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Alameda County  
MUL 1 2 2005  
Environmental Health

R0360G

July 8, 2005  
Project No. SJ42-26F-1.2005

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

Re: **Quarterly Monitoring Report – Second Quarter 2005**  
**Shell-branded Service Station**  
**4226 First Street**  
**Pleasanton, California**

Dear Mr. Wickham:

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared the following second quarter 2005 groundwater monitoring and sampling report for the above referenced site. Groundwater sampling was performed by Blaine Tech Services (Blaine) at the direction of Delta. A site location map is included as Figure 1.

**QUARTERLY GROUND WATER MONITORING PROGRAM**

Groundwater monitoring wells were gauged and sampled by Blaine on May 5, 2005. Depth to groundwater was measured in Wells MW-1 through MW-3. Groundwater elevation data and contours are presented on Figure 2.

Groundwater samples were collected from Wells MW-1 through MW-3. Samples were submitted by Blaine to Severn Trent Laboratories, Inc. (STL) in Pleasanton, California for analysis for TPH-G, BTEX compounds, and methyl tert butyl ether (MTBE) using EPA Method 8260B. TPH-G, benzene and MTBE concentrations 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 Well MW-1 increased by 4.80 feet, significant changes in depth to groundwater are typical for this well. The groundwater gradient on May 5, 2005 was towards the west at a magnitude of 0.13 ft/ft. The gradient is typically to the northwest.

MTBE continues to be detected in all site wells at concentrations ranging from 2.3 micrograms per liter (ug/l) to 300 ug/l. TPH-G was detected in Wells MW-1 and MW-2 at 460 ug/l and 72 ug/l, respectively. Benzene was detected at 88 ug/l in Well MW-1. Concentrations remain within historic ranges.

Delta proposes to prepare an electronic site conceptual model for summarizing existing site data, identifying data gaps, and for development of a work plan for additional site assessment activities.

#### REMARKS

The information and recommendations 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.

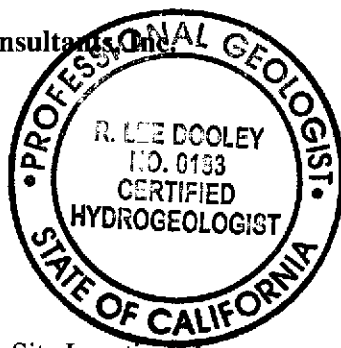
Please call if you have any questions regarding the contents of this letter.

Sincerely,

Delta Environmental Consultants, Inc.

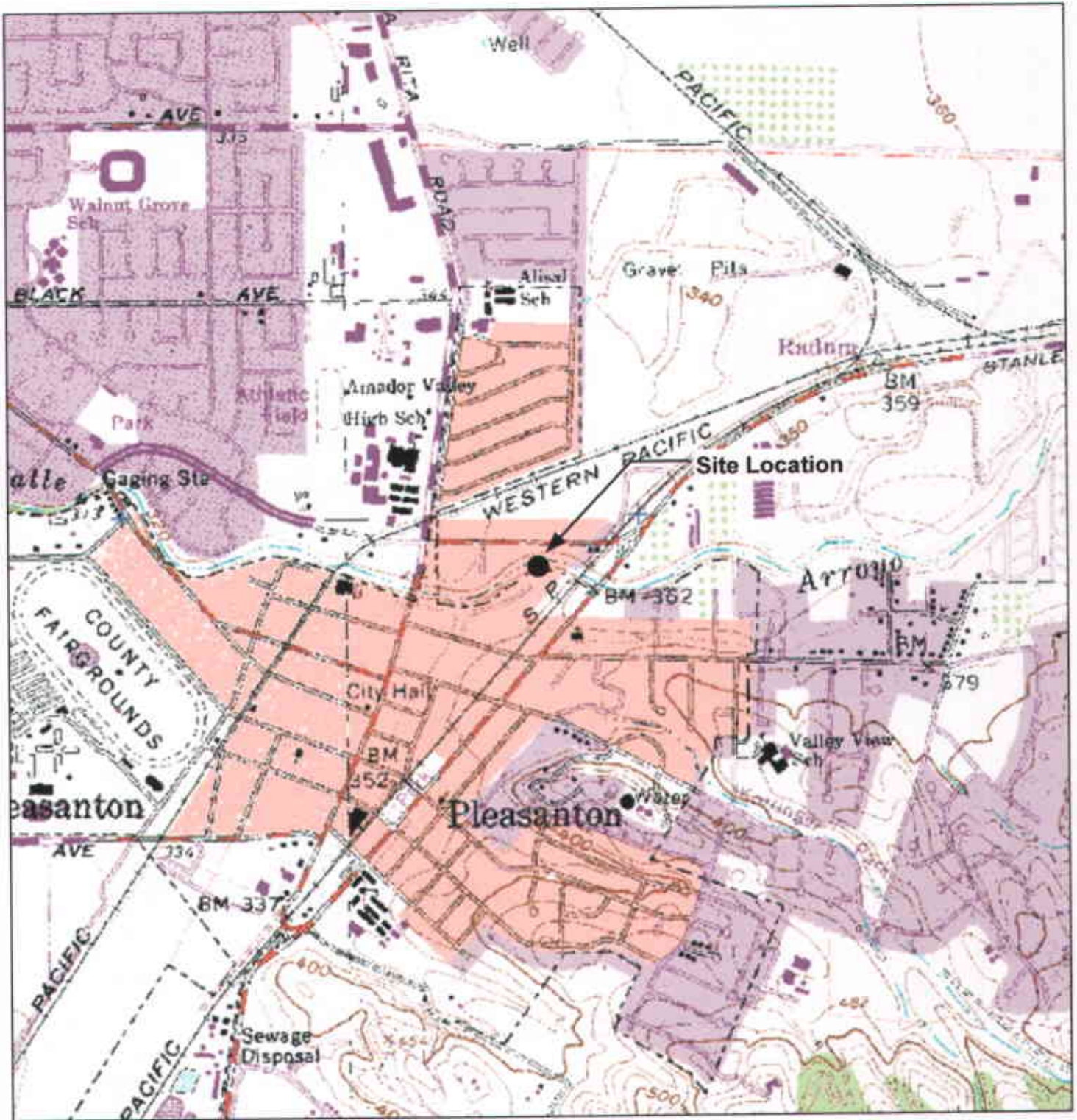


R. Lee Dooley  
Senior Hydrogeologist  
CHG 0183



- Attachments: Figure 1 – Site Location Map  
Figure 2 – Groundwater Elevation Contour Map, May 5, 2005  
Figure 3 – TPH-G, Benzene, and MTBE Concentration Map, May 5, 2005  
Attachment A – Groundwater Monitoring and Sampling Report, May 25, 2005

cc: Denis Brown, Shell Oil Products US, Carson



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



QUADRANGLE LOCATION

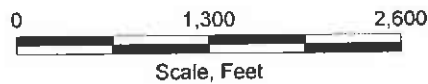
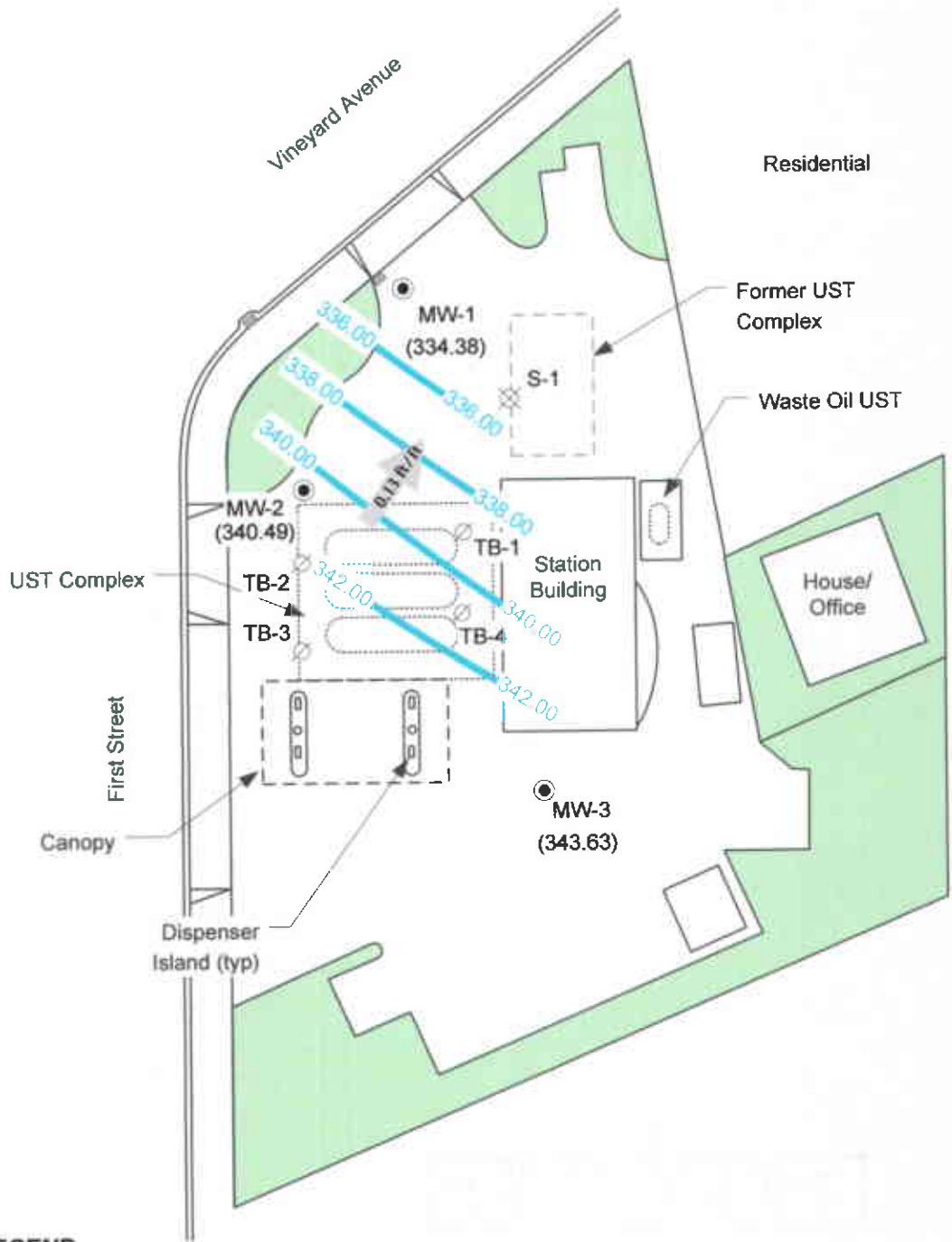
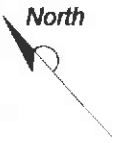


FIGURE 1  
 SITE LOCATION MAP

SHELL-BRANDED SERVICE STATION  
 4226 First Street  
 Pleasanton, California

PROJECT NO. SJ42-26F-1.2005	DRAWN BY V. F. 51505
FILE NO. SJ42-26F-1.2005	PREPARED BY VF
REVISION NO.	REVIEWED BY





**LEGEND**

- MW-2 ● **GROUNDWATER MONITORING WELL LOCATION**
- S-1 ⊗ **DESTROYED WELL**
- TB-1 ∅ **ABANDONED TANK BACKFILL WELL LOCATION**
- (343.63) **GROUNDWATER ELEVATION (FEET - MSL), 5/5/05**
- 343.00 — **GROUNDWATER ELEVATION CONTOUR**
- ← 0.02 ft/ft **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**

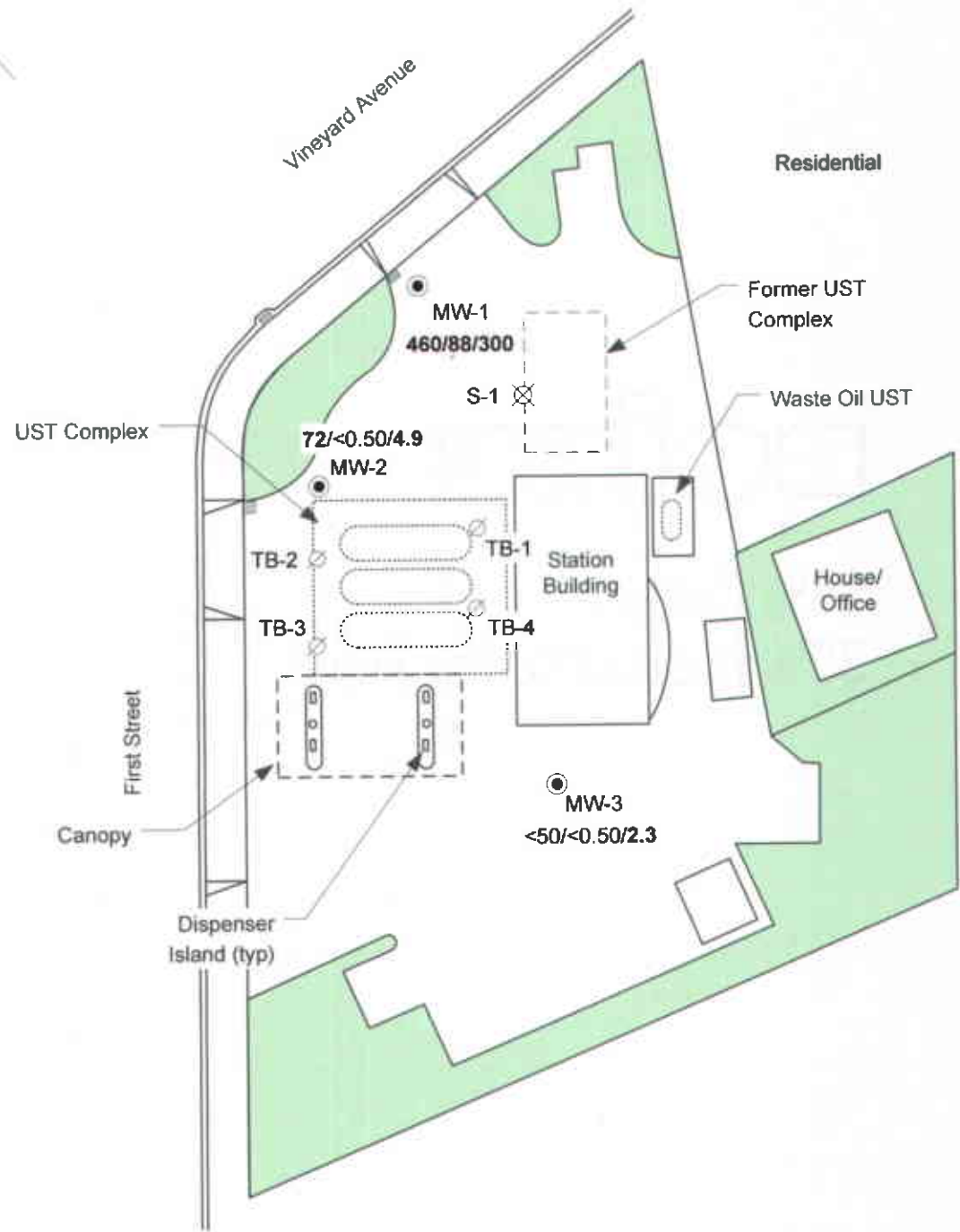


**FIGURE 2**  
**GROUNDWATER ELEVATION CONTOUR MAP, MAY 5, 2005**  
**SHELL-BRANDED SERVICE STATION**  
**4226 First Street**  
**Pleasanton, California**

PROJECT NO. S.J42-25F-1.2005	DRAWN BY V.F. 5/9/05
FILE NO. S.J42-25F-1.2005	PREPARED BY J.T.
REVISION NO. 2	REVIEWED BY

**Delta**  
Environmental  
Consultants, Inc.

BaseMap from: Cambria Environmental Technology, Inc. and Toxicchem Management Systems, Inc.



APPROX. SCALE

**LEGEND**

- MW-2 ● **GROUNDWATER MONITORING WELL LOCATION**
- S-1 ⊗ **DESTROYED WELL**
- TB-1 ⊗ **ABANDONED TANK BACKFILL WELL LOCATION**

<50/0.50/0.50 **TPH-G/BENZENE/MTBE CONCENTRATION MAP, 5/5/05**

**FIGURE 3**  
**TPH-G, BENZENE, AND MTBE CONCENTRATION MAP,**  
**MAY 5, 2005**

**SHELL-BRANDED SERVICE STATION**  
**4226 First Street**  
**Pleasanton, California**

PROJECT NO. S.J42-25F-1 2005	DRAWN BY V.F. 5/9/05
FILE NO. S.J42-25F-1 2005	PREPARED BY J.T.
REVISION NO. 2	REVIEWED BY:

**Delta**  
Environmental  
Consultants, Inc.

BaseMap from: Cambria Environmental Technology, Inc. and Toxichem Management Systems, Inc.

**Attachment A**

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**GROUNDWATER MONITORING AND SAMPLING REPORT**

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**BLAINE**  
**TECH SERVICES INC.**

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GROUNDWATER SAMPLING SPECIALISTS  
SINCE 1985

May 25, 2005

Denis Brown  
Shell Oil Products US  
2095 South Wilmington Avenue  
Carson, CA 90810

Second Quarter 2005 Groundwater Monitoring at  
Shell-branded Service Station  
4226 First Street  
Pleasanton, CA

Monitoring performed on May 5, 2005

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Groundwater Monitoring Report **050505-PC-2**

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. Purgewater (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.

SAN JOSE

SACRAMENTO

LOS ANGELES

SAN DIEGO

1680 ROGERS AVENUE

SAN JOSE, CA 95112-1105

(408) 573-0655

FAX (408) 573-7771

LIC. 746664

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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: Vera Fischer  
Delta Environmental  
175 Bernal Rd., Suite 200  
San Jose, CA 95119



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4226 First Street**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	06/16/1999	NA	NA	NA	NA	NA	NA	NA	371.20	37.81	333.39
MW-1	06/30/1999	89.0	5.89	<0.500	<0.500	0.652	<5.00	NA	371.20	33.65	337.55
MW-1	09/24/1999	1,560	473	<10.0	<10.0	22.8	<2.50	NA	371.20	37.04	334.16
MW-1	12/08/1999	1,020	375	<5.00	<5.00	15.2	<50.0	NA	371.20	36.79	334.41
MW-1	02/10/2000	523	106	<5.00	<5.00	31.8	2.90	NA	371.20	34.90	336.30
MW-1	05/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	37.0	29.5	371.20	32.55	338.65
MW-1	08/03/2000	808	290	<2.50	<2.50	8.90	<12.5	NA	371.20	39.13	332.07
MW-1	10/31/2000	507	250	0.962	<0.500	23.5	3.76	NA	371.20	37.91	333.29
MW-1	03/01/2001	<50.0	<0.500	<0.500	<0.500	<0.500	74.6	NA	371.20	39.60	331.60
MW-1	05/30/2001	780	280	<2.0	<2.0	11	NA	<2.0	371.20	39.53	331.67
MW-1	08/02/2001	1,900	580	<2.5	<2.5	12	NA	<25	371.20	39.61	331.59
MW-1	12/06/2001	840	190	<0.50	<0.50	13	NA	<5.0	371.20	39.63	331.57
MW-1	02/05/2002	2,700	650	<2.5	<2.5	7.2	NA	<25	371.20	35.53	335.67
MW-1	06/17/2002	2,500	550	<2.0	<2.0	5.9	NA	<20	371.20	39.29	331.91
MW-1	07/25/2002	690	130	<0.50	<0.50	4.4	NA	18	371.20	39.39	331.81
MW-1	11/14/2002	400	31	<0.50	<0.50	2.7	NA	27	371.20	40.00	331.20
MW-1	02/12/2003	840	0.85	<0.50	<0.50	<0.50	NA	40	371.20	32.92	338.28
MW-1	05/14/2003	680	190	<2.5	<2.5	<5.0	NA	95	371.20	32.57	338.63
MW-1	07/29/2003	870	190	<2.5	<2.5	<5.0	NA	150	371.20	33.82	337.38
MW-1	11/19/2003	<200	14	<2.0	<2.0	<4.0	NA	230	371.20	38.28	332.92
MW-1	02/19/2004	58 d	11	<0.50	<0.50	<1.0	NA	85	371.20	36.93	334.27
MW-1	05/03/2004	670	310	<2.5	<2.5	<5.0	NA	420	371.20	32.70	338.50
MW-1	08/24/2004	430 d	34	<2.5	<2.5	<5.0	NA	690	371.20	34.66	336.54
MW-1	11/15/2004	<250	29	<2.5	<2.5	<5.0	NA	470	371.20	38.27	332.93
MW-1	02/02/2005	540 e	87	<2.5	<2.5	<5.0	NA	700	371.20	32.02	339.18
<b>MW-1</b>	<b>05/05/2005</b>	<b>460 e</b>	<b>88</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;5.0</b>	<b>NA</b>	<b>300</b>	<b>371.20</b>	<b>36.82</b>	<b>334.38</b>
MW-2	02/03/2000	NA	NA	NA	NA	NA	NA	NA	372.40	32.65	339.75
MW-2	02/07/2000	NA	NA	NA	NA	NA	NA	NA	372.40	35.51	336.89

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4226 First Street**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-2	02/10/2000	<50.0	<0.500	<0.500	<0.500	<0.500	2.61	NA	372.40	36.62	335.78
MW-2	05/17/2000	120	4.09	<0.500	<0.500	<0.500	29.0	NA	372.40	32.14	340.26
MW-2	08/03/2000	<50.0	0.692	<0.500	<0.500	<0.500	40.5	36.6b	372.40	32.42	339.98
MW-2	10/31/2000	<50.0	<0.500	<0.500	<0.500	<0.500	57.4	44.8c	372.40	33.02	339.38
MW-2	03/01/2001	173	1.64	1.65	2.86	3.97	127	167	372.40	32.54	339.86
MW-2	05/30/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	170	372.40	32.42	339.98
MW-2	08/02/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	160	372.40	32.55	339.85
MW-2	12/06/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	170	372.40	33.15	339.25
MW-2	02/05/2002	<50	0.72	<0.50	<0.50	1.7	NA	170	372.40	32.29	340.11
MW-2	06/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	260	372.40	32.63	339.77
MW-2	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	280	372.40	32.80	339.60
MW-2	11/14/2002	120	13	9.0	3.8	14	NA	430	372.40	33.31	339.09
MW-2	02/12/2003	<100	<1.0	<1.0	<1.0	<1.0	NA	430	372.40	32.15	340.25
MW-2	05/14/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	470	372.40	32.01	340.39
MW-2	07/29/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	670	372.40	32.51	339.89
MW-2	11/19/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	54	372.40	33.83	338.57
MW-2	02/19/2004	65	<0.50	3.4	1.4	6.5	NA	8.2	372.40	32.68	339.72
MW-2	05/03/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	5.2	372.40	32.07	340.33
MW-2	08/24/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	2.7	372.40	32.44	339.96
MW-2	11/15/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	1.3	372.40	32.95	339.45
MW-2	02/02/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	24	372.40	31.94	340.46
<b>MW-2</b>	<b>05/05/2005</b>	<b>72 f</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>NA</b>	<b>4.9</b>	<b>372.40</b>	<b>31.91</b>	<b>340.49</b>
MW-3	02/03/2000	NA	NA	NA	NA	NA	NA	NA	375.05	32.06	342.99
MW-3	02/07/2000	NA	NA	NA	NA	NA	NA	NA	375.05	32.57	342.48
MW-3	02/10/2000	180	5.12	<0.500	<0.500	0.714	26.8	21.5a	375.05	32.77	342.28
MW-3	05/17/2000	1,360	414	<5.00	<5.00	17.6	<25.0	NA	375.05	31.00	344.05
MW-3	08/03/2000	<50.0	0.536	<0.500	<0.500	<0.500	22.0	NA	375.05	31.03	344.02
MW-3	10/31/2000	<50.0	<0.500	<0.500	<0.500	<0.500	31.1	NA	375.05	31.28	343.77

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4226 First Street**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-3	03/01/2001	384	172	0.815	<0.500	8.00	5.16	NA	375.05	31.21	343.84
MW-3	05/30/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	110	375.05	31.02	344.03
MW-3	08/02/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	93	375.05	30.94	344.11
MW-3	12/06/2001	110	<0.50	<0.50	<0.50	2.3	NA	180	375.05	31.28	343.77
MW-3	02/05/2002	<50	0.89	0.60	<0.50	2.1	NA	130	375.05	31.12	343.93
MW-3	06/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	72	375.05	31.21	343.84
MW-3	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	81	375.05	30.96	344.09
MW-3	11/14/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	60	375.05	31.44	343.61
MW-3	02/12/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	43	375.05	31.28	343.77
MW-3	05/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	24	375.05	31.20	343.85
MW-3	07/29/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	21	375.05	31.29	343.76
MW-3	11/19/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	8.2	375.05	31.86	343.19
MW-3	02/19/2004	81	0.67	4.4	1.8	8.6	NA	13	375.05	31.66	343.39
MW-3	05/03/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	13	375.05	31.72	343.33
MW-3	08/24/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	10	375.05	32.09	342.96
MW-3	11/15/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	6.6	375.05	31.50	343.55
MW-3	02/02/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	3.1	375.05	31.28	343.77
<b>MW-3</b>	<b>05/05/2005</b>	<b>&lt;50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>NA</b>	<b>2.3</b>	<b>375.05</b>	<b>31.42</b>	<b>343.63</b>
TB-1	02/12/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA
TB-1	02/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	12.54	NA
TB-1	05/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	12.31	NA
TB-2	02/12/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA
TB-2	02/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	12.56	NA
TB-2	05/14/2003	Insufficient water		NA	NA	NA	NA	NA	NA	12.54	NA
TB-3	02/12/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-3	02/28/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4226 First Street**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
TB-3	05/14/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-4	02/12/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-4	02/28/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-4	05/14/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Abbreviations:**

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to May 30, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to May 30, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary butyl ether

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:**

a = Sample was analyzed outside of the EPA recommended holding time.

b = Concentration is an estimate value above the linear quantitation range.

c = The result reported was generated out of time. The sample was originally run within hold time, but needed to be re-analyzed.

d = Sample contains discrete peak in addition to gasoline.

e = Quantity of unknown hydrocarbon(s) in sample based on gasoline.

f = The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

Well MW-1 surveyed on May 4, 1999 by Virgil Chavez Land Surveying of Vallejo, CA.

Site surveyed on March 19, 2000 by Virgil Chavez Land Surveying of Vallejo, CA.

Site surveyed on January 15, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

**Blaine Tech Services, Inc.**

May 20, 2005

1680 Rogers Avenue  
San Jose, CA 95112-1105  
Attn.: Leon Gearhart  
Project#: 050505-PC2  
Project: 98995840  
Site: 4226 First Street, Pleasanton

Dear Mr. Gearhart,

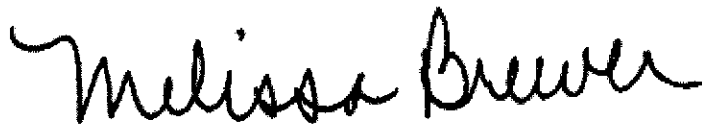
Attached is our report for your samples received on 05/06/2005 14:38  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
06/20/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

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

Sincerely,



Melissa Brewer  
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: 050505-PC2

98995840

Received: 05/06/2005 14:38

Site: 4226 First Street, Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-1	05/05/2005 13:35	Water	1
MW-2	05/05/2005 13:44	Water	2
MW-3	05/05/2005 13:02	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

05/18/2005 16:14

**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: 050505-PC2  
98995840

Received: 05/06/2005 14:38

Site: 4226 First Street, Pleasanton

Prep(s): 5030B Test(s): 8260B  
Sample ID: MW-1 Lab ID: 2005-05-0246 - 1  
Sampled: 05/05/2005 13:35 Extracted: 5/17/2005 09:15  
Matrix: Water QC Batch#: 2005/05/17-1B.68  
Analysis Flag: L2, pH: <2 ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	460	250	ug/L	5.00	05/17/2005 09:15	Q1
Benzene	88	2.5	ug/L	5.00	05/17/2005 09:15	
Toluene	ND	2.5	ug/L	5.00	05/17/2005 09:15	
Ethylbenzene	ND	2.5	ug/L	5.00	05/17/2005 09:15	
Total xylenes	ND	5.0	ug/L	5.00	05/17/2005 09:15	
Methyl tert-butyl ether (MTBE)	300	2.5	ug/L	5.00	05/17/2005 09:15	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	97.8	73-130	%	5.00	05/17/2005 09:15	
Toluene-d8	90.9	81-114	%	5.00	05/17/2005 09:15	

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05/18/2005 16:14

**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: 050505-PC2

98995840

Received: 05/06/2005 14:38

Site: 4226 First Street, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-2	Lab ID: 2005-05-0246 - 2
Sampled: 05/05/2005 13:44	Extracted: 5/17/2005 09:33
Matrix: Water	QC Batch#: 2005/05/17-1B.68
pH: <2	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	72	50	ug/L	1.00	05/17/2005 09:33	Q6
Benzene	ND	0.50	ug/L	1.00	05/17/2005 09:33	
Toluene	ND	0.50	ug/L	1.00	05/17/2005 09:33	
Ethylbenzene	ND	0.50	ug/L	1.00	05/17/2005 09:33	
Total xylenes	ND	1.0	ug/L	1.00	05/17/2005 09:33	
Methyl tert-butyl ether (MTBE)	4.9	0.50	ug/L	1.00	05/17/2005 09:33	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	107.4	73-130	%	1.00	05/17/2005 09:33	
Toluene-d8	94.5	81-114	%	1.00	05/17/2005 09:33	

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05/18/2005 16:14



**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: 050505-PC2  
98995840

Received: 05/06/2005 14:38

Site: 4226 First Street, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-3	Lab ID: 2005-05-0246 - 3
Sampled: 05/05/2005 13:02	Extracted: 5/17/2005 09:50
Matrix: Water	QC Batch#: 2005/05/17-1B.68
pH: <2	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	05/17/2005 09:50	
Benzene	ND	0.50	ug/L	1.00	05/17/2005 09:50	
Toluene	ND	0.50	ug/L	1.00	05/17/2005 09:50	
Ethylbenzene	ND	0.50	ug/L	1.00	05/17/2005 09:50	
Total xylenes	ND	1.0	ug/L	1.00	05/17/2005 09:50	
Methyl tert-butyl ether (MTBE)	2.3	0.50	ug/L	1.00	05/17/2005 09:50	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	101.8	73-130	%	1.00	05/17/2005 09:50	
Toluene-d8	91.6	81-114	%	1.00	05/17/2005 09:50	

**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: 050505-PC2

98995840

Received: 05/06/2005 14:38

Site: 4226 First Street, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/05/17-1B.68-010

Water

Test(s): 8260B

QC Batch # 2005/05/17-1B.68

Date Extracted: 05/17/2005 07:10

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	05/17/2005 07:10	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/17/2005 07:10	
Benzene	ND	0.5	ug/L	05/17/2005 07:10	
Toluene	ND	0.5	ug/L	05/17/2005 07:10	
Ethylbenzene	ND	0.5	ug/L	05/17/2005 07:10	
Total xylenes	ND	1.0	ug/L	05/17/2005 07:10	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	89.0	73-130	%	05/17/2005 07:10	
Toluene-d8	93.8	81-114	%	05/17/2005 07:10	

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05/18/2005 16:14

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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San Jose, CA 95112-1105

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

Project: 050505-PC2

98995840

Received: 05/06/2005 14:38

Site: 4226 First Street, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/05/17-1B.68**

LCS 2005/05/17-1B.68-053

Extracted: 05/17/2005

Analyzed: 05/17/2005 06:53

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	19.8		25	79.2			65-165	20		
Benzene	22.5		25	90.0			69-129	20		
Toluene	23.1		25	92.4			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	371		500	74.2			73-130			
Toluene-d8	482		500	96.4			81-114			

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**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: 050505-PC2

98995840

Received: 05/06/2005 14:38

Site: 4226 First Street, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/05/17-1B.68**

MS/MSD

Lab ID: 2005-05-0309 - 004

MS: 2005/05/17-1B.68-025

Extracted: 05/17/2005

Analyzed: 05/17/2005 10:25

Dilution: 1.00

MSD: 2005/05/17-1B.68-042

Extracted: 05/17/2005

Analyzed: 05/17/2005 10:42

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	19.8	20.9	ND	25	79.2	83.6	5.4	65-165	20		
Benzene	20.8	23.1	ND	25	83.2	92.4	10.5	69-129	20		
Toluene	21.1	23.0	ND	25	84.4	92.0	8.6	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	402	386		500	80.4	77.2		73-130			
Toluene-d8	454	490		500	90.8	98.0		81-114			

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05/18/2005 16:14

**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: 050505-PC2  
98995840

Received: 05/06/2005 14:38

Site: 4226 First Street, Pleasanton

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**Legend and Notes**

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**Analysis Flag**

L2

Reporting limits were raised due to high level of analyte present in the sample.

**Result Flag**

Q1

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

Q6

The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

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05/18/2005 16:14

LAB: STL

# SHELL Chain Of Custody Record

114882

Lab Identification (if necessary)

Address:

City, State, Zip

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CANT HOUSTON

Denis Brown

2005-05-0246

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 8 4 0

SAP or CRMT NUMBER (TS/CRMT)

DATE: 5/5/05

PAGE: 1 of 1

SAMPLER COMPANY: <b>Blaine Tech Services</b>		LOG CODE: <b>BTSS</b>	SITE ADDRESS (Street and City): <b>4226 First Street, Pleasanton</b>		GLOBAL ID NO.: <b>T0600101259</b>
ADDRESS: <b>1689 Rogers Avenue, San Jose, CA 95112</b>		EOP DELIVERABLE TO (Responsible Party or Designer): <b>Vera Fisher</b>		PHONE NO.: <b>(408) 224-4724</b>	E-MAIL: <b>vfisher@deloach.com</b>
PROJECT CONTACT (If necessary or RDP Report to): <b>Leon Gearhart</b>		SAMPLER NAME(S) (Print): <b>P. Conroy</b>		CORRELATION PROJECT NO.: <b>050505-PC</b>	
TELEPHONE: <b>408-573-0555</b>	FAX: <b>408-573-7771</b>	E-MAIL: <b>lgearhart@blainetech.com</b>		LAB USE ONLY	

TURNAROUND TIME (BUSINESS DAYS):  
 10 DAYS  5 DAYS  72 HOURS  48 HOURS  24 HOURS  LESS THAN 24 HOURS

IA - RWQCB REPORT FORMAT  UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING: \_\_\_\_\_ ALL \_\_\_\_\_

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EGO IS NOT REEDED

REQUESTED ANALYSIS

TPH - Gas, Plugable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (A) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDS (8260B)	TPH - Diesel, Extractable (8015n)
X	C	1							
1	A	1							
1	A	1							

FIELD NOTES:  
Container/Preservative or PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT OF: 2

Requested by: (Signature) <i>D.H. Wu</i>	Received by: (Signature) <i>[Signature]</i>	Date: 5/6/05	Time: 1438
Requested by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 5/6/05	Time: 1624
Requested by: (Signature)	Received by: (Signature)	Date:	Time:

DISTRIBUTION: White with final report. Green to File, Yellow and Pink to Client.

RT/SCM Revisions

CSC Engineering (714) 896-9700

# WELLHEAD INSPECTION CHECKLIST

Client Swell Date 5/5/05

Site Address 4226 1st St., Pleasanton

Job Number 050505-RZ Technician P. Corvish

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-1	A		↑					
MW-2	A		↑					
MW-3	A		R					

NOTES: ORC's removed from wells MW-2, MW-3

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## WELL GAUGING DATA

Project # 050505-PCZ

Date 5/5/05

Client Shell

Site 4226 1<sup>st</sup> St., Pleasanton

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or <del>TOC</del>
MW-1	2					36.82	57.19	TOL
MW-2	4					31.91	45.80	↓
MW-3	4					31.49	39.59	



### SHELL WELL MONITORING DATA SHEET

BTS #: <u>050505-PC2</u>	Site: <u>9899 5840</u>
Sampler: <u>PC</u>	Date: <u>5/5/05</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>(2) 3 4 6 8</u>
Total Well Depth (TD): <u>57.19</u>	Depth to Water (DTW): <u>36.82</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>40.89</u>	

Purge Method: Bailer	Waterra	Sampling Method:
Disposable Bailer	Peristaltic	<input checked="" type="checkbox"/> Bailer
<input checked="" type="checkbox"/> Positive Air Displacement	Extraction Pump	Disposable Bailer
Electric Submersible	Other _____	Extraction Port
		Dedicated Tubing
		Other: _____

<u>33</u> (Gals.) X <u>3</u> = <u>99</u> 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 <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or <del>µS</del> )	Turbidity (NTUs)	Gals. Removed	Observations
<u>1245</u>	<u>67.7</u>	<u>7.7</u>	<u>2095</u>	<u>159</u>	<u>3.5</u>	<u>clear</u>
<u>1252</u>	<u>67.2</u>	<u>8.3</u>	<u>1872</u>	<u>201</u>	<u>7</u>	<u> </u>
<u>1259</u>	<u>66.7</u>	<u>7.7</u>	<u>1863</u>	<u>251</u>	<u>10.5</u>	<u> </u>

Did well dewater? Yes  No  Gallons actually evacuated: 10.5

Sampling Date: 5/5/05 Sampling Time: 1335 Depth to Water: 42.15 <sup>site</sup> <sub>depth.</sub>

Sample I.D.: MW-1 Laboratory: ST 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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 050505-PC2 Site: 98995840  
Sampler: PC Date: 5/5/05  
Well I.D.: MW-2 Well Diameter: 2 3 ④ 6 8 \_\_\_\_  
Total Well Depth (TD): 45.80 Depth to Water (DTW): 31.9  
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]: 34.69

Purge Method: Bailer Waterra Sampling Method: Bailer  
Disposable Bailer Peristaltic Disposable Bailer  
Positive Air Displacement Extraction Pump Extraction Port  
Electric Submersible Other \_\_\_\_\_ Dedicated Tubing

Other: \_\_\_\_\_

9 (Gals.) X 3 = 27 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 <sup>1</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>①</u> )	Turbidity (NTUs)	Gals. Removed	Observations
<u>1225</u>	<u>68.4</u>	<u>8.0</u>	<u>1362</u>	<u>201</u>	<u>9</u>	
<u>1228</u>	<u>69.7</u>	<u>8.4</u>	<u>1377</u>	<u>109</u>	<u>18</u>	
	<u>well dewatered @ 19 gal</u>					
<u>1344</u>	<u>66.7</u>	<u>7.9</u>	<u>1434</u>	<u>111</u>		

Did well dewater? Yes No Gallons actually evacuated: 19

Sampling Date: 5/5/05 Sampling Time: 1344 Depth to Water: \_\_\_\_\_

Sample I.D.: MW-2 Laboratory: STI 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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

### SHELL WELL MONITORING DATA SHEET

BTS #: <u>050505-PC2</u>	Site: <u>98995840</u>
Sampler: <u>PC</u>	Date: <u>5/5/05</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth (TD): <u>34.59</u>	Depth to Water (DTW): <u>31.42</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>020</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>32.05</u>	

Purge Method: Bailer                      Waterra                      Sampling Method: Bailer  
                   Disposable Bailer                      Peristaltic                      Disposable Bailer  
                   Positive Air Displacement                      Extraction Pump                      Extraction Port  
                   A Electric Submersible                      Other \_\_\_\_\_                      Dedicated Tubing

2.1 (Gals.) X	<u>3</u> Specified Volumes	= <u>6.3</u> Gals.	Calculated Volume
---------------	----------------------------	--------------------	-------------------

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.63
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1215	65.3	7.9	890	27	2.1	
	well dewatered @ 3gal					
1302	66.5	6.9	1135	133		

Did well dewater? Yes No                      Gallons actually evacuated: 3

Sampling Date: 5/5/05                      Sampling Time: 1302                      Depth to Water: 32.01

Sample I.D.: MW-3                      Laboratory: STP 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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV



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Alameda County  
 JUL 12 2005  
 Environmental Health

www.deltaenv.com

**Letter of Transmittal**

To: Alameda County Health Agency Date: 7/8/2005  
 Department of Environmental Health  
 1131 Harbor Bay Parkway  
 Alameda, CA 94502-6577 Job No: SJ42-26F-1.2005

Attn: Mr. Jerry Wickham, P.G., CHG

We are sending the following items:

Date	Copies	Description
8-Jul-05	1	Quarterly Monitoring Report - Second Quarter 2005
		Shell-branded Service Station
		4226 First Street
		Pleasanton, California

These are transmitted:

- For your Information   
  For action specified below   
  For review and comment   
  For your use   
  As requested

**Remarks**

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By: Lee Dooley

cc. Denis Brown, Shell Oil Products US Title: Senior Hydrogeologist

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