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San Jose, California 95119 USA
408.224.4724 800.477.7411
Fax 408.225.8506

June 15, 2004
Project No. SJ31-8LI-1.2004

Mr. Scott Seery
Environmental Health Services – Environmental Protection
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Quarterly Monitoring Report – Second Quarter 2004**
Shell-branded Service Station
318 South Livermore Avenue
Livermore, California

Dear Mr. Seery:

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared the following second quarter 2004 groundwater monitoring and sampling report for the above referenced site. A site location map is included as Figure 1.

BACKGROUND

On March 7, 2003, Shell received a notice of responsibility letter from the Alameda County Health Care Services Agency (ACHCSA) placing the site in the Local Oversight Program due to the presence of methyl tert-butyl ether (MTBE) in groundwater beneath the site. In a work plan, dated May 27, 2003, Delta proposed to continue quarterly sampling of site wells for the remainder of 2003 in order to monitor MTBE concentrations.

On December 10, 2003, site USTs, fuel dispensers, and associated product piping were removed. A fuel system removal report, dated January 16, 2004, was submitted by Delta to the ACHCSA.

Alameda County
JUN 18 2004
Environmental Health

QUARTERLY GROUND WATER MONITORING PROGRAM

Groundwater monitoring wells were gauged and sampled by Blaine Tech Services (Blaine), at the direction of Delta, on April 7, 2004. Depth to groundwater was measured in Wells MW-5 through MW-8. Wells MW-1 through MW-4 were previously destroyed. Groundwater elevation data and contours are presented on Figure 2.

Groundwater samples were collected from Wells MW-5 through MW-8. Samples were submitted by Blaine to Severn Trent Laboratories, Inc. (STL) in Pleasanton, California for analysis for total purgeable petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds); and the fuel oxygenate MTBE using EPA Method 8260B. Benzene and MTBE concentrations in groundwater are presented on Figure 3.

Blaine's groundwater monitoring and sampling report, which includes historical and current groundwater elevation data, historical and current analytical results, and field data records for the current monitoring event, is included as Attachment A.

DISCUSSION

Depth to groundwater in site wells has decreased by an average of 1.38 feet since last quarter. The groundwater gradient on April 7, 2004 was toward the west at a magnitude of 0.01 feet/feet, consistent with previous data.

MTBE continues to be detected in Well MW-7, at a concentration of 0.71 micrograms per liter (ug/l). The MTBE concentration in Well MW-8 is below the laboratory method detection limit this quarter. TPH-G and BTEX compounds were not detected in any site wells for the second consecutive quarter.

In the first quarter 2004 monitoring report, Delta proposed to reduce the sampling frequency to semi-annual during the first and third quarters. The ACHSA has not yet replied to this proposal.

REMARKS

The information contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

Please call if you have any questions regarding the contents of this letter.

June 15, 2004

Page 3

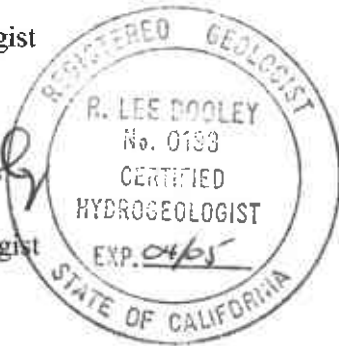
Sincerely,
Delta Environmental Consultants, Inc.



Vera Fischer
Senior Staff Geologist



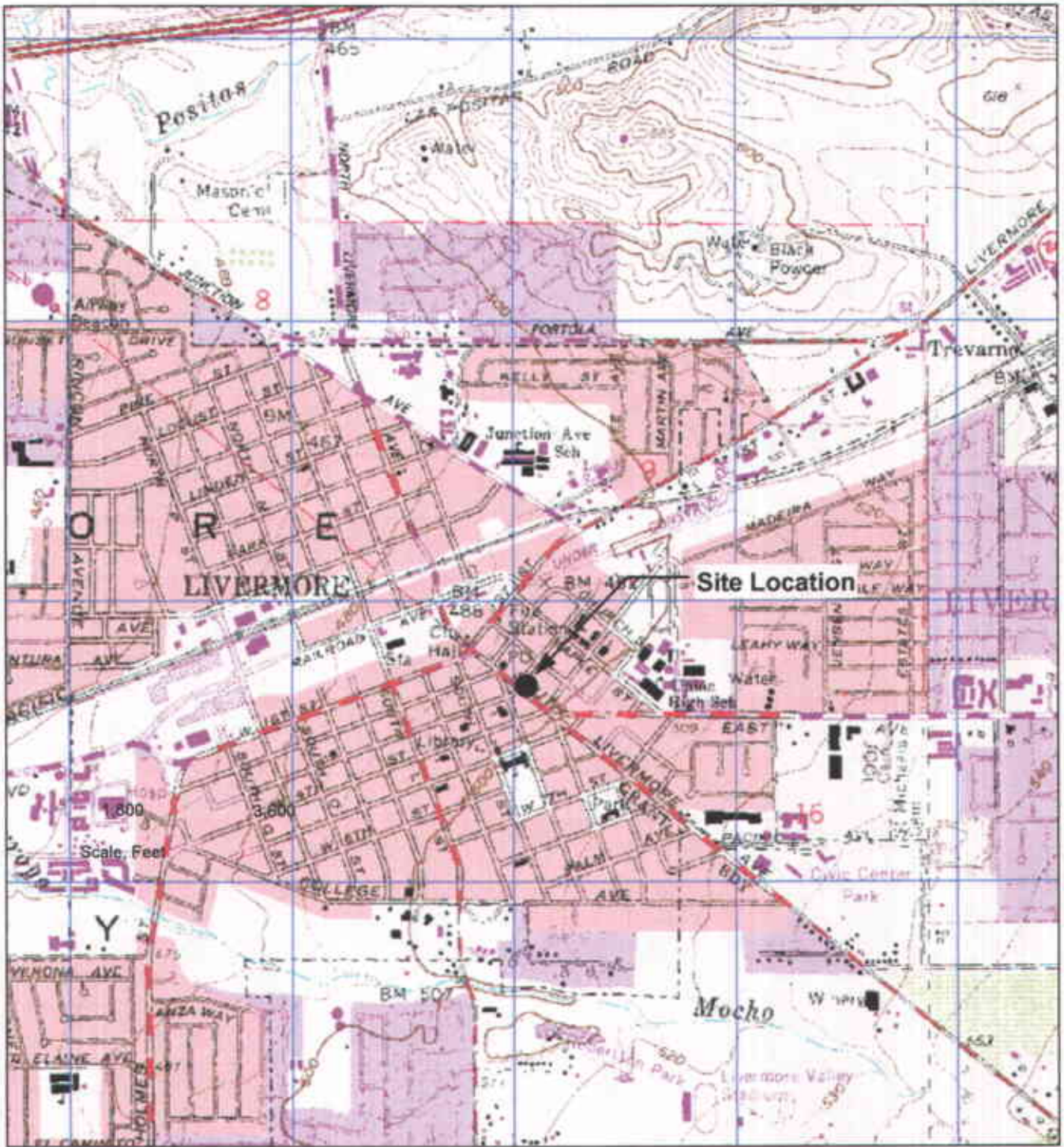
R. Lee Dooley
Senior Hydrogeologist
CHG 183



Attachments: Figure 1 – Site Location Map
Figure 2 – Groundwater Elevation Contour Map
Figure 3 – Benzene and MTBE Concentrations Map

Attachment A – Groundwater Monitoring and Sampling Report, May 6, 2004

cc: Karen Petryna, Shell Oil Products US, Carson
Betty Graham, RWQCB – Oakland



GENERAL NOTES:
 Base Map from: DeLorme Yamouth, ME 04096
 Source Data: USGS



FIGURE 1
 SITE LOCATION MAP

FORMER SHELL-BRANDED SERVICE STATION
 318 South Livermore Avenue
 Livermore, CA

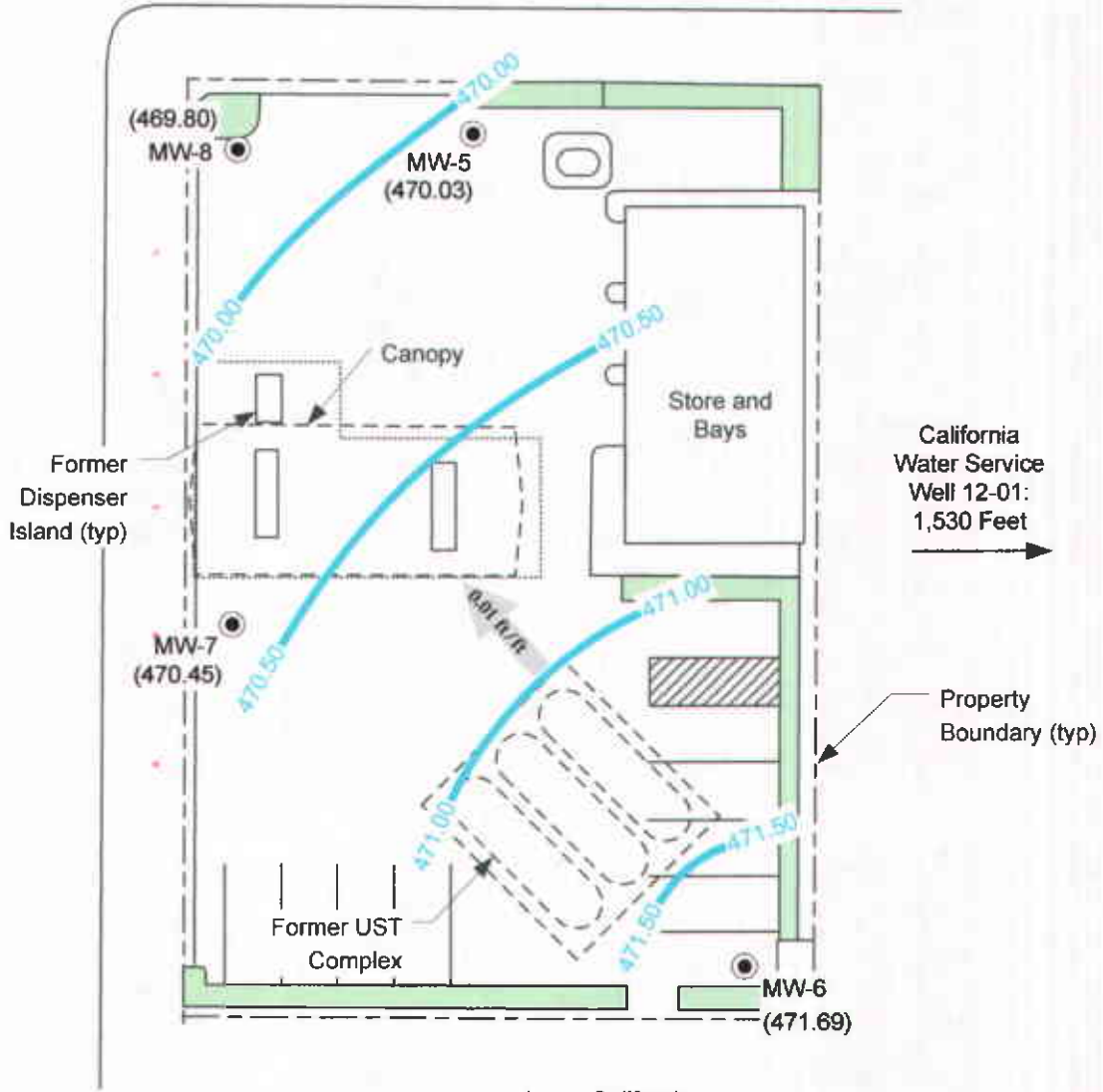
PROJECT NO. SJ31-8U-1.2004	DRAWN BY VF 9/25/03
FILE NO. SJ31-8U-1.2004	PREPARED BY VF
REVISION NO. 2	REVIEWED BY





Third Street

South Livermore Avenue



LEGEND

MW-6 ● **GROUNDWATER MONITORING WELL**

(462.29) **GROUNDWATER ELEVATION (MSL), 4/7/04**

467.00 — **GROUNDWATER ELEVATION CONTOUR**

0.012 ft/ft **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**



APPROX. SCALE

FIGURE 2
GROUNDWATER ELEVATION CONTOUR MAP,
APRIL 7, 2004

SHELL-BRANDED SERVICE STATION
318 South Livermore Avenue
Livermore, California

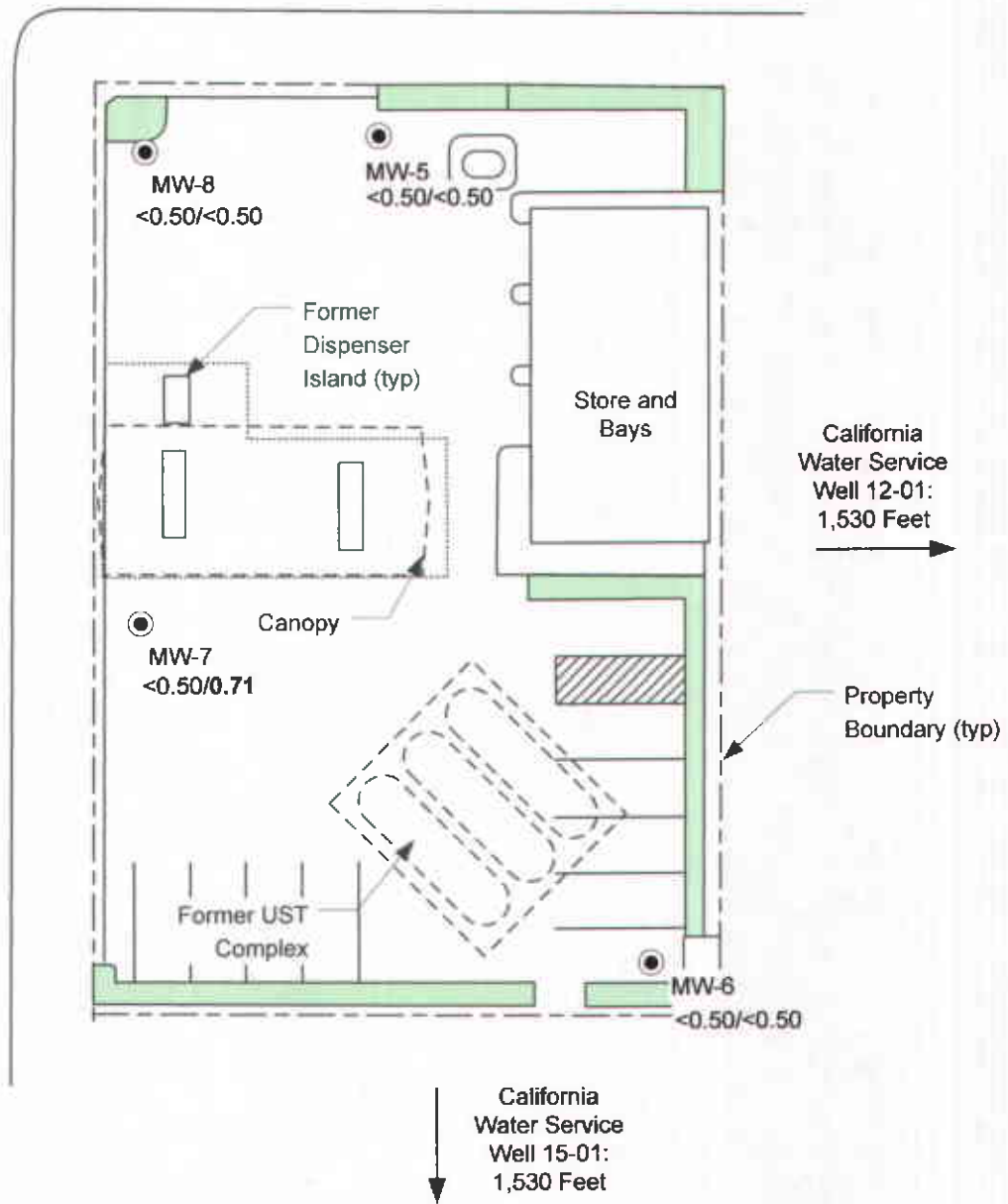
PROJECT NO. SJ31-BLI-1.2004	DRAWN BY VF 9/25/03
FILE NO. SJ31-BLI-1.2004	PREPARED BY VF
REVISION NO. 2	REVIEWED BY





Third Street

South Livermore Avenue



LEGEND

- MW-6 ● **GROUNDWATER MONITORING WELL**
- <0.50/<0.50 **BENZENE / MTBE CONCENTRATIONS IN GROUNDWATER (UG/L), 4/7/04**



FIGURE 3
BENZENE AND MTBE CONCENTRATION MAP,
APRIL 7, 2004
SHELL-BRANDED SERVICE STATION
318 South Livermore Avenue
Livermore, California

PROJECT NO. SJ31-BLJ-1.2004	DRAWN BY VF 9/25/03
FILE NO. SJ31-BLJ-1.2004	PREPARED BY VF
REVISION NO. 2	REVIEWED BY



Attachment A

GROUNDWATER MONITORING AND SAMPLING REPORT

BLAINE
TECH SERVICES, INC.



1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

May 6, 2004

Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7869

Second Quarter 2004 Groundwater Monitoring at
Shell-branded Service Station
318 South Livermore Avenue
Livermore, CA

Monitoring performed on April 7, 2004

Groundwater Monitoring Report 040407-JP-1

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purge water (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/ks

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Debbie Arnold
Delta Environmental
175 Bernal Road, Suite 200
San Jose, CA 95119

WELL CONCENTRATIONS
Shell-branded Service Station
318 South Livermore Avenue
Livermore, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
---------	------	----------------	-------------	-------------	-------------	-------------	------------------------	----------------	----------------	----------------	---------------	--------------	----------------------------	--------------------------

MW-5	09/18/2001	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-5	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	495.47	34.85	460.62
MW-5	10/25/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	495.47	37.26	458.21
MW-5	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	495.47	27.30	468.17
MW-5	04/17/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	495.47	27.84	467.63
MW-5	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	495.47	30.54	464.93
MW-5	11/13/2003	60	<0.50	1.5	1.7	9.6	<0.50	<2.0	<2.0	<2.0	<5.0	495.47	33.94	461.53
MW-5	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	495.47	26.59	468.88
MW-5	04/07/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	495.47	25.44	470.03

MW-6	09/18/2001	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-6	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	497.57	35.41	462.16
MW-6	10/25/2002	<50	<0.50	<0.50	<0.50	<0.50	2.5	<2.0	<2.0	<2.0	<50	497.57	37.92	459.65
MW-6	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	497.57	27.71	469.86
MW-6	04/17/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	497.57	28.28	469.29
MW-6	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	497.57	30.56	467.01
MW-6	11/13/2003	90	<0.50	2.6	2.4	12	<0.50	<2.0	<2.0	<2.0	<5.0	497.57	34.18	463.39
MW-6	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	497.57	27.16	470.41
MW-6	04/07/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	497.57	25.88	471.69

MW-7	09/18/2001	NA	<0.50	<0.50	<0.50	<0.50	1.2	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-7	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	2.0	<2.0	<2.0	<2.0	<50	495.58	34.29	461.29
MW-7	10/25/2002	<50	<0.50	<0.50	<0.50	<0.50	1.9	<2.0	<2.0	<2.0	<50	495.58	36.80	458.78
MW-7	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	0.89	<2.0	<2.0	<2.0	<50	495.58	26.75	468.83
MW-7	04/17/2003	<50	<0.50	<0.50	<0.50	<1.0	4.0	<2.0	<2.0	<2.0	<5.0	495.58	27.31	468.27
MW-7	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	3.2	<2.0	<2.0	<2.0	<5.0	495.58	30.02	465.56

WELL CONCENTRATIONS
Shell-branded Service Station
318 South Livermore Avenue
Livermore, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-7	11/13/2003	72	<0.50	0.62	0.57	3.2	1.4	<2.0	<2.0	<2.0	<5.0	495.58	33.85	461.73
MW-7	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	0.85	NA	NA	NA	NA	495.58	27.13	468.45
MW-7	04/07/2004	<50	<0.50	<0.50	<0.50	<1.0	0.71	NA	NA	NA	NA	495.58	25.13	470.45
MW-8	09/18/2001	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-8	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	6.9	<2.0	<2.0	<2.0	<50	494.90	34.46	460.44
MW-8	10/25/2002	140	<0.50	<0.50	<0.50	<0.50	2.2	3.3	<2.0	<2.0	<50	494.90	36.98	457.92
MW-8	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	494.90	27.35	467.55
MW-8	04/17/2003	<50	<0.50	<0.50	<0.50	<1.0	0.67	<2.0	<2.0	<2.0	<5.0	494.90	27.44	467.46
MW-8	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	0.50	<2.0	<2.0	<2.0	<5.0	494.90	32.29	462.61
MW-8	11/13/2003	260	1.5	2.3	2.9	16	1.4	<2.0	<2.0	<2.0	<5.0	494.90	33.08	461.82
MW-8	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	0.92	NA	NA	NA	NA	494.90	26.18	468.72
MW-8	04/07/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	494.90	25.10	469.80

WELL CONCENTRATIONS
Shell-branded Service Station
318 South Livermore Avenue
Livermore, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B.

MTBE = Methyl-tertiary-butyl ether

DIPE = Diisopropyl ether

ETBE = Ethyl-t-butyl ether

TAME = Tert-amyl methyl ether

TBA = Tert-Butanol

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft = Feet

<n = Below detection limit

NA = Not applicable

Notes:

Survey data provided by KHM Environmental Management, Inc.

Blaine Tech Services, Inc.

April 22, 2004

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 040407-JP1
Project: 97464709
Site: 318 S. Livermore Ave., Livermore

Dear Mr. Gearhart,

Attached is our report for your samples received on 04/08/2004 18:54
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
05/23/2004 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: vvancil@stl-inc.com

Sincerely,



Vincent Vancil
Project Manager

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040407-JP1

97464709

Received: 04/08/2004 18:54

Site: 318 S. Livermore Ave., Livermore

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-5	04/07/2004 13:35	Water	1
MW-6	04/07/2004 14:05	Water	2
MW-7	04/07/2004 14:25	Water	3
MW-8	04/07/2004 14:50	Water	4

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040407-JP1

97464709

Received: 04/08/2004 18:54

Site: 318 S. Livermore Ave., Livermore

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/04/16-2A.64-037

Water

Test(s): 8260B

QC Batch # 2004/04/16-2A.64

Date Extracted: 04/16/2004 18:37

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/16/2004 18:37	
Benzene	ND	0.5	ug/L	04/16/2004 18:37	
Toluene	ND	0.5	ug/L	04/16/2004 18:37	
Ethylbenzene	ND	0.5	ug/L	04/16/2004 18:37	
Total xylenes	ND	1.0	ug/L	04/16/2004 18:37	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/16/2004 18:37	
Surrogates(s)					
Toluene-d8	98.0	78-115	%	04/16/2004 18:37	
1,2-Dichloroethane-d4	102.0	76-130	%	04/16/2004 18:37	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040407-JP1

97464709

Received: 04/08/2004 18:54

Site: 318 S. Livermore Ave., Livermore

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/04/18-1A.68-052

Water

Test(s): 8260B

QC Batch # 2004/04/18-1A.68

Date Extracted: 04/18/2004 11:52

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/18/2004 11:52	
Benzene	ND	0.5	ug/L	04/18/2004 11:52	
Toluene	ND	0.5	ug/L	04/18/2004 11:52	
Ethylbenzene	ND	0.5	ug/L	04/18/2004 11:52	
Total xylenes	ND	1.0	ug/L	04/18/2004 11:52	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/18/2004 11:52	
Surrogates(s)					
Toluene-d8	93.4	78-115	%	04/18/2004 11:52	
1,2-Dichloroethane-d4	92.8	76-130	%	04/18/2004 11:52	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040407-JP1

97464709

Received: 04/08/2004 18:54

Site: 318 S. Livermore Ave., Livermore

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/04/16-2A.64

LCS 2004/04/16-2A.64-053

Extracted: 04/16/2004

Analyzed: 04/16/2004 17:53

LCSD 2004/04/16-2A.64-015

Extracted: 04/16/2004

Analyzed: 04/16/2004 18:15

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %			Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS	LCSD
Benzene	23.0	24.4	25	92.0	97.6	5.9	69-129	20			
Toluene	23.3	24.1	25	93.2	96.4	3.4	70-130	20			
Methyl tert-butyl ether (MTBE)	21.4	22.9	25	85.6	91.6	6.8	65-165	20			
Surrogates(s)											
Toluene-d8	471	477	500	94.2	95.4		78-115				
1,2-Dichloroethane-d4	478	491	500	95.6	98.2		76-130				

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

04/21/2004 16:44

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040407-JP1

97464709

Received: 04/08/2004 18:54

Site: 318 S. Livermore Ave., Livermore

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/04/18-1A.68

LCS 2004/04/18-1A.68-014

Extracted: 04/18/2004

Analyzed: 04/18/2004 11:14

LCSD 2004/04/18-1A.68-033

Extracted: 04/18/2004

Analyzed: 04/18/2004 11:33

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	25.0	25.7	25	100.0	102.8	2.8	69-129	20		
Toluene	28.2	29.3	25	112.8	117.2	3.8	70-130	20		
Methyl tert-butyl ether (MTBE)	27.2	30.1	25	108.8	120.4	10.1	65-165	20		
Surrogates(s)										
Toluene-d8	476	453	500	95.2	90.6		78-115			
1,2-Dichloroethane-d4	436	505	500	87.2	101.0		76-130			

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

04/21/2004 16:44

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040407-JP1
97464709

Received: 04/08/2004 18:54

Site: 318 S. Livermore Ave., Livermore

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2004/04/16-2A.64

MW-8 >> MS

Lab ID: 2004-04-0292 - 004

MS: 2004/04/16-2A.64-042

Extracted: 04/16/2004

Analyzed: 04/16/2004 21:42

Dilution: 1.00

MSD: 2004/04/16-2A.64-004

Extracted: 04/16/2004

Analyzed: 04/16/2004 22:04

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	18.7	20.9	ND	25	74.8	83.6	11.1	69-129	20		
Toluene	19.1	21.3	ND	25	76.4	85.2	10.9	70-130	20		
Methyl tert-butyl ether	18.6	21.4	ND	25	74.4	85.6	14.0	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	463	437		500	92.6	87.4		76-130			
Toluene-d8	444	445		500	88.8	89.0		78-115			

Severn Trent Laboratories, Inc.

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04/21/2004 16:44

SHELL WELL MONITORING DATA SHEET

BTS #: 040407-JPI	Site: 97464709
Sampler: M. Pyrek	Date: 4-7-04
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 55.15	Depth to Water (DTW): 25.44
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 31.38	

Purge Method: Bailer	Water: Peristaltic	Sampling Method: (Bailer)
Disposable Bailer	Extraction Pump	Disposable Bailer
(Positive Air Displacement)	Other: _____	Extraction Port
Electric Submersible		Dedicated Tubing
		Other: _____

4.7 (Gals.) X	3	= 14.1 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (S))	Turbidity (NTUs)	Gals. Removed	Observations
1322	68.7	7.3	1097	7200	5	brown, cloudy
1328	68.5	7.6	1115	7200	10	cloudy
1333	69.5	7.6	1117	7200	14.1	cloudy

Did well dewater? Yes No Gallons actually evacuated: 14.1

Sampling Date: 4-7-04 Sampling Time: 1335 Depth to Water: 29.90

Sample I.D.: MW-5 Laboratory: (STL) Other: _____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other: _____

EB I.D. (if applicable): @ _____ Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

TS #: 040407-JPI	Site: 97464709
Sampler: M. Prych	Date: 4-7-04
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 53.48	Depth to Water (DTW): 25.88
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 31.40	

Large Method: Bailer Water: Peristaltic Sampling Method: Bailer
 Disposable Bailer Extraction Pump Disposable Bailer
 Positive Air Displacement Other: Extraction Port
 Electric Submersible Other: Dedicated Tubing

4.4 (Gals.) X	3	=	13.2	Gals.	
Case Volume	Specified Volumes		Calculated Volume		

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
352	69.7	7.9	977	> 200	4.5	cloudy
357	70.9	7.7	976	> 200	9	"
402	70.5	7.5	1008	> 200	13.5	slightly cloudy

Did well dewater? Yes No Gallons actually evacuated: 13.5

Sampling Date: 4-7-04 Sampling Time: 1405 Depth to Water: 29.84

Sample I.D.: MW-6 Laboratory: STL Other: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
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O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV
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Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558

SHELL WELL MONITORING DATA SHEET

TS #: 040407-JP1	Site: 97464709
Sampler: M. Pyrch	Date: 4-7-04
Well I.D.: MW-8	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 51.15	Depth to Water (DTW): 25.10
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 30.31	

Purge Method: Bailer Water Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Case Volume	4.1 (Gals.) X	3	= 12.3	Gals.		
	Specified Volumes	Calculated Volume				

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
1440	73.8	8.0	1083	> 200	4	cloudy
1445	72.7	7.6	1071	> 200	8	"
1449	72.6	7.8	1083	> 200	12.5	"

Did well dewater? Yes No Gallons actually evacuated: 12.5

Sampling Date: 4-7-04 Sampling Time: 1450 Depth to Water: 27.46

Sample I.D.: MW-8 Laboratory: STL Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge:		mg/L	Post-purge:		mg/L
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O.R.P. (if req'd):	Pre-purge:		mV	Post-purge:		mV
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