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 shows soil boring locations.

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 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.

May 2005: On May 5, 2005, SOMA oversaw drilling by Woodward Drilling (Woodward) of three monitoring wells, MW-1 through MW-3 (Figure 2). On May 20, 2005, Woodward developed the newly installed wells.

June 24, 2005: SOMA oversaw drilling by Woodward of 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 to the former steam-cleaning area. 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.

SOMA's report of November 1, 2007, "Remedial Soil Excavation," presented plans for installation of an additional monitoring well in the area south of the welding shop. In accordance with the ACEHS request, that well was moved west of the proposed site and a second monitoring well was also installed upgradient of the off-site water supply well (Figure 2).

March 12, 2008: SOMA oversaw installation of two monitoring wells (MWS-1 and MWS-2) within the Upper WBZ by WDC Exploration & Wells (WDC).

March 20, 2008: SOMA oversaw development of the newly installed monitoring wells (MWS-1 and MWS-2) by WDC.

1.3 Regional Hydrogeologic Features

The site is located in the Livermore Valley Groundwater Basin. This basin 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 a predominantly permeable unit consisting of sand and gravel in a clayey sand matrix. The potentiometric surface of valley-fill groundwater near the subject 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.

In addition to one on-site well, five wells are located in the properties immediately west of, and presumably downgradient from, the site. North/northeast of, and presumably up/cross-gradient from the site are seven wells within 2,000 feet of the investigation area. Approximately 1,800 feet south of the site is another water

supply well. Available records indicate that six of the seven wells located north/northeast, and within 2,000 feet, of the site may be used as drinking water wells.

1.4 Field Activities and Laboratory Analysis for Second Quarter 2008 Groundwater Monitoring

1.4.1 Field Activities

On June 24, 2008, SOMA's field crew conducted a groundwater monitoring event in accordance with procedures and guidelines of ACEHS and the California Regional Water Quality Control Board (CRWQCB). Figure 2 shows well locations.

Field measurements and grab groundwater samples were collected from two monitoring wells (MWS-1 and MWS-2), an on-site and an off-site supply well. Depths to groundwater were also measured for monitoring wells MW-1 through MW-3. Depths to groundwater at the supply wells were not measured because these wells were inaccessible. Existing pumps and caps prevented measurement of the groundwater elevations.

(Note Regarding Supply Wells: Based on information supplied by Wentz, total depth of the off-site supply well is 125 feet bgs. SOMA is currently obtaining information for the on-site supply well. In 1972, the pump was installed at 100 feet bgs. The water from this well is used solely for irrigation of the vineyards. Correspondence referencing the off-site supply well and a piping diagram of the pump are included in Appendix C.)

SOMA's field personnel extracted groundwater from both the on- and off-site supply wells using the downhole pump within each well. The off-site supply well is located at 5443 Tesla Road. Approximately 70 gallons of groundwater were purged from each supply well. After the purge cycle was terminated, a groundwater sample was collected from each well.

Appendix A describes standard monitoring procedures followed by SOMA personnel during this event. Appendix B contains details of field measurements taken.

A natural attenuation study was conducted during this monitoring event, to determine whether petroleum hydrocarbons found in the groundwater were biodegrading.

1.4.2 Laboratory Analysis

Curtis & Tompkins, Ltd., a California state-certified laboratory, analyzed groundwater samples for the following: total petroleum hydrocarbons as gasoline

(TPH-g) and as diesel (TPH-d); benzene, toluene, ethylbenzene, total xylenes (collectively termed BTEX,); methyl tertiary-butyl ether (MtBE); gasoline oxygenates and lead scavengers; volatile organic compounds (VOCs); and metals.

EPA Method 5030B was used to prepare samples for TPH-g, BTEX, MtBE, gasoline oxygenates, lead scavengers, and VOCs, which were analyzed using EPA Method 8260B. EPA Method 3520C was used to prepare samples for TPH-d, which was analyzed using Method 8015B.

Metals, which included cadmium, chromium, lead, nickel, and zinc were prepared using EPA Method 3010A and analyzed using EPA Method 6010B and 7470A.

Appendix C contains chain of custody documentation and laboratory analytical reports for this monitoring event.

2. RESULTS

Following are results of field measurements and laboratory analyses for the June 24, 2008 groundwater monitoring event. Based on the ACEHS directive in correspondence of December 11, 2007, sampling has been revised to include newly installed monitoring wells MWS-1 and MWS-2 and supply wells on a quarterly basis and sampling of previously existing on-site monitoring wells (MW-1 through MW-3) has been temporarily discontinued. However, depths to groundwater were measured for wells MW-1 to MW-3. This report details sampling of the supply wells and newly installed monitoring wells MWS-1 and MWS-2.

2.1 Field Measurements

Table 1 presents depths to groundwater and corresponding groundwater elevations for the monitoring wells. Depth to groundwater ranged from 8.24 feet in MW-1 to 11.11 feet in MWS-2. Corresponding groundwater elevations ranged from 602.85 feet in MWS-2 to 608.18 feet in MW-3. Figure 3 displays the groundwater elevation contour map. In general the groundwater flows southwesterly across the site toward well MWS-2, with an average gradient of 0.0178 feet/feet. Refer to Table 1 for historical site-wide groundwater elevation trends.

Field notes in Appendix B show detailed measurements of 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.

Upon equalization of the surrounding aquifer at the well locations and termination of the purge cycle, DO concentrations ranged from 0.70 mg/L at MWS-2 to 1.05 mg/L at the off-site supply well. Oxygen reduction potential (ORP) showed positive redox potentials in all tested wells. Positive redox potentials are more energetically favorable in utilizing electron acceptors during chemical reactions. This promotes removal of organic mass from contaminated groundwater by indigenous bacteria in the subsurface during release of the transfer of electrons.

2.2 Laboratory Analysis

Historical groundwater analysis results are shown in Table 1 for the following: TPH-g, TPH-d, TPH as motor oil (TPH-mo), BTEX, and MtBE.

During this monitoring event, TPH-g, TPH-d, BTEX, and MtBE constituents were below the laboratory-reporting limit in all groundwater samples except for TPH-d, which was detected in groundwater samples collected from the on-site supply well at 71 µg/L. However, TPH-d analytical results in the groundwater samples collected from on-site supply well varied due to the presence of chromatographic patterns which did not resemble standard. The laboratory report is shown in Appendix D and provides further clarification on the variations. Based on the ACEHS directive dated December 11, 2007, analysis for TPH-mo is no longer required.

Table 2 shows analytical results for gasoline oxygenates and lead scavengers, all of which were below the laboratory-reporting limit in all groundwater samples.

Table 3 shows historical concentrations of 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 below the laboratory-reporting limit in all groundwater samples collected during this monitoring event. All other VOCs were below the laboratory-reporting limit in tested wells.

Table 4 shows historical concentrations of metals in the groundwater. Metal concentrations were as follows:

- In the on-site supply well and well MWS-2, all cadmium, chromium, lead, nickel, and zinc analytes were below the laboratory-reporting limit.
- In the off-site supply well, cadmium and nickel were below the laboratory-reporting limit. Chromium, lead, and zinc were detected at 9.7 µg/L, 8.1 µg/L, and 910 µg/L, respectively.

- In well MWS-1, all cadmium, chromium, and nickel analytes were below the laboratory-reporting limit. Lead and zinc were detected at 5.9 µg/L and 33 µg/L, respectively.

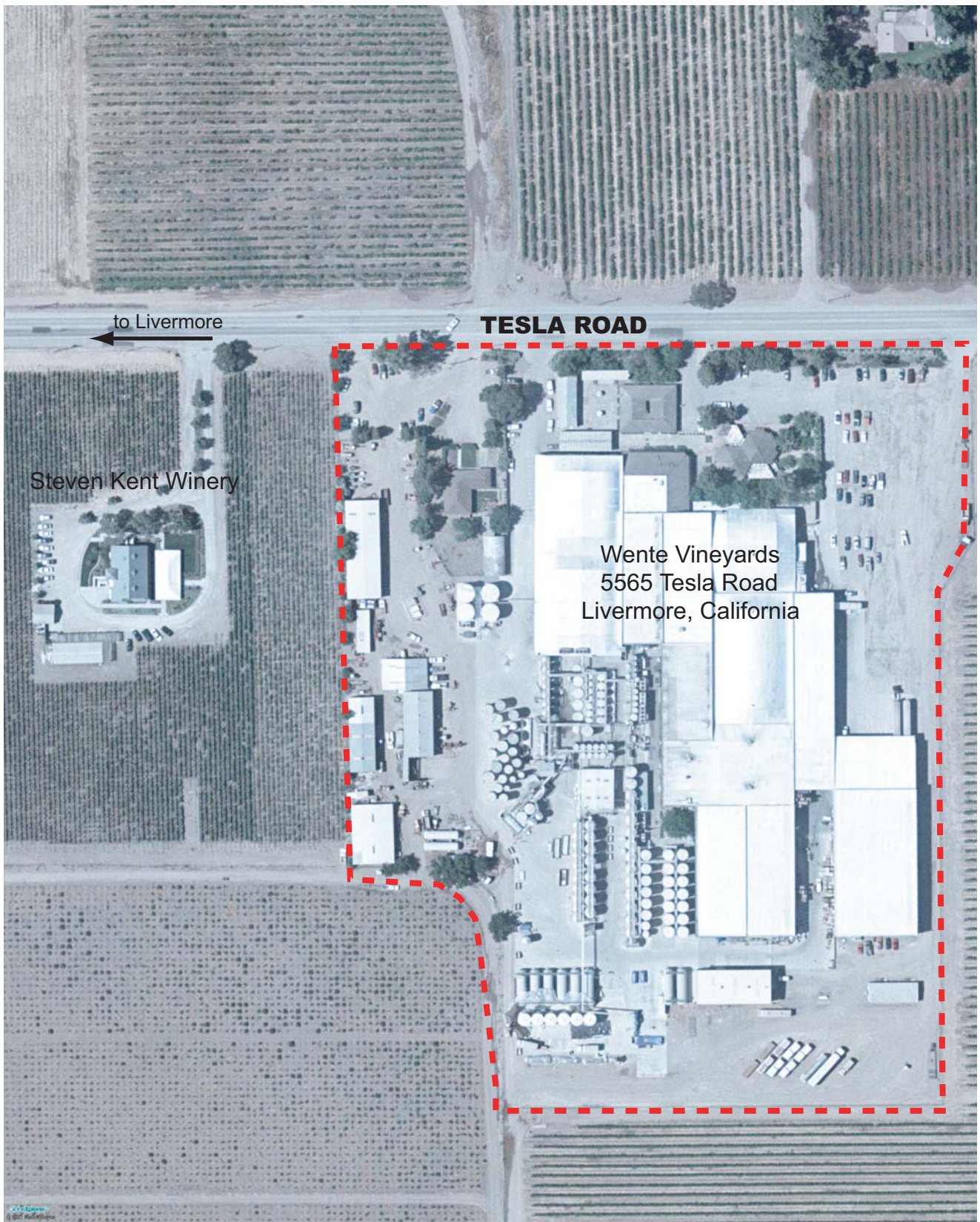
Appendix D includes the laboratory report and chain-of-custody documentation for this monitoring event.

3. CONCLUSIONS AND RECOMMENDATIONS

Results of the Second Quarter 2008 groundwater monitoring event are summarized below.

- The groundwater flow direction appears to be southwesterly across the site, at a gradient of 0.0178 feet/feet.
- Based on results of the bioattenuation study, indigenous bacteria have effectively removed organic mass from the impacted groundwater in the subsurface. This is evidenced by the positive redox potentials observed in the water supply wells.
- All tested analytes were below the laboratory-reporting limit in well MWS-2 and the on-site water supply well, except for trace concentrations of TPH-d in the on-site supply well. Chromium, lead, and zinc were detected in the off-site supply well. Lead and zinc were detected in monitoring well MWS-1.
- Based on CRWQCB Environmental Screening Levels (ESLs) for groundwater used as a drinking water source, the allowable chromium, lead, nickel and zinc concentrations in groundwater are 50, 15, 100 and 5000 µg/L, respectively. Comparison of ESL values with concentrations of chromium, lead, nickel and zinc in the off-site water supply well and tested monitoring wells indicates that all metal concentrations are well below the applicable water quality criteria.
- In the past, chlorinated solvents including chloromethane and chloroethane were detected in the groundwater. During the last several monitoring events, no chlorinated solvents were detected.
- Based on the previous detection of tetrahydrofuran in the off-site supply well, on August 23, 2006 the ACEHS requested that analysis of this compound be continued. No tetrahydrofuran was detected during this monitoring event or the several previous quarterly sampling events.
- Due to the low to nondetectable levels of chemicals of concern, SOMA recommends that no further action (NFA) status be adopted by ACEHS for the site.

FIGURES



to Livermore
←

TESLA ROAD

Steven Kent Winery

Wente Vineyards
5565 Tesla Road
Livermore, California



approximate scale in feet



Figure 1: Site vicinity map.

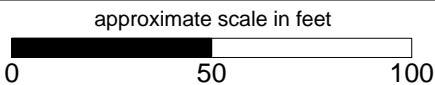
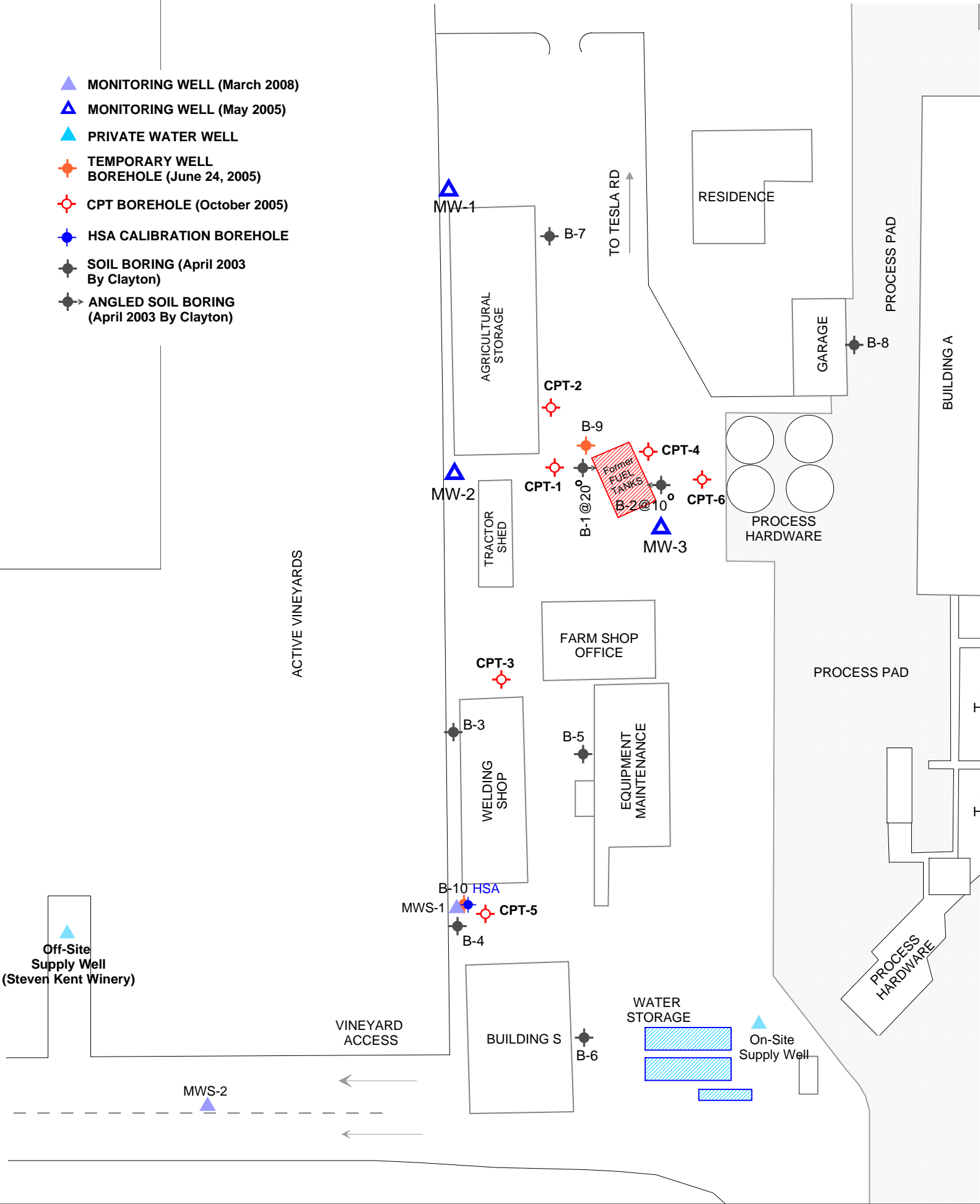


Figure 2: Map showing locations of monitoring wells, temporary well boreholes, and previous soil borings installed by Clayton group.

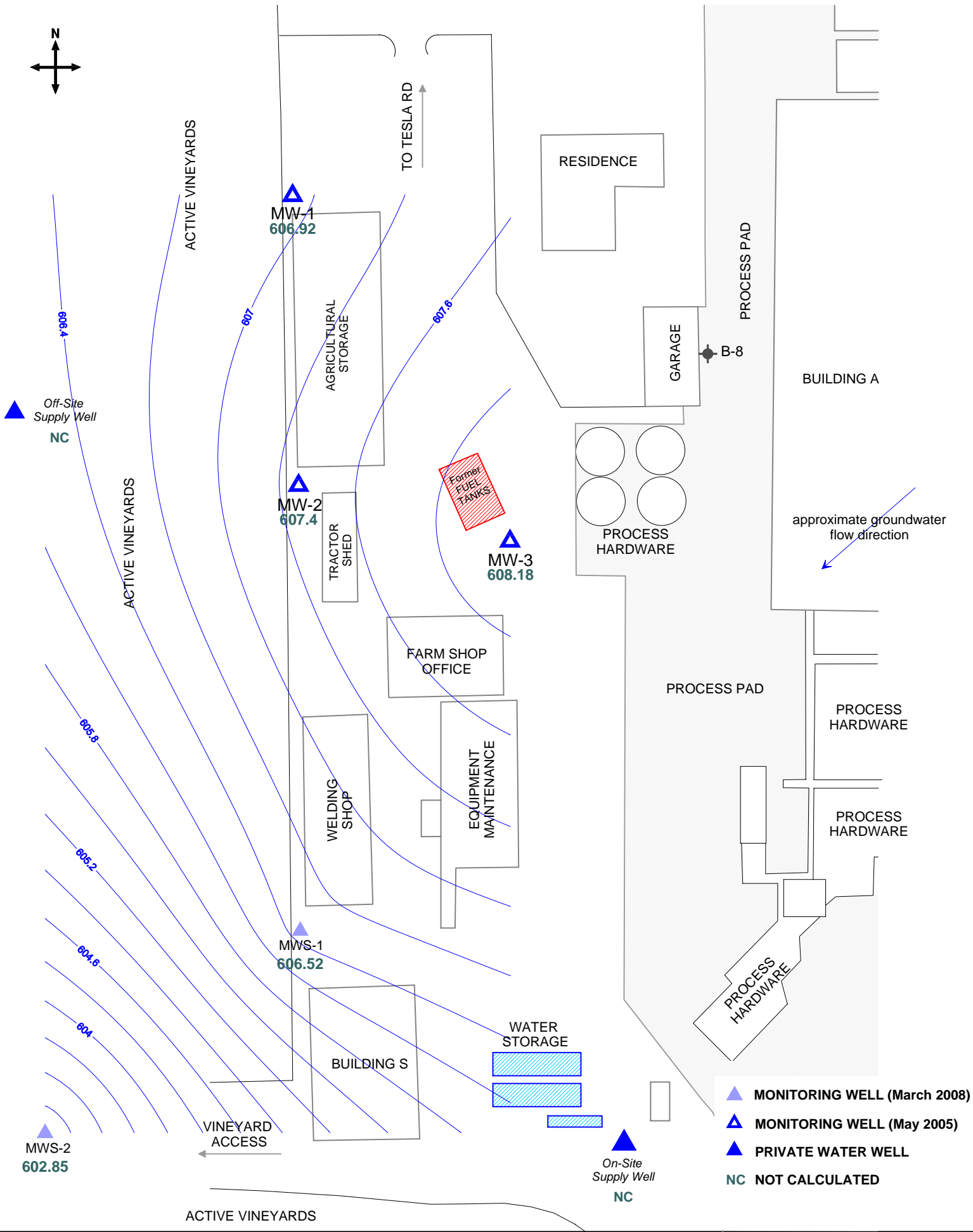


Figure 3: Groundwater Elevation Contour Map in Feet. June 24, 2008.

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)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	
MW-1	5/20/2005	615.16	6.10	609.06	<200	<50	320 YZ	<0.5	<0.5	<0.5	<1.0	<0.5	
	9/13/2005	615.16	9.19	605.97	<50	<50	<300	<0.5	<2.0	<0.5	<1.0	<0.5	
	11/28/2005	615.16	8.90	606.26	<50	150 YZ	<300	<0.5	<2.0	<0.5	<1.0	<0.5	
	2/13/2006	615.16	6.29	608.87	<50	<50	<250	<0.5	<2.0	<0.5	<1.0	<0.5	
	5/5/2006	615.16	5.23	609.93	<50	70 HY	<300	<0.5	<0.5	<0.5	<0.5	<0.5	
	8/15/2006	615.16	7.54	607.62	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5	
	11/2/2006	615.16	8.97	606.19	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5	
	1/30/2007	615.16	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/26/2008	615.16	6.34	608.82	NA	NA	NA	NA	NA	NA	NA	NA	NA
6/24/2008	615.16	8.24	606.92	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MW-2	5/20/2005	616.03	6.69	609.34	<200	<50	<300	<0.5	<0.5	<0.5	<1.0	<0.5	
	9/13/2005	616.03	9.30	606.73	<50	<50	<300	<0.5	<2.0	<0.5	<1.0	<0.5	
	11/28/2005	616.03	9.20	606.83	<50	<50	<300	<0.5	<2.0	<0.5	<1.0	<0.5	
	2/13/2006	616.03	6.52	609.51	<50	76.5 ^{D35}	657 ^{D06}	<0.5	<2.0	<0.5	<1.0	<0.5	
	5/5/2006	616.03	5.58	610.45	<50	50 HY	<300	<0.5	<0.5	<0.5	<0.5	<0.5	
	8/15/2006	616.03	8.09	607.94	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5	
	11/2/2006	616.03	9.00	607.03	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5	
	1/30/2007	616.03	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/26/2008	616.03	6.75	609.28	NA	NA	NA	NA	NA	NA	NA	NA	NA
6/24/2008	616.03	8.63	607.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MW-3	5/20/2005	617.32	7.04	610.28	<200	680	<300	<0.5	1.58	<0.5	<1.0	<0.5	
	9/13/2005	617.32	9.61	607.71	<50	300 Y	<300	<0.5	<2.0	<0.5	<1.0	<0.5	
	11/28/2005	617.32	9.60	607.72	<50	150 YZ	<300	<0.5	<2.0	<0.5	<1.0	<0.5	

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)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)
MW-3 cont	2/13/2006	617.32	7.06	610.26	<50	<50	322 ^{D06}	<0.5	<2.0	<0.5	<1.0	<0.5
	5/5/2006	617.32	5.94	611.38	<50	61 HY	<300	<0.5	<0.5	<0.5	<0.5	<0.5
	8/15/2006	617.32	8.53	608.79	<50	76 HY	<300	<0.5	<0.5	<0.5	<0.5	<0.5
	11/2/2006	617.32	9.39	607.93	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5
	1/30/2007	617.32	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA
	3/26/2008	617.32	7.14	610.18	NA	NA	NA	NA	NA	NA	NA	NA
	6/24/2008	617.32	9.14	608.18	NA	NA	NA	NA	NA	NA	NA	NA
MWS-1												
	3/26/2008	616.86	8.49	608.37	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5
	6/24/2008	616.86	10.34	606.52	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5
MWS-2												
	3/26/2008	613.96	8.80	605.16	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5
	6/24/2008	613.96	11.11	602.85	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5
B-9												
	6/24/2005	NA	NA	NA	1,850,000	540,000 LY	<24,000	3,820	114,000	40,400	177,700	<462
B-10												
	6/24/2005	NA	NA	NA	<200	<50	<300	<0.5	4.23	1.10	4.03	<0.5
Onsite Supply Well												
	5/20/2005	NS	NM	NC	<200	<50	<300	<0.5	0.85	<0.5	<1.0	<0.5
	11/28/2005	NS	NM	NC	<50	100 YZ	<300	<0.5	<2.0	<0.5	<1.0	<0.5
	2/13/2006	NS	NM	NC	<50	91.8	<250	<0.5	<2.0	<0.5	<1.0	<0.5
	5/5/2006	NS	NM	NC	<50	52 Y	<300	<0.5	<0.5	<0.5	<0.5	<0.5
	8/15/2006	NS	NM	NC	<50	95 YZ	<300	<0.5	<0.5	<0.5	<0.5	<0.5
	11/2/2006	NS	NM	NC	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5
	1/30/2007	NS	NM	NC	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5
	4/30/2007	NS	NM	NC	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5
	8/8/2007	NS	NM	NC	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5
	10/29/2007	NS	NM	NC	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5
	3/26/2008	NS	NM	NC	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5
	6/24/2008	NS	NM	NC	<50	71 Y	NA	<0.5	<0.5	<0.5	<0.5	<0.5

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)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)
Offsite Supply Well	5/20/2005	NS	NM	NC	<200	<50	<300	0.77	1.08	<0.5	<1.0	<0.5
	11/28/2005	NS	NM	NC	<5,380	120 YZ	<300	<53.8	<215	<53.8	<108	<53.8
	1/16/2006	NS	9.65	NC	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5
	2/13/2006	NS	NM	NC	<50	<50	<250	<0.5	<2.0	<0.5	<1.0	<0.5
	5/5/2006	NS	NM	NC	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5
	8/15/2006	NS	NM	NC	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5
Offsite Supply Well cont.	11/2/2006	NS	NM	NC	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5
	1/30/2007	NS	NM	NC	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5
	4/30/2007	NS	NM	NC	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5
	8/8/2007	NS	NM	NC	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5
	10/29/2007	NS	NM	NC	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5
	3/26/2008	NS	NM	NC	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5
	6/24/2008	NS	NM	NC	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5

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)	Ethylbenzene (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 Dept. Tetrahydrofuran was detected at 19,700 ug/L and chloroethane was detected at 380 ug/L during the 4Q05 Monitoring Event.
- 8) Wells MWS-1 and MWS-2 were installed on February 8, 2008 and were developed on February 13, 2008 by Gregg Drilling.

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

H: Heavier hydrocarbons contributed to the quantitation

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)

As of the First Quarter 2007, supply wells are to be analyzed on a quarterly basis and sampling of monitoring wells is temporarily discontinued.

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)
MW-1	9/13/2005	<2.5	<0.5	<0.5	<2.0	<0.5	<2.0
	2/13/2006	<2.5	<0.5	<0.5	<2.0	<0.5	<2.0
	5/5/2006	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	8/15/2006	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	11/2/2006	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	1/30/2007	NA	NA	NA	NA	NA	NA
MW-2	9/13/2005	<2.5	<0.5	<0.5	<2.0	<0.5	<2.0
	2/13/2006	<2.5	<0.5	<0.5	<2.0	<0.5	<2.0
	5/5/2006	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	8/15/2006	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	11/2/2006	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	1/30/2007	NA	NA	NA	NA	NA	NA

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)
MW-3	9/13/2005	<2.5	<0.5	<0.5	<2.0	<0.5	<2.0
	2/13/2006	<2.5	<0.5	<0.5	<2.0	<0.5	<2.0
	5/5/2006	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	8/15/2006	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	11/2/2006	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	1/30/2007	NA	NA	NA	NA	NA	NA
MWS-1	3/26/2008	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	6/24/2008	<10	<0.5	<0.5	<0.5	<0.5	<0.5
MWS-2	3/26/2008	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	6/24/2008	<10	<0.5	<0.5	<0.5	<0.5	<0.5
Onsite Supply Well	11/28/2005	<2.5	<0.5	<0.5	<2.0	<0.5	<2.0
	2/13/2006	<2.5	<0.5	<0.5	<2.0	<0.5	<2.0
	5/5/2006	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	8/15/2006	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	11/2/2006	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	1/30/2007	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	4/30/2007	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	8/8/2007	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	10/29/2007	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	3/26/2008	<10	<0.5	<0.5	<0.5	<0.5	<0.5
6/24/2008	<10	<0.5	<0.5	<0.5	<0.5	<0.5	

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)
Offsite Supply Well	11/28/2005	<269	<53.8	<53.8	<215	<53.8	<215
	1/16/2006	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	2/13/2006	<2.5	<0.5	<0.5	<2.0	<0.5	<2.0
	5/5/2006	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	8/15/2006	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	11/2/2006	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	1/30/2007	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	4/30/2007	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	8/8/2007	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	10/29/2007	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	3/26/2008	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	6/24/2008	<10	<0.5	<0.5	<0.5	<0.5	<0.5

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)
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Notes:

- 1) A grab sample was collected after well development on May 20, 2005.
- 2) 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.

As of the First Quarter 2007, supply wells are to be analyzed on a quarterly basis and sampling of monitoring wells is temporarily discontinued.

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 Compounds

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	9/13/2005	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2/13/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	5/5/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	8/15/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/2/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	1/30/2007	NA	NA	NA	NA	NA	NA	NA
MW-2	9/13/2005	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2/13/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	5/5/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	8/15/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/2/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	1/30/2007	NA	NA	NA	NA	NA	NA	NA
MW-3	9/13/2005	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2/13/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	5/5/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	8/15/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/2/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	1/30/2007	NA	NA	NA	NA	NA	NA	NA
MWS-1	3/26/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	6/24/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MWS-2	3/26/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	6/24/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Table 3
Historical Analytical Results For Volatile Organic Compounds

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)
Onsite Supply Well	11/28/2005	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2/13/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	5/5/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	8/15/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/2/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	1/30/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	4/30/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	8/8/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	10/29/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	3/26/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6/24/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Offsite Supply Well	11/28/2005	<53.8	<53.8	<53.8	<53.8	<53.8	<53.8	<53.8
	1/16/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2/13/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	5/5/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	8/15/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/2/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	1/30/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	4/30/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	8/8/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	10/29/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/26/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
6/24/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Table 3
Historical Analytical Results For Volatile Organic Compounds

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)
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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) 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.

As of the First Quarter 2007, supply wells are to be analyzed on a quarterly basis and monitoring wells are analyzed semi-annually.

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	9/13/2005	<5.0	<10	<3.0	<20	27
MW-2	9/13/2005	<5.0	<10	<3.0	<20	23
MW-3	9/13/2005	<5.0	<10	<3.0	<20	<20
MWS-1	3/26/2008	<5.0	9.9	<3.0	17	30
	6/24/2008	<5.0	<5.0	5.9	<5.0	33
MWS-2	3/26/2008	<5.0	7.9	<3.0	22	<20
	6/24/2008	<5.0	<5.0	<3.0	<5.0	<20
B-10	6/24/2005	12	930	82	3,600	800
Onsite Supply Well	11/28/2005	<5.0	<10	<3.0	<20	62
	2/13/2006	<5.0	<10	<3.0	<20	<20
	5/5/2006	<5.0	<10	26	<20	<20
	8/15/2006	<5.0	<10	<3.0	34	60
	11/2/2006	<5.0	<10	<3.0	<20	<20
	1/30/2007	<1.0	2.30	<1.0	1.9	31
	4/30/2007	<5.0	<5.0	<3.0	<5.0	<20
	8/8/2007	<5.0	<5.0	<3.0	<5.0	610
	10/29/2007	<5.0	<5.0	<3.4	<5.0	24
	3/26/2008	<5.0	<5.0	<3.0	<5.0	<20
	6/24/2008	<5.0	<5.0	<3.0	<5.0	<20

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)
Offsite Supply Well	11/28/2005	<5.0	<10	<3.0	<20	830
	1/16/2006	<5.0	<10	8.30	<20	650
	2/13/2006	<5.0	15	<3.0	<20	1700
	5/5/2006	<5.0	<10	26	<20	750
	8/15/2006	<5.0	<10	<3.0	<20	1,200
	11/2/2006	<5.0	<10	<3.0	<20	1,300
	1/30/2007	<1.0	<1.0	<1.0	4.0	7,200
	4/30/2007	<5.0	<5.0	<3.0	<5.0	720
	8/8/2007	<5.0	<5.0	3	<5.0	570
	10/29/2007	<5.0	8.7	<3.4	7.8	710
	3/26/2008	<5.0	11.0	4.8	5.6	620
	6/24/2008	<5.0	9.7	8.1	<5.0	910

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

Standard Operating Procedures for Conducting Groundwater Monitoring Activities

Standard Operating Procedures for Conducting Groundwater Monitoring Activities

Water Level Measurements

Prior to measurement of groundwater depth at each well, equalization with the surrounding aquifer must be achieved. Initially, the well cap is removed and the pressure is allowed to dissipate, creating a more stable water table level within the well. After about 10-15 minutes, once the water level in the well stabilizes, the depth to groundwater is measured from the top of the casing to the nearest 0.01 foot using an electric sounder.

Purging and Field Measurements

Prior to sample collection, each well is purged using a battery-operated, 2-inch-diameter pump (Model ES-60 DC). During purging, groundwater is measured for parameters such as dissolved oxygen (DO), pH, temperature, electrical conductivity (EC), and oxygen-reduction potential (ORP) using a Hanna HI-9828 multi-parameter instrument. Turbidity is measured using a Hanna HI-98703 portable turbidimeter. The equipment is calibrated at the Site using standard solutions and procedures provided by the manufacturer.

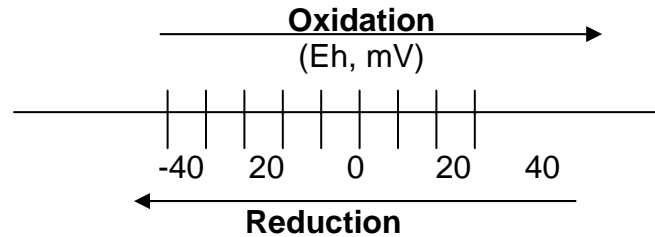
The pH of groundwater has an effect on the activity of microbial populations in the groundwater. The groundwater temperature affects the metabolic activity of bacteria. The groundwater EC is directly related to the concentration of total dissolved solids (TDS) in solution.

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 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 millivolt. 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 O₂ in water is low (9 mg/L at 25 °C and 11 mg/L at 5 °C), and because the rate of O₂ 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 O₂ in the groundwater is consumed; however, the oxidizing agents (i.e., the constituents that undergo reduction) now become NO₃⁻, MnO₂, Fe (OH)₃, SO₄²⁻ and others (Freeze and Cherry, 1979). As these oxidizing agents are consumed, the groundwater environment becomes more and more reduced. If the process

advances far enough, the environment may become so strongly reduced that the petroleum hydrocarbons 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.



Purging of wells continues until the parameters for DO, pH, temperature, EC, turbidity, and redox stabilize, or three casing volumes are purged.

Once stabilization occurs, the groundwater samples are also tested on-site for ferrous iron (Fe^{+2}), nitrate (NO_3^-), and sulfate (SO_4^{-2}) concentrations.

Fe^{+2} , NO_3^- , and SO_4^{-2} are measured colorimetrically using the Hach Colorimeter Model 890, a microprocessor-controlled photometer suitable for colorimetric testing in the laboratory or the field. The required reagents for each specific test are provided in AccuVac ampuls.

Sampling

For sampling purposes, after purging a disposable polyethylene bailer is used to collect sufficient samples from each monitoring well for laboratory analyses. Groundwater samples are transferred into 40-mL VOA vials and preserved with hydrochloric acid. The vials are sealed to prevent air bubbles from developing within the headspace. For TPH-d analysis, groundwater samples are collected using 1-L, amber, nonpreserved glass containers. Samples are placed in an ice-filled cooler and maintained at 4°C. A chain of custody form for all samples is prepared to accompany the samples, which are promptly delivered to a California state-certified analytical laboratory.

APPENDIX B

Table of Elevations and Coordinates for Monitoring
Wells Surveyed by Harrington Survey Inc.
and
Field Measurements of Physical, Chemical,
and Biodegradation Parameters of the
Groundwater Samples at Time of Sampling




SURVEY REPORT
5565 Tesla Road, Livermore, CA.
GSI JN: 02-08-108

THE ATTACHED GEODETIC COORDINATES WERE ESTABLISHED FROM A GPS FIELD SURVEY UNDER MY DIRECT SUPERVISION.

COORDINATES SHOWN HEREON ARE GEODETIC DECIMAL DEGREE NAD 83 VALUES.

ELEVATIONS SHOWN HEREON ARE NAVD 88 BASED UPON THE NATIONAL GEODETIC SURVEY BENCHMARK DESIGNATION 'A-210 RESET' HAVING AN ELEVATION OF 125.228 FEET.

DATE OF SURVEY: April 1, 2008

 4-4-08

Ralph W. Guida IV, PLS 7076
MY LICENSE EXPIRES 12/31/08



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San Marcos, CA 92069

T (760) 759-2200 • F (760) 759-2219
gsisd@guidasurveying.com

PALM DESERT AREA:

79-440 Corporate Center Dr., Suite 114
La Quinta, CA 92253

T (760) 393-5353 • F (760) 393-5357
gsipd@guidasurveying.com

PHOENIX AREA:

5016 S. Ash Ave., Suites 101 & 102
Tempe, AZ 85282

T (480) 889-2232 • F (480) 775-6323
gsiaz@guidasurveying.com



DATE: 4/04/2008
 JOB NUMBER 0208108
 DATE OF SURVEY 4/01/08
 INSTRUMENT LIECA SR520

TABLE OF ELEVATIONS & COORDINATES
 ON MONITORING WELLS
 SOMA ENVIRONMENTAL, PROJECT - 5565 TESLA ROAD, LIVERMORE, CA

WELL ID#	NORTHING (ft.) LATITUDE	EASTING (ft.) LONGITUDE	ELEVATION (ft.)	DESCRIPTION
MWS-1	2066407.83	6206468.10	616.86	NOTCH NORTH SIDE
	37.663558155	121.727163920	617.07	RIM NORTH SIDE
	37° 39' 48.8" N	121° 43' 37" W	616.99	GROUND NORTH SIDE
MWS-2	2,066,310.08	6,206,333.74	613.96	NOTCH NORTH SIDE
	37.663284879	121.727623630	614.29	RIM NORTH SIDE
	37° 39' 47.8" N	121° 43' 39" W	614.27	GROUND NORTH SIDE

HORIZONTAL AND VERTICAL CONTROL BASED ON HARRINGTON SURVEY DATED 6-03-2006

CALIFORNIA HPGN MONUMENT 04 FL, CALIFORNIA COORDINATE SYSTEM, ZONE 3. NAD 83.
 NORTH 2,085,087.52' - EAST 6,213,127.18' ELEVATION 566.57, NAVD 88.

CALIFORNIA HPGN MONUMENT 04 FK, CALIFORNIA COORDINATE SYSTEM, ZONE 3. NAD 83.
 NORTH 2,055,8426.44' - EAST 6,189,298.07' ELEVATION 637.80', NAVD 88.



CORPORATE OFFICE:

9241 Irvine Blvd
 Irvine, CA 92618

T (949) 777-2000 • F (949) 777-2050
 gsicorp@guidasurveying.com

SAN FRANCISCO BAY AREA:

6711 Sierra Court, Suite A
 Dublin, CA 94568

T (925) 404-0500 • F (925) 404-0505
 gsisfba@guidasurveying.com

SAN DIEGO AREA:

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 San Marcos, CA 92069

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 gsisd@guidasurveying.com

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 gsiaz@guidasurveying.com

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,

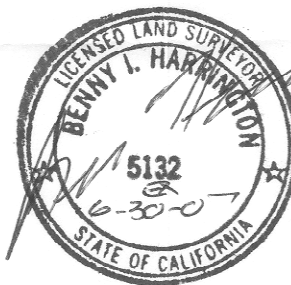
CALIFORNIA HPGN MONUMENT 04 FK, CALIFORNIA COORDINATE SYSTEM, ZONE 3.
NORTH 2,055,842.44 - EAST 6,189,298.07, LAT N37°38'02.07933",
W121°47'09.51080"
ELEVATION 637.80NAVD 88,

INSTRUMENTATION:

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

FIELD SURVEY: JUNE 03, 2005.

BEN HARRINGTON
PLS 5132





ENVIRONMENTAL ENGINEERING, INC

Well No.: MWS-1
 Casing Diameter: 2 inch
 Depth of Well: 35.29 ft
 Top of Casing Elevation: 616.86 ft
 Depth to Groundwater: 10.34 ft
 Groundwater Elevation: 606.52 ft
 Water Column Height: 24.95 ft
 Purged Volume: 12 gallons

Project No.: 2841
 Address: Wente Vineyards
 5565 Tesla Rd, Livermore
 Date: June 24, 2008
 Sampler: Eric Gassner-Wollwage
Ruchi Mathur

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

Color: No Yes Describe Cloudy

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
1257	Started purging well						
1258	3	0.80	8.31	18.41	1244	627	-42.6
1259	6	0.73	7.04	18.56	1294	647	-9.5
0100	9	0.72	6.99	18.59	1295	648	+7.3
0101	12	0.71	6.95	18.62	1284	641	+5.6
0102	Sampled						

Notes:



ENVIRONMENTAL ENGINEERING, INC

Well No.: MWS-2
 Casing Diameter: 2 inch
 Depth of Well: 26.39 ft
 Top of Casing Elevation: 613.96 ft
 Depth to Groundwater: 11.11 ft
 Groundwater Elevation: 602.85 ft
 Water Column Height: 15.28 ft
 Purged Volume: 6 gallons

Project No.: 2841
 Address: Wente Vineyards
 5565 Tesla Rd, Livermore
 Date: June 24, 2008
 Sampler: ~~Eric Gassner-Wollwage~~
 Rechi Mathur

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

Color: No Yes Describe light brown / cloudy

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
1516	Started		Purging				
1517	3	0.40	8.07	19.12	1055	540	+0.4
1518	6	0.70	7.20	19.06	1122	563	+16.3
1524	Sampled						

Notes:



ENVIRONMENTAL ENGINEERING, INC

Well No.: Onsite Supply Well
 Casing Diameter: — inch
 Depth of Well: NM ft
 Top of Casing Elevation: NS ft
 Depth to Groundwater: NM ft
 Groundwater Elevation: NC ft
 Water Column Height: NM ft
 Purged Volume: 70 gallons

Project No.: 2841

Address: Wente Vineyards
 5565 Tesla Rd, Livermore

Date: June 24, 2008

Sampler: Erie Gassner-Wollwage
Ruchi Mathur

Purging Method: Bailer

Pump Active pump

Sampling Method: Bailer

Pump Active 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
1356	Started purging well						
1356	20	0.93	7.83	27.14	1219	53.2	-17.7
1400	35	0.76	7.38	27.52	1192	17.4	+3.6
1402	50	0.84	7.18	23.58	1262	13.5	+12.1
1404	70	0.94	7.38	22.51	1283	12.9	+16.8
1410	Sampled						

Notes:



ENVIRONMENTAL ENGINEERING, INC

Well No.: Offsite supply well
 Casing Diameter: - inch
 Depth of Well: 126 ft
 Top of Casing Elevation: NS ft
 Depth to Groundwater: NM ft
 Groundwater Elevation: NC ft
 Water Column Height: NM ft
 Purged Volume: 70 gallons

Project No.: 2841
 Address: Wente Vineyards
 5565 Tesla Rd, Livermore
 Date: June 24, 2008
 Sampler: Eric Gassner-Wollwage
 Ruchi Mathur

Purging Method: Bailer Pump Active well
 Sampling Method: Bailer Pump Active well
 Color: No Yes Describe Brown
 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
1135	Started purging well						
1145	20	0.91	8.19	20.49	1243	457	+62.6
1150	35	1.13	8.10	22.94	1232	230	+45.0
1155	50	0.89	7.72	25.42	1158	156	+36.9
1159	70	1.05	7.65	22.05	1243	141	+30
1205	Sampled						

Notes:

APPENDIX C

Specifications for Off-site well at 5443 Tesla Road

5445 Tesla Road

Page 1 of 1

Mansour Sepohr

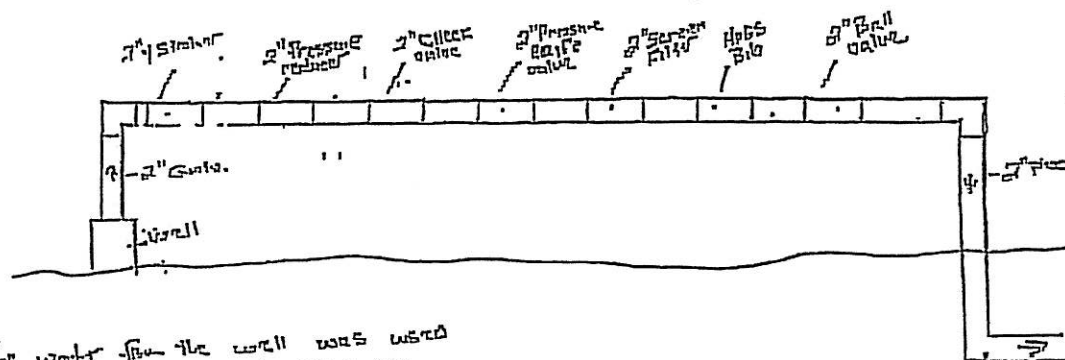
From: Aris Krimez [aris@wanlevineyards.com]
Sent: Thursday, February 16, 2006 6:06 PM
To: Mansour Sepohr (E-mail)
Subject: 5445 Tesla Road

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 Krimez
Director of Engineering
Wente Vineyards
5565 Tesla Road
Livermore, CA 94550
Office: 925 456 2313
Cell: 925 518 0010
aris@wanlevineyards.com
www.wanlevineyards.com

2/17/2006



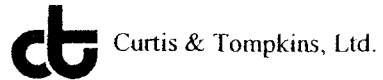
The water from the well was used for int. of the upwards. But the well has not been used for about one year. And there are no plans to use the well in the near future

DATE: 10/10/2011

APPENDIX D

Chain of Custody Form and Laboratory Report

COOLER RECEIPT CHECKLIST



Login # 204250 Date Received 6/25/08 Number of coolers 1
 Client SOMA Project 5565 Tesla Rd, Livermore
 Date Opened 6/25 By (print) K Wellbrock (sign) [Signature]
 Date Logged in ✓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc)?..... YES NO
 Shipping info _____

2A. Were custody seals present? YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received?..... YES NO

4. Were custody papers filled out properly (ink, signed, etc)?..... YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form)..... YES NO

6. Indicate the packing in cooler: (if other, describe) _____

Bubble Wrap Foam blocks Bags None

Cloth material Cardboard Styrofoam Paper towels

7. If required, was sufficient ice used? Samples should be < or = 6°C YES NO N/A

Type of ice used: Wet Blue None Temp(°C) _____

Samples Received on ice & cold without a temperature blank

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO

If YES, what time were they transferred to freezer? _____

9. Did all bottles arrive unbroken/unopened?..... YES NO

10. Are samples in the appropriate containers for indicated tests? YES NO

11. Are sample labels present, in good condition and complete? YES NO

12. Do the sample labels agree with custody papers? YES NO N/A

13. Was sufficient amount of sample sent for tests requested? YES NO N/A

14. Are the samples appropriately preserved? YES NO N/A

15. Are bubbles > 6mm absent in VOA samples?..... YES NO N/A

16. Was the client contacted concerning this sample delivery?..... YES NO

If YES, Who was called? _____ By _____ Date: _____

COMMENTS

~~#15~~ - V4 On-Site Supply Well VOA₂ with Bubble
~~#12~~ - COC sample date is 3/26/2008 — sample IDs are 6/24/08
~~#13~~ - Poured off metals container for On-Site Supply Well because
 only 2 1L ambers were sent KW 6/25/08 @ 1825

logged in per sample ID



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

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

Laboratory Job Number 204250
ANALYTICAL REPORT

SOMA Environmental Engineering Inc.
6620 Owens Dr.
Pleasanton, CA 94588

Project : 2841
Location : 5565 Tesla Rd, Livermore
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
OFF-SITE SUPPLY WELL	204250-001
ON-SITE SUPPLY WELL	204250-002
MWS-1	204250-003
MWS-2	204250-004

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. This report may be reproduced only in its entirety.

Signature: 
Project Manager

Date: 07/08/2008

Signature: 
Senior Program Manager

Date: 07/10/2008

CASE NARRATIVE

Laboratory number: 204250
Client: SOMA Environmental Engineering Inc.
Project: 2841
Location: 5565 Tesla Rd, Livermore
Request Date: 06/25/08
Samples Received: 06/25/08

This hardcopy data package contains sample and QC results for four water samples, requested for the above referenced project on 06/25/08. The samples were received cold and intact.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A):

No analytical problems were encountered.

Total Extractable Hydrocarbons			
Lab #:	204250	Location:	5565 Tesla Rd, Livermore
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	2841	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	06/24/08
Units:	ug/L	Received:	06/25/08
Diln Fac:	1.000	Prepared:	06/26/08
Batch#:	139725	Analyzed:	06/30/08

Field ID: OFF-SITE SUPPLY WELL Lab ID: 204250-001
 Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	100	63-130

Field ID: ON-SITE SUPPLY WELL Lab ID: 204250-002
 Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	71 Y	50

Surrogate	%REC	Limits
Hexacosane	103	63-130

Field ID: MWS-1 Lab ID: 204250-003
 Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	84	63-130

Field ID: MWS-2 Lab ID: 204250-004
 Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	93	63-130

Type: BLANK Lab ID: QC448372

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	104	63-130

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	204250	Location:	5565 Tesla Rd, Livermore
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	2841	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	139725
Units:	ug/L	Prepared:	06/26/08
Diln Fac:	1.000	Analyzed:	06/30/08

Type: BS Lab ID: QC448373

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	1,748	70	61-120

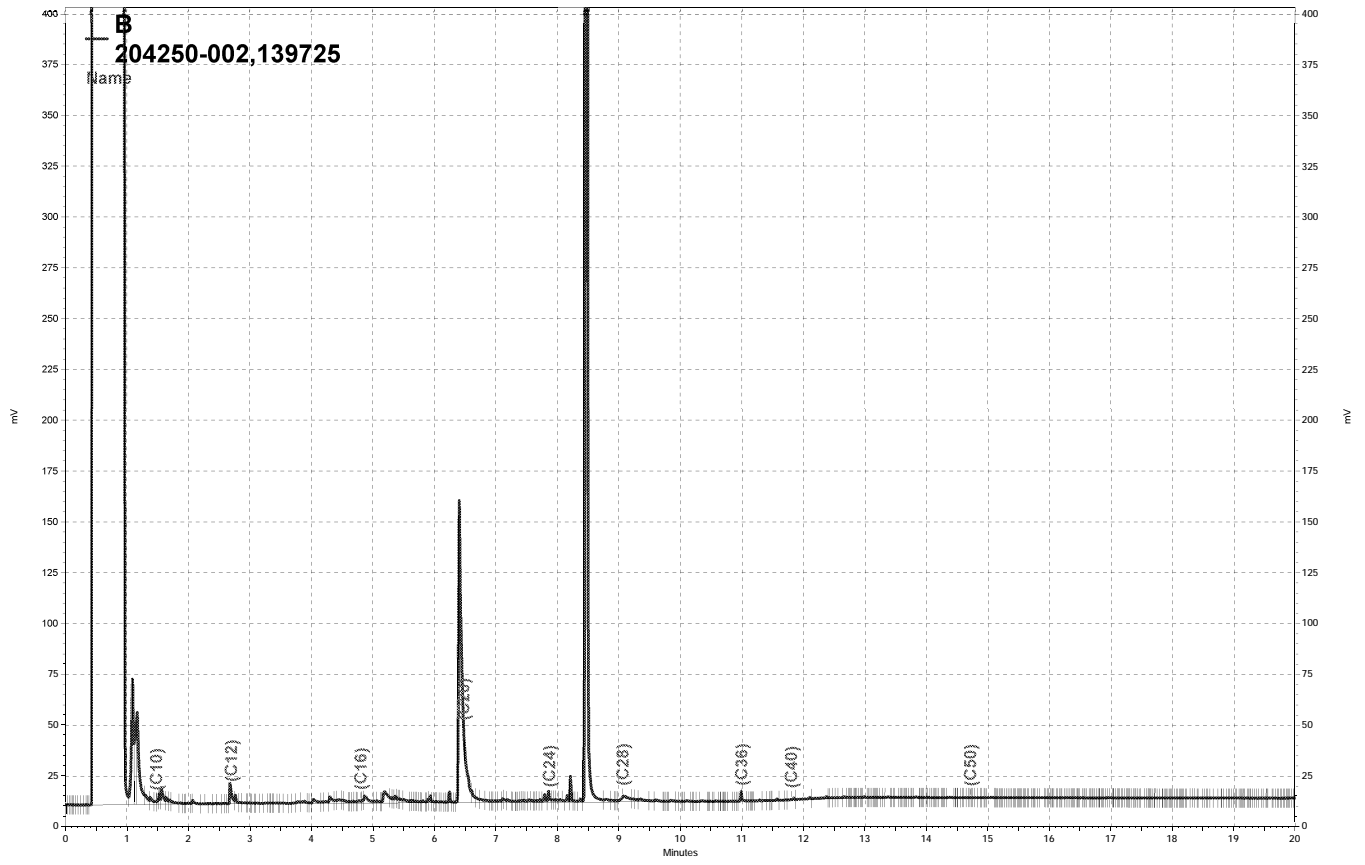
Surrogate	%REC	Limits
Hexacosane	97	63-130

Type: BSD Lab ID: QC448374

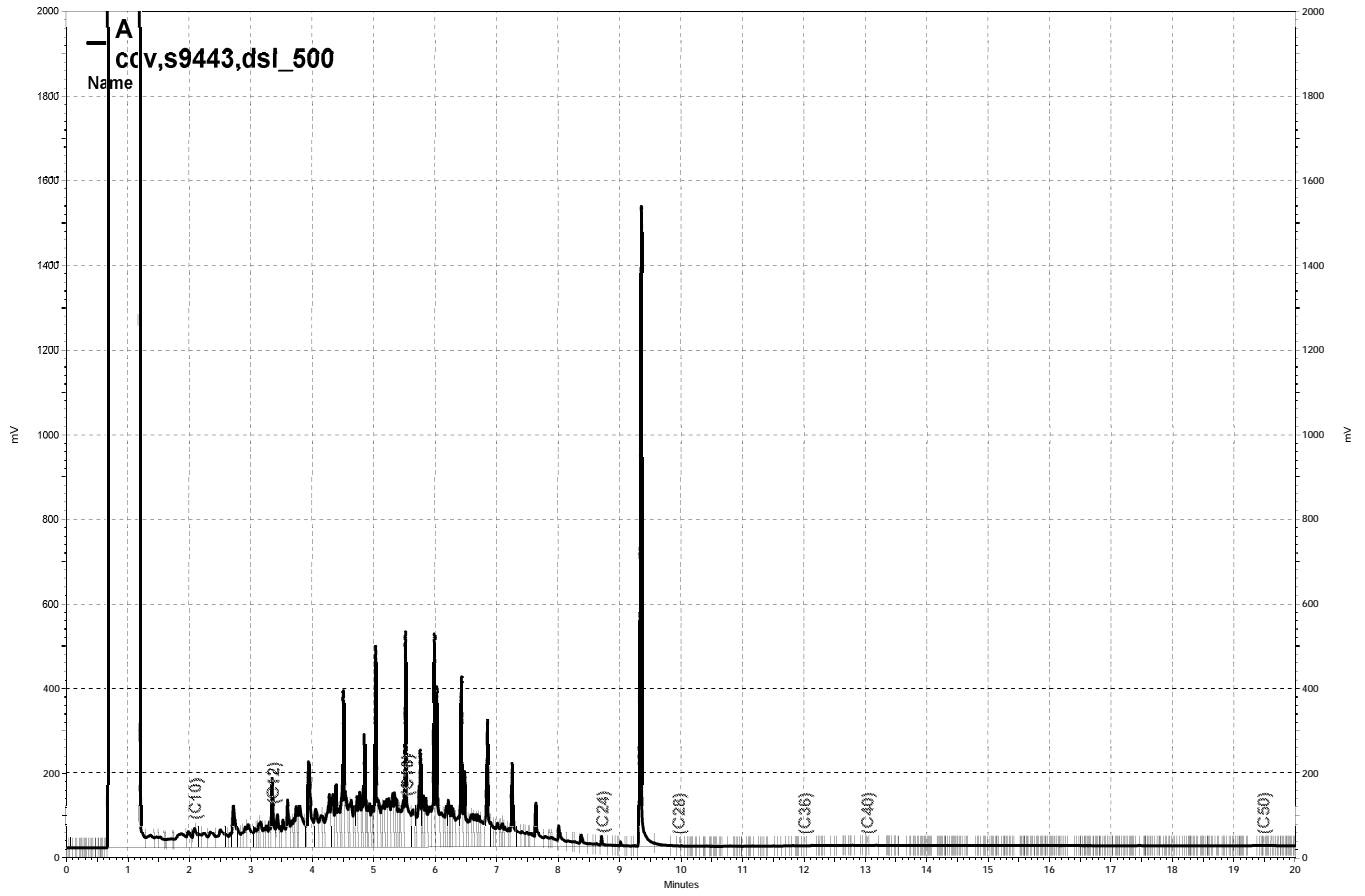
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	1,535	61	61-120	13	29

Surrogate	%REC	Limits
Hexacosane	82	63-130

RPD= Relative Percent Difference



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\181b028, B



— \\Lims\gdrive\ezchrom\Projects\GC11A\Data\181a035, A

Gasoline by GC/MS			
Lab #:	204250	Location:	5565 Tesla Rd, Livermore
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2841	Analysis:	EPA 8260B
Field ID:	OFF-SITE SUPPLY WELL	Batch#:	139926
Lab ID:	204250-001	Sampled:	06/24/08
Matrix:	Water	Received:	06/25/08
Units:	ug/L	Analyzed:	07/02/08
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Ethanol	ND	1,000
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	204250	Location:	5565 Tesla Rd, Livermore
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2841	Analysis:	EPA 8260B
Field ID:	OFF-SITE SUPPLY WELL	Batch#:	139926
Lab ID:	204250-001	Sampled:	06/24/08
Matrix:	Water	Received:	06/25/08
Units:	ug/L	Analyzed:	07/02/08
Diln Fac:	1.000		

Analyte	Result	RL
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5
Tetrahydrofuran	ND	100

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-123
1,2-Dichloroethane-d4	98	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	204250	Location:	5565 Tesla Rd, Livermore
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2841	Analysis:	EPA 8260B
Field ID:	ON-SITE SUPPLY WELL	Batch#:	139926
Lab ID:	204250-002	Sampled:	06/24/08
Matrix:	Water	Received:	06/25/08
Units:	ug/L	Analyzed:	07/03/08
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Ethanol	ND	1,000
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	204250	Location:	5565 Tesla Rd, Livermore
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2841	Analysis:	EPA 8260B
Field ID:	ON-SITE SUPPLY WELL	Batch#:	139926
Lab ID:	204250-002	Sampled:	06/24/08
Matrix:	Water	Received:	06/25/08
Units:	ug/L	Analyzed:	07/03/08
Diln Fac:	1.000		

Analyte	Result	RL
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5
Tetrahydrofuran	ND	100

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-123
1,2-Dichloroethane-d4	99	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	100	80-120

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	204250	Location:	5565 Tesla Rd, Livermore
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2841	Analysis:	EPA 8260B
Field ID:	MWS-1	Batch#:	139926
Lab ID:	204250-003	Sampled:	06/24/08
Matrix:	Water	Received:	06/25/08
Units:	ug/L	Analyzed:	07/03/08
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Ethanol	ND	1,000
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	204250	Location:	5565 Tesla Rd, Livermore
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2841	Analysis:	EPA 8260B
Field ID:	MWS-1	Batch#:	139926
Lab ID:	204250-003	Sampled:	06/24/08
Matrix:	Water	Received:	06/25/08
Units:	ug/L	Analyzed:	07/03/08
Diln Fac:	1.000		

Analyte	Result	RL
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5
Tetrahydrofuran	ND	100

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-123
1,2-Dichloroethane-d4	99	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	204250	Location:	5565 Tesla Rd, Livermore
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2841	Analysis:	EPA 8260B
Field ID:	MWS-2	Batch#:	139926
Lab ID:	204250-004	Sampled:	06/24/08
Matrix:	Water	Received:	06/25/08
Units:	ug/L	Analyzed:	07/03/08
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Ethanol	ND	1,000
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	204250	Location:	5565 Tesla Rd, Livermore
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2841	Analysis:	EPA 8260B
Field ID:	MWS-2	Batch#:	139926
Lab ID:	204250-004	Sampled:	06/24/08
Matrix:	Water	Received:	06/25/08
Units:	ug/L	Analyzed:	07/03/08
Diln Fac:	1.000		

Analyte	Result	RL
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5
Tetrahydrofuran	ND	100

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-123
1,2-Dichloroethane-d4	100	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	100	80-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/MS			
Lab #:	204250	Location:	5565 Tesla Rd, Livermore
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2841	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC449156	Batch#:	139926
Matrix:	Water	Analyzed:	07/02/08
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Ethanol	ND	1,000
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/MS			
Lab #:	204250	Location:	5565 Tesla Rd, Livermore
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2841	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC449156	Batch#:	139926
Matrix:	Water	Analyzed:	07/02/08
Units:	ug/L		

Analyte	Result	RL
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5
Tetrahydrofuran	ND	100

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-123
1,2-Dichloroethane-d4	97	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/MS			
Lab #:	204250	Location:	5565 Tesla Rd, Livermore
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2841	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	139926
Units:	ug/L	Analyzed:	07/02/08
Diln Fac:	1.000		

Type: BS Lab ID: QC449157

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	93.84	94	55-158
Isopropyl Ether (DIPE)	20.00	18.19	91	63-122
Ethyl tert-Butyl Ether (ETBE)	20.00	19.18	96	62-133
Methyl tert-Amyl Ether (TAME)	20.00	19.88	99	69-137
1,1-Dichloroethene	20.00	19.94	100	77-132
Benzene	20.00	19.22	96	80-120
Trichloroethene	20.00	18.43	92	80-120
Toluene	20.00	19.90	99	80-121
Chlorobenzene	20.00	19.69	98	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-123
1,2-Dichloroethane-d4	94	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	90	80-120

Type: BSD Lab ID: QC449158

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	90.90	91	55-158	3	20
Isopropyl Ether (DIPE)	20.00	17.55	88	63-122	4	20
Ethyl tert-Butyl Ether (ETBE)	20.00	18.71	94	62-133	3	20
Methyl tert-Amyl Ether (TAME)	20.00	19.19	96	69-137	4	20
1,1-Dichloroethene	20.00	18.43	92	77-132	8	20
Benzene	20.00	17.87	89	80-120	7	20
Trichloroethene	20.00	16.77	84	80-120	9	20
Toluene	20.00	18.18	91	80-121	9	20
Chlorobenzene	20.00	18.64	93	80-120	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-123
1,2-Dichloroethane-d4	93	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	91	80-120

RPD= Relative Percent Difference

California Title 26 Metals

Lab #: 204250	Project#: 2841
Client: SOMA Environmental Engineering Inc.	Location: 5565 Tesla Rd, Livermore
Field ID: OFF-SITE SUPPLY WELL	Diln Fac: 1.000
Lab ID: 204250-001	Sampled: 06/24/08
Matrix: Water	Received: 06/25/08
Units: ug/L	Prepared: 06/26/08

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	10	139703	06/27/08	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Barium	150	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	139703	06/27/08	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Chromium	9.7	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Copper	37	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Lead	8.1	3.0	139703	06/27/08	EPA 3010A	EPA 6010B
Mercury	ND	0.20	139713	06/26/08	METHOD	EPA 7470A
Molybdenum	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Nickel	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Selenium	ND	10	139703	06/27/08	EPA 3010A	EPA 6010B
Silver	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Thallium	ND	10	139703	06/27/08	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Zinc	910	20	139703	06/27/08	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

California Title 26 Metals

Lab #: 204250	Project#: 2841
Client: SOMA Environmental Engineering Inc.	Location: 5565 Tesla Rd, Livermore
Field ID: ON-SITE SUPPLY WELL	Diln Fac: 1.000
Lab ID: 204250-002	Sampled: 06/24/08
Matrix: Water	Received: 06/25/08
Units: ug/L	Prepared: 06/26/08

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	10	139703	06/27/08	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Barium	130	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	139703	06/27/08	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Chromium	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Copper	6.6	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Lead	ND	3.0	139703	06/27/08	EPA 3010A	EPA 6010B
Mercury	ND	0.20	139713	06/26/08	METHOD	EPA 7470A
Molybdenum	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Nickel	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Selenium	ND	10	139703	06/27/08	EPA 3010A	EPA 6010B
Silver	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Thallium	ND	10	139703	06/27/08	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Zinc	ND	20	139703	06/27/08	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

California Title 26 Metals

Lab #: 204250	Project#: 2841
Client: SOMA Environmental Engineering Inc.	Location: 5565 Tesla Rd, Livermore
Field ID: MWS-1	Diln Fac: 1.000
Lab ID: 204250-003	Sampled: 06/24/08
Matrix: Water	Received: 06/25/08
Units: ug/L	Prepared: 06/26/08

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	10	139703	06/27/08	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Barium	310	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	139703	06/27/08	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Chromium	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Copper	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Lead	5.9	3.0	139703	06/27/08	EPA 3010A	EPA 6010B
Mercury	ND	0.20	139713	06/26/08	METHOD	EPA 7470A
Molybdenum	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Nickel	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Selenium	ND	10	139703	06/27/08	EPA 3010A	EPA 6010B
Silver	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Thallium	ND	10	139703	06/27/08	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Zinc	33	20	139703	06/27/08	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

California Title 26 Metals

Lab #: 204250	Project#: 2841
Client: SOMA Environmental Engineering Inc.	Location: 5565 Tesla Rd, Livermore
Field ID: MWS-2	Diln Fac: 1.000
Lab ID: 204250-004	Sampled: 06/24/08
Matrix: Water	Received: 06/25/08
Units: ug/L	Prepared: 06/26/08

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	10	139703	06/27/08	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Barium	230	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	139703	06/27/08	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Chromium	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Copper	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Lead	ND	3.0	139703	06/27/08	EPA 3010A	EPA 6010B
Mercury	ND	0.20	139713	06/26/08	METHOD	EPA 7470A
Molybdenum	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Nickel	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Selenium	ND	10	139703	06/27/08	EPA 3010A	EPA 6010B
Silver	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Thallium	ND	10	139703	06/27/08	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	139703	06/27/08	EPA 3010A	EPA 6010B
Zinc	ND	20	139703	06/27/08	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

California Title 26 Metals			
Lab #:	204250	Location:	5565 Tesla Rd, Livermore
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3010A
Project#:	2841	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC448278	Batch#:	139703
Matrix:	Water	Prepared:	06/26/08
Units:	ug/L	Analyzed:	06/27/08

Analyte	Result	RL
Antimony	ND	10
Arsenic	ND	5.0
Barium	ND	5.0
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	5.0
Cobalt	ND	5.0
Copper	ND	5.0
Lead	ND	3.0
Molybdenum	ND	5.0
Nickel	ND	5.0
Selenium	ND	10
Silver	ND	5.0
Thallium	ND	10
Vanadium	ND	5.0
Zinc	ND	20

ND= Not Detected

RL= Reporting Limit

Batch QC Report

California Title 26 Metals			
Lab #:	204250	Location:	5565 Tesla Rd, Livermore
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3010A
Project#:	2841	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	139703
Units:	ug/L	Prepared:	06/26/08
Diln Fac:	1.000	Analyzed:	06/27/08

Type: BS Lab ID: QC448279

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	492.8	99	80-120
Arsenic	100.0	104.5	105	80-120
Barium	2,000	1,919	96	80-120
Beryllium	50.00	53.71	107	80-120
Cadmium	50.00	49.10	98	80-120
Chromium	200.0	191.6	96	80-120
Cobalt	500.0	450.7	90	80-120
Copper	250.0	228.7	91	80-120
Lead	100.0	99.68	100	80-120
Molybdenum	400.0	407.6	102	80-120
Nickel	500.0	472.3	94	80-120
Selenium	100.0	96.23	96	80-120
Silver	50.00	47.78	96	80-120
Thallium	100.0	96.87	97	80-120
Vanadium	500.0	484.7	97	80-120
Zinc	500.0	480.0	96	80-120

Type: BSD Lab ID: QC448280

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	503.5	101	80-120	2	20
Arsenic	100.0	109.0	109	80-120	4	20
Barium	2,000	1,955	98	80-120	2	20
Beryllium	50.00	54.76	110	80-120	2	20
Cadmium	50.00	50.15	100	80-120	2	20
Chromium	200.0	195.1	98	80-120	2	20
Cobalt	500.0	461.3	92	80-120	2	20
Copper	250.0	234.3	94	80-120	2	20
Lead	100.0	102.4	102	80-120	3	20
Molybdenum	400.0	418.3	105	80-120	3	20
Nickel	500.0	479.3	96	80-120	1	20
Selenium	100.0	99.71	100	80-120	4	20
Silver	50.00	48.79	98	80-120	2	20
Thallium	100.0	101.3	101	80-120	4	20
Vanadium	500.0	494.2	99	80-120	2	20
Zinc	500.0	494.1	99	80-120	3	20

RPD= Relative Percent Difference

Batch QC Report

California Title 26 Metals			
Lab #:	204250	Location:	5565 Tesla Rd, Livermore
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3010A
Project#:	2841	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	139703
MSS Lab ID:	204240-004	Sampled:	06/25/08
Matrix:	Water	Received:	06/25/08
Units:	ug/L	Prepared:	06/26/08
Diln Fac:	1.000	Analyzed:	06/27/08

Type: MS Lab ID: QC448281

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<2.749	500.0	497.2	99	78-120
Arsenic	<0.7600	100.0	104.2	104	80-126
Barium	296.6	2,000	2,188	95	80-120
Beryllium	0.2261	50.00	53.30	106	80-120
Cadmium	<1.469	50.00	46.58	93	80-120
Chromium	<0.4838	200.0	186.6	93	80-120
Cobalt	<0.5933	500.0	421.3	84	80-120
Copper	<0.9723	250.0	225.9	90	80-120
Lead	3.608	100.0	96.64	93	77-120
Molybdenum	1.736	400.0	401.2	100	80-120
Nickel	<1.497	500.0	435.0	87	79-120
Selenium	3.963	100.0	97.33	93	80-125
Silver	<1.605	50.00	47.00	94	72-120
Thallium	3.573	100.0	95.79	92	77-120
Vanadium	<0.9127	500.0	479.2	96	80-120
Zinc	<4.210	500.0	465.7	93	78-122

Type: MSD Lab ID: QC448282

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	494.0	99	78-120	1	20
Arsenic	100.0	104.4	104	80-126	0	20
Barium	2,000	2,197	95	80-120	0	20
Beryllium	50.00	53.27	106	80-120	0	20
Cadmium	50.00	46.36	93	80-120	0	20
Chromium	200.0	186.9	93	80-120	0	20
Cobalt	500.0	418.9	84	80-120	1	20
Copper	250.0	224.9	90	80-120	0	20
Lead	100.0	96.64	93	77-120	0	20
Molybdenum	400.0	399.5	99	80-120	0	20
Nickel	500.0	436.1	87	79-120	0	20
Selenium	100.0	98.55	95	80-125	1	20
Silver	50.00	47.09	94	72-120	0	20
Thallium	100.0	95.78	92	77-120	0	20
Vanadium	500.0	479.1	96	80-120	0	20
Zinc	500.0	463.3	93	78-122	1	20

RPD= Relative Percent Difference

Batch QC Report

California Title 26 Metals			
Lab #:	204250	Location:	5565 Tesla Rd, Livermore
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2841	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	139713
Lab ID:	QC448316	Prepared:	06/26/08
Matrix:	Water	Analyzed:	06/26/08
Units:	ug/L		

Result	RL
ND	0.20

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

California Title 26 Metals			
Lab #:	204250	Location:	5565 Tesla Rd, Livermore
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2841	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	139713
Matrix:	Water	Prepared:	06/26/08
Units:	ug/L	Analyzed:	06/26/08
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC448317	5.000	4.500	90	80-120		
BSD	QC448318	5.000	4.700	94	80-120	4	20

Batch QC Report

California Title 26 Metals			
Lab #:	204250	Location:	5565 Tesla Rd, Livermore
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2841	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	139713
Field ID:	ZZZZZZZZZZ	Sampled:	06/25/08
MSS Lab ID:	204233-001	Received:	06/25/08
Matrix:	Water	Prepared:	06/26/08
Units:	ug/L	Analyzed:	06/26/08
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC448323	<0.04502	5.000	4.970	99	77-126		
MSD	QC448324		5.000	4.780	96	77-126	4	20

RPD= Relative Percent Difference