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January 26, 2005

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Oakland, CA 94612  
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QUARTERLY GROUNDWATER MONITORING REPORT  
DECEMBER 2004 GROUNDWATER SAMPLING

(O.N.E.)

at

Kozel Property  
1001 42nd Street  
Oakland, California

Submitted by:  
AQUA SCIENCE ENGINEERS, INC.  
208 W. El Pintado  
Danville, CA 94526  
(925) 820-9391

## **1.0 INTRODUCTION**

This report presents the methods and findings of Aqua Science Engineers, Inc. (ASE's) quarterly groundwater monitoring at the Kozel Property located at 1001 42<sup>nd</sup> Street in Oakland, California (Figures 1 and 2). Part of the site is also located in Emeryville, California as the city limit runs through the subject property.

## **2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT**

On December 16, 2004, ASE measured the depth to water in monitoring wells MW-B1, MW-B2, MW-B3, MW-B4 and BES-1 using an electric water level sounder. The surface of the groundwater was also checked for the presence of free-floating hydrocarbons or sheen using an interface probe and product thickness bailer. Monitoring wells MW-B1 and BES-1 each contained 0.02 feet of free-floating hydrocarbons. Groundwater elevation data is presented in Table One. Recent monitoring events have been scheduled to coincide with sampling conducted by Clayton Environmental at the adjacent Former Dunne Paints site; however, Clayton has recommended case closer for the site and therefore has discontinued groundwater monitoring. Historical elevation data from Clayton Environmental for Former Dunne Paints is also included in the Table One.

A groundwater elevation (potentiometric surface) contour map is presented as Figure 2. The groundwater flow direction at the site is generally to the southwest with an approximate gradient of 0.03 feet/foot near the property boundary and 0.01 feet/foot beneath 41<sup>st</sup> Street, which is consistent with previous findings.

## **3.0 MONITORING WELL SAMPLING**

On December 16, 2004, ASE collected groundwater samples from monitoring wells MW-B2, MW-B3, and MW-B4 for analysis. Monitoring wells MW-B1 and BES-1 were not sampled due to the presence of free-floating hydrocarbons.

Prior to sampling, the wells were purged of three well casing volumes of groundwater using disposable polyethylene bailers. The pH, temperature, and conductivity of the purge water were monitored during evacuation, and samples were not collected until these parameters stabilized. Samples were collected from each well using the same bailers. The groundwater samples to be analyzed for volatile compounds were decanted from the

bottom of the bailers using low flow emptying devices into 40-ml volatile organic analysis (VOA) vials, preserved with hydrochloric acid, and sealed without headspace. The remaining samples were decanted into 1-liter amber glass bottles. All of the samples were labeled and stored on ice for transport to Severn Trent Laboratories (STL San Francisco) of Pleasanton, California (CA DHS ELAP# 2496) under appropriate chain of custody documentation.

Well sampling purge water was contained in a sealed and labeled 55-gallon steel drum for temporary storage until off-site disposal can be arranged. See Appendix A for copies of the well sampling field logs.

#### **4.0 ANALYTICAL RESULTS FOR GROUNDWATER**

All groundwater samples were analyzed by STL San Francisco for total petroleum hydrocarbons as mineral spirits (TPH-MS) by modified EPA Method 8015M with silica gel cleanup, and volatile organic compounds (VOCs) by EPA Method 8260B. The analytical results are tabulated in Table Two, and a copy of the certified analytical report and chain of custody form are included in Appendix B.

The groundwater samples collected from monitoring wells MW-B2 and MW-B4 contained 480 parts per billion (ppb) and 450 ppb TPH-MS, respectively. No TPH-MS was detected in groundwater sample collected from MW-B3.

The groundwater samples collected from monitoring wells MW-B2 and MW-B3 contained 1.8 ppb and 4.6 ppb tert-butylbenzene, respectively. Additionally, MW-B2 contained 1.4 ppb sec-butylbenzene. No other VOCs were detected in any of the groundwater samples analyzed.

#### **5.0 CONCLUSIONS**

Monitoring wells MW-B1 and BES-1 each contained 0.02 feet of free-floating hydrocarbons this quarter, which represents a decrease in thickness for both wells. TPH-MS concentrations in all three sampled monitoring wells remained similar to last those reported during the previous quarter. The observed concentrations of tert-butylbenzene in monitoring wells MW-B2 and MW-B3 and sec-butylbenzene in MW-B2 are likely the result of the lower laboratory method reporting limits applied by STL this quarter. None of the hydrocarbon concentrations in any of the groundwater samples analyzed exceeded California Regional Water Quality

Control Board, San Francisco Bay Region (RWQCB) environmental screening levels (ESLs) for sites where groundwater is not a current or potential source of drinking water.

## **6.0 RECOMMENDATIONS**

ASE recommends continued quarterly groundwater monitoring at the site. The next groundwater monitoring event is scheduled for March 2005. Additionally, ASE has submitted a soil and groundwater assessment report for the site dated January 19, 2005. The report recommends completing the delineation of TPH-MS impacted groundwater, both on and offsite. Then removing the free-phase hydrocarbons, remediating the dissolved TPH-MS concentration in groundwater, and conducting a human-health risk assessment.

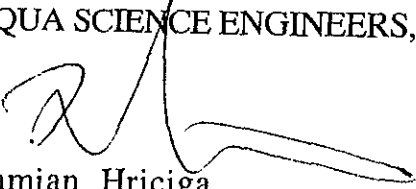
## **7.0 REPORT LIMITATIONS**


The results presented in this report represent conditions at the time of the groundwater sampling, at the specific locations where the samples were collected, and for the specific parameters analyzed by the laboratory. It does not fully characterize the site for contamination resulting from unknown sources, or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of an independent CAL-DHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

Aqua Science Engineers appreciates the opportunity to assist the Edward R. and Elizabeth A. Kozel Charitable Remainder Trust with its environmental needs. Should you have any questions or comments, please feel free to call us at (925) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

  
Damian Hriciga  
Project Geologist

  
Robert E. Kitay, R.G., R.E.A.  
Senior Geologist



Attachments: Figures 1 and 2  
Tables One and Two  
Appendices A and B

cc: Mr. Edward Kozel, Edward R. and Elizabeth A. Kozel Charitable Remainder Trust, 20 Oak Knoll Drive, Healdsburg, CA 95448-3108

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Mr. Kyle Fisher, Friedmann Goldberg, LLP, 420 Aviation Boulevard, Suite 201, Santa Rosa, CA, 95403

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Mr. Barney Chan, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502

Ms. Betty Graham, California Regional Water Quality Control Board, San Francisco Bay Region, 1515 Clay Street, Suite 1400, Oakland, CA 94612

## **TABLES**

**TABLE ONE**  
 Groundwater Elevation Data  
 Kozel Property  
 1001 42nd Street, Oakland, CA 94608

Well ID	Date of Measurement	Top of Casing Elevation (msl)	Depth to Water (feet)	Depth to Product (feet)	Groundwater Elevation (msl)
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Former ONE Facility

MW-B1	6/10/93	49.92	6.14		43.78
	7/8/93		6.64		43.28
	8/24/93		6.69		43.23
	9/29/93		8.46		41.46
	10/20/93		6.69		43.23
	11/23/93		6.65		43.27
	12/10/98		---		---
	12/14/99		---		---
	6/15/04		6.00	5.85	44.04*
	9/14/04		6.18	6.14	43.77*
	12/16/04		5.14	5.12	44.80*
MW-B2	6/10/93	50.77	6.75		44.02
	7/8/93		6.91		43.86
	8/24/93		7.22		43.55
	9/29/93		8.80		41.97
	10/20/93		7.25		43.52
	11/23/93		7.26		43.51
	12/10/98		6.43		44.34
	12/14/99		6.50		44.27
	6/15/04		6.40		44.37
	9/14/04		6.56		44.21
	12/16/04		5.88		44.89
MW-B3	6/10/93	49.02	6.85		42.17
	7/8/93		6.05		42.97
	8/24/93		6.21		42.81
	9/29/93		7.74		41.28
	10/20/93		6.24		42.78
	11/23/93		6.18		42.84
	12/10/98		4.94		44.08
	12/14/99		5.08		43.94
	6/15/04		5.43		43.59
	9/14/04		5.63		43.39
	12/16/04		4.67		44.35

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 Kozel Property  
 1001 42nd Street, Oakland, CA 94608

Well ID	Date of Measurement	Top of Casing Elevation (msl)	Depth to Water (feet)	Depth to Product (feet)	Groundwater Elevation (msl)
MW-B4	6/10/93	49.74	6.00		43.74
	7/8/93		6.14		43.60
	8/24/93		6.34		43.40
	9/29/93		7.97		41.77
	10/20/93		6.11		43.63
	11/23/93		6.38		43.36
	12/10/98		6.20		43.54
	12/14/99		6.05		43.69
	6/15/04		5.58	sheen	44.16
	9/14/04		5.95		43.79
	12/16/04		<b>5.24</b>		<b>44.50</b>
MW-LD4	6/10/93	51.51	6.98		44.53
	7/8/93		7.18		44.33
	8/24/93		7.31		44.20
	9/29/93		7.43		44.08
	10/20/93		7.37		44.14
	11/23/93		7.32		44.19
	12/10/98		6.14		45.37
	12/14/99		6.52		44.99
	6/15/04			Well Abandoned	
BES-1	12/10/98	Not surveyed	10.18		---
	12/14/99		10.98		---
	6/15/04		9.95	9.94	---
	9/14/04		10.28	10.21	---
	12/16/04		<b>54.27</b>	<b>7.94</b>	<b>7.92</b>



**TABLE ONE**  
 Groundwater Elevation Data  
 Kozel Property  
 1001 42nd Street, Oakland, CA 94608

Well ID	Date of Measurement	Top of Casing Elevation (msl)	Depth to Water (feet)	Depth to Product (feet)	Groundwater Elevation (msl)
<u>Former Dunne Paints</u>					
MW-D1	6/10/93	50.56	5.29		45.27
	7/8/93		5.67		44.89
	8/24/93		6.01		44.55
	9/29/93		7.69		42.87
	10/20/93		6.20		44.36
	11/23/93		6.08		44.48
	12/14/99	49.32	4.60		45.96
	11/12/03		5.98		43.34
	3/12/03		5.97		43.35
	6/15/04		6.07		43.25
9/14/04		5.86		43.46	
MW-D2	6/10/93	50.56	6.25		44.31
	7/8/93		6.37		44.19
	8/24/93		6.47		44.09
	9/29/93		7.96		42.60
	10/20/93		6.48		44.08
	11/23/93		6.44		44.12
	12/10/98	50.52	5.68		44.88
	12/14/99		5.80		44.76
	11/12/03		9.52		41.00
	3/12/03		8.94		41.58
6/15/04		5.89		44.63	
9/14/04		6.01		44.51	
CW-1	11/12/03	47.55	8.93		38.62
	3/12/03		6.85		40.70
	6/15/04		7.85		39.70
	9/14/04		8.38		39.17
CW-2	11/12/03	47.59	9.25		38.34
	3/12/03		7.22		40.37
	6/15/04		8.40		39.19
	9/14/04		8.98		38.61

**TABLE ONE**  
 Groundwater Elevation Data  
 Kozel Property  
 1001 42nd Street, Oakland, CA 94608

Well ID	Date of Measurement	Top of Casing Elevation (msl)	Depth to Water (feet)	Depth to Product (feet)	Groundwater Elevation (msl)
<b>CW-3</b>	11/12/03	46.39	8.30		38.09
	3/12/03		6.04		40.35
	6/15/04		7.74		38.65
	9/14/04		8.65		37.74

**NOTES:**

\* = Groundwater elevation adjusted for free-floating hydrocarbons by the equation:  
 Adjusted groundwater elevation = Top of of casing elevation - depth to groundwater +  
 (0.8 x free-floating hydrocarbon thickness)

Current data is in bold.

**TABLE TWO**  
**Summary of Analytical Results for GROUNDWATER Samples**  
**Kozel Property (Former O.N.E. Color Communications)**  
**And Former Dunne Quality Paints**  
**1001 42nd Street, Oakland, CA 94608**  
**All results are in parts per billion (ppb)**

Well ID & Dates Sampled	Mineral Spirits	Other TPH (As Noted)	Toluene	Ethyl benzene	Total Xylenes	tert-Butyl benzene	sec-Butyl benzene	n-Butyl benzene	Vinyl chloride	1,1-Dichloro ethane	trans-1,2- Dichloro ethene	cis-1,2- Dichloro ethene	Other VOCs
<b>Former O.N.E.</b>													
<b>Color Communications</b>													
<b>MW-B1</b>													
9/30/1991	-	< 50*; 18,000*; 29,000*	6	250	980	ND	ND	ND	ND	ND	ND	ND	5 (benzene)
6/10/1993	-	27,000*; 57,000*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/29/1993	43,000	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5/28/2003	26,000	1,100,000*; 37,000*	< 2.5	< 2.5	< 2.5	23	< 2.5	< 2.5	< 2.5	< 2.5	-	< 2.5	< 2.5 - < 25
6/15/2004						Not Sampled Due to Free Product							
9/14/2004						Not Sampled Due to Free Product							
12/16/2004						Not Sampled Due to Free Product							
<b>MW-B2</b>													
6/10/1993	-	3,800*; 1,400*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/29/1993	290,000	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/10/1998	150,000	< 1,000*; ND*; 2,400*; < 1,000*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/14/1999	630	-	-	-	-	-	-	-	-	-	-	-	-
5/28/2003	1,100	22,000*; 1,600*	< 0.5	< 0.5	< 0.5	3.2	3.2	< 0.5	< 0.5	< 0.5	-	< 0.5	< 0.5 - < 5
6/15/2004	3,000	-	< 5.0	< 5.0	< 10	< 10	< 10	33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 - < 500
9/14/2004	410	-	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 - < 500
12/16/2004	480	-	< 0.5	< 0.5	< 1.0	1.8	1.4	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 - < 50
<b>MW-B3</b>													
6/10/1993	-	1,700*; 510*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/29/1993	2,400	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/10/1998	120	ND*; ND*; 830*; ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/14/1999	< 50	-	-	-	-	-	-	-	-	-	-	-	-
5/28/2003	ND	ND*; ND*	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	< 0.5 - < 5
6/15/2004	< 50	-	< 0.5	< 0.5	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 - < 50
9/14/2004	< 50	-	< 0.5	< 0.5	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 - < 50
12/16/2004	< 50	-	< 0.5	< 0.5	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 - < 50
<b>MW-B4</b>													
6/10/1993	-	36,000*; 36,000*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/29/1993	1,400	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/10/1998	7,500	1,000*; ND*; 2,700*; ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/14/1999	5,100	-	-	-	-	-	-	-	-	-	-	-	-
5/28/2003	990	7,000*; 14,000*	< 0.5	< 0.5	< 0.5	2.8	< 0.5	< 0.5	1.8	< 0.5	-	< 0.5	< 0.5 - < 5
6/15/2004	1,300	-	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 - < 500
9/14/2004	400	-	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 - < 500
12/16/2004	450	-	< 1.0	< 1.0	< 2.0	4.6	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 - < 100



**TABLE TWO**  
**Summary of Analytical Results for GROUNDWATER Samples**  
**Kozel Property (Former O.N.E. Color Communications)**  
**And Former Dunne Quality Paints**  
**100142nd Street, Oakland, CA 94608**  
**All results are in parts per billion (ppb)**

Well ID & Dates Sampled	Mineral Spirits	Other TPH (As Noted)	Toluene	Ethyl benzene	Total Xylenes	tert-Butyl benzene	sec-Butyl benzene	n-Butyl benzene	Vinyl chloride	1,1-Dichloro ethane	trans-1,2-Dichloro ethene	cis-1,2-Dichloro ethene	Other VOCs
<b>MW-D2</b>													
8/26/1988	1,600	-	-	-	-	-	-	-	-	-	-	-	-
1/18/1989	<1,000	-	6.3	ND	12	-	-	-	-	-	-	-	-
4/24/1989	<1,000	-	ND	ND	7.7	-	-	-	-	-	-	-	-
2/21/1990	300	-	ND	0.3	1.5	-	-	-	-	-	-	-	-
6/10/1992	76	ND*, ND*	ND	ND	ND	-	-	-	-	-	-	-	-
6/10/1993	-	9,100*, 6,200*	ND	ND	ND	-	-	-	-	-	-	-	-
9/24/1993	<50	ND*, ND*	ND	ND	ND	-	-	-	-	-	-	-	-
9/29/1993	220	-	ND	ND	ND	-	-	-	-	-	-	-	-
12/10/1998	180	ND*, ND*, 95*, ND*	ND	ND	ND	-	-	-	-	-	-	-	-
12/14/1999	100	-	-	-	-	-	-	-	-	-	-	-	-
11/12/2003	1,400	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<0.5 - <50
3/12/2004	330	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<0.5 - <50
6/15/2004	<50	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<0.5 - <50
9/14/2004	<50	-	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 - <50
<b>CW-1</b>													
11/12/2003	85	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<0.5 - <50
3/12/2004	<50	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<0.5 - <50
6/15/2004	<50	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<0.5 - <50
9/14/2004	<50	-	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 - <50
<b>CW-2</b>													
11/12/2003	<50	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<0.5 - <50
3/12/2004	<50	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<0.5 - <50
6/15/2004	<50	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<0.5 - <50
9/14/2004	<50	-	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 - <50
<b>CW-3</b>													
11/12/2003	<50	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	51(TCE)
3/12/2004	<50	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<0.5 - <50
6/17/2004	<50	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<0.5 - <50
9/14/2004	<50	-	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 - <50
ESL	NE	VARIES	130	290	15	NE	NE	NE	40	47	590	590	VARIES

**Notes:**

Most recent concentrations are in Bold.

Non-detectable concentrations noted by the less than sign (<) followed by the laboratory reporting limit or "ND"

NA indicates the data is not available

"-" indicates not tested

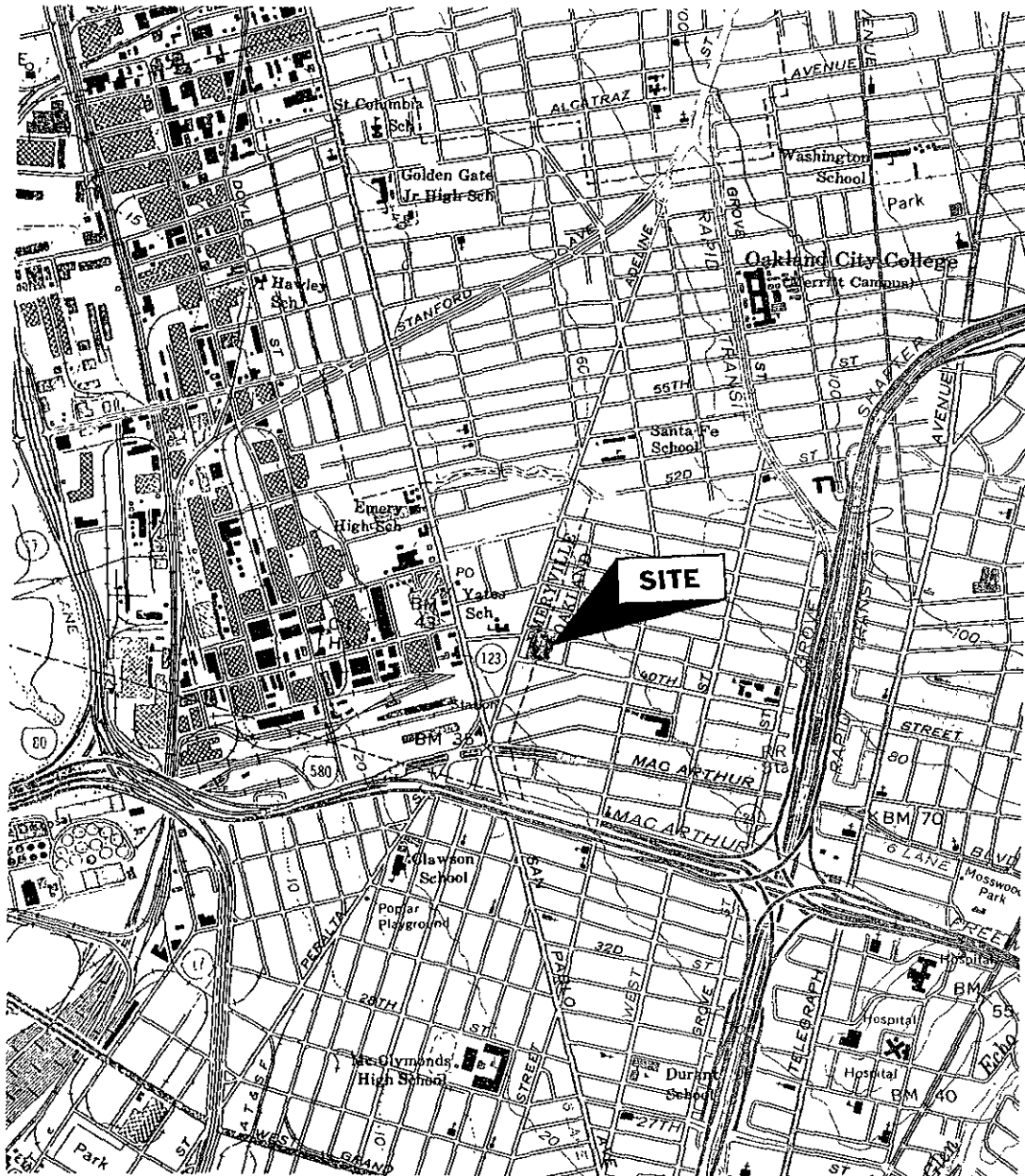
\* = TPH-d, <sup>v</sup> = TEPH (non-diesel), <sup>g</sup> = TPH-g, <sup>h</sup> = TPPH (non-gasoline), <sup>k</sup> = Kerosene

<sup>g</sup> indicates a grab sample.

ESL = Environmental screening levels presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (July 2003)" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region

NE Indicates an ESL has not been established

## **FIGURES**



NORTH

## SITE LOCATION MAP

Kozel Property  
 1001 42nd Street  
 Oakland, California

AQUA SCIENCE ENGINEERS, INC.

FIGURE 1



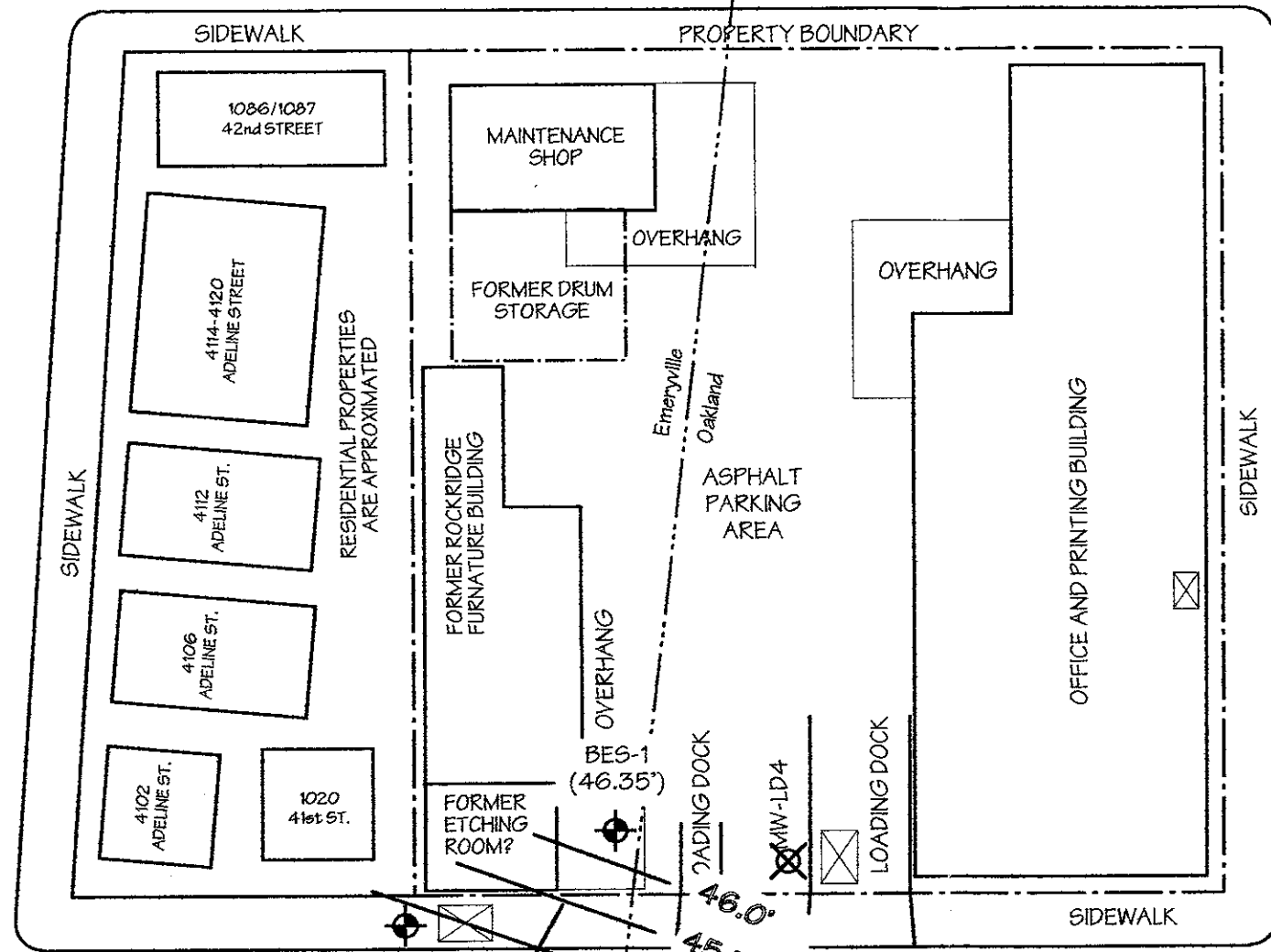
NORTH

SCALE  
1 INCH = 50 FEET








42nd STREET

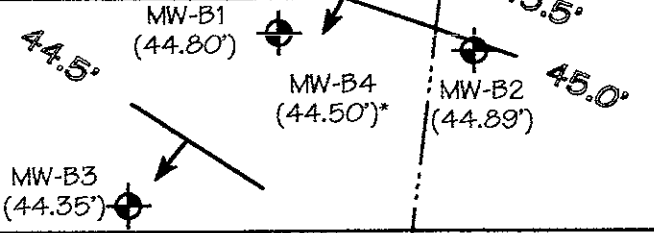
ADELINE STREET

LINDEN STREET



**LEGEND**

-  FORMER UST
-  MW-B2 (44.89') KOZEL PROPERTY MONITORING WELL WITH GROUNDWATER ELEVATION
-  MW-D1 DUNNE PAINTS MONITORING WELL
-  MW-LD4 DESTROYED MONITORING WELL
-  POTENTIOMETRIC SURFACE CONTOUR
-  ESTIMATED GROUNDWATER FLOW DIRECTION
-  ANOMALOUS DATA - NOT USED IN CONTOURING



41st STREET

### POTENTIOMETRIC SURFACE CONTOUR MAP - 12/16/04

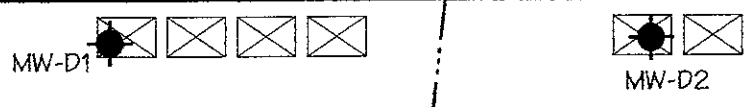
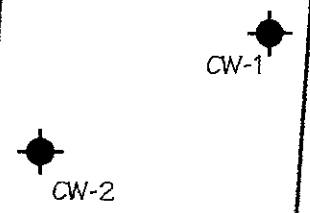
Date: January 25, 2005

Scale: 1" = 50'

Kozel Property  
1001 42nd Street  
Oakland, California

Aqua Science Engineers, Inc.

Figure 2



Emeryville  
Oakland



# **APPENDIX A**

## Well Sampling Field Log



## WELL SAMPLING FIELD LOG

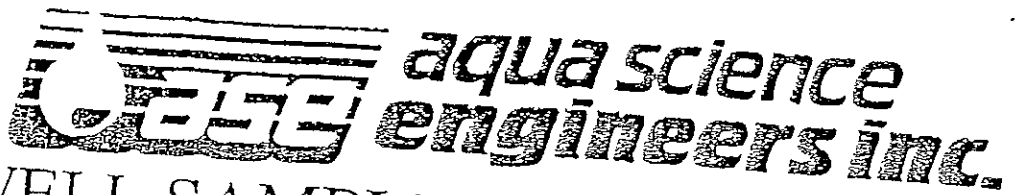
Project Name and Address: \_\_\_\_\_  
 Job #: 3976 Date of sampling: Nov 02  
 Well Name: B-2 Sampled by: PH  
 Total depth of well (feet): 23.5 Well diameter (inches): 2  
 Depth to water before sampling (feet): \_\_\_\_\_  
 Thickness of floating product if any: \_\_\_\_\_  
 Depth of well casing in water (feet): 15.88  
 Number of gallons per well casing volume (gallons): 1762  
 Number of well casing volumes to be removed: 3  
 Req'd volume of groundwater to be purged before sampling (gallons): 85  
 Equipment used to purge the well: BALLO  
 Time Evacuation Began: 1115 Time Evacuation Finished: 1140  
 Approximate volume of groundwater purged: 8.5  
 Did the well go dry?: NO After how many gallons: \_\_\_\_\_  
 Time samples were collected: 1145  
 Depth to water at time of sampling: 5.90  
 Percent recovery at time of sampling: \_\_\_\_\_  
 Samples collected with: BALLO  
 Sample color: \_\_\_\_\_ Odor: ST  
 Description of sediment in sample: \_\_\_\_\_

### CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>0</u>	<u>68.4</u>	<u>6.56</u>	<u>850</u>
<u>2.8</u>	<u>67.3</u>	<u>6.90</u>	<u>824</u>
<u>5.6</u>	<u>68.5</u>	<u>6.88</u>	<u>785</u>
<u>8.5</u>	<u>68.7</u>	<u>6.81</u>	<u>778</u>

### SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>B-2</u>	<u>3</u>	<u>None used</u>	<u>None</u>	<u>Y</u>	
<u>B-2</u>	<u>1</u>	<u>1L AMBER</u>	<u>-</u>	<u>Y</u>	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____



# WELL SAMPLING FIELD LOG

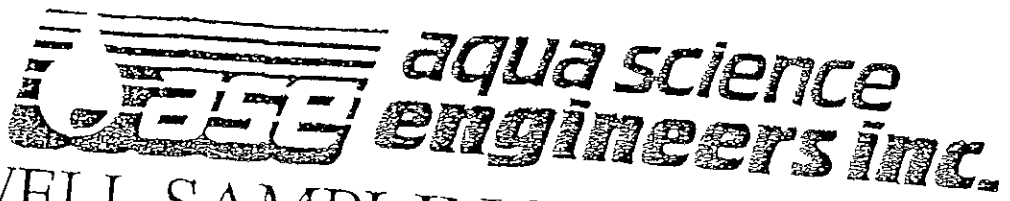
Project Name and Address: Water  
 Job #: 3176 Date of sampling: \_\_\_\_\_  
 Well Name: B-3 Sampled by: \_\_\_\_\_  
 Total depth of well (feet): 24.2 Well diameter (inches): \_\_\_\_\_  
 Depth to water before sampling (feet): \_\_\_\_\_  
 Thickness of floating product if any: \_\_\_\_\_  
 Depth of well casing in water (feet): \_\_\_\_\_  
 Number of gallons per well casing volume (gallons): 1953  
 Number of well casing volumes to be removed: 3  
 Req'd volume of groundwater to be purged before sampling (gallons): 9.4  
 Equipment used to purge the well: BATLER  
 Time Evacuation Began: 1240 Time Evacuation Finished: 1300  
 Approximate volume of groundwater purged: 9.5  
 Did the well go dry?: No After how many gallons: \_\_\_\_\_  
 Time samples were collected: 1305  
 Depth to water at time of sampling: 4.67  
 Percent recovery at time of sampling: \_\_\_\_\_  
 Samples collected with: BATLER  
 Sample color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Description of sediment in sample: \_\_\_\_\_

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
0	68.0	7.00	
3.1	68.3	6.83	509
6.2	67.0	6.80	514
9.4	69.2	6.78	538
			640

## SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	iced?	Analysis
<del>B-3</del>	3	10 ml VOA	HCl	Y	
B-2	1	1 L Amber	-	-	



# WELL SAMPLING FIELD LOG

Project Name and Address: \_\_\_\_\_  
 Job #: 3176 Date of sampling: 12/16/04  
 Well Name: B-4 Sampled by: DM  
 Total depth of well (feet): 22.8 Well diameter (inches): 2  
 Depth to water before sampling (feet): 5.24  
 Thickness of floating product if any: 0  
 Depth of well casing in water (feet): 17.56  
 Number of gallons per well casing volume (gallons): 2.8  
 Number of well casing volumes to be removed: 3  
 Req'd volume of groundwater to be purged before sampling (gallons): 8.5  
 Equipment used to purge the well: BALLER  
 Time Evacuation Began: 1210 Time Evacuation Finished: 1225  
 Approximate volume of groundwater purged: 8.5  
 Did the well go dry?: NO After how many gallons: \_\_\_\_\_  
 Time samples were collected: 1230  
 Depth to water at time of sampling: 5.26  
 Percent recovery at time of sampling: \_\_\_\_\_  
 Samples collected with: BALLER  
 Sample color: \_\_\_\_\_ Odor: ST  
 Description of sediment in sample: \_\_\_\_\_

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>2.8</u>	<u>69.1</u>	<u>6.84</u>	<u>777</u>
<u>5.6</u>	<u>68.6</u>	<u>6.80</u>	<u>776</u>
<u>8.5</u>	<u>67.1</u>	<u>6.86</u>	<u>810</u>
	<u>69.1</u>	<u>6.86</u>	<u>813</u>

## SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>B-4</u>	<u>3</u>	<u>40 mL VOA</u>	<u>ACC</u>	<u>✓</u>	
<u>B-4</u>	<u>1</u>	<u>1 L AMBER</u>	<u>-</u>	<u>-</u>	



# **APPENDIX B**

Certified Analytical Report  
and  
Chain of Custody Documentation

**Aqua Science Engineers, Inc.**

December 29, 2004

208 West El Pintado  
Danville, CA 94526  
Attn.: Damian Hriciga  
Project: Kozel

Dear Mr. Hriciga,

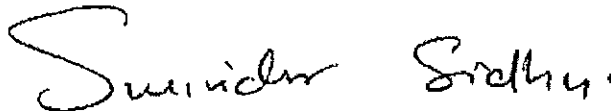
Attached is our report for your samples received on 12/20/2004 18:29  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
02/03/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.

You can also contact me via email. My email address is: [ssidhu@stl-inc.com](mailto:ssidhu@stl-inc.com)

Sincerely,



Surinder Sidhu  
Project Manager



**TEPH w/ Silica Gel Clean-up**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
B-2	12/16/2004 11:45	Water	1
B-3	12/16/2004 13:05	Water	2
B-4	12/16/2004 12:30	Water	3

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/29/2004 16:30

**TEPH w/ Silica Gel Clean-up**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: <b>B-2</b>	Lab ID: 2004-12-0717 - 1
Sampled: 12/16/2004 11:45	Extracted: 12/22/2004 05:30
Matrix: Water	QC Batch#: 2004/12/22-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mineral spirits	480	50	ug/L	1.00	12/28/2004 23:35	Q8
<b>Surrogate(s)</b>						
o-Terphenyl	75.1	60-130	%	1.00	12/28/2004 23:35	

TEPH w/ Silica Gel Clean-up

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: B-3	Lab ID: 2004-12-0717 - 2
Sampled: 12/16/2004 13:05	Extracted: 12/22/2004 05:30
Matrix: Water	QC Batch#: 2004/12/22-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mineral spirits	ND	50	ug/L	1.00	12/29/2004 00:02	
<b>Surrogate(s)</b>						
o-Terphenyl	79.5	60-130	%	1.00	12/29/2004 00:02	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/29/2004 16:30

**TEPH w/ Silica Gel Clean-up**

Aqua Science Engineers, Inc.  
Attn.: Damian Hriciga

208 West El Pintado  
Danville, CA 94526  
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: <b>B-4</b>	Lab ID: 2004-12-0717 - 3
Sampled: 12/16/2004 12:30	Extracted: 12/22/2004 05:30
Matrix: Water	QC Batch#: 2004/12/22-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mineral spirits	450	50	ug/L	1.00	12/29/2004 00:29	Q8
<b>Surrogate(s)</b>						
o-Terphenyl	75.4	60-130	%	1.00	12/29/2004 00:29	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566  
Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/29/2004 16:30

**TEPH w/ Silica Gel Clean-up**

Aqua Science Engineers, Inc.  
Attn.: Damian Hriciga

208 West El Pintado  
Danville, CA 94526  
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

**Batch QC Report**

Prep(s): 3510/8015M

Test(s): 8015M

Method Blank

Water

QC Batch # 2004/12/22-01.10

MB: 2004/12/22-01.10-004

Date Extracted: 12/22/2004 05:30

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	12/29/2004 00:56	
Mineral spirits	ND	50	ug/L	12/29/2004 00:56	
<b>Surrogates(s)</b> o-Terphenyl	80.8	60-130	%	12/29/2004 00:56	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/29/2004 16:30

**TEPH w/ Silica Gel Clean-up**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado  
Danville, CA 94526  
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

**Batch QC Report**

Prep(s): 3510/8015M

Test(s): 8015M

**Laboratory Control Spike**

**Water**

**QC Batch # 2004/12/22-01.10**

LCS 2004/12/22-01.10-002

Extracted: 12/22/2004

Analyzed: 12/22/2004 13:58

LCSD 2004/12/22-01.10-003

Extracted: 12/22/2004

Analyzed: 12/22/2004 14:25

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	711	633	1000	71.1	63.3	11.6	60-130	25		
<b>Surrogates(s)</b> o-Terphenyl	16.2	14.8	20.0	81.0	74.0		60-130	0		

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/29/2004 16:30

**TEPH w/ Silica Gel Clean-up**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

---

**Legend and Notes**

---

**Result Flag**

Q8

Quantit. of unknown hydrocarbon(s) in sample based on Mineral Spirits

**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
B-2	12/16/2004 11:45	Water	1
B-3	12/16/2004 13:05	Water	2
B-4	12/16/2004 12:30	Water	3

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/29/2004 15:28

Page 1 of 26





**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

Prep(s): 5030B Test(s): 8260B  
 Sample ID: B-2 Lab ID: 2004-12-0717 - 1  
 Sampled: 12/16/2004 11:45 Extracted: 12/29/2004 12:24  
 Matrix: Water QC Batch#: 2004/12/29-01.70

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
1,1-Dichloroethane	ND	0.50	ug/L	1.00	12/29/2004 12:24	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	12/29/2004 12:24	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	12/29/2004 12:24	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	12/29/2004 12:24	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	12/29/2004 12:24	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	12/29/2004 12:24	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	12/29/2004 12:24	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	12/29/2004 12:24	
Ethylbenzene	ND	0.50	ug/L	1.00	12/29/2004 12:24	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	12/29/2004 12:24	
2-Hexanone	ND	50	ug/L	1.00	12/29/2004 12:24	
Isopropylbenzene	ND	0.50	ug/L	1.00	12/29/2004 12:24	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	12/29/2004 12:24	
Methylene chloride	ND	5.0	ug/L	1.00	12/29/2004 12:24	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	12/29/2004 12:24	
Naphthalene	ND	1.0	ug/L	1.00	12/29/2004 12:24	
n-Propylbenzene	ND	1.0	ug/L	1.00	12/29/2004 12:24	
Styrene	ND	0.50	ug/L	1.00	12/29/2004 12:24	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	12/29/2004 12:24	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	12/29/2004 12:24	
Tetrachloroethene	ND	0.50	ug/L	1.00	12/29/2004 12:24	
Toluene	ND	0.50	ug/L	1.00	12/29/2004 12:24	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	12/29/2004 12:24	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	12/29/2004 12:24	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	12/29/2004 12:24	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	12/29/2004 12:24	
Trichloroethene	ND	0.50	ug/L	1.00	12/29/2004 12:24	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	12/29/2004 12:24	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	12/29/2004 12:24	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	12/29/2004 12:24	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	12/29/2004 12:24	

Sewern Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/29/2004 15:28

**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado  
Danville, CA 94526  
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

Prep(s): 5030B Test(s): 8260B  
Sample ID: B-2 Lab ID: 2004-12-0717 - 1  
Sampled: 12/16/2004 11:45 Extracted: 12/29/2004 12:24  
Matrix: Water QC Batch#: 2004/12/29-01.70

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Vinyl acetate	ND	25	ug/L	1.00	12/29/2004 12:24	
Vinyl chloride	ND	0.50	ug/L	1.00	12/29/2004 12:24	
Total xylenes	ND	1.0	ug/L	1.00	12/29/2004 12:24	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	86.9	79-118	%	1.00	12/29/2004 12:24	
1,2-Dichloroethane-d4	92.4	78-117	%	1.00	12/29/2004 12:24	
Toluene-d8	98.1	77-121	%	1.00	12/29/2004 12:24	

**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

Prep(s): 5030B Test(s): 8260B  
 Sample ID: B-3 Lab ID: 2004-12-0717 - 2  
 Sampled: 12/16/2004 13:05 Extracted: 12/28/2004 20:17  
 Matrix: Water QC Batch#: 2004/12/28-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	12/28/2004 20:17	
Acetone	ND	50	ug/L	1.00	12/28/2004 20:17	
Benzene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
Bromodichloromethane	ND	0.50	ug/L	1.00	12/28/2004 20:17	
Bromobenzene	ND	1.0	ug/L	1.00	12/28/2004 20:17	
Bromochloromethane	ND	1.0	ug/L	1.00	12/28/2004 20:17	
Bromoform	ND	0.50	ug/L	1.00	12/28/2004 20:17	
Bromomethane	ND	1.0	ug/L	1.00	12/28/2004 20:17	
2-Butanone(MEK)	ND	50	ug/L	1.00	12/28/2004 20:17	
n-Butylbenzene	ND	1.0	ug/L	1.00	12/28/2004 20:17	
sec-Butylbenzene	ND	1.0	ug/L	1.00	12/28/2004 20:17	
tert-Butylbenzene	ND	1.0	ug/L	1.00	12/28/2004 20:17	
Carbon disulfide	ND	5.0	ug/L	1.00	12/28/2004 20:17	
Carbon tetrachloride	ND	0.50	ug/L	1.00	12/28/2004 20:17	
Chlorobenzene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
Chloroethane	ND	1.0	ug/L	1.00	12/28/2004 20:17	
Chloroform	ND	1.0	ug/L	1.00	12/28/2004 20:17	
Chloromethane	ND	1.0	ug/L	1.00	12/28/2004 20:17	
2-Chlorotoluene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
4-Chlorotoluene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
Dibromochloromethane	ND	0.50	ug/L	1.00	12/28/2004 20:17	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	12/28/2004 20:17	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	12/28/2004 20:17	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	12/28/2004 20:17	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	12/28/2004 20:17	
Dibromomethane	ND	0.50	ug/L	1.00	12/28/2004 20:17	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	12/28/2004 20:17	

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12/29/2004 15:28

**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado  
Danville, CA 94526  
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-3	Lab ID: 2004-12-0717 - 2
Sampled: 12/16/2004 13:05	Extracted: 12/28/2004 20:17
Matrix: Water	QC Batch#: 2004/12/28-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
1,1-Dichloroethane	ND	0.50	ug/L	1.00	12/28/2004 20:17	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	12/28/2004 20:17	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	12/28/2004 20:17	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
Ethylbenzene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	12/28/2004 20:17	
2-Hexanone	ND	50	ug/L	1.00	12/28/2004 20:17	
Isopropylbenzene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	12/28/2004 20:17	
Methylene chloride	ND	5.0	ug/L	1.00	12/28/2004 20:17	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	12/28/2004 20:17	
Naphthalene	ND	1.0	ug/L	1.00	12/28/2004 20:17	
n-Propylbenzene	ND	1.0	ug/L	1.00	12/28/2004 20:17	
Styrene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	12/28/2004 20:17	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	12/28/2004 20:17	
Tetrachloroethene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
Toluene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	12/28/2004 20:17	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	12/28/2004 20:17	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	12/28/2004 20:17	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	12/28/2004 20:17	
Trichloroethene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	12/28/2004 20:17	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	12/28/2004 20:17	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	12/28/2004 20:17	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	12/28/2004 20:17	

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**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>B-3</b>	Lab ID:	2004-12-0717 - 2
Sampled:	12/16/2004 13:05	Extracted:	12/28/2004 20:17
Matrix:	Water	QC Batch#:	2004/12/28-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Vinyl acetate	ND	25	ug/L	1.00	12/28/2004 20:17	
Vinyl chloride	ND	0.50	ug/L	1.00	12/28/2004 20:17	
Total xylenes	ND	1.0	ug/L	1.00	12/28/2004 20:17	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	107.3	79-118	%	1.00	12/28/2004 20:17	
1,2-Dichloroethane-d4	110.3	78-117	%	1.00	12/28/2004 20:17	
Toluene-d8	102.7	77-121	%	1.00	12/28/2004 20:17	

**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

 208 West El Pintado  
 Danville, CA 94526  
 Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B-4	Lab ID:	2004-12-0717 - 3
Sampled:	12/16/2004 12:30	Extracted:	12/29/2004 14:38
Matrix:	Water	QC Batch#:	2004/12/29-01.60
Analysis Flag: L1 ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	10	ug/L	2.00	12/29/2004 14:38	
Acetone	ND	100	ug/L	2.00	12/29/2004 14:38	
Benzene	ND	1.0	ug/L	2.00	12/29/2004 14:38	
Bromodichloromethane	ND	1.0	ug/L	2.00	12/29/2004 14:38	
Bromobenzene	ND	2.0	ug/L	2.00	12/29/2004 14:38	
Bromochloromethane	ND	2.0	ug/L	2.00	12/29/2004 14:38	
Bromoform	ND	1.0	ug/L	2.00	12/29/2004 14:38	
Bromomethane	ND	2.0	ug/L	2.00	12/29/2004 14:38	
2-Butanone(MEK)	ND	100	ug/L	2.00	12/29/2004 14:38	
n-Butylbenzene	ND	2.0	ug/L	2.00	12/29/2004 14:38	
sec-Butylbenzene	ND	2.0	ug/L	2.00	12/29/2004 14:38	
tert-Butylbenzene	4.6	2.0	ug/L	2.00	12/29/2004 14:38	
Carbon disulfide	ND	10	ug/L	2.00	12/29/2004 14:38	
Carbon tetrachloride	ND	1.0	ug/L	2.00	12/29/2004 14:38	
Chlorobenzene	ND	1.0	ug/L	2.00	12/29/2004 14:38	
Chloroethane	ND	2.0	ug/L	2.00	12/29/2004 14:38	
Chloroform	ND	2.0	ug/L	2.00	12/29/2004 14:38	
Chloromethane	ND	2.0	ug/L	2.00	12/29/2004 14:38	
2-Chlorotoluene	ND	1.0	ug/L	2.00	12/29/2004 14:38	
4-Chlorotoluene	ND	1.0	ug/L	2.00	12/29/2004 14:38	
Dibromochloromethane	ND	1.0	ug/L	2.00	12/29/2004 14:38	
1,2-Dichlorobenzene	ND	1.0	ug/L	2.00	12/29/2004 14:38	
1,3-Dichlorobenzene	ND	1.0	ug/L	2.00	12/29/2004 14:38	
1,4-Dichlorobenzene	ND	1.0	ug/L	2.00	12/29/2004 14:38	
1,3-Dichloropropane	ND	2.0	ug/L	2.00	12/29/2004 14:38	
2,2-Dichloropropane	ND	1.0	ug/L	2.00	12/29/2004 14:38	
1,1-Dichloropropene	ND	1.0	ug/L	2.00	12/29/2004 14:38	
1,2-Dibromo-3-chloropropane	ND	2.0	ug/L	2.00	12/29/2004 14:38	
1,2-Dibromoethane	ND	1.0	ug/L	2.00	12/29/2004 14:38	
Dibromomethane	ND	1.0	ug/L	2.00	12/29/2004 14:38	

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**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

Prep(s): 5030B Test(s): 8260B  
 Sample ID: B-4 Lab ID: 2004-12-0717 - 3  
 Sampled: 12/16/2004 12:30 Extracted: 12/29/2004 14:38  
 Matrix: Water QC Batch#: 2004/12/29-01.60  
 Analysis Flag: L1 ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	2.00	12/29/2004 14:38	
1,1-Dichloroethane	ND	1.0	ug/L	2.00	12/29/2004 14:38	
1,2-Dichloroethane	ND	1.0	ug/L	2.00	12/29/2004 14:38	
1,1-Dichloroethene	ND	1.0	ug/L	2.00	12/29/2004 14:38	
cis-1,2-Dichloroethene	ND	1.0	ug/L	2.00	12/29/2004 14:38	
trans-1,2-Dichloroethene	ND	1.0	ug/L	2.00	12/29/2004 14:38	
1,2-Dichloropropane	ND	1.0	ug/L	2.00	12/29/2004 14:38	
cis-1,3-Dichloropropene	ND	1.0	ug/L	2.00	12/29/2004 14:38	
trans-1,3-Dichloropropene	ND	1.0	ug/L	2.00	12/29/2004 14:38	
Ethylbenzene	ND	1.0	ug/L	2.00	12/29/2004 14:38	
Hexachlorobutadiene	ND	2.0	ug/L	2.00	12/29/2004 14:38	
2-Hexanone	ND	100	ug/L	2.00	12/29/2004 14:38	
Isopropylbenzene	ND	1.0	ug/L	2.00	12/29/2004 14:38	
p-Isopropyltoluene	ND	2.0	ug/L	2.00	12/29/2004 14:38	
Methylene chloride	ND	10	ug/L	2.00	12/29/2004 14:38	
4-Methyl-2-pentanone (MIBK)	ND	100	ug/L	2.00	12/29/2004 14:38	
Naphthalene	ND	2.0	ug/L	2.00	12/29/2004 14:38	
n-Propylbenzene	ND	2.0	ug/L	2.00	12/29/2004 14:38	
Styrene	ND	1.0	ug/L	2.00	12/29/2004 14:38	
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	2.00	12/29/2004 14:38	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	2.00	12/29/2004 14:38	
Tetrachloroethene	ND	1.0	ug/L	2.00	12/29/2004 14:38	
Toluene	ND	1.0	ug/L	2.00	12/29/2004 14:38	
1,2,3-Trichlorobenzene	ND	2.0	ug/L	2.00	12/29/2004 14:38	
1,2,4-Trichlorobenzene	ND	2.0	ug/L	2.00	12/29/2004 14:38	
1,1,1-Trichloroethane	ND	1.0	ug/L	2.00	12/29/2004 14:38	
1,1,2-Trichloroethane	ND	1.0	ug/L	2.00	12/29/2004 14:38	
Trichloroethene	ND	1.0	ug/L	2.00	12/29/2004 14:38	
Trichlorofluoromethane	ND	2.0	ug/L	2.00	12/29/2004 14:38	
Trichlorotrifluoroethane	ND	1.0	ug/L	2.00	12/29/2004 14:38	

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**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado  
Danville, CA 94526  
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/12/28-01.60-012

Water

Test(s): 8260B

QC Batch # 2004/12/28-01.60

Date Extracted: 12/28/2004 12:12

Compound	Conc.	RL	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	12/28/2004 12:12	
Acetone	ND	50	ug/L	12/28/2004 12:12	
Benzene	ND	0.5	ug/L	12/28/2004 12:12	
Bromodichloromethane	ND	0.5	ug/L	12/28/2004 12:12	
Bromobenzene	ND	1.0	ug/L	12/28/2004 12:12	
Bromochloromethane	ND	1.0	ug/L	12/28/2004 12:12	
Bromoform	ND	0.5	ug/L	12/28/2004 12:12	
Bromomethane	ND	1.0	ug/L	12/28/2004 12:12	
2-Butanone(MEK)	ND	50	ug/L	12/28/2004 12:12	
n-Butylbenzene	ND	1.0	ug/L	12/28/2004 12:12	
sec-Butylbenzene	ND	1.0	ug/L	12/28/2004 12:12	
tert-Butylbenzene	ND	1.0	ug/L	12/28/2004 12:12	
Carbon disulfide	ND	5.0	ug/L	12/28/2004 12:12	
Carbon tetrachloride	ND	0.5	ug/L	12/28/2004 12:12	
Chlorobenzene	ND	0.5	ug/L	12/28/2004 12:12	
Chloroethane	ND	1.0	ug/L	12/28/2004 12:12	
Chloroform	ND	1.0	ug/L	12/28/2004 12:12	
Chloromethane	ND	1.0	ug/L	12/28/2004 12:12	
2-Chlorotoluene	ND	0.5	ug/L	12/28/2004 12:12	
4-Chlorotoluene	ND	0.5	ug/L	12/28/2004 12:12	
Dibromochloromethane	ND	0.5	ug/L	12/28/2004 12:12	
1,2-Dichlorobenzene	ND	0.5	ug/L	12/28/2004 12:12	
1,3-Dichlorobenzene	ND	0.5	ug/L	12/28/2004 12:12	
1,4-Dichlorobenzene	ND	0.5	ug/L	12/28/2004 12:12	
1,3-Dichloropropane	ND	1.0	ug/L	12/28/2004 12:12	
2,2-Dichloropropane	ND	0.5	ug/L	12/28/2004 12:12	
1,1-Dichloropropene	ND	0.5	ug/L	12/28/2004 12:12	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	12/28/2004 12:12	
1,2-Dibromoethane	ND	0.5	ug/L	12/28/2004 12:12	
Dibromomethane	ND	0.5	ug/L	12/28/2004 12:12	
Dichlorodifluoromethane	ND	0.5	ug/L	12/28/2004 12:12	

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**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado  
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Project: Kozel

Received: 12/20/2004 18:29

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/12/28-01.60-012

Water

Test(s): 8260B

QC Batch # 2004/12/28-01.60

Date Extracted: 12/28/2004 12:12

Compound	Conc.	RL	Unit	Analyzed	Flag
1,1-Dichloroethane	ND	0.5	ug/L	12/28/2004 12:12	
1,2-Dichloroethane	ND	0.5	ug/L	12/28/2004 12:12	
1,1-Dichloroethene	ND	0.5	ug/L	12/28/2004 12:12	
cis-1,2-Dichloroethene	ND	0.5	ug/L	12/28/2004 12:12	
trans-1,2-Dichloroethene	ND	0.5	ug/L	12/28/2004 12:12	
1,2-Dichloropropane	ND	0.5	ug/L	12/28/2004 12:12	
cis-1,3-Dichloropropene	ND	0.5	ug/L	12/28/2004 12:12	
trans-1,3-Dichloropropene	ND	0.5	ug/L	12/28/2004 12:12	
Ethylbenzene	ND	0.5	ug/L	12/28/2004 12:12	
Hexachlorobutadiene	ND	1.0	ug/L	12/28/2004 12:12	
2-Hexanone	ND	50	ug/L	12/28/2004 12:12	
Isopropylbenzene	ND	0.5	ug/L	12/28/2004 12:12	
p-Isopropyltoluene	ND	1.0	ug/L	12/28/2004 12:12	
Methylene chloride	ND	5.0	ug/L	12/28/2004 12:12	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	12/28/2004 12:12	
Naphthalene	ND	1.0	ug/L	12/28/2004 12:12	
n-Propylbenzene	ND	1.0	ug/L	12/28/2004 12:12	
Styrene	ND	0.5	ug/L	12/28/2004 12:12	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	12/28/2004 12:12	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	12/28/2004 12:12	
Tetrachloroethene	ND	0.5	ug/L	12/28/2004 12:12	
Toluene	ND	0.5	ug/L	12/28/2004 12:12	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	12/28/2004 12:12	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	12/28/2004 12:12	
1,1,1-Trichloroethane	ND	0.5	ug/L	12/28/2004 12:12	
1,1,2-Trichloroethane	ND	0.5	ug/L	12/28/2004 12:12	
Trichloroethene	ND	0.5	ug/L	12/28/2004 12:12	
Trichlorofluoromethane	ND	1.0	ug/L	12/28/2004 12:12	
Trichlorotrifluoroethane	ND	0.5	ug/L	12/28/2004 12:12	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	12/28/2004 12:12	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	12/28/2004 12:12	
Vinyl acetate	ND	25	ug/L	12/28/2004 12:12	

Sewern Trent Laboratories, Inc.

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**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado  
Danville, CA 94526  
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/12/28-01.60-012

Water

Test(s): 8260B

QC Batch # 2004/12/28-01.60

Date Extracted: 12/28/2004 12:12

Compound	Conc.	RL	Unit	Analyzed	Flag
Vinyl chloride	ND	0.5	ug/L	12/28/2004 12:12	
Total xylenes	ND	1.0	ug/L	12/28/2004 12:12	
<b>Surrogates(s)</b>					
4-Bromofluorobenzene	102.8	79-118	%	12/28/2004 12:12	
1,2-Dichloroethane-d4	107.4	78-117	%	12/28/2004 12:12	
Toluene-d8	101.5	77-121	%	12/28/2004 12:12	

Sewern Trent Laboratories, Inc.

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12/29/2004 15.28

**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

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Project: Kozel

Received: 12/20/2004 18:29

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/12/29-01.60-016

Water

Test(s): 8260B

QC Batch # 2004/12/29-01.60

Date Extracted: 12/29/2004 08:16

Compound	Conc.	RL	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	12/29/2004 08:16	
Acetone	ND	50	ug/L	12/29/2004 08:16	
Benzene	ND	0.5	ug/L	12/29/2004 08:16	
Bromodichloromethane	ND	0.5	ug/L	12/29/2004 08:16	
Bromobenzene	ND	1.0	ug/L	12/29/2004 08:16	
Bromochloromethane	ND	1.0	ug/L	12/29/2004 08:16	
Bromoform	ND	0.5	ug/L	12/29/2004 08:16	
Bromomethane	ND	1.0	ug/L	12/29/2004 08:16	
2-Butanone(MEK)	ND	50	ug/L	12/29/2004 08:16	
n-Butylbenzene	ND	1.0	ug/L	12/29/2004 08:16	
sec-Butylbenzene	ND	1.0	ug/L	12/29/2004 08:16	
tert-Butylbenzene	ND	1.0	ug/L	12/29/2004 08:16	
Carbon disulfide	ND	5.0	ug/L	12/29/2004 08:16	
Carbon tetrachloride	ND	0.5	ug/L	12/29/2004 08:16	
Chlorobenzene	ND	0.5	ug/L	12/29/2004 08:16	
Chloroethane	ND	1.0	ug/L	12/29/2004 08:16	
Chloroform	ND	1.0	ug/L	12/29/2004 08:16	
Chloromethane	ND	1.0	ug/L	12/29/2004 08:16	
2-Chlorotoluene	ND	0.5	ug/L	12/29/2004 08:16	
4-Chlorotoluene	ND	0.5	ug/L	12/29/2004 08:16	
Dibromochloromethane	ND	0.5	ug/L	12/29/2004 08:16	
1,2-Dichlorobenzene	ND	0.5	ug/L	12/29/2004 08:16	
1,3-Dichlorobenzene	ND	0.5	ug/L	12/29/2004 08:16	
1,4-Dichlorobenzene	ND	0.5	ug/L	12/29/2004 08:16	
1,3-Dichloropropane	ND	1.0	ug/L	12/29/2004 08:16	
2,2-Dichloropropane	ND	0.5	ug/L	12/29/2004 08:16	
1,1-Dichloropropene	ND	0.5	ug/L	12/29/2004 08:16	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	12/29/2004 08:16	
1,2-Dibromoethane	ND	0.5	ug/L	12/29/2004 08:16	
Dibromomethane	ND	0.5	ug/L	12/29/2004 08:16	
Dichlorodifluoromethane	ND	0.5	ug/L	12/29/2004 08:16	
1,1-Dichloroethane	ND	0.5	ug/L	12/29/2004 08:16	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/29/2004 15:28

**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

 208 West El Pintado  
 Danville, CA 94526  
 Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/12/29-01.60-016

Water

Test(s): 8260B

QC Batch # 2004/12/29-01.60

Date Extracted: 12/29/2004 08:16

Compound	Conc.	RL	Unit	Analyzed	Flag
1,2-Dichloroethane	ND	0.5	ug/L	12/29/2004 08:16	
1,1-Dichloroethene	ND	0.5	ug/L	12/29/2004 08:16	
cis-1,2-Dichloroethene	ND	0.5	ug/L	12/29/2004 08:16	
trans-1,2-Dichloroethene	ND	0.5	ug/L	12/29/2004 08:16	
1,2-Dichloropropane	ND	0.5	ug/L	12/29/2004 08:16	
cis-1,3-Dichloropropene	ND	0.5	ug/L	12/29/2004 08:16	
trans-1,3-Dichloropropene	ND	0.5	ug/L	12/29/2004 08:16	
Ethylbenzene	ND	0.5	ug/L	12/29/2004 08:16	
Hexachlorobutadiene	ND	1.0	ug/L	12/29/2004 08:16	
2-Hexanone	ND	50	ug/L	12/29/2004 08:16	
Isopropylbenzene	ND	0.5	ug/L	12/29/2004 08:16	
p-Isopropyltoluene	ND	1.0	ug/L	12/29/2004 08:16	
Methylene chloride	ND	5.0	ug/L	12/29/2004 08:16	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	12/29/2004 08:16	
Naphthalene	ND	1.0	ug/L	12/29/2004 08:16	
n-Propylbenzene	ND	1.0	ug/L	12/29/2004 08:16	
Styrene	ND	0.5	ug/L	12/29/2004 08:16	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	12/29/2004 08:16	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	12/29/2004 08:16	
Tetrachloroethene	ND	0.5	ug/L	12/29/2004 08:16	
Toluene	ND	0.5	ug/L	12/29/2004 08:16	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	12/29/2004 08:16	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	12/29/2004 08:16	
1,1,1-Trichloroethane	ND	0.5	ug/L	12/29/2004 08:16	
1,1,2-Trichloroethane	ND	0.5	ug/L	12/29/2004 08:16	
Trichloroethene	ND	0.5	ug/L	12/29/2004 08:16	
Trichlorofluoromethane	ND	1.0	ug/L	12/29/2004 08:16	
Trichlorotrifluoroethane	ND	0.5	ug/L	12/29/2004 08:16	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	12/29/2004 08:16	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	12/29/2004 08:16	
Vinyl acetate	ND	25	ug/L	12/29/2004 08:16	
Vinyl chloride	ND	0.5	ug/L	12/29/2004 08:16	

Severn Trent Laboratories, Inc.

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12/29/2004 15:28

**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/12/29-01.60-016

Water

Test(s): 8260B

QC Batch # 2004/12/29-01.60

Date Extracted: 12/29/2004 08:16

Compound	Conc.	RL	Unit	Analyzed	Flag
Total xylenes	ND	1.0	ug/L	12/29/2004 08:16	
<b>Surrogates(s)</b>					
4-Bromofluorobenzene	103.4	79-118	%	12/29/2004 08:16	
1,2-Dichloroethane-d4	103.2	78-117	%	12/29/2004 08:16	
Toluene-d8	103.2	77-121	%	12/29/2004 08:16	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

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12/29/2004 15:28

**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado  
Danville, CA 94526  
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/12/29-01.70-014

Water

Test(s): 8260B

QC Batch # 2004/12/29-01.70

Date Extracted: 12/29/2004 08:14

Compound	Conc.	RL	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	12/29/2004 08:14	
Acetone	ND	50	ug/L	12/29/2004 08:14	
Benzene	ND	0.5	ug/L	12/29/2004 08:14	
Bromodichloromethane	ND	0.5	ug/L	12/29/2004 08:14	
Bromobenzene	ND	1.0	ug/L	12/29/2004 08:14	
Bromochloromethane	ND	1.0	ug/L	12/29/2004 08:14	
Bromoform	ND	0.5	ug/L	12/29/2004 08:14	
Bromomethane	ND	1.0	ug/L	12/29/2004 08:14	
2-Butanone(MEK)	ND	50	ug/L	12/29/2004 08:14	
n-Butylbenzene	ND	1.0	ug/L	12/29/2004 08:14	
sec-Butylbenzene	ND	1.0	ug/L	12/29/2004 08:14	
tert-Butylbenzene	ND	1.0	ug/L	12/29/2004 08:14	
Carbon disulfide	ND	5.0	ug/L	12/29/2004 08:14	
Carbon tetrachloride	ND	0.5	ug/L	12/29/2004 08:14	
Chlorobenzene	ND	0.5	ug/L	12/29/2004 08:14	
Chloroethane	ND	1.0	ug/L	12/29/2004 08:14	
Chloroform	ND	1.0	ug/L	12/29/2004 08:14	
Chloromethane	ND	1.0	ug/L	12/29/2004 08:14	
2-Chlorotoluene	ND	0.5	ug/L	12/29/2004 08:14	
4-Chlorotoluene	ND	0.5	ug/L	12/29/2004 08:14	
Dibromochloromethane	ND	0.5	ug/L	12/29/2004 08:14	
1,2-Dichlorobenzene	ND	0.5	ug/L	12/29/2004 08:14	
1,3-Dichlorobenzene	ND	0.5	ug/L	12/29/2004 08:14	
1,4-Dichlorobenzene	ND	0.5	ug/L	12/29/2004 08:14	
1,3-Dichloropropane	ND	1.0	ug/L	12/29/2004 08:14	
2,2-Dichloropropane	ND	0.5	ug/L	12/29/2004 08:14	
1,1-Dichloropropene	ND	0.5	ug/L	12/29/2004 08:14	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	12/29/2004 08:14	
1,2-Dibromoethane	ND	0.5	ug/L	12/29/2004 08:14	
Dibromomethane	ND	0.5	ug/L	12/29/2004 08:14	
Dichlorodifluoromethane	ND	0.5	ug/L	12/29/2004 08:14	
1,1-Dichloroethane	ND	0.5	ug/L	12/29/2004 08:14	

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12/29/2004 15:28



**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado  
Danville, CA 94526  
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/12/29-01.70-014

Water

Test(s): 8260B

QC Batch # 2004/12/29-01.70

Date Extracted: 12/29/2004 08:14

Compound	Conc.	RL	Unit	Analyzed	Flag
1,2-Dichloroethane	ND	0.5	ug/L	12/29/2004 08:14	
1,1-Dichloroethene	ND	0.5	ug/L	12/29/2004 08:14	
cis-1,2-Dichloroethene	ND	0.5	ug/L	12/29/2004 08:14	
trans-1,2-Dichloroethene	ND	0.5	ug/L	12/29/2004 08:14	
1,2-Dichloropropane	ND	0.5	ug/L	12/29/2004 08:14	
cis-1,3-Dichloropropene	ND	0.5	ug/L	12/29/2004 08:14	
trans-1,3-Dichloropropene	ND	0.5	ug/L	12/29/2004 08:14	
Ethylbenzene	ND	0.5	ug/L	12/29/2004 08:14	
Hexachlorobutadiene	ND	1.0	ug/L	12/29/2004 08:14	
2-Hexanone	ND	50	ug/L	12/29/2004 08:14	
Isopropylbenzene	ND	0.5	ug/L	12/29/2004 08:14	
p-Isopropyltoluene	ND	1.0	ug/L	12/29/2004 08:14	
Methylene chloride	ND	5.0	ug/L	12/29/2004 08:14	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	12/29/2004 08:14	
Naphthalene	ND	1.0	ug/L	12/29/2004 08:14	
n-Propylbenzene	ND	1.0	ug/L	12/29/2004 08:14	
Styrene	ND	0.5	ug/L	12/29/2004 08:14	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	12/29/2004 08:14	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	12/29/2004 08:14	
Tetrachloroethene	ND	0.5	ug/L	12/29/2004 08:14	
Toluene	ND	0.5	ug/L	12/29/2004 08:14	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	12/29/2004 08:14	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	12/29/2004 08:14	
1,1,1-Trichloroethane	ND	0.5	ug/L	12/29/2004 08:14	
1,1,2-Trichloroethane	ND	0.5	ug/L	12/29/2004 08:14	
Trichloroethene	ND	0.5	ug/L	12/29/2004 08:14	
Trichlorofluoromethane	ND	1.0	ug/L	12/29/2004 08:14	
Trichlorotrifluoroethane	ND	0.5	ug/L	12/29/2004 08:14	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	12/29/2004 08:14	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	12/29/2004 08:14	
Vinyl acetate	ND	25	ug/L	12/29/2004 08:14	
Vinyl chloride	ND	0.5	ug/L	12/29/2004 08:14	

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12/29/2004 15:28

**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.  
Attn.: Damian Hriciga

208 West El Pintado  
Danville, CA 94526  
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/12/29-01.70-014

Water

Test(s): 8260B

QC Batch # 2004/12/29-01.70

Date Extracted: 12/29/2004 08:14

Compound	Conc.	RL	Unit	Analyzed	Flag
Total xylenes	ND	1.0	ug/L	12/29/2004 08:14	
<b>Surrogates(s)</b>					
4-Bromofluorobenzene	89.0	79-118	%	12/29/2004 08:14	
1,2-Dichloroethane-d4	91.9	78-117	%	12/29/2004 08:14	
Toluene-d8	96.8	77-121	%	12/29/2004 08:14	

**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2004/12/28-01.60**

LCS 2004/12/28-01.60-038

Extracted: 12/28/2004

Analyzed: 12/28/2004 11:38

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	19.9		20.0	99.5			69-129	20		
Chlorobenzene	18.5		20.0	92.5			61-121	20		
1,1-Dichloroethene	20.8		20.0	104.0			65-125	20		
Toluene	18.3		20.0	91.5			70-130	20		
Trichloroethene	18.6		20.0	93.0			74-134	20		
<b>Surrogates(s)</b>										
4-Bromofluorobenzene	523		500	104.6			79-118			
1,2-Dichloroethane-d4	524		500	104.8			78-117			
Toluene-d8	506		500	101.2			77-121			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/29/2004 15:28

**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado  
Danville, CA 94526  
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2004/12/29-01.60**

LCS 2004/12/29-01.60-043

Extracted: 12/29/2004

Analyzed: 12/29/2004 07:43

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	19.7		20.0	98.5			69-129	20		
Chlorobenzene	18.6		20.0	93.0			61-121	20		
1,1-Dichloroethene	19.9		20.0	99.5			65-125	20		
Toluene	19.0		20.0	95.0			70-130	20		
Trichloroethene	18.3		20.0	91.5			74-134	20		
<b>Surrogates(s)</b>										
4-Bromofluorobenzene	518		500	103.6			79-118			
1,2-Dichloroethane-d4	464		500	92.8			78-117			
Toluene-d8	517		500	103.4			77-121			

Sewern Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/29/2004 15:28

**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.  
Attn.: Damian Hriciga

208 West El Pintado  
Danville, CA 94526  
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2004/12/29-01.70**

LCS 2004/12/29-01.70-041

Extracted: 12/29/2004

Analyzed: 12/29/2004 07:41

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	18.3		20.0	91.5			69-129	20		
Chlorobenzene	18.9		20.0	94.5			61-121	20		
1,1-Dichloroethene	17.7		20.0	88.5			65-125	20		
Toluene	17.1		20.0	85.5			70-130	20		
Trichloroethene	16.8		20.0	84.0			74-134	20		
<b>Surrogates(s)</b>										
4-Bromofluorobenzene	468		500	93.6			79-118			
1,2-Dichloroethane-d4	434		500	86.8			78-117			
Toluene-d8	478		500	95.6			77-121			

**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2004/12/28-01.60**

MS/MSD

Lab ID: 2004-12-0671 - 014

MS: 2004/12/28-01.60-050

Extracted: 12/28/2004

Analyzed: 12/28/2004 15:50

Dilution: 200.00

MSD: 2004/12/28-01.60-023

Extracted: 12/28/2004

Analyzed: 12/28/2004 16:23

Dilution: 200.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
1,1-Dichloroethene	4060	4020	ND	4000	101.5	100.5	1.0	65-125	20		
Trichloroethene	3600	3620	ND	4000	90.0	90.5	0.6	74-134	20		
Chlorobenzene	3690	3640	ND	4000	92.3	91.0	1.4	61-121	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	516	522		500	103.2	104.4		79-118			
1,2-Dichloroethane-d4	534	496		500	106.9	99.3		78-117			
Toluene-d8	513	511		500	102.7	102.2		77-121			

Sewern Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

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12/29/2004 15:28

**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2004/12/29-01.60**

MS/MSD

Lab ID: 2004-12-0720 - 001

MS: 2004/12/29-01.60-052

Extracted: 12/29/2004

Analyzed: 12/29/2004 11:52

Dilution: 4.00

MSD: 2004/12/29-01.60-025

Extracted: 12/29/2004

Analyzed: 12/29/2004 12:25

Dilution: 4.00

Compound	Conc. ug/L		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	78.5	80.3	ND	80.0	98.1	100.4	2.3	69-129	20		
Chlorobenzene	74.7	75.1	ND	80.0	93.4	93.9	0.5	61-121	20		
1,1-Dichloroethene	84.3	83.0	ND	80.0	105.4	103.8	1.5	65-125	20		
Toluene	76.7	73.9	ND	80.0	95.9	92.4	3.7	70-130	20		
Trichloroethene	74.1	74.6	ND	80.0	92.6	93.2	0.6	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	516	507		500	103.2	101.4		79-118			
1,2-Dichloroethane-d4	496	517		500	99.2	103.3		78-117			
Toluene-d8	509	503		500	101.8	100.6		77-121			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/29/2004 15:28

**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2004/12/29-01.70**

MS/MSD

Lab ID: 2004-12-0696 - 001

MS: 2004/12/29-01.70-013

Extracted: 12/29/2004

Analyzed: 12/29/2004 10:13

Dilution: 2.00

MSD: 2004/12/29-01.70-046

Extracted: 12/29/2004

Analyzed: 12/29/2004 10:46

Dilution: 2.00

Compound	Conc. ug/L		Spk.Level ug/L	Recovery %			Limits %		Flags		
	MS	MSD		Sample	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	37.4	37.5	ND	40.0	93.5	93.8	0.3	69-129	20		
Chlorobenzene	36.5	36.0	ND	40.0	91.3	90.0	1.4	61-121	20		
1,1-Dichloroethene	37.3	36.9	ND	40.0	93.2	92.3	1.0	65-125	20		
Toluene	36.9	35.9	ND	40.0	92.3	89.8	2.7	70-130	20		
Trichloroethene	131	125	89.2	40.0	104.5	89.5	15.5	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	453	467		500	90.6	93.4		79-118			
1,2-Dichloroethane-d4	443	448		500	88.6	89.6		78-117			
Toluene-d8	485	472		500	97.1	94.3		77-121			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/29/2004 15:28



**Volatile Organic Compounds by 8260B (Low Level)**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: Kozel

Received: 12/20/2004 18:29

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**Legend and Notes**

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**Analysis Flag**

L1

Reporting limits raised due to high level of non-target analyte materials.



STL

MINERAL SPIRITS

STL San Francisco Chain of Custody  
1220 Quarry Lane • Pleasanton CA 94566-4756  
Phone (925) 484-1919 Fax: (925) 484-1096

Reference # 96834

2004-12-0717

Date 12/17/04 Page 1 of 1

Report To					Analysis Request															Number of Containers							
Att:	Company:	Address:	Phone:	Sampled By:	TPH EPA	Purgeable Aromatics	TPH EPA	Lead	Urea	Purgeable Halocarbons	Volatile Organics	Semivolatiles	Oil and Grease	Pesticides	PAHs	CAM17 Metals	Metals	Low Volatile Metals	WGET		YCL	Nonvalent Chromium	Spent Cond.	TSS	Anions		
DAMIAN HERRERA	AQUA SCIENCE ENGINEERS	208 W. EL RINADO	925-820-9351	PH	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
					<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
					<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4

Project Info		Sample Receipt		1) Relinquished by:		2) Relinquished by:		3) Relinquished by:				
Project Name: K0202	# of Containers: 1700	Signature: DAMIAN HERRERA	Time: 12/17/04	Signature: [Signature]	Time: 12/29	Signature: [Signature]	Time: 12/29	Signature: [Signature]	Time: [Time]			
Project#:	Head Space:	Printed Name: DAMIAN HERRERA	Date: 12/17/04	Printed Name: [Name]	Date: 12/29/04	Printed Name: [Name]	Date: [Date]	Printed Name: [Name]	Date: [Date]			
PO#:	Temp: 20C	Company: ASE		Company: STL SF		Company: [Company]		Company: [Company]				
Credit Card#:	Conforms to record:											
T A T	5 Day	72h	48h	24h	Other	1) Received by:		2) Received by:		3) Received by:		
Report	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Level 2	<input type="checkbox"/> Level 4	<input type="checkbox"/> EOD	<input checked="" type="checkbox"/> Other	Signature: [Signature]	Time: 12/17	Signature: [Signature]	Time: 12/29	Signature: [Signature]	Time: [Time]	
Special Instructions & Comments:	<input checked="" type="checkbox"/> Glass ID				Printed Name: [Name]	Date: 12/20/04	Printed Name: T. Bullock	Date: 12/29/04	Printed Name: [Name]	Date: [Date]	Printed Name: [Name]	Date: [Date]
*STL SF reports 801EM from C <sub>1</sub> -C <sub>8</sub> (analytical norm) Default for 801SB is C <sub>12</sub> -C <sub>24</sub>				Company: STL-SF		Company: STL-SF		Company: [Company]		Company: [Company]		