



100-79

August 8, 2005

Alameda County  
NOV 15 2005  
Environmental Health

QUARTERLY GROUNDWATER MONITORING REPORT  
JUNE 2005 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 site is also located in Emeryville, California as the city limit runs through the subject property.

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

On June 27, 2005, ASE measured the depth to water in monitoring wells MW-B2, MW-B3, MW-B4 and BES-1 using an electric water level sounder. Monitoring well MW-B1 had been recently covered with a new concrete sidewalk installed by the developer of the property to the south as a part of that site's development as a residential community. 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 BES-1 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 closure 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 south with an approximate gradient of 0.012 feet/foot.

## **3.0 MONITORING WELL SAMPLING**

On June 27, 2005, ASE collected groundwater samples from monitoring wells MW-B2, MW-B3, and MW-B4 for analysis. Monitoring well MW-B1 was not sampled because it was beneath new concrete, and BES-1 was 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.

##### 4.1 Mineral Spirit Results

- The groundwater sample collected from monitoring well MW-B2 contained 4,300 parts per billion (ppb) TPH-MS. The groundwater sample collected from monitoring well MW-B4 contained 2,800 ppb TPH-MS. No TPH-MS was detected in the groundwater sample collected from MW-B3.

##### 4.2 VOC Results

- The groundwater sample collected from monitoring well MW-B2 contained 5.9 ppb tert-butylbenzene, 4.7 ppb sec-butylbenzene, and 2.2 ppb vinyl chloride. No other VOCs were detected in the groundwater sample from monitoring well MW-B2.
- The groundwater sample collected from monitoring well MW-B3 contained 0.50 ppb 1,1,1-TCA and 3.4 ppb TCE. This is the first quarter that these compounds have been detected in MW-B3. No other VOCs were detected in the groundwater sample from monitoring well MW-B3

- The groundwater sample collected from monitoring well MW-B4 contained 7.1 ppb tert-butylbenzene, 3.0 ppb sec-butylbenzene, and 1.9 ppb vinyl chloride. No other VOCs were detected in the groundwater sample from monitoring well MW-B4.

## **5.0 CONCLUSIONS**

Monitoring BES-1 contained a measurable thickness of free-floating hydrocarbons this quarter, which is consistent with previous quarters. The free-floating hydrocarbons were bailed from the well and contained in a drum on-site. The TPH-MS concentration in MW-B2 decreased one order of magnitude; the TPH-MS concentration in MW-B4 was very similar to last quarter. All of the detected VOC compounds in MW-B2 and MW-B4 were very similar to last quarter's results. The detections of 1,1,1-TCA and TCE in MW-B3 are the first ever for this well. None of the hydrocarbon or VOC 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 September 2005. Additionally, ASE will be performing the additional soil and groundwater assessment described in ASE's workplan dated April 26, 2005 during the next quarter.

## **7.0 REPORT LIMITATIONS**

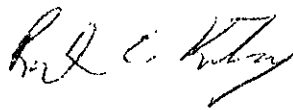
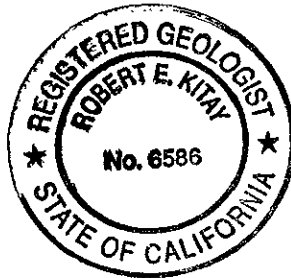
The results presented in this report represent conditions at the time of the groundwater sampling, at the specific locations where the samples were collected, and for the specific parameters analyzed by the laboratory. It does not fully characterize the site for contamination resulting from unknown sources, 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.



David Allen, R.E.A.  
Senior Project Manager



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. Thomas Trapp, Barg Coffin Lewis & Trapp, LLP, One Market, Steuart Tower, Suite 2700, San Francisco, CA 94105-1475

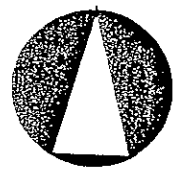
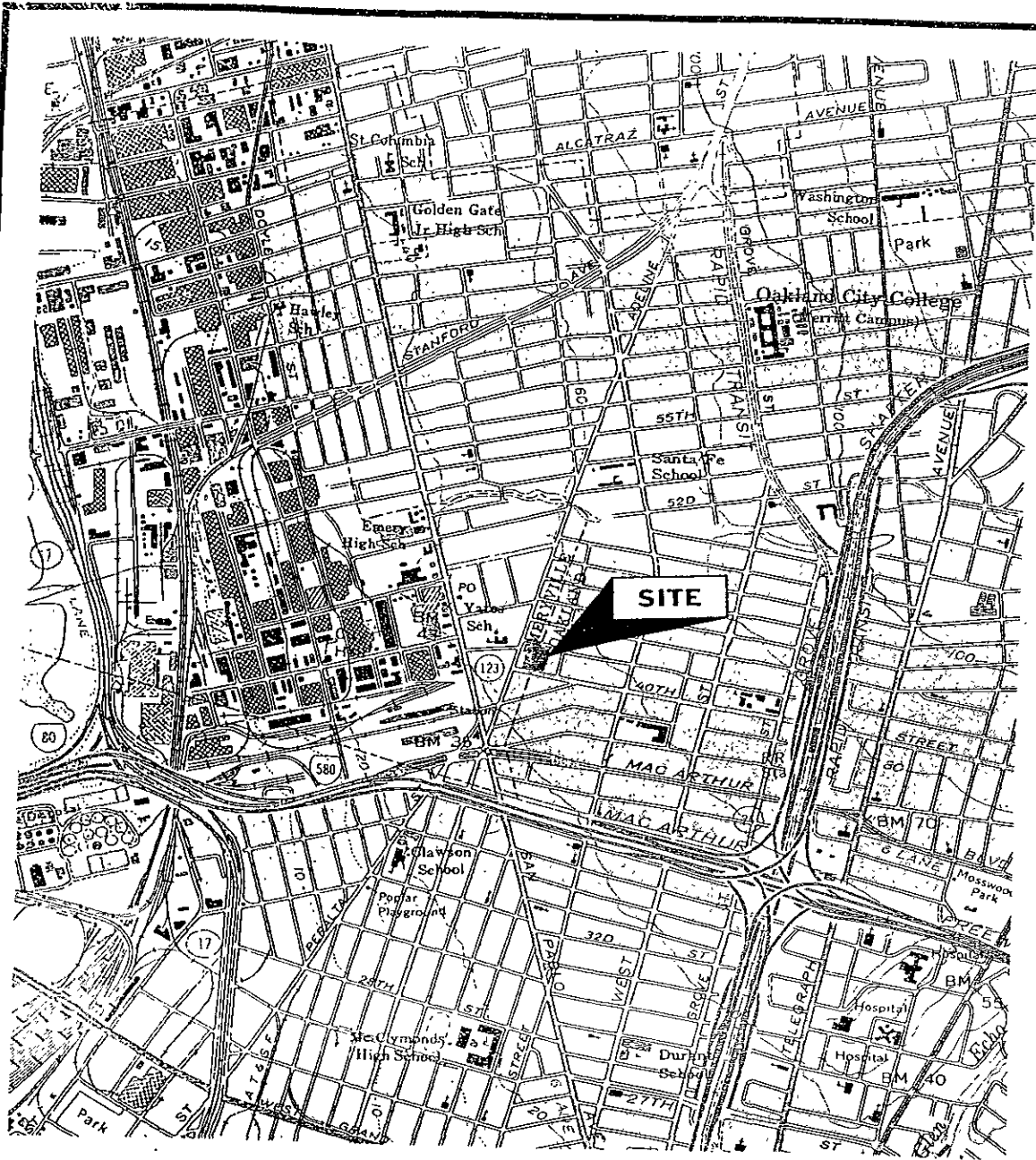
Mr. Steve Goldberg, Friedmann Goldberg, LLP, 420 Aviation Boulevard, Suite 201, Santa Rosa, CA 95403

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

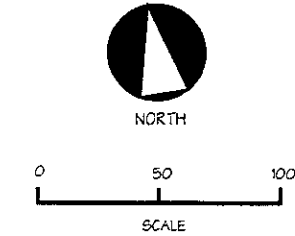
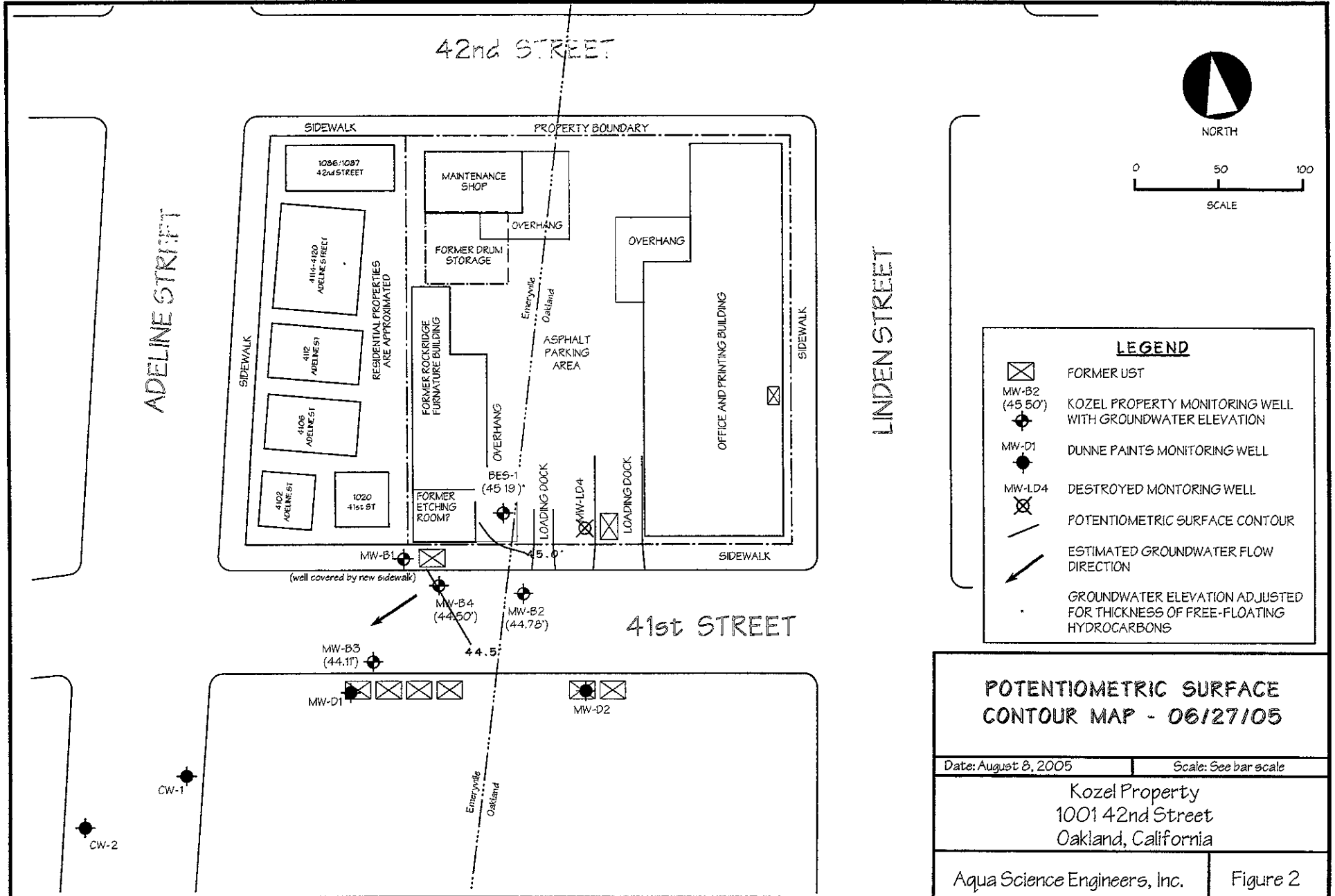
Ms. Betty Graham, California Regional Water Quality Control Board, San Francisco Bay Region, 1515 Clay Street, Suite 1400, Oakland, CA 94612

## **FIGURES**










NORTH

<h1>SITE LOCATION MAP</h1>	
Kozel Property 1001 42nd Street Oakland, California	
AQUA SCIENCE ENGINEERS, INC.	FIGURE 1



**LEGEND**

-  FORMER UST
-  MW-B2 (45.50') 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
-  GROUNDWATER ELEVATION ADJUSTED FOR THICKNESS OF FREE-FLOATING HYDROCARBONS

**POTENTIOMETRIC SURFACE CONTOUR MAP - 06/27/05**

Date: August 8, 2005	Scale: See bar scale
Kozel Property 1001 42nd Street Oakland, California	
Aqua Science Engineers, Inc.	Figure 2



# **TABLES**

**TABLE ONE**  
 Groundwater Elevation Data  
 Kozei 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>Former ONE Facility</b>						
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*	
	3/30/05		3.54	3.50	46.41*	
	6/27/05		Well covered with new concrete sidewalk			
	MW-B2		6/10/93	50.77	6.75	
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	
3/30/05		5.27			45.50	
6/27/05		5.99			44.78	
MW-B3		6/10/93	49.02		6.85	
	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	
	3/30/05	3.92			45.10	
	6/27/05	4.91			44.11	

**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
	12/16/04		5.24		44.50
	3/30/05		4.42		45.32
	6/27/05		5.24		44.50
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	54.27	7.94	7.92	46.35*
	3/30/05		7.15	7.12	47.14*
	6/27/05		9.1	9.12	45.186*

**TABLE ONE**  
 Groundwater Elevation Data  
 Kozel Property  
 100142nd 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 Palms</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		4.60		45.96
	11/12/03	49.32	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		5.68		44.88
	12/14/99		5.80		44.76
	11/12/03	50.52	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

**TABLE ONE**  
 Groundwater Elevation Data  
 Koze! Property  
 100142nd Street, Oakland, CA 94608

Well ID	Date of Measurement	Top of Casing Elevation (møl)	Depth to Water (feet)	Depth to Product (feet)	Groundwater Elevation (møl)
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
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		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  
 Kozei 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 ethane	cis-1,2-Dichloro ethane	Other VOCs
<b>Former O.N.E. 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							
3/30/2005						Not Sampled Due to Free Product (0.04-feet)							
6/27/2005						Not Sampled Due to New Concrete Sidewalk Poured Over Well							
<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
3/30/2005	14,000	-	< 0.5	< 0.5	< 1.0	5.8	4.1	< 1.0	2.2	< 0.5	< 0.5	< 0.5	< 0.5 - < 50
6/27/2005	4,300	-	< 0.5	< 0.5	< 1.0	5.9	4.7	< 1.0	2.2	< 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
3/30/2005	< 50	-	< 0.5	< 0.5	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 - < 50
6/27/2005	< 50	-	< 0.5	< 0.5	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	1,1,1-TCA @ 0.5 and TCE @ 3.4
<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
3/30/2005	3,000	-	< 0.5	< 0.5	< 1.0	6.5	2.0	< 1.0	1.3	< 0.5	< 0.5	< 0.5	< 0.5 - < 50
6/27/2005	2,800	-	< 0.5	< 0.5	< 1.0	7.1	3.0	< 1.0	1.9	< 0.5	< 0.5	< 0.5	< 0.5 - < 50



**TABLE TWO**  
 Summary of Analytical Results for GROUNDWATER Samples  
 Koze! Property (Former O.N.E. Color Communications)  
 And Former Dunne Quality Parts  
 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-02</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*, 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 - <5.0
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 - <5.0
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 - <5.0
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 - <5.0
<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 - <5.0
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 - <5.0
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 - <5.0
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 - <5.0
<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 - <5.0
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 - <5.0
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 - <5.0
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 - <5.0
<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 - <5.0
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 - <5.0
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 - <5.0
ESL	NE	VARIES	130	280	15	NE	NE	NE	40	47	580	530	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 = TPH (non-diesel), - = TPH-g, \* = TPHP (non-gasoline), \* = Kerosene

\* 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



# **APPENDIX A**

Well Sampling Field Log

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

PROJECT NAME Kozel

---

JOB NUMBER 3476 DATE OF SAMPLING 06.27.05

---

WELL ID. MW-B2 SAMPLER DA

---

TOTAL DEPTH OF WELL 235 WELL DIAMETER 2

---

DEPTH TO WATER PRIOR TO PURGING 5.99

---

PRODUCT THICKNESS 0

---

DEPTH OF WELL CASING IN WATER 17.51

---

NUMBER OF GALLONS PER WELL CASING VOLUME 2.8

---

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

---

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 8.5

---

EQUIPMENT USED TO PURGE WELL DISP. BAKER

---

TIME EVACUATION STARTED 0920 TIME EVACUATION COMPLETED 0930

---

TIME SAMPLES WERE COLLECTED 0932

---

DID WELL GO DRY NO AFTER HOW MANY GALLONS -

---

VOLUME OF GROUNDWATER PURGED 8.5

---

SAMPLING DEVICE DISP. BAKER

---

SAMPLE COLOR gray ODOR/SEDIMENT SMELL / SILT

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	67.1	6.83	675
2	66.6	6.83	670
3	65.7	6.85	671

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

PROJECT NAME <u>Kozec</u>	
JOB NUMBER <u>3976</u>	DATE OF SAMPLING <u>66.27.05</u>
WELL ID. <u>Mw-B3</u>	SAMPLER <u>DA</u>
TOTAL DEPTH OF WELL <u>24.2</u>	WELL DIAMETER <u>2</u>
DEPTH TO WATER PRIOR TO PURGING <u>4.91</u>	
PRODUCT THICKNESS <u>0</u>	
DEPTH OF WELL CASING IN WATER <u>19.29</u>	
NUMBER OF GALLONS PER WELL CASING VOLUME <u>308</u>	
NUMBER OF WELL CASING VOLUMES TO BE REMOVED <u>3</u>	
REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING <u>9.25</u>	
EQUIPMENT USED TO PURGE WELL <u>DISP. BAUER</u>	
TIME EVACUATION STARTED <u>0935</u>	TIME EVACUATION COMPLETED <u>0950</u>
TIME SAMPLES WERE COLLECTED <u>0952</u>	
DID WELL GO DRY <u>NO</u>	AFTER HOW MANY GALLONS <u>—</u>
VOLUME OF GROUNDWATER PURGED <u>9.25</u>	
SAMPLING DEVICE <u>DISP. BAUER</u>	
SAMPLE COLOR <u>LT. BROWN</u>	ODOR/SEDIMENT <u>NONE / SILT</u>

### CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	65.5	6.71	537
2	65.4	6.72	529
3	65.6	6.74	521

### SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

PROJECT NAME <u>K5222</u>	
JOB NUMBER <u>3976</u>	DATE OF SAMPLING <u>06.27.05</u>
WELL ID. <u>MW-B4</u>	SAMPLER <u>DA</u>
TOTAL DEPTH OF WELL <u>22.8</u>	WELL DIAMETER <u>2</u>
DEPTH TO WATER PRIOR TO PURGING <u>5.24</u>	
PRODUCT THICKNESS <u>0</u>	
DEPTH OF WELL CASING IN WATER <u>17.56</u>	
NUMBER OF GALLONS PER WELL CASING VOLUME <u>2.8</u>	
NUMBER OF WELL CASING VOLUMES TO BE REMOVED <u>3</u>	
REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING <u>8.5</u>	
EQUIPMENT USED TO PURGE WELL <u>DISP. BALLER</u>	
TIME EVACUATION STARTED <u>0903</u>	TIME EVACUATION COMPLETED <u>0915</u>
TIME SAMPLES WERE COLLECTED <u>0918</u>	
DID WELL GO DRY <u>NO</u>	AFTER HOW MANY GALLONS <u>-</u>
VOLUME OF GROUNDWATER PURGED <u>8.5</u>	
SAMPLING DEVICE <u>DISP. BALLER</u>	
SAMPLE COLOR <u>GRAY</u>	ODOR/SEDIMENT <u>STEEN / SILT</u>

### CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
<u>1</u>	<u>66.6</u>	<u>6.78</u>	<u>511</u>
<u>2</u>	<u>66.6</u>	<u>6.84</u>	<u>606</u>
<u>3</u>	<u>66.5</u>	<u>6.83</u>	<u>630</u>

### SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

PROJECT NAME KOZEL

---

JOB NUMBER 3976 DATE OF SAMPLING 06.27.05

---

WELL ID. BES-1 SAMPLER DA

---

TOTAL DEPTH OF WELL \_\_\_\_\_ WELL DIAMETER 2

---

DEPTH TO WATER PRIOR TO PURGING 9.1

---

PRODUCT THICKNESS 0.02

---

DEPTH OF WELL CASING IN WATER \_\_\_\_\_

---

NUMBER OF GALLONS PER WELL CASING VOLUME \_\_\_\_\_

---

NUMBER OF WELL CASING VOLUMES TO BE REMOVED \_\_\_\_\_

---

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING \_\_\_\_\_

---

EQUIPMENT USED TO PURGE WELL \_\_\_\_\_

---

TIME EVACUATION STARTED \_\_\_\_\_ TIME EVACUATION COMPLETED \_\_\_\_\_

---

TIME SAMPLES WERE COLLECTED \_\_\_\_\_

---

DID WELL GO DRY \_\_\_\_\_ AFTER HOW MANY GALLONS \_\_\_\_\_

---

VOLUME OF GROUNDWATER PURGED \_\_\_\_\_

---

SAMPLING DEVICE \_\_\_\_\_

---

SAMPLE COLOR \_\_\_\_\_ ODOR/SEDIMENT \_\_\_\_\_

only GW @ 9.1. AFTER 3 DAILIES, BUBBLES THEN 1/16" OF BROWN PIGMENT APPEARED

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED

# **APPENDIX B**

Certified Analytical Report  
and  
Chain of Custody Documentation

**Aqua Science Engineers, Inc.**

July 11, 2005

208 West El Pintado Road  
Danville, CA 94526

Attn.: Dave Allen

Project#: 3976

Project: Kozec

Site: Oakland

Dear Mr. Allen,

Attached is our report for your samples received on 06/27/2005 16:15

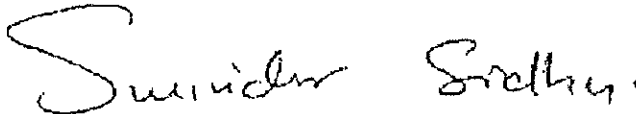
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 08/11/2005 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

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](http://www.stl-inc.com) \* CA DHS ELAP# 2496

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

Aqua Science Engineers, Inc.

Attn.: Dave Allen

208 West El Pintado Road

Danville, CA 94526

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

Project: 3976

Kozec

Received: 06/27/2005 16:15

Site: Oakland

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-B2	06/27/2005 09:32	Water	1
MW-B3	06/27/2005 09:52	Water	2
MW-B4	06/27/2005 09:18	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

07/07/2005 15:20



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

Aqua Science Engineers, Inc.

Attn.: Dave Allen

208 West El Pintado Road

Danville, CA 94526

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

Project: 3976

Kozec

Received: 06/27/2005 16:15

Site: Oakland

Prep(s): 3510/8015M                      Test(s): 8015M  
 Sample ID: **MW-B2**                      Lab ID: 2005-06-0707 - 1  
 Sampled: 06/27/2005 09:32              Extracted: 7/1/2005 13:10  
 Matrix: Water                              QC Batch#: 2005/07/01-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mineral spirits	4300	250	ug/L	5.00	07/06/2005 12:17	Q8
<b>Surrogate(s)</b>						
o-Terphenyl	NA	60-130	%	5.00	07/06/2005 12:17	S3

TEPH w/ Silica Gel Clean-up

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Project: 3976

Kozec

Received: 06/27/2005 16:15

Site: Oakland

Prep(s): 3510/8015M Test(s): 8015M  
 Sample ID: MW-B3 Lab ID: 2005-06-0707 - 2  
 Sampled: 06/27/2005 09:52 Extracted: 7/1/2005 13:10  
 Matrix: Water QC Batch#: 2005/07/01-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mineral spirits	ND	50	ug/L	1.00	07/02/2005 13:25	
<i>Surrogate(s)</i>						
o-Terphenyl	80.9	60-130	%	1.00	07/02/2005 13:25	

TEPH w/ Silica Gel Clean-up

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Project: 3976

Kozec

Received: 06/27/2005 16:15

Site: Oakland

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: <b>MW-B4</b>	Lab ID: 2005-06-0707 - 3
Sampled: 06/27/2005 09:18	Extracted: 7/1/2005 13:10
Matrix: Water	QC Batch#: 2005/07/01-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mineral spirits	2800	50	ug/L	1.00	07/02/2005 13:52	Q8
<b>Surrogate(s)</b>						
o-Terphenyl	79.3	60-130	%	1.00	07/02/2005 13:52	

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

Aqua Science Engineers, Inc.  
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208 West El Pintado Road  
Danville, CA 94526  
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3976  
Kozec

Received: 06/27/2005 16:15

Site: Oakland

**Batch QC Report**

Prep(s): 3510/8015M

Method Blank

MB: 2005/07/01-03.10-001

Water

Test(s): 8015M

QC Batch # 2005/07/01-03.10

Date Extracted: 07/01/2005 13:10

Compound	Conc.	RL	Unit	Analyzed	Flag
Mineral spirits	ND	50	ug/L	07/02/2005 12:02	
DRO (C10-C28)	ND	50	ug/L	07/02/2005 12:02	
<b>Surrogates(s)</b> o-Terphenyl	90.9	60-130	%	07/02/2005 12:02	

Sewern Trent Laboratories, Inc.

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

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07/07/2005 15:20

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

Aqua Science Engineers, Inc.

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Project: 3976

Kozec

Received: 06/27/2005 16:15

Site: Oakland

**Batch QC Report**

Prep(s): 3510/8015M

Test(s): 8015M

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/07/01-03.10**

LCS 2005/07/01-03.10-002

Extracted: 07/01/2005

Analyzed: 07/02/2005 13:20

LCSD 2005/07/01-03.10-003

Extracted: 07/01/2005

Analyzed: 07/02/2005 13:47

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
DRO (C10-C28)	783	786	1000	78.3	78.6	0.4	60-130	25		
<i>Surrogates(s)</i> o-Terphenyl	18.5	18.2	20.0	92.3	91.0		60-130	0		

Severn Trent Laboratories, Inc.

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07/07/2005 15:20

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

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Kozec

Received: 06/27/2005 16:15

Site: Oakland

---

**Legend and Notes**

---

**Result Flag**

Q8

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

S3

Surrogate recovery not reportable due to required dilution.

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

Aqua Science Engineers, Inc.

Attn.: Dave Allen

208 West El Pintado Road

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

Project: 3976

Kozec

Received: 06/27/2005 16:15

Site: Oakland

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-B2	06/27/2005 09:32	Water	1
MW-B3	06/27/2005 09:52	Water	2
MW-B4	06/27/2005 09:18	Water	3

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07/11/2005 15:20

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

Aqua Science Engineers, Inc.

Attn.: Dave Allen

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Danville, CA 94526

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

Project: 3976

Kozec

Received: 06/27/2005 16:15

Site: Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-B2	Lab ID: 2005-06-0707 - 1
Sampled: 06/27/2005 09:32	Extracted: 7/8/2005 01:11
Matrix: Water	QC Batch#: 2005/07/07-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	07/08/2005 01:11	
Acetone	ND	50	ug/L	1.00	07/08/2005 01:11	
Benzene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
Bromodichloromethane	ND	0.50	ug/L	1.00	07/08/2005 01:11	
Bromobenzene	ND	1.0	ug/L	1.00	07/08/2005 01:11	
Bromochloromethane	ND	1.0	ug/L	1.00	07/08/2005 01:11	
Bromoform	ND	0.50	ug/L	1.00	07/08/2005 01:11	
Bromomethane	ND	1.0	ug/L	1.00	07/08/2005 01:11	
2-Butanone(MEK)	ND	50	ug/L	1.00	07/08/2005 01:11	
n-Butylbenzene	ND	1.0	ug/L	1.00	07/08/2005 01:11	
sec-Butylbenzene	4.7	1.0	ug/L	1.00	07/08/2005 01:11	
tert-Butylbenzene	5.9	1.0	ug/L	1.00	07/08/2005 01:11	
Carbon disulfide	ND	5.0	ug/L	1.00	07/08/2005 01:11	
Carbon tetrachloride	ND	0.50	ug/L	1.00	07/08/2005 01:11	
Chlorobenzene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
Chloroethane	ND	1.0	ug/L	1.00	07/08/2005 01:11	
Chloroform	ND	1.0	ug/L	1.00	07/08/2005 01:11	
Chloromethane	ND	1.0	ug/L	1.00	07/08/2005 01:11	
2-Chlorotoluene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
4-Chlorotoluene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
Dibromochloromethane	ND	0.50	ug/L	1.00	07/08/2005 01:11	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	07/08/2005 01:11	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	07/08/2005 01:11	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	07/08/2005 01:11	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	07/08/2005 01:11	

Severn Trent Laboratories, Inc.

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

07/11/2005 15:20



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

Aqua Science Engineers, Inc.

Attn.: Dave Allen

208 West El Pintado Road

Danville, CA 94526

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

Project: 3976

Kozec

Received: 06/27/2005 16:15

Site: Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-B2	Lab ID: 2005-06-0707 - 1
Sampled: 06/27/2005 09:32	Extracted: 7/8/2005 01:11
Matrix: Water	QC Batch#: 2005/07/07-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dibromomethane	ND	0.50	ug/L	1.00	07/08/2005 01:11	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	07/08/2005 01:11	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	07/08/2005 01:11	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	07/08/2005 01:11	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	07/08/2005 01:11	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
Ethylbenzene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	07/08/2005 01:11	
2-Hexanone	ND	50	ug/L	1.00	07/08/2005 01:11	
Isopropylbenzene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	07/08/2005 01:11	
Methylene chloride	ND	5.0	ug/L	1.00	07/08/2005 01:11	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	07/08/2005 01:11	
Naphthalene	ND	1.0	ug/L	1.00	07/08/2005 01:11	
n-Propylbenzene	ND	1.0	ug/L	1.00	07/08/2005 01:11	
Styrene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	07/08/2005 01:11	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	07/08/2005 01:11	
Tetrachloroethene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
Toluene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	07/08/2005 01:11	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	07/08/2005 01:11	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	07/08/2005 01:11	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	07/08/2005 01:11	
Trichloroethene	ND	0.50	ug/L	1.00	07/08/2005 01:11	

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

07/11/2005 15:20

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

Aqua Science Engineers, Inc.

Attn.: Dave Allen

208 West El Pintado Road

Danville, CA 94526

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

Project: 3976

Kozec

Received: 06/27/2005 16:15

Site: Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-B2	Lab ID: 2005-06-0707 - 1
Sampled: 06/27/2005 09:32	Extracted: 7/8/2005 01:11
Matrix: Water	QC Batch#: 2005/07/07-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Trichlorofluoromethane	ND	1.0	ug/L	1.00	07/08/2005 01:11	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	07/08/2005 01:11	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	07/08/2005 01:11	
Vinyl acetate	ND	25	ug/L	1.00	07/08/2005 01:11	
Vinyl chloride	2.2	0.50	ug/L	1.00	07/08/2005 01:11	
Total xylenes	ND	1.0	ug/L	1.00	07/08/2005 01:11	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	112.8	79-118	%	1.00	07/08/2005 01:11	
1,2-Dichloroethane-d4	104.6	78-117	%	1.00	07/08/2005 01:11	
Toluene-d8	101.6	77-121	%	1.00	07/08/2005 01:11	

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

Aqua Science Engineers, Inc.

Attn.: Dave Allen

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Danville, CA 94526

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

Project: 3976

Kozec

Received: 06/27/2005 16:15

Site: Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-B3	Lab ID:	2005-06-0707 - 2
Sampled:	06/27/2005 09:52	Extracted:	7/8/2005 01:46
Matrix:	Water	QC Batch#:	2005/07/07-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	07/08/2005 01:46	
Acetone	ND	50	ug/L	1.00	07/08/2005 01:46	
Benzene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
Bromodichloromethane	ND	0.50	ug/L	1.00	07/08/2005 01:46	
Bromobenzene	ND	1.0	ug/L	1.00	07/08/2005 01:46	
Bromochloromethane	ND	1.0	ug/L	1.00	07/08/2005 01:46	
Bromoform	ND	0.50	ug/L	1.00	07/08/2005 01:46	
Bromomethane	ND	1.0	ug/L	1.00	07/08/2005 01:46	
2-Butanone(MEK)	ND	50	ug/L	1.00	07/08/2005 01:46	
n-Butylbenzene	ND	1.0	ug/L	1.00	07/08/2005 01:46	
sec-Butylbenzene	ND	1.0	ug/L	1.00	07/08/2005 01:46	
tert-Butylbenzene	ND	1.0	ug/L	1.00	07/08/2005 01:46	
Carbon disulfide	ND	5.0	ug/L	1.00	07/08/2005 01:46	
Carbon tetrachloride	ND	0.50	ug/L	1.00	07/08/2005 01:46	
Chlorobenzene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
Chloroethane	ND	1.0	ug/L	1.00	07/08/2005 01:46	
Chloroform	ND	1.0	ug/L	1.00	07/08/2005 01:46	
Chloromethane	ND	1.0	ug/L	1.00	07/08/2005 01:46	
2-Chlorotoluene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
4-Chlorotoluene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
Dibromochloromethane	ND	0.50	ug/L	1.00	07/08/2005 01:46	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	07/08/2005 01:46	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	07/08/2005 01:46	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	07/08/2005 01:46	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	07/08/2005 01:46	

Severn Trent Laboratories, Inc.

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07/11/2005 15:20

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

Aqua Science Engineers, Inc.

Attn.: Dave Allen

208 West El Pintado Road

Danville, CA 94526

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

Project: 3976

Kozec

Received: 06/27/2005 16:15

Site: Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-B3	Lab ID: 2005-06-0707 - 2
Sampled: 06/27/2005 09:52	Extracted: 7/8/2005 01:46
Matrix: Water	QC Batch#: 2005/07/07-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dibromomethane	ND	0.50	ug/L	1.00	07/08/2005 01:46	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	07/08/2005 01:46	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	07/08/2005 01:46	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	07/08/2005 01:46	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	07/08/2005 01:46	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
Ethylbenzene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	07/08/2005 01:46	
2-Hexanone	ND	50	ug/L	1.00	07/08/2005 01:46	
Isopropylbenzene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	07/08/2005 01:46	
Methylene chloride	ND	5.0	ug/L	1.00	07/08/2005 01:46	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	07/08/2005 01:46	
Naphthalene	ND	1.0	ug/L	1.00	07/08/2005 01:46	
n-Propylbenzene	ND	1.0	ug/L	1.00	07/08/2005 01:46	
Styrene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	07/08/2005 01:46	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	07/08/2005 01:46	
Tetrachloroethene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
Toluene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	07/08/2005 01:46	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	07/08/2005 01:46	
1,1,1-Trichloroethane	0.50	0.50	ug/L	1.00	07/08/2005 01:46	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	07/08/2005 01:46	
Trichloroethene	3 4	0 50	ug/L	1.00	07/08/2005 01:46	

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

Aqua Science Engineers, Inc.

Attn.: Dave Allen

208 West El Pintado Road

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Project: 3976

Kozec

Received: 06/27/2005 16:15

Site: Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-B3	Lab ID: 2005-06-0707 - 2
Sampled: 06/27/2005 09:52	Extracted: 7/8/2005 01:46
Matrix: Water	QC Batch#: 2005/07/07-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Trichlorofluoromethane	ND	1.0	ug/L	1.00	07/08/2005 01:46	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	07/08/2005 01:46	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	07/08/2005 01:46	
Vinyl acetate	ND	25	ug/L	1.00	07/08/2005 01:46	
Vinyl chloride	ND	0.50	ug/L	1.00	07/08/2005 01:46	
Total xylenes	ND	1.0	ug/L	1.00	07/08/2005 01:46	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	99.3	79-118	%	1.00	07/08/2005 01:46	
1,2-Dichloroethane-d4	102.0	78-117	%	1.00	07/08/2005 01:46	
Toluene-d8	101.2	77-121	%	1.00	07/08/2005 01:46	

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Danville, CA 94526

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Project: 3976

Kozec

Received: 06/27/2005 16:15

Site: Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>MW-B4</b>	Lab ID:	2005-06-0707 - 3
Sampled:	06/27/2005 09:18	Extracted:	7/8/2005 02:22
Matrix:	Water	QC Batch#:	2005/07/07-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	07/08/2005 02:22	
Acetone	ND	50	ug/L	1.00	07/08/2005 02:22	
Benzene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
Bromodichloromethane	ND	0.50	ug/L	1.00	07/08/2005 02:22	
Bromobenzene	ND	1.0	ug/L	1.00	07/08/2005 02:22	
Bromochloromethane	ND	1.0	ug/L	1.00	07/08/2005 02:22	
Bromoform	ND	0.50	ug/L	1.00	07/08/2005 02:22	
Bromomethane	ND	1.0	ug/L	1.00	07/08/2005 02:22	
2-Butanone(MEK)	ND	50	ug/L	1.00	07/08/2005 02:22	
n-Butylbenzene	ND	1.0	ug/L	1.00	07/08/2005 02:22	
sec-Butylbenzene	3.0	1.0	ug/L	1.00	07/08/2005 02:22	
tert-Butylbenzene	7.1	1.0	ug/L	1.00	07/08/2005 02:22	
Carbon disulfide	ND	5.0	ug/L	1.00	07/08/2005 02:22	
Carbon tetrachloride	ND	0.50	ug/L	1.00	07/08/2005 02:22	
Chlorobenzene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
Chloroethane	ND	1.0	ug/L	1.00	07/08/2005 02:22	
Chloroform	ND	1.0	ug/L	1.00	07/08/2005 02:22	
Chloromethane	ND	1.0	ug/L	1.00	07/08/2005 02:22	
2-Chlorotoluene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
4-Chlorotoluene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
Dibromochloromethane	ND	0.50	ug/L	1.00	07/08/2005 02:22	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	07/08/2005 02:22	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	07/08/2005 02:22	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	07/08/2005 02:22	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	07/08/2005 02:22	

Severn Trent Laboratories, Inc.

07/11/2005 15:20

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Project: 3976

Kozec

Received: 06/27/2005 16:15

Site: Oakland

Prep(s): 5030B

Test(s): 8260B

Sample ID: MW-B4

Lab ID: 2005-06-0707 - 3

Sampled: 06/27/2005 09:18

Extracted: 7/8/2005 02:22

Matrix: Water

QC Batch#: 2005/07/07-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dibromomethane	ND	0.50	ug/L	1.00	07/08/2005 02:22	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	07/08/2005 02:22	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	07/08/2005 02:22	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	07/08/2005 02:22	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	07/08/2005 02:22	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
Ethylbenzene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	07/08/2005 02:22	
2-Hexanone	ND	50	ug/L	1.00	07/08/2005 02:22	
Isopropylbenzene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	07/08/2005 02:22	
Methylene chloride	ND	5.0	ug/L	1.00	07/08/2005 02:22	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	07/08/2005 02:22	
Naphthalene	ND	1.0	ug/L	1.00	07/08/2005 02:22	
n-Propylbenzene	ND	1.0	ug/L	1.00	07/08/2005 02:22	
Styrene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	07/08/2005 02:22	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	07/08/2005 02:22	
Tetrachloroethene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
Toluene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	07/08/2005 02:22	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	07/08/2005 02:22	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	07/08/2005 02:22	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	07/08/2005 02:22	
Trichloroethene	ND	0.50	ug/L	1.00	07/08/2005 02:22	

Severn Trent Laboratories, Inc.

07/11/2005 15:20

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

Project: 3976

Kozec

Received: 06/27/2005 16:15

Site: Oakland

Prep(s): 5030B Test(s): 8260B  
 Sample ID: MW-B4 Lab ID: 2005-06-0707 - 3  
 Sampled: 06/27/2005 09:18 Extracted: 7/8/2005 02:22  
 Matrix: Water QC Batch#: 2005/07/07-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Trichlorofluoromethane	ND	1.0	ug/L	1.00	07/08/2005 02:22	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	07/08/2005 02:22	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	07/08/2005 02:22	
Vinyl acetate	ND	25	ug/L	1.00	07/08/2005 02:22	
Vinyl chloride	1.9	0.50	ug/L	1.00	07/08/2005 02:22	
Total xylenes	ND	1.0	ug/L	1.00	07/08/2005 02:22	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	113.8	79-118	%	1.00	07/08/2005 02:22	
1,2-Dichloroethane-d4	102.9	78-117	%	1.00	07/08/2005 02:22	
Toluene-d8	100.1	77-121	%	1.00	07/08/2005 02:22	

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Project: 3976

Kozec

Received: 06/27/2005 16:15

Site: Oakland

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/07/07-01.06-003

Water

Test(s): 8260B

QC Batch # 2005/07/07-01.06

Date Extracted: 07/07/2005 10:02

Compound	Conc.	RL	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	07/07/2005 10:02	
Acetone	ND	50	ug/L	07/07/2005 10:02	
Benzene	ND	0.5	ug/L	07/07/2005 10:02	
Bromodichloromethane	ND	0.5	ug/L	07/07/2005 10:02	
Bromobenzene	ND	1.0	ug/L	07/07/2005 10:02	
Bromochloromethane	ND	1.0	ug/L	07/07/2005 10:02	
Bromoform	ND	0.5	ug/L	07/07/2005 10:02	
Bromomethane	ND	1.0	ug/L	07/07/2005 10:02	
2-Butanone(MEK)	ND	50	ug/L	07/07/2005 10:02	
n-Butylbenzene	ND	1.0	ug/L	07/07/2005 10:02	
sec-Butylbenzene	ND	1.0	ug/L	07/07/2005 10:02	
tert-Butylbenzene	ND	1.0	ug/L	07/07/2005 10:02	
Carbon disulfide	ND	5.0	ug/L	07/07/2005 10:02	
Carbon tetrachloride	ND	0.5	ug/L	07/07/2005 10:02	
Chlorobenzene	ND	0.5	ug/L	07/07/2005 10:02	
Chloroethane	ND	1.0	ug/L	07/07/2005 10:02	
Chloroform	ND	1.0	ug/L	07/07/2005 10:02	
Chloromethane	ND	1.0	ug/L	07/07/2005 10:02	
2-Chlorotoluene	ND	0.5	ug/L	07/07/2005 10:02	
4-Chlorotoluene	ND	0.5	ug/L	07/07/2005 10:02	
Dibromochloromethane	ND	0.5	ug/L	07/07/2005 10:02	
1,2-Dichlorobenzene	ND	0.5	ug/L	07/07/2005 10:02	
1,3-Dichlorobenzene	ND	0.5	ug/L	07/07/2005 10:02	
1,4-Dichlorobenzene	ND	0.5	ug/L	07/07/2005 10:02	
1,3-Dichloropropane	ND	1.0	ug/L	07/07/2005 10:02	
2,2-Dichloropropane	ND	0.5	ug/L	07/07/2005 10:02	
1,1-Dichloropropene	ND	0.5	ug/L	07/07/2005 10:02	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	07/07/2005 10:02	
1,2-Dibromoethane	ND	0.5	ug/L	07/07/2005 10:02	

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

07/11/2005 15:20

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

Aqua Science Engineers, Inc.

Attn.: Dave Allen

208 West El Pintado Road

Danville, CA 94526

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

Project: 3976

Kozec

Received: 06/27/2005 16:15

Site: Oakland

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/07/07-01.06-003

Water

Test(s): 8260B

QC Batch # 2005/07/07-01.06

Date Extracted: 07/07/2005 10:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Dibromomethane	ND	0.5	ug/L	07/07/2005 10:02	
Dichlorodifluoromethane	ND	0.5	ug/L	07/07/2005 10:02	
1,1-Dichloroethane	ND	0.5	ug/L	07/07/2005 10:02	
1,2-Dichloroethane	ND	0.5	ug/L	07/07/2005 10:02	
1,1-Dichloroethene	ND	0.5	ug/L	07/07/2005 10:02	
cis-1,2-Dichloroethene	ND	0.5	ug/L	07/07/2005 10:02	
trans-1,2-Dichloroethene	ND	0.5	ug/L	07/07/2005 10:02	
1,2-Dichloropropane	ND	0.5	ug/L	07/07/2005 10:02	
cis-1,3-Dichloropropene	ND	0.5	ug/L	07/07/2005 10:02	
trans-1,3-Dichloropropene	ND	0.5	ug/L	07/07/2005 10:02	
Ethylbenzene	ND	0.5	ug/L	07/07/2005 10:02	
Hexachlorobutadiene	ND	1.0	ug/L	07/07/2005 10:02	
2-Hexanone	ND	50	ug/L	07/07/2005 10:02	
Isopropylbenzene	ND	0.5	ug/L	07/07/2005 10:02	
p-Isopropyltoluene	ND	1.0	ug/L	07/07/2005 10:02	
Methylene chloride	ND	5.0	ug/L	07/07/2005 10:02	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	07/07/2005 10:02	
Naphthalene	ND	1.0	ug/L	07/07/2005 10:02	
n-Propylbenzene	ND	1.0	ug/L	07/07/2005 10:02	
Styrene	ND	0.5	ug/L	07/07/2005 10:02	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	07/07/2005 10:02	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	07/07/2005 10:02	
Tetrachloroethene	ND	0.5	ug/L	07/07/2005 10:02	
Toluene	ND	0.5	ug/L	07/07/2005 10:02	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	07/07/2005 10:02	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	07/07/2005 10:02	
1,1,1-Trichloroethane	ND	0.5	ug/L	07/07/2005 10:02	
1,1,2-Trichloroethane	ND	0.5	ug/L	07/07/2005 10:02	
Trichloroethene	ND	0.5	ug/L	07/07/2005 10:02	

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**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/07/07-01.06-003

Water

Test(s): 8260B

QC Batch # 2005/07/07-01.06

Date Extracted: 07/07/2005 10:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Trichlorofluoromethane	ND	1.0	ug/L	07/07/2005 10:02	
Trichlorotrifluoroethane	ND	0.5	ug/L	07/07/2005 10:02	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	07/07/2005 10:02	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	07/07/2005 10:02	
Vinyl acetate	ND	25	ug/L	07/07/2005 10:02	
Vinyl chloride	ND	0.5	ug/L	07/07/2005 10:02	
Total xylenes	ND	1.0	ug/L	07/07/2005 10:02	
<b>Surrogates(s)</b>					
4-Bromofluorobenzene	101.4	79-118	%	07/07/2005 10:02	
1,2-Dichloroethane-d4	94.4	78-117	%	07/07/2005 10:02	
Toluene-d8	97.6	77-121	%	07/07/2005 10:02	

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

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Project: 3976

Kozec

Received: 06/27/2005 16:15

Site: Oakland

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/07/07-01.06**

LCS 2005/07/07-01.06-004

Extracted: 07/07/2005

Analyzed: 07/07/2005 10:37

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	19.2		20.0	96.0			69-129	20		
Chlorobenzene	16.4		20.0	82.0			61-121	20		
1,1-Dichloroethene	19.2		20.0	96.0			65-125	20		
Toluene	18.5		20.0	92.5			70-130	20		
Trichloroethene	18.0		20.0	90.0			74-134	20		
<b>Surrogates(s)</b>										
4-Bromofluorobenzene	505		500	101.0			79-118			
1,2-Dichloroethane-d4	443		500	88.6			78-117			
Toluene-d8	478		500	95.6			77-121			

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07/11/2005 15:20

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

Aqua Science Engineers, Inc.

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Danville, CA 94526

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

Project: 3976  
Kozec

Received: 06/27/2005 16:15

Site: Oakland

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/07/07-01.06**

MS/MSD

Lab ID: 2005-06-0616 - 001

MS: 2005/07/07-01.06-006

Extracted: 07/07/2005

Analyzed: 07/07/2005 12:19

Dilution: 5.00

MSD: 2005/07/07-01.06-007

Extracted: 07/07/2005

Analyzed: 07/07/2005 12:54

Dilution: 5.00

Compound	Conc ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec	RPD	MS	MSD
Benzene	98.2	98.0	ND	100.0	98.2	98.0	0.2	69-129	20		
Chlorobenzene	83.3	81.7	ND	100.0	83.3	81.7	1.9	61-121	20		
1,1-Dichloroethene	99.7	96.2	ND	100.0	99.7	96.2	3.6	65-125	20		
Toluene	95.3	95.6	2.32	100.0	93.0	93.3	0.3	70-130	20		
Trichloroethene	105	103	14.4	100.0	90.6	88.6	2.2	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	497	504		500	99.4	100.8		79-118			
1,2-Dichloroethane-d4	461	457		500	92.2	91.4		78-117			
Toluene-d8	486	492		500	97.2	98.4		77-121			

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07/11/2005 15:20

2005-06-0707

116904

Aqua Science Engineers, Inc.  
 208 W. El Pintado Road  
 Danville, CA 94526  
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 FAX (925) 837-4853

# Chain of Custody

PAGE 1 OF 1  
 JOB NO. 3976

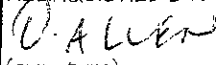
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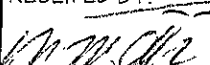

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 ADDRESS OAKLAND

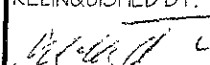
## ANALYSIS REQUEST


SPECIAL INSTRUCTIONS:

SAMPLE ID.	DATE	TIME	MATRIX	NO OF SAMPLES	TPH-GAS / MTBE & BTEX (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015)	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	PURGEABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/8240/8260)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	OIL & GREASE (EPA 5520)	LIFT METALS (5) (EPA 6010+7000)	CAM 17 METALS (EPA 6010+7000)	PCBs & PESTICIDES (EPA 608/8080)	ORGANOPHOSPHORUS PESTICIDES (EPA 8140 EPA 608/8080)	FUEL OXYGENATES (EPA 8260)	Pb (TOTAL or DISSOLVED) (EPA 6010)	MINERAL SPIRITS w/SILICA GEL CLEANUP	HOLD	
																				MW-B2
MW-B3		0950							X										X	
MW-B4		0918							X										X	

RELINQUISHED BY:  
  
 (signature) (time)

RECEIVED BY:  
  
 (signature) (time) 11:50

RELINQUISHED BY:  
  
 (signature) (time) 10:15

RECEIVED BY LABORATORY:  
  
 (signature) (time) 16:15

COMMENTS:  
 3<sup>rd</sup>

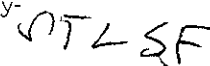
D. ALLEN  
 (printed name) (date) 6/27/05

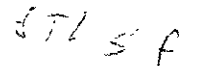
N. LUSA  
 (printed name) (date) 6/27/05


M. LUSA  
 (printed name) (date) 6/27/05

M. LUSA  
 (printed name) (date) 6/27/05

Company-ASE, INC

Company-  


Company-  


Company-  


TURN AROUND TIME  
 STANDARD 24hr 48hr 72hr  
 OTHER: