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October 11, 2004

Alameda County

OCT 21 2004

Environmental Health

QUARTERLY GROUNDWATER MONITORING REPORT  
SEPTEMBER 2004 GROUNDWATER SAMPLING

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 subject property is also located in Emeryville, California as the city limit runs through the subject property.

## 2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On September 14, 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 well MW-B1 contained 0.04-feet of free-floating hydrocarbons, and BES-1 contained 0.07-feet of free-floating hydrocarbons. Groundwater elevation data is presented in Table One. Groundwater elevation data from Clayton Environmental for the former Dunne Paints, sampled the same day as the Kozel property wells, is also included in the Table One.

A groundwater elevation (potentiometric surface) contour map is shown as Figure 2. The groundwater flow direction at the site is generally to the southwest with an approximate gradient of 0.02 feet/foot during this quarterly sampling period, which is consistent with the groundwater flow direction and gradient last quarter.

## 3.0 MONITORING WELL SAMPLING

On September 14, 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. Monitoring well MW-LD4 was not sampled because it was found to be destroyed (full of cement).

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 disposable polyethylene bailers. The groundwater samples to be analyzed for volatile compounds were decanted from the bailers 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.

Groundwater samples collected from monitoring wells MW-B2 and MW-B4 contained 410 parts per billion (ppb) and 400 ppb TPH-MS, respectively. No TPH-MS was detected in groundwater samples collected from MW-B3. No VOCs were detected in any of the groundwater samples analyzed.

#### **5.0 CONCLUSIONS**

Monitoring well MW-B1, adjacent to the former UST, contained 0.04-feet of free-floating hydrocarbons, and BES-1, adjacent to the former sump, contained 0.07-feet of free-floating hydrocarbons. This represents a decrease in free-floating hydrocarbon thickness in MW-B1 but an increase in BES-1. There was a significant decrease in TPH-MS concentrations in monitoring wells MW-B2 and MW-B4 this quarter, and no TPH-MS concentrations were detected again in MW-B3. No VOCs were detected in any of the groundwater samples. 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 is scheduled to conduct a soil and groundwater investigation during the week of October 18, 2004. A report with additional recommendations will be prepared following the completion of the investigation. Additionally, ASE recommends continued quarterly groundwater monitoring at the site. The next groundwater monitoring event is scheduled for December 2004.

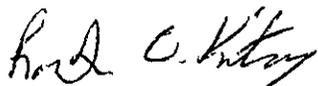
## **7.0 REPORT LIMITATIONS**

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.

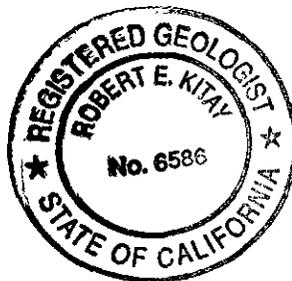
Aqua Science Engineers appreciates the opportunity to assist the Edward R. and Elizabeth A. Kozel Charitable Remainder Trust with its environmental needs. Should you have any questions or comments, please feel free to call us at (925) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.



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

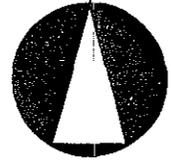
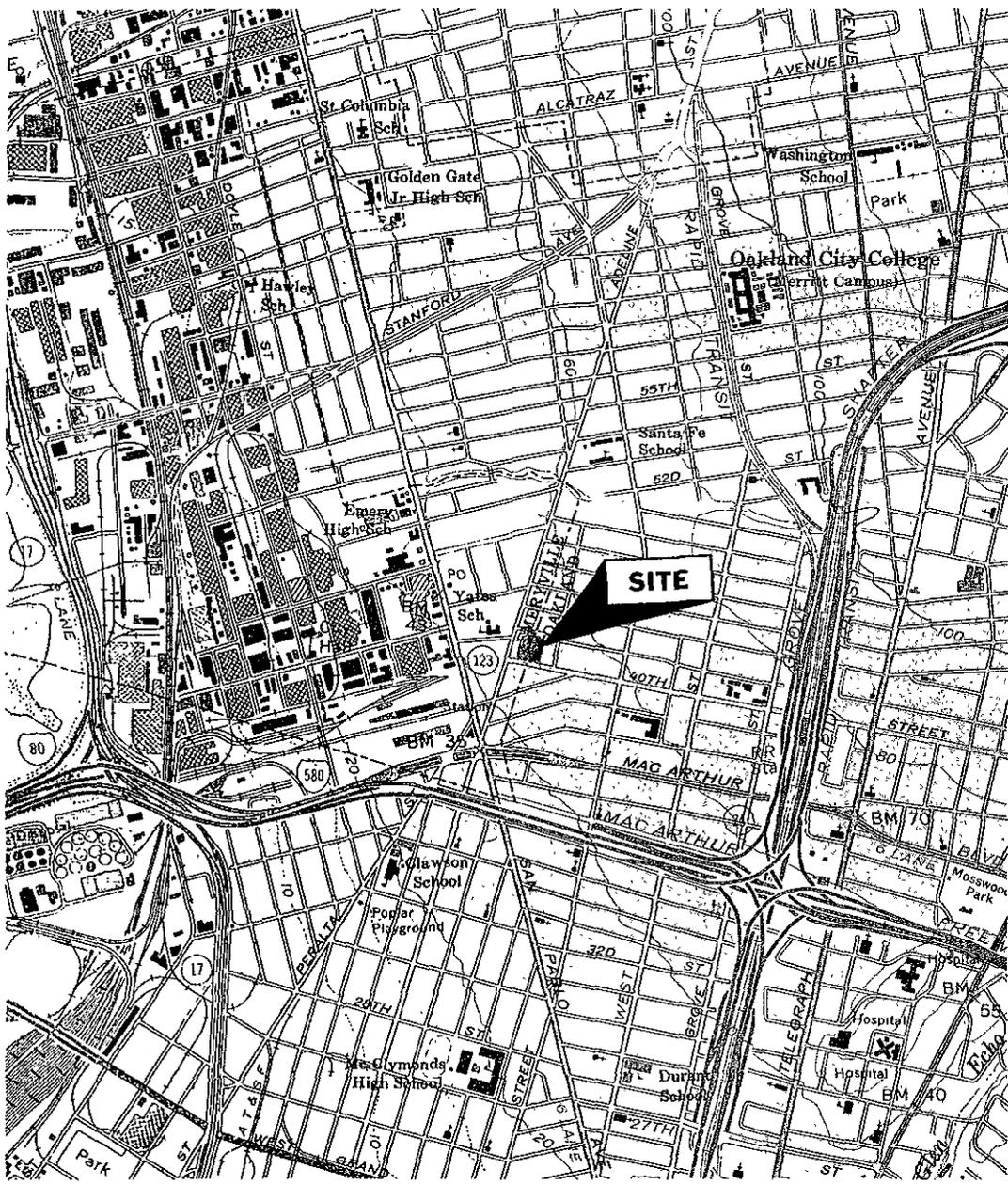
Mr. Randolph Harris, Harris and Harris, Ordway Building, One Kaiser Plaza, Suite 1010, Oakland, CA 94612-3601

Mr. John McManus, Cushman and Wakefield, 1111 Broadway, Suite 1600, Oakland, CA 94607

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

## **FIGURES**



NORTH

<h2>SITE LOCATION MAP</h2>	
<p>Kozel Property          1001 42nd Street          Oakland, California</p>	
AQUA SCIENCE ENGINEERS, INC.	FIGURE 1



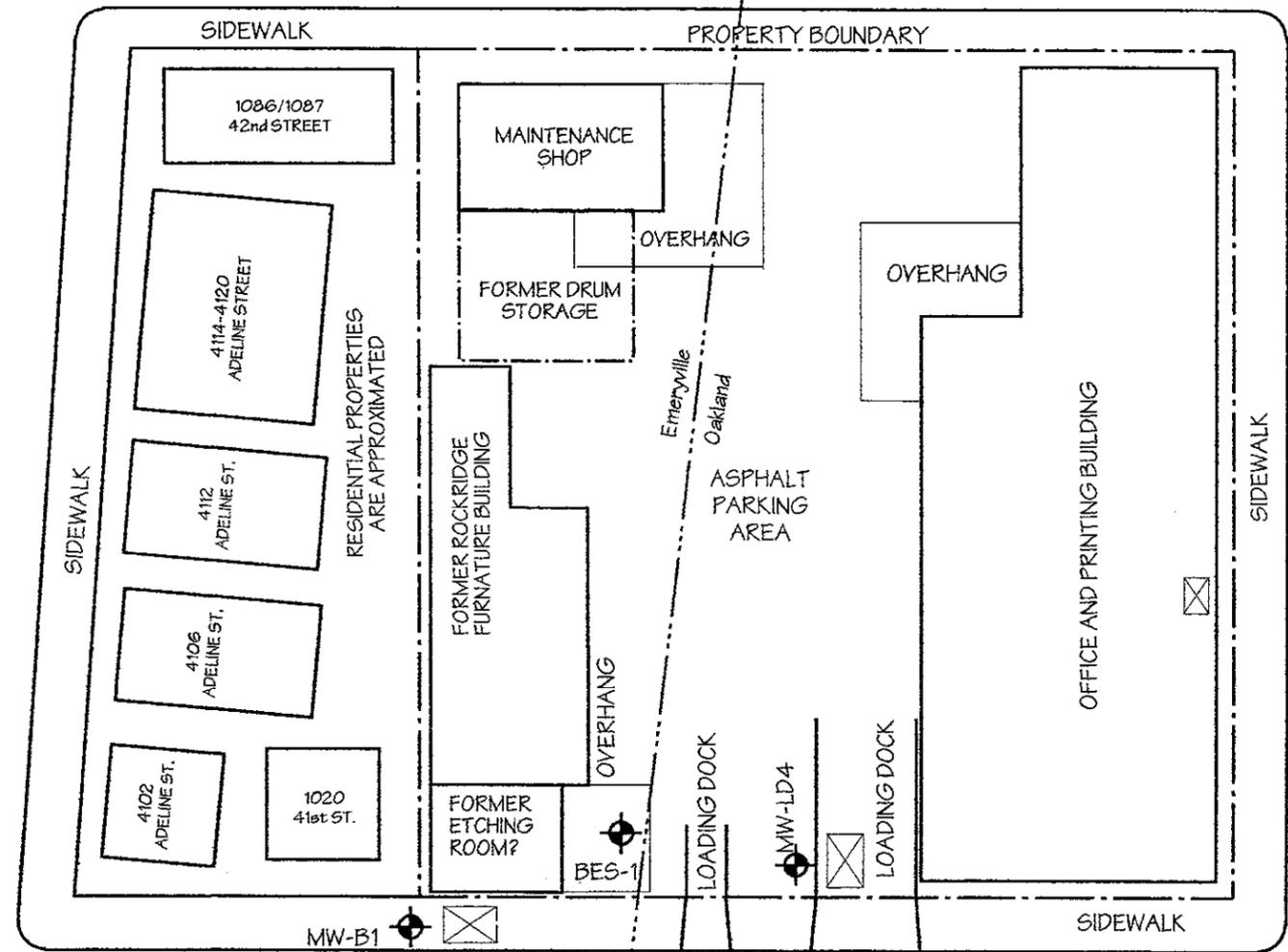
NORTH

SCALE  
1 INCH = 50 FEET

42nd STREET

ADELINE STREET

LINDEN STREET

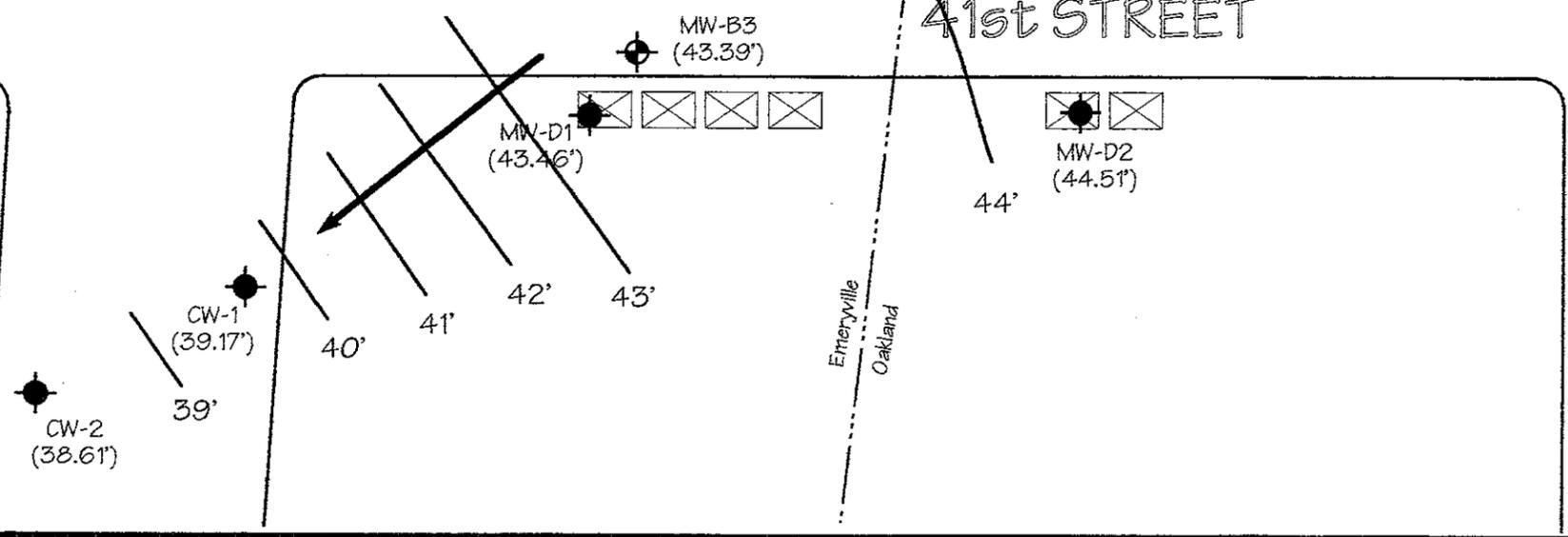


**LEGEND**

- FORMER UST
- MW-B4 (43.79') MONITORING WELL FOR KOZEL PROPERTY WITH GROUNDWATER ELEVATION
- MW-D2 (44.51') MONITORING WELL FOR DUNNE PAINTS WITH GROUNDWATER ELEVATION
- POTENTIOMETRIC SURFACE CONTOUR
- ESTIMATED GROUNDWATER FLOW DIRECTION

GROUNDWATER ELEVATION ADJUSTED FOR THICKNESS OF FREE-FLOATING HYDROCARBONS

41st STREET



POTENTIOMETRIC SURFACE  
CONTOUR MAP - 9/14/04

Date: October 14, 2004      Scale: 1" = 50'

Kozel Property  
1001 42nd Street  
Oakland, California

Aqua Science Engineers, Inc.

Figure 2

## **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*
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
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

**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)	
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	
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		---	

**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		<b>5.86</b>		<b>43.46</b>
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		<b>6.01</b>		<b>44.51</b>
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		<b>8.38</b>		<b>39.17</b>
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		<b>8.98</b>		<b>38.61</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)
CW-3	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		<b>8.65</b>		<b>37.74</b>

**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. Color Communications</b>													
<b>MW-B1</b>													
9/30/1991	-	< 50 <sup>a</sup> ; 18,000 <sup>b</sup> ; 29,000 <sup>c</sup>	6	250	980	ND	ND	ND	ND	ND	ND	ND	5 (benzene)
6/10/1993	-	27,000 <sup>b</sup> ; 57,000 <sup>d</sup>	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 <sup>a</sup> ; 37,000 <sup>c</sup>	< 2.5	< 2.5	< 2.5	23	< 2.5	< 2.5	< 2.5	< 2.5	-	< 2.5	< 2.5 - < 2.5
6/15/2004						Not Sampled Due to Free Product							
9/14/2004						Not Sampled Due to Free Product							
<b>MW-B2</b>													
6/10/1993	-	3,800 <sup>b</sup> ; 1,400 <sup>d</sup>	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 <sup>a</sup> ; ND <sup>c</sup> ; 2,400 <sup>d</sup> ; < 1,000 <sup>e</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/14/1999	630	-	-	-	-	-	-	-	-	-	-	-	-
5/28/2003	1,100	22,000 <sup>a</sup> ; 1,600 <sup>c</sup>	< 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
<b>MW-B3</b>													
6/10/1993	-	1,700 <sup>b</sup> ; 510 <sup>d</sup>	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 <sup>a</sup> ; ND <sup>c</sup> ; 830 <sup>d</sup> ; ND <sup>e</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/14/1999	< 50	-	-	-	-	-	-	-	-	-	-	-	-
5/28/2003	ND	ND <sup>a</sup> ; ND <sup>c</sup>	< 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
<b>MW-B4</b>													
6/10/1993	-	36,000 <sup>b</sup> ; 36,000 <sup>d</sup>	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 <sup>a</sup> ; ND <sup>c</sup> ; 2,700 <sup>d</sup> ; ND <sup>e</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/14/1999	5,100	-	-	-	-	-	-	-	-	-	-	-	-
5/28/2003	990	7,000 <sup>a</sup> ; 14,000 <sup>c</sup>	< 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



**TABLE TWO**

Summary of Analytical Results for GROUNDWATER Samples  
 Kozel Property (Former O.N.E. Color Communications)  
 And Former Dunns 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>MW-D2</b>													
8/26/1988	1,600	-	-	-	-	-	-	-	-	-	-	-	-
1/18/1989	<1,000	-	6.5	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 <sup>a</sup> ; ND <sup>b</sup>	ND	ND	ND	-	-	-	-	-	-	-	-
6/10/1993	-	9,100 <sup>b</sup> ; 6,200 <sup>d</sup>	ND	ND	ND	-	-	-	-	-	-	-	-
9/24/1993	<50	ND <sup>a</sup> ; ND <sup>b</sup>	ND	ND	ND	-	-	-	-	-	-	-	-
9/29/1993	220	-	ND	ND	ND	-	-	-	-	-	-	-	-
12/10/1998	180	ND <sup>a</sup> ; ND <sup>b</sup> ; 95 <sup>d</sup> ; ND <sup>e</sup>	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	5.1(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

**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.

<sup>a</sup> = TPH-d; <sup>b</sup> = TEPH (non-diesel); <sup>c</sup> = TPH-g; <sup>d</sup> = TFPH (non-gasoline); <sup>e</sup> = Kerosene

\* indicates a grab sample.

# **APPENDIX A**

## Well Sampling Field Log



# WELL SAMPLING FIELD LOG

Project Name and Address: KOROL  
 Job #: 3942 Date of sampling: 9/14/04  
 Well Name: B-1 Sampled by: OH  
 Total depth of well (feet): \_\_\_\_\_ Well diameter (inches): 2  
 Depth to water before sampling (feet): \_\_\_\_\_ Thickness of floating product if any: 6.14 / 6.18  
 Thickness of floating product if any: \_\_\_\_\_ Depth of well casing in water (feet): \_\_\_\_\_  
 Depth of well casing in water (feet): \_\_\_\_\_ Number of gallons per well casing volume (gallons): \_\_\_\_\_  
 Number of well casing volumes to be removed: \_\_\_\_\_  
 Req'd volume of groundwater to be purged before sampling (gallons): \_\_\_\_\_  
 Equipment used to purge the well: \_\_\_\_\_  
 Time Evacuation Began: \_\_\_\_\_ Time Evacuation Finished: \_\_\_\_\_  
 Approximate volume of groundwater purged: \_\_\_\_\_  
 Did the well go dry?: \_\_\_\_\_ After how many gallons: \_\_\_\_\_  
 Time samples were collected: \_\_\_\_\_  
 Depth to water at time of sampling: \_\_\_\_\_  
 Percent recovery at time of sampling: \_\_\_\_\_  
 Samples collected with: \_\_\_\_\_  
 Sample color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Description of sediment in sample: NS

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

## SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____





# WELL SAMPLING FIELD LOG

Project Name and Address: 11022  
 Job #: 3942 Date of sampling: 9/14/04  
 Well Name: B-3 Sampled by: DH  
 Total depth of well (feet): 24.2 Well diameter (inches): 2  
 Depth to water before sampling (feet): 5.63  
 Thickness of floating product if any: —  
 Depth of well casing in water (feet): 18.57  
 Number of gallons per well casing volume (gallons): 3  
 Number of well casing volumes to be removed: 3  
 Req'd volume of groundwater to be purged before sampling (gallons): 9  
 Equipment used to purge the well: BAILER  
 Time Evacuation Began: 1100 Time Evacuation Finished: 1120  
 Approximate volume of groundwater purged: 9  
 Did the well go dry?: NO After how many gallons: —  
 Time samples were collected: 1137  
 Depth to water at time of sampling: 9.10  
 Percent recovery at time of sampling: —  
 Samples collected with: BAILER  
 Sample color: — Odor: —  
 Description of sediment in sample: —

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
0	75.9	6.58	846
3	72.6	6.70	613
6	71.8	6.74	613
9	72.2	6.76	609

## SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
B-3	3	110ml VOA	HEC	Y	
B-3	1	1L AMBER	—	Y	





# WELL SAMPLING FIELD LOG

Project Name and Address: KOLEZ  
Job #: 3942 Date of sampling: 9/14/04  
Well Name: BES-1 Sampled by: DIF  
Total depth of well (feet): \_\_\_\_\_ Well diameter (inches): 2  
Depth to water before sampling (feet): 10.2 / 10.28  
Thickness of floating product if any: \_\_\_\_\_  
Depth of well casing in water (feet): 0.07 - PAILED CULVERT  
Number of gallons per well casing volume (gallons): \_\_\_\_\_  
Number of well casing volumes to be removed: \_\_\_\_\_  
Req'd volume of groundwater to be purged before sampling (gallons): \_\_\_\_\_  
Equipment used to purge the well: \_\_\_\_\_  
Time Evacuation Began: \_\_\_\_\_ Time Evacuation Finished: \_\_\_\_\_  
Approximate volume of groundwater purged: \_\_\_\_\_  
Did the well go dry?: \_\_\_\_\_ After how many gallons: \_\_\_\_\_  
Time samples were collected: \_\_\_\_\_  
Depth to water at time of sampling: \_\_\_\_\_  
Percent recovery at time of sampling: \_\_\_\_\_  
Samples collected with: \_\_\_\_\_  
Sample color: \_\_\_\_\_ Odor: \_\_\_\_\_  
Description of sediment in sample: \_\_\_\_\_

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

## SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

## **APPENDIX B**

Certified Analytical Report  
and  
Chain of Custody Documentation

**Aqua Science Engineers, Inc.**

September 27, 2004

208 West El Pintado  
Danville, CA 94526  
Attn.: Damian Hriciga  
Project#: 3976  
Project: Kozez

Dear Mr. Hriciga,

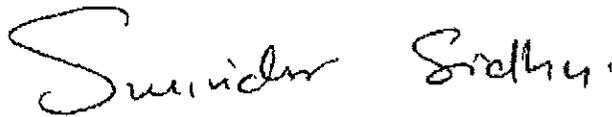
Attached is our report for your samples received on 09/17/2004 18:00  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
11/01/2004 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: 3976

Kozez

Received: 09/17/2004 18:00

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
B-2	09/14/2004 13:53	Water	1
B-3	09/14/2004 11:27	Water	2
B-4	09/14/2004 12:02	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

09/24/2004 12:57

Page 1 of 6

**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: 3976

Kozez

Received: 09/17/2004 18:00

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: <b>B-2</b>	Lab ID: 2004-09-0543 - 1
Sampled: 09/14/2004 13:53	Extracted: 9/21/2004 12:03
Matrix: Water	QC Batch#: 2004/09/21-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mineral spirits	410	50	ug/L	1.00	09/22/2004 15:52	
<b>Surrogate(s)</b> o-Terphenyl	71.5	50-120	%	1.00	09/22/2004 15:52	

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

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

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Danville, CA 94526

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

Project: 3976

Kozez

Received: 09/17/2004 18:00

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: B-3	Lab ID: 2004-09-0543 - 2
Sampled: 09/14/2004 11:27	Extracted: 9/21/2004 12:03
Matrix: Water	QC Batch#: 2004/09/21-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mineral spirits	ND	50	ug/L	1.00	09/22/2004 16:20	
<b>Surrogate(s)</b> o-Terphenyl	73.8	50-120	%	1.00	09/22/2004 16:20	

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

Aqua Science Engineers, Inc.

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Project: 3976

Kozez

Received: 09/17/2004 18:00

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: B-4	Lab ID: 2004-09-0543 - 3
Sampled: 09/14/2004 12:02	Extracted: 9/21/2004 12:03
Matrix: Water	QC Batch#: 2004/09/21-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mineral spirits	400	50	ug/L	1.00	09/22/2004 15:19	
<b>Surrogate(s)</b>						
o-Terphenyl	64.3	50-120	%	1.00	09/22/2004 15:19	

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

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

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Danville, CA 94526

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Project: 3976

Kozez

Received: 09/17/2004 18:00

**Batch QC Report**

Prep(s): 3510/8015M

Method Blank

MB: 2004/09/21-03.10-004

Water

Test(s): 8015M

QC Batch # 2004/09/21-03.10

Date Extracted: 09/21/2004 12:03

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	09/22/2004 13:04	
Mineral spirits	ND	50	ug/L	09/22/2004 13:04	
<b>Surrogates(s)</b> o-Terphenyl	80.7	60-130	%	09/22/2004 13:04	

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**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: 3976  
Kozez

Received: 09/17/2004 18:00

**Batch QC Report**

Prep(s): 3510/8015M

Test(s): 8015M

**Laboratory Control Spike**

**Water**

**QC Batch # 2004/09/21-03.10**

LCS 2004/09/21-03.10-002  
LCSD 2004/09/21-03.10-003

Extracted: 09/21/2004  
Extracted: 09/21/2004

Analyzed: 09/22/2004 13:31  
Analyzed: 09/22/2004 13:59

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	863	852	1000	86.3	85.2	1.3	60-130	25		
Surrogates(s) o-Terphenyl	18.4	18.5	20.0	92.1	92.7		60-130	0		

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09/24/2004 12:57

**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: 3976

Kozez

Received: 09/17/2004 18:00

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
B-2	09/14/2004 13:53	Water	1
B-3	09/14/2004 11:27	Water	2
B-4	09/14/2004 12:02	Water	3

Severn Trent Laboratories, Inc.

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

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A part of Severn Trent Plc

09/24/2004 16:24

Page 1 of 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: 3976  
 Kozez

Received: 09/17/2004 18:00

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B-2	Lab ID:	2004-09-0543 - 1
Sampled:	09/14/2004 13:53	Extracted:	9/24/2004 13:07
Matrix:	Water	QC Batch#:	2004/09/24-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	50	ug/L	10.00	09/24/2004 13:07	
Acetone	ND	500	ug/L	10.00	09/24/2004 13:07	
Benzene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
Bromodichloromethane	ND	5.0	ug/L	10.00	09/24/2004 13:07	
Bromobenzene	ND	10	ug/L	10.00	09/24/2004 13:07	
Bromochloromethane	ND	10	ug/L	10.00	09/24/2004 13:07	
Bromoform	ND	5.0	ug/L	10.00	09/24/2004 13:07	
Bromomethane	ND	10	ug/L	10.00	09/24/2004 13:07	
2-Butanone(MEK)	ND	500	ug/L	10.00	09/24/2004 13:07	
n-Butylbenzene	ND	10	ug/L	10.00	09/24/2004 13:07	
sec-Butylbenzene	ND	10	ug/L	10.00	09/24/2004 13:07	
tert-Butylbenzene	ND	10	ug/L	10.00	09/24/2004 13:07	
Carbon disulfide	ND	50	ug/L	10.00	09/24/2004 13:07	
Carbon tetrachloride	ND	5.0	ug/L	10.00	09/24/2004 13:07	
Chlorobenzene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
Chloroethane	ND	10	ug/L	10.00	09/24/2004 13:07	
2-Chloroethylvinyl ether	ND	50	ug/L	10.00	09/24/2004 13:07	
Chloroform	ND	10	ug/L	10.00	09/24/2004 13:07	
Chloromethane	ND	10	ug/L	10.00	09/24/2004 13:07	
2-Chlorotoluene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
4-Chlorotoluene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
Dibromochloromethane	ND	5.0	ug/L	10.00	09/24/2004 13:07	
1,2-Dichlorobenzene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
1,3-Dichlorobenzene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
1,4-Dichlorobenzene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
1,3-Dichloropropane	ND	10	ug/L	10.00	09/24/2004 13:07	
2,2-Dichloropropane	ND	5.0	ug/L	10.00	09/24/2004 13:07	
1,1-Dichloropropene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
1,2-Dibromo-3-chloropropane	ND	10	ug/L	10.00	09/24/2004 13:07	
1,2-Dibromoethane	ND	5.0	ug/L	10.00	09/24/2004 13:07	

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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: 3976

Kozez

Received: 09/17/2004 18:00

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B-2	Lab ID:	2004-09-0543 - 1
Sampled:	09/14/2004 13:53	Extracted:	9/24/2004 13:07
Matrix:	Water	QC Batch#:	2004/09/24-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dibromomethane	ND	5.0	ug/L	10.00	09/24/2004 13:07	
Dichlorodifluoromethane	ND	5.0	ug/L	10.00	09/24/2004 13:07	
1,1-Dichloroethane	ND	5.0	ug/L	10.00	09/24/2004 13:07	
1,2-Dichloroethane	ND	5.0	ug/L	10.00	09/24/2004 13:07	
1,1-Dichloroethene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
cis-1,2-Dichloroethene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
trans-1,2-Dichloroethene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
1,2-Dichloropropane	ND	5.0	ug/L	10.00	09/24/2004 13:07	
cis-1,3-Dichloropropene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
trans-1,3-Dichloropropene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
Ethylbenzene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
Hexachlorobutadiene	ND	10	ug/L	10.00	09/24/2004 13:07	
2-Hexanone	ND	500	ug/L	10.00	09/24/2004 13:07	
Isopropylbenzene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
p-Isopropyltoluene	ND	10	ug/L	10.00	09/24/2004 13:07	
Methylene chloride	ND	50	ug/L	10.00	09/24/2004 13:07	
4-Methyl-2-pentanone (MIBK)	ND	500	ug/L	10.00	09/24/2004 13:07	
Naphthalene	ND	10	ug/L	10.00	09/24/2004 13:07	
n-Propylbenzene	ND	10	ug/L	10.00	09/24/2004 13:07	
Styrene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	10.00	09/24/2004 13:07	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	10.00	09/24/2004 13:07	
Tetrachloroethene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
Toluene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
1,2,3-Trichlorobenzene	ND	10	ug/L	10.00	09/24/2004 13:07	
1,2,4-Trichlorobenzene	ND	10	ug/L	10.00	09/24/2004 13:07	
1,1,1-Trichloroethane	ND	5.0	ug/L	10.00	09/24/2004 13:07	
1,1,2-Trichloroethane	ND	5.0	ug/L	10.00	09/24/2004 13:07	
Trichloroethene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
Trichlorofluoromethane	ND	10	ug/L	10.00	09/24/2004 13:07	

Severn 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

Received: 09/17/2004 18:00

Project: 3976  
Kozez

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-2	Lab ID: 2004-09-0543 - 1
Sampled: 09/14/2004 13:53	Extracted: 9/24/2004 13:07
Matrix: Water	QC Batch#: 2004/09/24-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Trichlorotrifluoroethane	ND	5.0	ug/L	10.00	09/24/2004 13:07	
1,2,4-Trimethylbenzene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
1,3,5-Trimethylbenzene	ND	5.0	ug/L	10.00	09/24/2004 13:07	
Vinyl acetate	ND	250	ug/L	10.00	09/24/2004 13:07	
Vinyl chloride	ND	5.0	ug/L	10.00	09/24/2004 13:07	
Total xylenes	ND	10	ug/L	10.00	09/24/2004 13:07	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	95.2	79-118	%	10.00	09/24/2004 13:07	
1,2-Dichloroethane-d4	96.8	78-117	%	10.00	09/24/2004 13:07	
Toluene-d8	94.6	77-121	%	10.00	09/24/2004 13:07	

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Page 4 of 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: 3976  
 Kozez

Received: 09/17/2004 18:00

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B-3	Lab ID:	2004-09-0543 - 2
Sampled:	09/14/2004 11:27	Extracted:	9/24/2004 13:40
Matrix:	Water	QC Batch#:	2004/09/24-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	09/24/2004 13:40	
Acetone	ND	50	ug/L	1.00	09/24/2004 13:40	
Benzene	ND	0.50	ug/L	1.00	09/24/2004 13:40	
Bromodichloromethane	ND	0.50	ug/L	1.00	09/24/2004 13:40	
Bromobenzene	ND	1.0	ug/L	1.00	09/24/2004 13:40	
Bromochloromethane	ND	1.0	ug/L	1.00	09/24/2004 13:40	
Bromoform	ND	0.50	ug/L	1.00	09/24/2004 13:40	
Bromomethane	ND	1.0	ug/L	1.00	09/24/2004 13:40	
2-Butanone(MEK)	ND	50	ug/L	1.00	09/24/2004 13:40	
n-Butylbenzene	ND	1.0	ug/L	1.00	09/24/2004 13:40	
sec-Butylbenzene	ND	1.0	ug/L	1.00	09/24/2004 13:40	
tert-Butylbenzene	ND	1.0	ug/L	1.00	09/24/2004 13:40	
Carbon disulfide	ND	5.0	ug/L	1.00	09/24/2004 13:40	
Carbon tetrachloride	ND	0.50	ug/L	1.00	09/24/2004 13:40	
Chlorobenzene	ND	0.50	ug/L	1.00	09/24/2004 13:40	
Chloroethane	ND	1.0	ug/L	1.00	09/24/2004 13:40	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	09/24/2004 13:40	
Chloroform	ND	1.0	ug/L	1.00	09/24/2004 13:40	
Chloromethane	ND	1.0	ug/L	1.00	09/24/2004 13:40	
2-Chlorotoluene	ND	0.50	ug/L	1.00	09/24/2004 13:40	
4-Chlorotoluene	ND	0.50	ug/L	1.00	09/24/2004 13:40	
Dibromochloromethane	ND	0.50	ug/L	1.00	09/24/2004 13:40	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	09/24/2004 13:40	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	09/24/2004 13:40	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	09/24/2004 13:40	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	09/24/2004 13:40	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	09/24/2004 13:40	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	09/24/2004 13:40	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	09/24/2004 13:40	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	09/24/2004 13:40	

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

09/24/2004 16:24

**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: 3976  
 Kozez

Received: 09/17/2004 18:00

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-3	Lab ID: 2004-09-0543 - 2
Sampled: 09/14/2004 11:27	Extracted: 9/24/2004 13:40
Matrix: Water	QC Batch#: 2004/09/24-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dibromomethane	ND	0.50	ug/L	1.00	09/24/2004 13:40	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	09/24/2004 13:40	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	09/24/2004 13:40	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	09/24/2004 13:40	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	09/24/2004 13:40	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/24/2004 13:40	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/24/2004 13:40	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	09/24/2004 13:40	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/24/2004 13:40	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/24/2004 13:40	
Ethylbenzene	ND	0.50	ug/L	1.00	09/24/2004 13:40	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	09/24/2004 13:40	
2-Hexanone	ND	50	ug/L	1.00	09/24/2004 13:40	
Isopropylbenzene	ND	0.50	ug/L	1.00	09/24/2004 13:40	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	09/24/2004 13:40	
Methylene chloride	ND	5.0	ug/L	1.00	09/24/2004 13:40	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	09/24/2004 13:40	
Naphthalene	ND	1.0	ug/L	1.00	09/24/2004 13:40	
n-Propylbenzene	ND	1.0	ug/L	1.00	09/24/2004 13:40	
Styrene	ND	0.50	ug/L	1.00	09/24/2004 13:40	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/24/2004 13:40	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/24/2004 13:40	
Tetrachloroethene	ND	0.50	ug/L	1.00	09/24/2004 13:40	
Toluene	ND	0.50	ug/L	1.00	09/24/2004 13:40	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	09/24/2004 13:40	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	09/24/2004 13:40	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	09/24/2004 13:40	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	09/24/2004 13:40	
Trichloroethene	ND	0.50	ug/L	1.00	09/24/2004 13:40	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	09/24/2004 13:40	

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09/24/2004 16 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: 3976  
 Kozex

Received: 09/17/2004 18:00

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B-4	Lab ID:	2004-09-0543 - 3
Sampled:	09/14/2004 12:02	Extracted:	9/24/2004 14:13
Matrix:	Water	QC Batch#:	2004/09/24-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	50	ug/L	10.00	09/24/2004 14:13	
Acetone	ND	500	ug/L	10.00	09/24/2004 14:13	
Benzene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
Bromodichloromethane	ND	5.0	ug/L	10.00	09/24/2004 14:13	
Bromobenzene	ND	10	ug/L	10.00	09/24/2004 14:13	
Bromochloromethane	ND	10	ug/L	10.00	09/24/2004 14:13	
Bromoform	ND	5.0	ug/L	10.00	09/24/2004 14:13	
Bromomethane	ND	10	ug/L	10.00	09/24/2004 14:13	
2-Butanone(MEK)	ND	500	ug/L	10.00	09/24/2004 14:13	
n-Butylbenzene	ND	10	ug/L	10.00	09/24/2004 14:13	
sec-Butylbenzene	ND	10	ug/L	10.00	09/24/2004 14:13	
tert-Butylbenzene	ND	10	ug/L	10.00	09/24/2004 14:13	
Carbon disulfide	ND	50	ug/L	10.00	09/24/2004 14:13	
Carbon tetrachloride	ND	5.0	ug/L	10.00	09/24/2004 14:13	
Chlorobenzene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
Chloroethane	ND	10	ug/L	10.00	09/24/2004 14:13	
2-Chloroethylvinyl ether	ND	50	ug/L	10.00	09/24/2004 14:13	
Chloroform	ND	10	ug/L	10.00	09/24/2004 14:13	
Chloromethane	ND	10	ug/L	10.00	09/24/2004 14:13	
2-Chlorotoluene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
4-Chlorotoluene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
Dibromochloromethane	ND	5.0	ug/L	10.00	09/24/2004 14:13	
1,2-Dichlorobenzene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
1,3-Dichlorobenzene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
1,4-Dichlorobenzene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
1,3-Dichloropropane	ND	10	ug/L	10.00	09/24/2004 14:13	
2,2-Dichloropropane	ND	5.0	ug/L	10.00	09/24/2004 14:13	
1,1-Dichloropropene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
1,2-Dibromo-3-chloropropane	ND	10	ug/L	10.00	09/24/2004 14:13	
1,2-Dibromoethane	ND	5.0	ug/L	10.00	09/24/2004 14:13	

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09/24/2004 16:24

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

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

 208 West El Pintado  
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 Project: 3976  
 Kozez

Received: 09/17/2004 18:00

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-4	Lab ID: 2004-09-0543 - 3
Sampled: 09/14/2004 12:02	Extracted: 9/24/2004 14:13
Matrix: Water	QC Batch#: 2004/09/24-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dibromomethane	ND	5.0	ug/L	10.00	09/24/2004 14:13	
Dichlorodifluoromethane	ND	5.0	ug/L	10.00	09/24/2004 14:13	
1,1-Dichloroethane	ND	5.0	ug/L	10.00	09/24/2004 14:13	
1,2-Dichloroethane	ND	5.0	ug/L	10.00	09/24/2004 14:13	
1,1-Dichloroethene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
cis-1,2-Dichloroethene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
trans-1,2-Dichloroethene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
1,2-Dichloropropane	ND	5.0	ug/L	10.00	09/24/2004 14:13	
cis-1,3-Dichloropropene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
trans-1,3-Dichloropropene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
Ethylbenzene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
Hexachlorobutadiene	ND	10	ug/L	10.00	09/24/2004 14:13	
2-Hexanone	ND	500	ug/L	10.00	09/24/2004 14:13	
Isopropylbenzene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
p-Isopropyltoluene	ND	10	ug/L	10.00	09/24/2004 14:13	
Methylene chloride	ND	50	ug/L	10.00	09/24/2004 14:13	
4-Methyl-2-pentanone (MIBK)	ND	500	ug/L	10.00	09/24/2004 14:13	
Naphthalene	ND	10	ug/L	10.00	09/24/2004 14:13	
n-Propylbenzene	ND	10	ug/L	10.00	09/24/2004 14:13	
Styrene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	10.00	09/24/2004 14:13	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	10.00	09/24/2004 14:13	
Tetrachloroethene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
Toluene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
1,2,3-Trichlorobenzene	ND	10	ug/L	10.00	09/24/2004 14:13	
1,2,4-Trichlorobenzene	ND	10	ug/L	10.00	09/24/2004 14:13	
1,1,1-Trichloroethane	ND	5.0	ug/L	10.00	09/24/2004 14:13	
1,1,2-Trichloroethane	ND	5.0	ug/L	10.00	09/24/2004 14:13	
Trichloroethene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
Trichlorofluoromethane	ND	10	ug/L	10.00	09/24/2004 14:13	

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09/24/2004 16:24

**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: 3976  
Kozez

Received: 09/17/2004 18:00

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-4	Lab ID: 2004-09-0543 - 3
Sampled: 09/14/2004 12:02	Extracted: 9/24/2004 14:13
Matrix: Water	QC Batch#: 2004/09/24-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Trichlorotrifluoroethane	ND	5.0	ug/L	10.00	09/24/2004 14:13	
1,2,4-Trimethylbenzene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
1,3,5-Trimethylbenzene	ND	5.0	ug/L	10.00	09/24/2004 14:13	
Vinyl acetate	ND	250	ug/L	10.00	09/24/2004 14:13	
Vinyl chloride	ND	5.0	ug/L	10.00	09/24/2004 14:13	
Total xylenes	ND	10	ug/L	10.00	09/24/2004 14:13	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	96.7	79-118	%	10.00	09/24/2004 14:13	
1,2-Dichloroethane-d4	91.4	78-117	%	10.00	09/24/2004 14:13	
Toluene-d8	96.1	77-121	%	10.00	09/24/2004 14:13	

Severn Trent Laboratories, Inc.

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09/24/2004 16:24

**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: 3976  
 Kozez

Received: 09/17/2004 18:00

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/09/24-01.60-005

Water

Test(s): 8260B

QC Batch # 2004/09/24-01.60

Date Extracted: 09/24/2004 11:05

Compound	Conc.	RL	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	09/24/2004 11:05	
Acetone	ND	50	ug/L	09/24/2004 11:05	
Benzene	ND	0.5	ug/L	09/24/2004 11:05	
Bromodichloromethane	ND	0.5	ug/L	09/24/2004 11:05	
Bromobenzene	ND	1.0	ug/L	09/24/2004 11:05	
Bromochloromethane	ND	1.0	ug/L	09/24/2004 11:05	
Bromochloromethane	ND	0.5	ug/L	09/24/2004 11:05	
Bromoform	ND	1.0	ug/L	09/24/2004 11:05	
Bromomethane	ND	1.0	ug/L	09/24/2004 11:05	
2-Butanone(MEK)	ND	50	ug/L	09/24/2004 11:05	
n-Butylbenzene	ND	1.0	ug/L	09/24/2004 11:05	
sec-Butylbenzene	ND	1.0	ug/L	09/24/2004 11:05	
tert-Butylbenzene	ND	1.0	ug/L	09/24/2004 11:05	
Carbon disulfide	ND	5.0	ug/L	09/24/2004 11:05	
Carbon tetrachloride	ND	0.5	ug/L	09/24/2004 11:05	
Chlorobenzene	ND	0.5	ug/L	09/24/2004 11:05	
Chloroethane	ND	1.0	ug/L	09/24/2004 11:05	
2-Chloroethylvinyl ether	ND	5.0	ug/L	09/24/2004 11:05	
Chloroform	ND	1.0	ug/L	09/24/2004 11:05	
Chloromethane	ND	1.0	ug/L	09/24/2004 11:05	
2-Chlorotoluene	ND	0.5	ug/L	09/24/2004 11:05	
4-Chlorotoluene	ND	0.5	ug/L	09/24/2004 11:05	
Dibromochloromethane	ND	0.5	ug/L	09/24/2004 11:05	
1,2-Dichlorobenzene	ND	0.5	ug/L	09/24/2004 11:05	
1,3-Dichlorobenzene	ND	0.5	ug/L	09/24/2004 11:05	
1,4-Dichlorobenzene	ND	0.5	ug/L	09/24/2004 11:05	
1,3-Dichloropropane	ND	1.0	ug/L	09/24/2004 11:05	
2,2-Dichloropropane	ND	0.5	ug/L	09/24/2004 11:05	
1,1-Dichloropropene	ND	0.5	ug/L	09/24/2004 11:05	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	09/24/2004 11:05	
1,2-Dibromoethane	ND	0.5	ug/L	09/24/2004 11:05	

Severn Trent Laboratories, Inc.

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09/24/2004 16:24

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

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

 208 West El Pintado  
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 Project: 3976  
 Kozez

Received: 09/17/2004 18:00

**Batch QC Report**

Prep(s): 5030B

**Method Blank**

MB: 2004/09/24-01.60-005

**Water**

Test(s): 8260B

**QC Batch # 2004/09/24-01.60**

Date Extracted: 09/24/2004 11:05

Compound	Conc.	RL	Unit	Analyzed	Flag
Dibromomethane	ND	0.5	ug/L	09/24/2004 11:05	
Dichlorodifluoromethane	ND	0.5	ug/L	09/24/2004 11:05	
1,1-Dichloroethane	ND	0.5	ug/L	09/24/2004 11:05	
1,2-Dichloroethane	ND	0.5	ug/L	09/24/2004 11:05	
1,1-Dichloroethene	ND	0.5	ug/L	09/24/2004 11:05	
cis-1,2-Dichloroethene	ND	0.5	ug/L	09/24/2004 11:05	
trans-1,2-Dichloroethene	ND	0.5	ug/L	09/24/2004 11:05	
1,2-Dichloropropane	ND	0.5	ug/L	09/24/2004 11:05	
cis-1,3-Dichloropropene	ND	0.5	ug/L	09/24/2004 11:05	
trans-1,3-Dichloropropene	ND	0.5	ug/L	09/24/2004 11:05	
Ethylbenzene	ND	0.5	ug/L	09/24/2004 11:05	
Hexachlorobutadiene	ND	1.0	ug/L	09/24/2004 11:05	
2-Hexanone	ND	50	ug/L	09/24/2004 11:05	
Isopropylbenzene	ND	0.5	ug/L	09/24/2004 11:05	
p-Isopropyltoluene	ND	1.0	ug/L	09/24/2004 11:05	
Methylene chloride	ND	5.0	ug/L	09/24/2004 11:05	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	09/24/2004 11:05	
Naphthalene	ND	1.0	ug/L	09/24/2004 11:05	
n-Propylbenzene	ND	1.0	ug/L	09/24/2004 11:05	
Styrene	ND	0.5	ug/L	09/24/2004 11:05	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	09/24/2004 11:05	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	09/24/2004 11:05	
Tetrachloroethene	ND	0.5	ug/L	09/24/2004 11:05	
Toluene	ND	0.5	ug/L	09/24/2004 11:05	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	09/24/2004 11:05	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	09/24/2004 11:05	
1,1,1-Trichloroethane	ND	0.5	ug/L	09/24/2004 11:05	
1,1,2-Trichloroethane	ND	0.5	ug/L	09/24/2004 11:05	
Trichloroethene	ND	0.5	ug/L	09/24/2004 11:05	
Trichlorofluoromethane	ND	1.0	ug/L	09/24/2004 11:05	
Trichlorotrifluoroethane	ND	0.5	ug/L	09/24/2004 11:05	

09/24/2004 16:24

Severn Trent Laboratories, Inc.

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

Aqua Science Engineers, Inc.

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Project: 3976

Kozez

Received: 09/17/2004 18:00

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/09/24-01.60-005

Water

Test(s): 8260B

QC Batch # 2004/09/24-01.60

Date Extracted: 09/24/2004 11:05

Compound	Conc.	RL	Unit	Analyzed	Flag
1,2,4-Trimethylbenzene	ND	0.5	ug/L	09/24/2004 11:05	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	09/24/2004 11:05	
Vinyl acetate	ND	25	ug/L	09/24/2004 11:05	
Vinyl chloride	ND	0.5	ug/L	09/24/2004 11:05	
Total xylenes	ND	1.0	ug/L	09/24/2004 11:05	
<b>Surrogates(s)</b>					
4-Bromofluorobenzene	98.0	79-118	%	09/24/2004 11:05	
1,2-Dichloroethane-d4	88.2	78-117	%	09/24/2004 11:05	
Toluene-d8	92.3	77-121	%	09/24/2004 11:05	

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

Aqua Science Engineers, Inc.  
Attn.: Damian Hriciga

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Danville, CA 94526  
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3976  
Kozez

Received: 09/17/2004 18:00

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2004/09/24-01.60**

LCS 2004/09/24-01.60-021

Extracted: 09/24/2004

Analyzed: 09/24/2004 08:21

LCSD 2004/09/24-01.60-055

Extracted: 09/24/2004

Analyzed: 09/24/2004 08:55

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	21.4	20.9	20.0	107.0	104.5	2.4	69-129	20		
Chlorobenzene	22.8	22.3	20.0	114.0	111.5	2.2	61-121	20		
1,1-Dichloroethene	20.7	20.1	20.0	103.5	100.5	2.9	65-125	20		
Toluene	21.4	21.2	20.0	107.0	106.0	0.9	70-130	20		
Trichloroethene	20.5	19.9	20.0	102.5	99.5	3.0	74-134	20		
<b>Surrogates(s)</b>										
4-Bromofluorobenzene	485	493	500	97.0	98.6		79-118			
1,2-Dichloroethane-d4	470	488	500	94.0	97.6		78-117			
Toluene-d8	462	478	500	92.4	95.6		77-121			

Severn Trent Laboratories, Inc.

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09/24/2004 16.24

2004-09-0543



STL San Francisco Chain of Custody  
 1220 Quarry Lane • Pleasanton CA 94566-4756  
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 Email: sflogin@stl-inc.com

Reference #: 88976

Date 9/14/04 Page 1 of 1

Report To					Analysis Request																																				
Attn: DAMIAN HEPIC 164 Company: AQUA SCIENCE ENGINEERS Address: 208 W 02 PINTADO Phone: 925.830.9391 Email:					<input type="checkbox"/> TPH EPA <input type="checkbox"/> Gas w/		<input type="checkbox"/> BTEX <input type="checkbox"/> MTBE		<input type="checkbox"/> Purgeable Aromatics <input type="checkbox"/> BTEX EPA		<input checked="" type="checkbox"/> EPA 8161/8162 <input type="checkbox"/> Silica Gel <input type="checkbox"/> Other		<input type="checkbox"/> Fuel Test EPA 8082 <input type="checkbox"/> Five Dyes-Test		<input type="checkbox"/> Purgeable Hydrocarbons <input type="checkbox"/> HVOCS		<input type="checkbox"/> Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B		<input type="checkbox"/> Semivolatiles GC/MS <input type="checkbox"/> EPA 8270		<input type="checkbox"/> Oil and Grease <input type="checkbox"/> Petroleum (EPA 1604)		<input type="checkbox"/> Pesticides <input type="checkbox"/> EPA 8211 <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 600		<input type="checkbox"/> PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310		<input type="checkbox"/> CAM17 Metals <input type="checkbox"/> EPA 601/617(07471)		<input type="checkbox"/> Metals <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> CRCA <input type="checkbox"/> Other		<input type="checkbox"/> Low Level Metals by EPA 230.65/231 <input type="checkbox"/> (CP-ASV)		<input type="checkbox"/> WE T (STLC) <input type="checkbox"/> TCLP		<input type="checkbox"/> Hexavalent Chromium <input type="checkbox"/> pH (24h hold time for H <sub>2</sub> O)		<input type="checkbox"/> Sulfate <input type="checkbox"/> TSS <input type="checkbox"/> Alkalinity <input type="checkbox"/> TDS		<input type="checkbox"/> Anions <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>		Number of Containers
Sample ID	Date	Time	Mat Rx	Pres on.																																					
B-2	9/14/04	1353	W	3064																									5												
B-3	9/14/04	1127	W	3064																									4												
B-4	9/14/04	1202	W	3064																									4												

<b>Project Info</b> Project Name: K0202 Project #: 3976 PO#: Credit Card#:		<b>Sample Receipt</b> # of Containers: 12 Head Space: Temp: 4°C Conforms to record:		<b>1) Relinquished by:</b> Signature: [Signature] Time: 8:00 Printed Name: DAMIAN HEPIC 164 Date: 9/17/04 Company: ARE		<b>2) Relinquished by:</b> Signature: [Signature] Time: 18:00 Printed Name: MOSA Date: 09-17-04 Company: STL S.F.		<b>3) Relinquished by:</b> Signature: _____ Time: _____ Printed Name: _____ Date: _____ Company: _____	
<b>1) Received by:</b> Signature: [Signature] Time: 09:10 Printed Name: MOSA Date: 09-17-04 Company: STL S.F.		<b>2) Received by:</b> Signature: [Signature] Time: 18:00 Printed Name: T. Bullock Date: 9/17/04 Company: STL-SF		<b>3) Received by:</b> Signature: _____ Time: _____ Printed Name: _____ Date: _____ Company: _____					

See Terms and Conditions on reverse  
 \*STL SF reports R015M from C-11 (industry name) Default for R015M is C-11