

RO 194



Solving environment-related business problems worldwide

www.deltaenv.com

175 Bernal Road • Suite 200  
San Jose, California 95119 USA

408.224.4724 800.477.7411

Fax 408.225.8506

Alameda County  
OCT 17 2005  
Environmental Health

**Letter of Transmittal**

To: Alameda County Health Care Services Agency Date: 10/12/2005  
 Environmental Health Service - Environmental Protection  
 1131 Harbor Bay Parkway, Suite 250 Job No: SJ52-51H-1.2005  
 Alameda, California 94502-6577

Attn: Jerry Wickham

We are sending the following items:

Date	Copies	Description
12-Oct-05	1	Site Conceptual Model
		Shell-branded Service Station
		5251 Hopyard Road
		Pleasanton, California

These are transmitted:

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

**Remarks**

Copies to: \_\_\_\_\_ By: R. Lee Dooley  
 \_\_\_\_\_  
 \_\_\_\_\_ Title: Senior Hydrogeologist

The information contained in this transmission is confidential and only intended for the addressee. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution or action taken in reliance on the contents of this facsimile transmittal is strictly prohibited. If you have received this facsimile in error, please call us immediately to arrange for the return of these documents.



Solving environment-related business problems worldwide

www.deltaenv.com

175 Bernal Road • Suite 200  
San Jose, California 95119 USA  
408.224.4724 800.477.7411  
Fax 408.225.8506

October 15, 2005  
Project No. SJ52-51H-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 – Third Quarter 2005**  
**Shell-branded Service Station**  
**5251 Hopyard Road**  
**Pleasanton, California**

Alameda County  
OCT 17 2005  
Environmental Health

Dear Mr. Wickham:

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared the following third 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.

#### BACKGROUND

Groundwater monitoring has been ongoing since 1988. The groundwater monitoring program consisted of annual monitoring of site wells during the second quarter for total purgeable petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethyl benzene, and total xylenes (BTEX compounds); and the five fuel oxygenates: methyl tert-butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), and tert-butyl alcohol (TBA) using EPA Method 8260B.

Due to the detection of free product in a fuel piping trench during underground storage tank (UST) system upgrades in September 2004, a first quarter 2005 groundwater sampling event was scheduled to determine if the unauthorized realize of petroleum hydrocarbons had impacted groundwater beneath the site.



Shell Oil Products US

RO 194

October 12, 2005

Re: **Site Conceptual Model**  
**Shell-branded Service Station**  
**5251 Hopyard Road**  
**Pleasanton, California**

Alameda County  
OCT 17 2005  
Environmental Health

Dear Mr. Jerry Wickham:

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Sincerely,  
Shell Oil Products US

A handwritten signature in black ink, appearing to read "Denis L. Brown", is written over a horizontal line.

Denis L. Brown  
Sr. Environmental Engineer

## **QUARTERLY GROUND WATER MONITORING PROGRAM**

Groundwater monitoring wells were gauged and sampled by Blaine on August 5, 2005. Depth to groundwater was measured in Wells S-1 through S-8. Groundwater elevation data and contours are presented on Figure 2.

Groundwater samples were collected from Wells S-1 through S-8. Samples were submitted by Blaine to Severn Trent Laboratories, Inc. (STL) in Pleasanton, California for analysis for TPH-G, BTEX compounds, MTBE, di-isopropyl ether (DIPE), ethyl tert buty ether (ETBE), tert-amyl methyl ether (TAME), tert-butanol, and (TBA) using EPA Method 8260B. The groundwater samples collected from Wells S-1, S-2, S-3, and S-5 on August 5, 2005 were analyzed out of holding time. Blaine re-sampled those wells on September 16, 2005, these samples were also analyzed for TPH-G, BTEX compounds, MTBE, DIPE, ETBE, TAME, and TBA. 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 S-1 decreased by 2.28 feet since last quarter, depth to groundwater in Wells S-2, S-3, and S-5 through S-8 increased by an average of 0.23 feet since last quarter, while the depth to water in Well S-4 decreased by 0.11 feet since last quarter. The groundwater gradient on August 5, 2005 was radially inwards towards Well MW-1 at a magnitude ranging from 0.01 ft/ft to 0.015 ft/ft. The groundwater gradient at the site is variable.

TPH-G and BTEX compounds continue to be detected in Wells S-1 and MW-5; benzene was detected both samples collected from both wells at 32 ug/l and 14 ug/l, and 57 and 87 ug/l, respectively. MTBE continues to be detected in Wells S-1 through S-5, and S-7 at concentrations ranging from 6.0 ug/l to 320 ug/l. DIPE was detected in Well S-1 at 51 ug/l. TBA was detected in Wells S-1 through S-3, S-5, and S-7 at concentrations ranging from 7.5 ug/l to 1,800 ug/l. TPH-G, BTEX, and MTBE concentrations appear to be near historic levels.

Based on Delta's recommendation in its second quarter 2005 monitoring and sampling report, semi-annual monitoring during the first and third quarter has been implemented.

## **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.

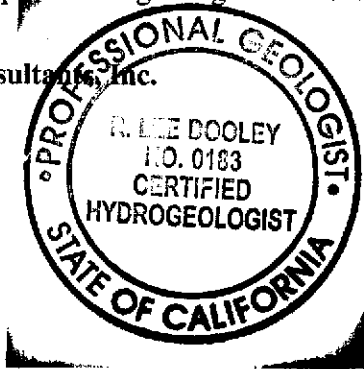
Please call if you have any questions regarding the contents of this letter.

Sincerely,

Delta Environmental Consultants, Inc.

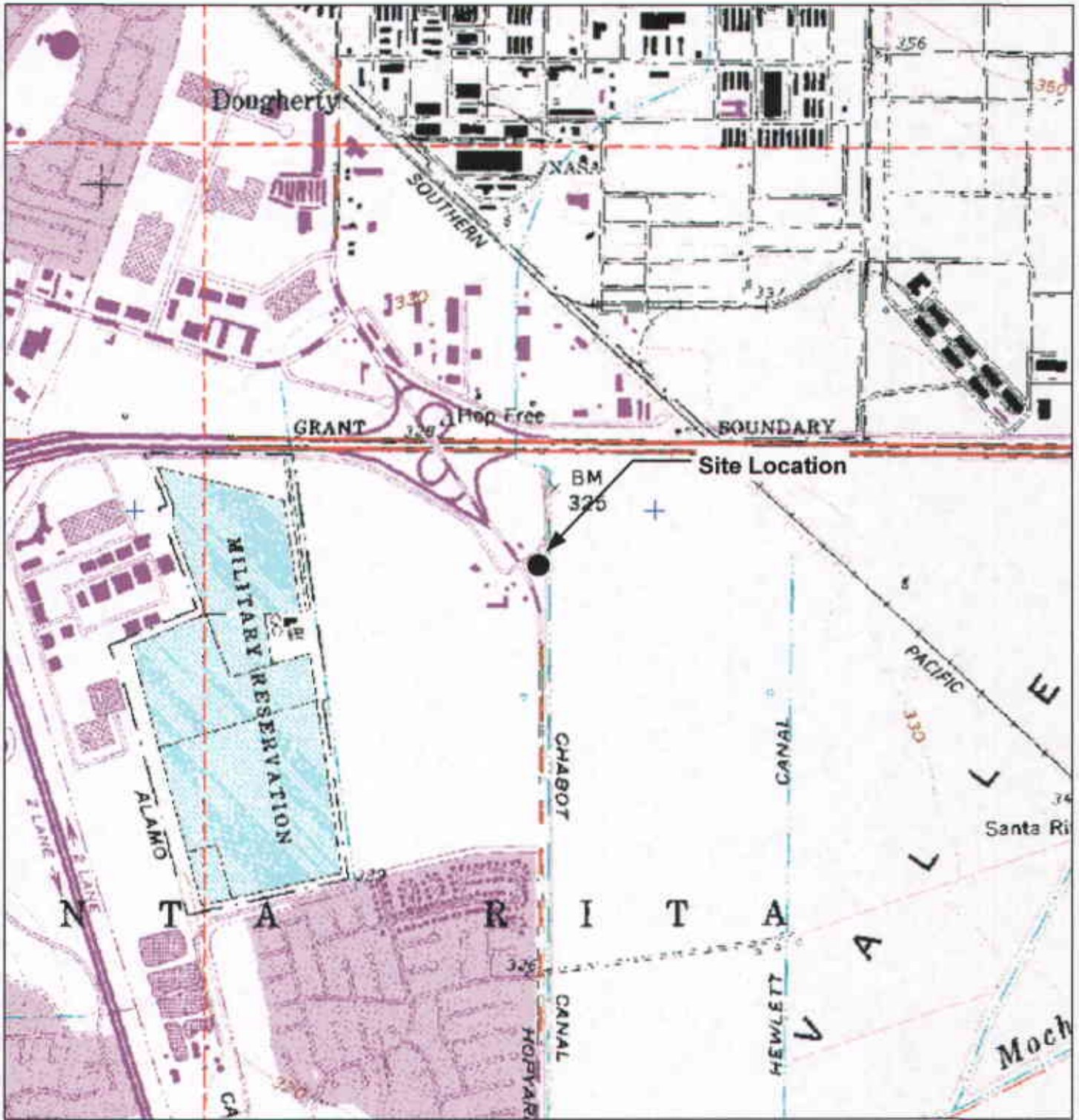


R. Lee Dooley  
Senior Hydrogeologist  
CHG 0183



- Attachments: Figure 1 – Site Location Map  
Figure 2 – Groundwater Elevation Contour Map, August 5, 2005  
Figure 3 – TPH-G, Benzene, and MTBE Concentration Map, August 5, 2005 and  
September 16, 2005  
Attachment A – Groundwater Monitoring and Sampling Report, September 29, 2005

cc: Carol Campagna, Shell Oil Products US, Carson



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



QUADRANGLE LOCATION



FIGURE 1  
 SITE LOCATION MAP

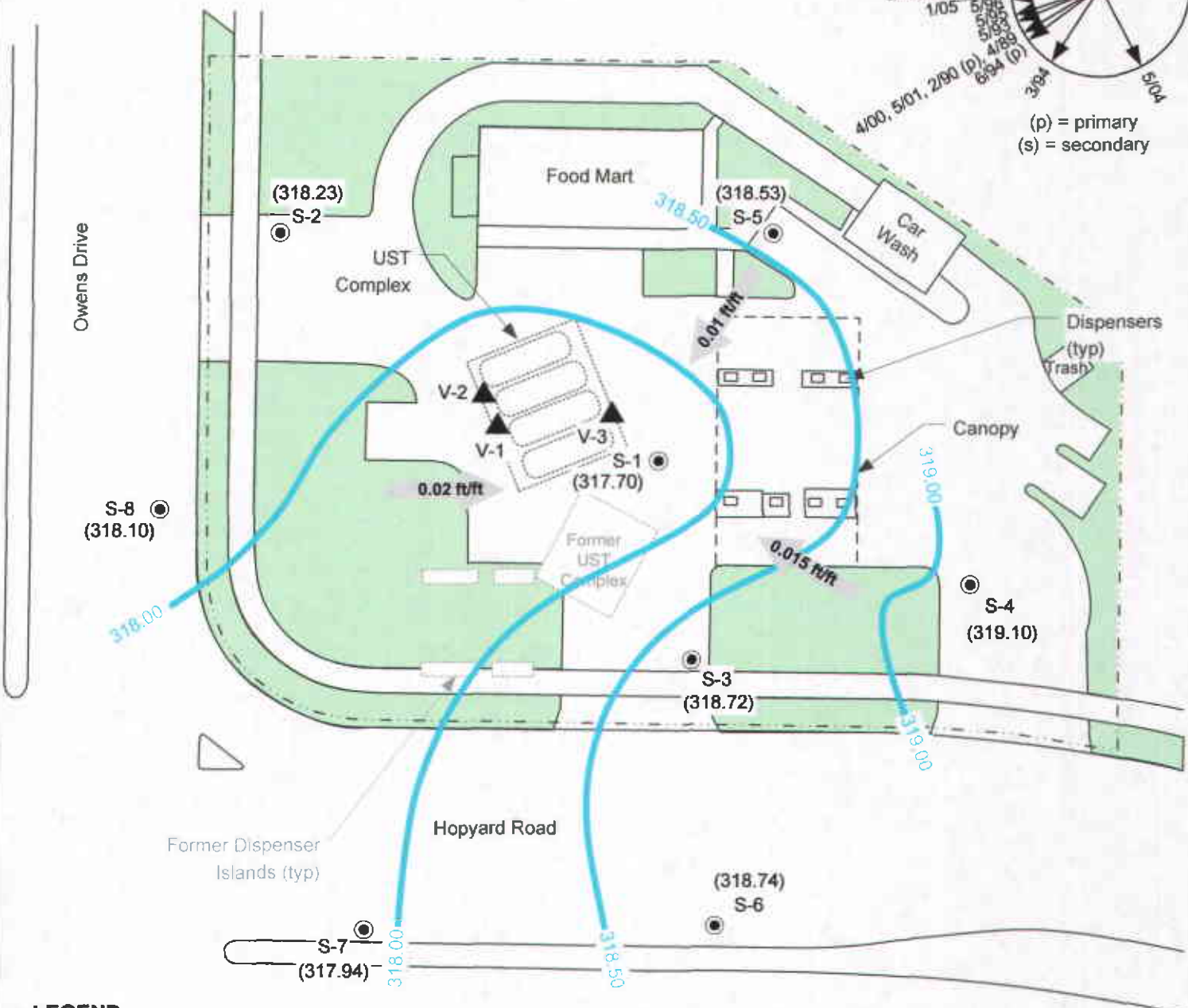
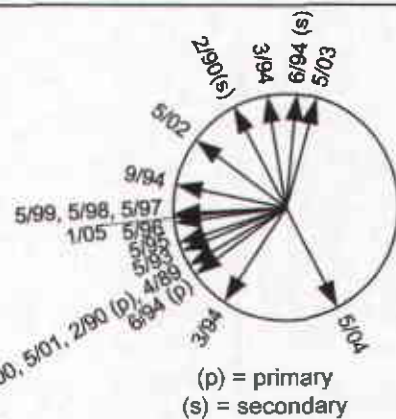
SHELL-BRANDED SERVICE STATION  
 5251 Hopyard Road  
 Pleasanton, California

PROJECT NO. SJ52-51H-1.2005	DRAWN BY V. F. 3/31/05
FILE NO. SJ52-51H-1.2005	PREPARED BY VF
REVISION NO.	REVIEWED BY



North

Parking



**LEGEND**

● **GROUNDWATER MONITORING WELL**

▲ **SOIL VAPOR EXTRACTION WELL**

(318.66) **GROUNDWATER ELEVATION (FEET-MSL), 8/5/05**

319.00 **GROUNDWATER ELEVATION CONTOUR**

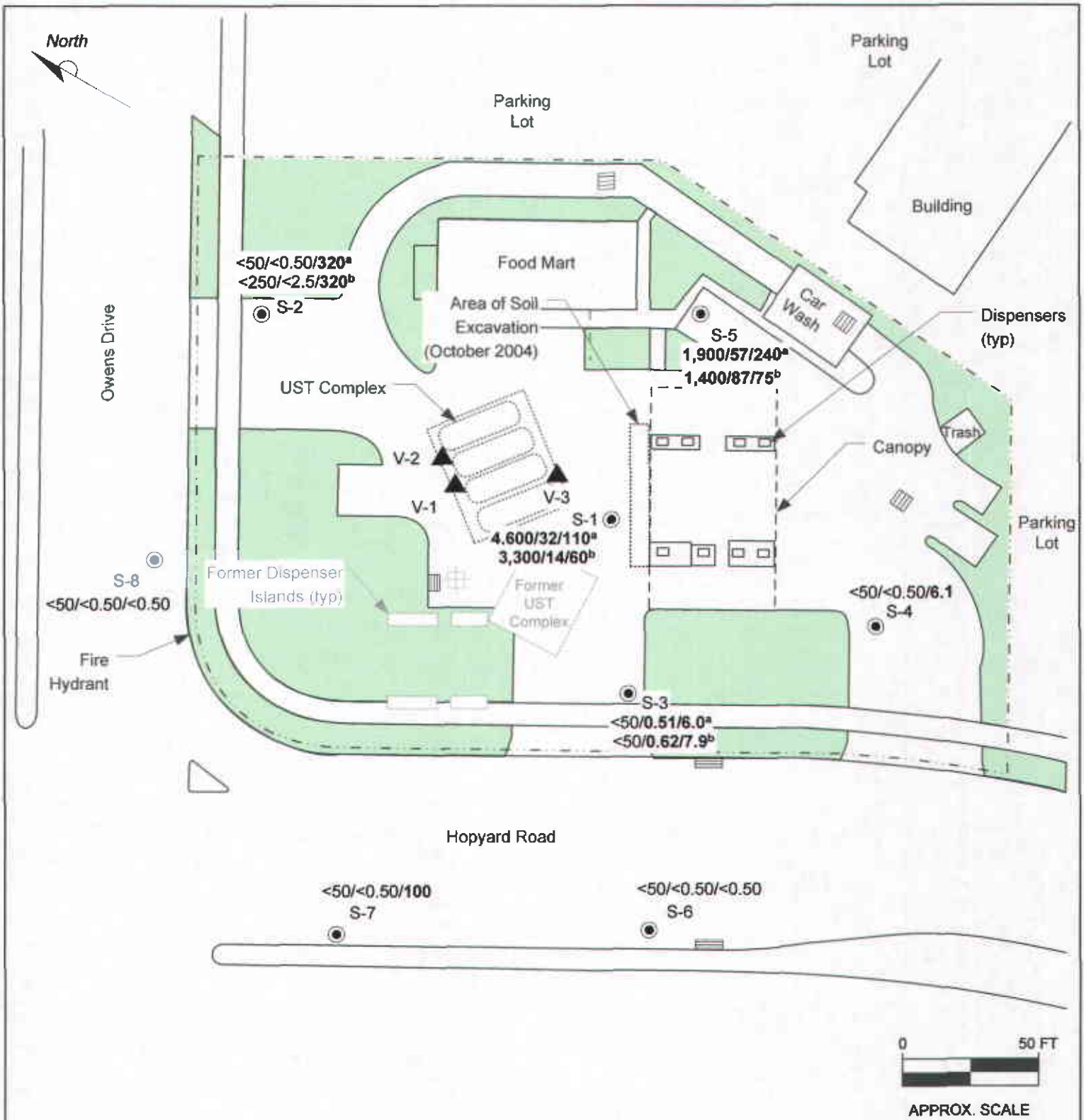
0.02 ft/ft **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**



**FIGURE 2**  
**GROUNDWATER ELEVATION CONTOUR MAP,**  
**AUGUST 5, 2005**  
**SHELL-BRANDED SERVICE STATION**  
**5251 Hopyard Road**  
**Pleasanton, California**

PROJECT NO. SJ52-51H-1.2005	DRAWN BY V. F. 3/30/05
FILE NO. SJ52-51H-1.2005	PREPARED BY V.F.
REVISION NO. 2	REVIEWED BY





**LEGEND**

- S-1 ● **GROUNDWATER MONITORING WELL**
- V-3 ▲ **SOIL VAPOR EXTRACTION WELL**
- <50/<0.50/<0.50 **TPH-G/BENZENE/MTBE CONCENTRATIONS (UG/L), 8/5/05**
- a **SAMPLED 8/5/05 - EXTRACTED OUT OF HOLDING TIME**
- b **RE-SAMPLED 9/16/05**

**FIGURE 3**  
**TPH-G, BENZENE, AND MTBE CONCENTRATION MAP,**  
**AUGUST 5, 2005 AND SEPTEMBER 16, 2005**  
**SHELL-BRANDED SERVICE STATION**  
**5251 Hopyard Road**  
**Pleasanton, California**

PROJECT NO. SJ52-51H-1-2005	DRAWN BY V. F. 3/30/05
FILE NO. SJ52-51H-1-2005	PREPARED BY V.F.
REVISION NO. 2	REVIEWED BY





**Attachment A**

---

**GROUNDWATER MONITORING AND SAMPLING REPORT**



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**  
**5251 Hopyard Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (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)	DO Reading (ppm)
S-1	01/25/1991	2,500	1,500	460	<25	130	36	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	04/06/1991	6,700	2,600a	2,600	14	580	250	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	07/24/1991	8,800	3,800a	2,300	30	640	220	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	10/18/1991	12,000	3,300a	3,600	380	990	580	NA	NA	NA	NA	NA	NA	326.73	8.85	317.88	NA
S-1	01/23/1992	1,600	890	450	3	120	17	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	04/27/1992	1,100g	500a	610	<10	110	10	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	07/21/1992	5,100	290c	1,900	54	460	140	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	10/16/1992	13,000	390c	3,200	310	780	360	NA	NA	NA	NA	NA	NA	326.73	NA	NA	NA
S-1	01/23/1993	2,300	30d	640	<5	110	13	NA	NA	NA	NA	NA	NA	326.73	7.96	318.77	NA
S-1	04/28/1993	4,600	390	780	<0.5	250	<0.5	NA	NA	NA	NA	NA	NA	326.73	9.07	317.66	NA
S-1	09/22/1993	3,000	610a	660	28	160	17	NA	NA	NA	NA	NA	NA	326.73	8.68	318.05	NA
S-1	12/08/1993	520	280	210	<2.5	49	<2.5	NA	NA	NA	NA	NA	NA	326.73	8.23	318.50	NA
S-1	03/04/1994	640	NA	190	1.4	18	1.3	NA	NA	NA	NA	NA	NA	326.73	8.81	317.92	NA
S-1 (D)	03/04/1994	640	NA	180	1.7	17	1.3	NA	NA	NA	NA	NA	NA	326.73	8.81	317.92	NA
S-1	06/16/1994	2,500	NA	390	9.5	31	7.5	NA	NA	NA	NA	NA	NA	326.73	8.80	317.93	NA
S-1 (D)	06/16/1994	2,000	NA	410	7.8	120	20	NA	NA	NA	NA	NA	NA	326.73	8.80	317.93	NA
S-1	09/13/1994	1,400	NA	310	7.7	29	8.5	NA	NA	NA	NA	NA	NA	326.73	8.62	318.11	NA
S-1 (D)	09/13/1994	1,400	NA	240	7.9	44	6.3	NA	NA	NA	NA	NA	NA	326.73	8.62	318.11	NA
S-1	05/05/1995	800	NA	120	3.6	26	2.7	NA	NA	NA	NA	NA	NA	326.73	11.54	315.19	NA
S-1 (D)	05/05/1995	710	NA	110	3.4	19	2.7	NA	NA	NA	NA	NA	NA	326.73	11.54	315.19	NA
S-1	05/21/1996	1,500	NA	170	8.5	120	6.7	NA	NA	NA	NA	NA	NA	326.73	8.88	317.85	NA
S-1	05/12/1997	4,700	NA	200	15	210	20	2,300	NA	NA	NA	NA	NA	326.73	11.19	315.54	2.4
S-1 (D)	05/12/1997	4,800	NA	210	16	190	16	3,200	2,900	NA	NA	NA	NA	326.73	11.19	315.54	2.4
S-1	05/08/1998	500	NA	18	2.1	2.3	2	1,000	NA	NA	NA	NA	NA	326.73	8.38	318.35	2.1
S-1	06/27/1999	2,970	NA	117	32.0	69.1	17.5	374	NA	NA	NA	NA	NA	326.73	8.79	317.94	2.4
S-1	04/28/2000	1,920	NA	50.5	15.0	67.2	46.7	276	NA	NA	NA	NA	NA	326.73	8.50	318.23	2.8

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**5251 Hopyard Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (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)	DO Reading (ppm)
S-1	05/30/2001	3,900	NA	27	12	140	28	NA	140	NA	NA	NA	NA	326.73	8.18	318.55	2.6
S-1	06/17/2002	2,700	NA	25	11	51	14	NA	140	NA	NA	NA	NA	326.73	8.39	318.34	3.2
S-1	05/30/2003	3,900	NA	12	8.2	47	12	NA	270	NA	NA	NA	NA	326.74	7.41	319.33	1.2
S-1	05/03/2004	3,700	NA	32	21	170	34	NA	410	NA	NA	NA	NA	326.74	11.18	315.56	2.4
S-1	01/14/2005	4,200	NA	22	34	380	33	NA	100	NA	NA	NA	NA	326.74	7.10	319.64	0.58
S-1	05/05/2005	5,000	NA	33	110	970	210	NA	190	<0.50	<0.50	0.95	630	326.74	11.32	315.42	NA
S-1	08/05/2005	4,600	NA	32	52	420	69	NA	110	<40	<40	<40	410	326.74	9.04	317.70	NA
S-1	09/16/2005	3,300	NA	14	28	280	43	NA	60	51	<10	<10	260	326.74	11.37	315.37	NA
S-2	01/25/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	04/16/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	10/18/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	8.83	317.76	NA
S-2	01/23/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	07/17/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	NA	NA	NA
S-2	01/23/1993	<50	140b	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	8.10	318.49	NA
S-2	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	9.06	317.53	NA
S-2	09/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.91	317.68	NA
S-2	12/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	9.07	317.52	NA
S-2	03/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.90	317.69	NA
S-2	06/16/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.98	317.61	NA
S-2	09/13/1994	<50	NA	<0.5	2.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	8.78	317.81	NA
S-2	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	8.60	317.99	NA
S-2	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.59	8.75	317.84	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**5251 Hopyard Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (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)	DO Reading (ppm)
---------	------	----------------	----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	----------------	----------------	----------------	---------------	--------------	----------------------------	--------------------------	------------------------

S-2	05/12/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	326.59	8.72	317.87	3.4
S-2	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	326.59	8.63	317.96	3.1
S-2	06/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	326.59	8.79	317.80	2.6
S-2	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	326.59	8.33	318.26	2.0
S-2	05/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA	326.59	8.56	318.03	1.8
S-2	06/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	326.59	8.87	317.72	i
S-2	05/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	18	NA	NA	NA	NA	326.47	7.89	318.58	1.7
S-2	05/03/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	NA	510	NA	NA	NA	NA	326.47	5.44	321.03	0.1
S-2	01/14/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	NA	270	NA	NA	NA	NA	326.47	7.88	318.59	NA
S-2	05/05/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	280	<0.50	<0.50	0.55	8.9 j	326.47	8.14	318.33	NA
S-2	08/05/2005 I	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	320	<2.0	<2.0	<2.0	510	326.47	8.24	318.23	NA
S-2	09/16/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	NA	320	<10	<10	<10	1,800	326.47	8.06	318.41	NA

S-3	01/25/1991	870	330	230	<2.5	130	<2.5	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	04/16/1991	190	140a	12	0.8	6.2	1.5	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	07/24/1991	1,700	1,200a	450	4.4	150	2.9	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	10/18/1991	1,900	500	370	3.1	120	220	NA	NA	NA	NA	NA	NA	327.38	9.64	317.74	NA
S-3	01/23/1992	2,000	650a	580	3	200	<0.5	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	04/27/1992	1,100	230a	150	<3	76	14	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	07/17/1992	810	58	200	<2.5	57	3.8	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	10/16/1992	440	190c	79	1.8	18	4.6	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-3	01/23/1993	670	170d	79	1.5	46	15	NA	NA	NA	NA	NA	NA	327.38	8.81	318.57	NA
S-3	04/28/1993	2,000	<50	300	3.4	210	38	NA	NA	NA	NA	NA	NA	327.38	9.87	317.51	NA
S-3	09/22/1993	4,800	670a	2,000	34	150	51	NA	NA	NA	NA	NA	NA	327.38	9.65	317.73	NA
S-3	12/08/1993	1,200	11	440	<5.0	120	29	NA	NA	NA	NA	NA	NA	327.38	9.26	318.12	NA
S-3	03/04/1994	630	NA	130	<0.5	17	0.8	NA	NA	NA	NA	NA	NA	327.38	9.64	317.74	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**5251 Hopyard Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (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)	DO Reading (ppm)
S-3	06/16/1994	1,800	NA	430	19	35	21	NA	NA	NA	NA	NA	NA	327.38	9.78	317.60	NA
S-3	05/05/1995	160	NA	50	0.9	7.2	4.1	NA	NA	NA	NA	NA	NA	327.38	9.38	318.00	NA
S-3	05/21/1996	270	NA	45	<0.5	1.4	<0.5	NA	NA	NA	NA	NA	NA	327.38	9.41	317.97	NA
S-3 (D)	05/21/1996	210	NA	<0.5	<0.5	0.95	<0.5	NA	NA	NA	NA	NA	NA	327.38	9.41	317.97	NA
S-3	05/12/1997	420	NA	<1.0	<1.0	<1.0	<1.0	57	NA	NA	NA	NA	NA	327.38	9.30	318.08	2.5
S-3	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	327.38	9.12	318.26	2.2
S-3	06/27/1999	106	NA	8.51	<0.500	<0.500	<0.500	31.0	NA	NA	NA	NA	NA	327.38	9.39	317.99	2.1
S-3	04/28/2000	139	NA	7.58	<0.500	<0.500	<0.500	42.6	NA	NA	NA	NA	NA	327.38	9.04	318.34	1.8
S-3	05/30/2001	2,200	NA	510	6.9	100	21	NA	33	NA	NA	NA	NA	327.38	9.19	318.19	2.0
S-3	06/17/2002	600	NA	150	2.1	30	11	NA	36	NA	NA	NA	NA	327.38	9.35	318.03	0.1
S-3	05/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	9.0	NA	NA	NA	NA	327.04	8.39	318.65	1.2
S-3	05/03/2004	61 k	NA	0.90	<0.50	<0.50	<1.0	NA	9.8	NA	NA	NA	NA	327.04	8.73	318.31	1.2
S-3	01/14/2005	94	NA	4.6	<0.50	3.1	1.0	NA	13	NA	NA	NA	NA	327.04	8.00	319.04	NA
S-3	05/05/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	5.7	<0.50	<0.50	<0.50	<5.0	327.04	8.31	318.73	NA
S-3	08/05/2005 I	<50	NA	0.51	<0.50	<0.50	<1.0	NA	6.0	<2.0	<2.0	<2.0	42	327.04	8.32	318.72	NA
S-3	09/16/2005	<50	NA	0.62	<0.50	<0.50	<1.0	NA	7.9	<2.0	<2.0	<2.0	<5.0	327.04	8.29	318.75	NA
S-4	01/25/1991	<50	<50	<0.5	1.5	<0.5	2.8	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	04/16/1991	<50	0.7	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	10/18/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	8.82	318.56	NA
S-4	01/23/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	07/17/1992	<500	74	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	10/16/1992	<500	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	NA	NA	NA
S-4	01/23/1993	<500	94b	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	8.32	319.06	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**5251 Hopyard Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (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)	DO Reading (ppm)
S-4	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	9.76	317.62	NA
S-4	09/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.30	318.08	NA
S-4	12/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.74	317.64	NA
S-4	03/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.60	317.78	NA
S-4	06/16/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.42	317.96	NA
S-4	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	9.02	318.36	NA
S-4	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.38	9.29	318.09	NA
S-4	05/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	140	NA	NA	NA	NA	NA	327.38	7.95	319.43	2.5
S-4	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	250	NA	NA	NA	NA	NA	327.38	8.96	318.42	2.0
S-4	06/27/1999	303	NA	35.8	24.8	12.4	69.8	106	NA	NA	NA	NA	NA	327.38	8.90	318.48	2.6
S-4	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	40.2	NA	NA	NA	NA	NA	327.38	8.37	319.01	1.9
S-4	05/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	6.8	NA	NA	NA	NA	327.38	8.83	318.55	1.8
S-4	06/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	31	NA	NA	NA	NA	327.38	9.37	318.01	4.8
S-4	05/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	130	NA	NA	NA	NA	327.24	8.46	318.78	1.4
S-4	05/03/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	170	NA	NA	NA	NA	327.24	8.70	318.54	1.1
S-4	01/14/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	25	NA	NA	NA	NA	327.24	8.17	319.07	NA
S-4	05/05/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	15	<0.50	<0.50	<0.50	<5.0	327.24	8.25	318.99	NA
<b>S-4</b>	<b>08/05/2005</b>	<b>&lt;50</b>	<b>NA</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>6.1</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;5.0</b>	<b>327.24</b>	<b>8.14</b>	<b>319.10</b>	<b>NA</b>

S-5	01/25/1991	<50	<50	<0.5	<0.5	<0.5	0.7	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	04/16/1991	<50	<50	<0.5	<0.5	<0.5	0.8	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	10/18/1991	120e	<50	4.3	<0.5	1	0.7	NA	NA	NA	NA	NA	NA	327.76	10.00	317.76	NA
S-5	01/23/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	04/27/1992	50	<50	<0.5	<0.5	<0.5	0.6	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	07/17/1992	<50	70	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**5251 Hopyard Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (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)	DO Reading (ppm)
S-5	10/16/1992	230	57	13	<0.5	4.9	4.3	NA	NA	NA	NA	NA	NA	327.76	NA	NA	NA
S-5	01/23/1993	<50	150b	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	8.88	318.88	NA
S-5	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	10.20	317.56	NA
S-5	09/22/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	9.92	317.84	NA
S-5	12/08/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	10.19	317.57	NA
S-5	03/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	9.95	317.81	NA
S-5	06/16/1994	<50	NA	0.9	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	10.02	317.74	NA
S-5	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	9.58	318.18	NA
S-5	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	327.76	9.84	317.92	NA
S-5	05/12/1997	360	NA	3.3	<0.50	17	9.8	130	NA	NA	NA	NA	NA	327.76	9.16	318.60	4.2
S-5	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	92	NA	NA	NA	NA	NA	327.76	9.25	318.51	3.8
S-5 (D)	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	100	NA	NA	NA	NA	NA	327.76	9.25	318.51	3.8
S-5	06/27/1999	223	NA	13.7	12.9	8.20	45.8	106	NA	NA	NA	NA	NA	327.76	9.39	318.37	3.0
S-5	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	255	NA	NA	NA	NA	NA	327.76	9.43	318.33	1.2
S-5	05/30/2001	<100	NA	<1.0	<1.0	<1.0	<1.0	NA	480	NA	NA	NA	NA	327.76	9.47	318.29	1.1
S-5	06/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	210	NA	NA	NA	NA	327.76	9.74	318.02	0.2
S-5	05/30/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	NA	450	NA	NA	NA	NA	327.43	8.87	318.56	1.7
S-5	05/03/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	NA	470	NA	NA	NA	NA	327.43	9.10	318.33	0.7
S-5	01/14/2005	<100	NA	<1.0	<1.0	<1.0	<2.0	NA	230	NA	NA	NA	NA	327.43	8.43	319.00	NA
S-5	05/05/2005	76	NA	16	<0.50	<0.50	<0.50	NA	120	<0.50	<0.50	<0.50	630	327.43	8.71	318.72	NA
S-5	08/05/2005	1,900	NA	57	7.5	22	17	NA	240	<4.0	<4.0	<4.0	480	327.43	8.90	318.53	NA
S-5	09/16/2005	1,400	NA	87	2.0	7.8	5.8	NA	75	<4.0	<4.0	<4.0	630	327.43	8.84	318.59	NA
S-6	01/25/1991	<50	<50	<0.5	1.7	<0.5	2.8	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	04/16/1991	<50	<50	<0.5	<0.5	<0.5	0.6	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	07/24/1991	<50	<50	<0.5	<0.5	<0.5	0.5	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**5251 Hopyard Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (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)	DO Reading (ppm)
S-6	10/18/1991	<50	<50	<0.5	<0.5	<0.5	0.5	NA	NA	NA	NA	NA	NA	326.56	8.84	317.22	NA
S-6	01/23/1992	<50	<50	<0.5	<0.5	<0.5	0.5	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	07/17/1992	400	130	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	NA	NA	NA
S-6	01/23/1993	<50	230b	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	7.82	318.74	NA
S-6	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	9.00	317.56	NA
S-6	09/22/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	8.61	317.96	NA
S-6	12/08/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	10.02	316.54	NA
S-6	03/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	8.88	317.68	NA
S-6	06/16/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	9.04	317.52	NA
S-6	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	8.54	318.02	NA
S-6	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.56	8.62	317.94	NA
S-6	05/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	326.56	8.60	317.96	2.6
S-6	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	326.56	7.90	318.66	2.2
S-6	06/27/1999	430	NA	50.1	30.5	15.2	83.5	8.05	NA	NA	NA	NA	NA	326.56	8.01	318.55	2.3
S-6	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	326.56	8.84	317.72	2.0
S-6	05/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA	326.56	8.54	318.02	1.9
S-6	06/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	326.56	8.48	318.08	1.3
S-6	05/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	8.7	NA	NA	NA	NA	326.35	7.36	318.99	1.0
S-6	05/03/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	326.35	8.08	318.27	0.9
S-6	01/14/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	326.35	7.38	318.97	NA
S-6	05/05/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<5.0	326.35	7.55	318.80	NA
S-6	08/05/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<2.0	<2.0	<2.0	<5.0	326.35	7.61	318.74	NA
S-7	01/25/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**5251 Hopyard Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (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)	DO Reading (ppm)
S-7	04/16/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA
S-7	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA
S-7	10/18/1991	<50	140f	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	8.92	317.57	NA
S-7	01/23/1992	<50	140f	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA
S-7	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA
S-7	07/17/1992	<50	<50	<0.5	1.8	0.6	4.1	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA
S-7	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	NA	NA	NA
S-7	01/23/1993	<50	110b	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	8.06	318.43	NA
S-7	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	8.94	317.55	NA
S-7	09/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	8.57	317.92	NA
S-7	12/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	9.00	317.49	NA
S-7	03/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	8.96	317.53	NA
S-7	06/16/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	326.49	9.12	317.37	NA
S-7	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	8.58	317.91	NA
S-7	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	326.49	8.64	317.85	NA
S-7	05/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	326.49	8.74	317.75	2.3
S-7	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	326.49	8.00	318.49	2.5
S-7	06/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	326.49	8.75	317.74	2.9
S-7	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	326.49	8.96	317.53	2.2
S-7	05/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA	326.49	8.65	317.84	2.0
S-7	06/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	326.49	8.55	317.94	2.3
S-7	05/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	12	NA	NA	NA	NA	326.36	7.88	318.48	1.8
S-7	05/03/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	100	NA	NA	NA	NA	326.36	8.30	318.06	1.2
S-7	01/14/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	41	NA	NA	NA	NA	326.36	7.70	318.66	NA
S-7	05/05/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	91	<0.50	<0.50	6.8	<5.0	326.36	7.60	318.76	NA
S-7	08/05/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	100	<2.0	<2.0	7.5	<5.0	326.36	8.42	317.94	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**5251 Hopyard Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (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)	DO Reading (ppm)
S-8	01/25/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	04/16/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	10/18/1991	<50	360f	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	7.62	317.70	NA
S-8	01/23/1992	<50	90	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	07/17/1992	53	<50	<0.5	1	<0.5	1.8	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	NA	NA	NA
S-8	01/23/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	7.00	318.32	NA
S-8	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	7.77	317.55	NA
S-8	09/22/1993	<50	160	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	7.67	317.65	NA
S-8	12/08/1993	<50	210	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	7.76	317.56	NA
S-8	03/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	7.66	317.66	NA
S-8	06/16/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	7.78	317.54	NA
S-8	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	7.42	317.90	NA
S-8	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	325.32	7.50	317.82	NA
S-8	05/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	325.32	7.56	317.76	1.6
S-8	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	325.32	7.64	317.68	2.0
S-8	06/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	325.32	7.75	317.57	2.3
S-8	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	325.32	8.02	317.30	1.8
S-8	05/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA	325.32	7.34	317.98	1.8
S-8	06/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	325.32	7.45	317.87	1.8
S-8	05/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	14	NA	NA	NA	NA	325.03	7.39	317.64	3.0
S-8	05/03/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	325.03	7.00	318.03	1.0
S-8	01/14/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	325.03	8.65	316.39	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**5251 Hopyard Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (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)	DO Reading (ppm)
S-8	05/05/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<5.0	325.03	6.73	318.30	NA
S-8	08/05/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<2.0	<2.0	<2.0	<5.0	325.03	6.93	318.10	NA

Abbreviations:

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

TEPH = Total petroleum hydrocarbons as diesel by modified 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

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B

ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B

TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B

TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B

TOC = Top of Casing Elevation

TOB = Top of Wellbox Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

DO = Dissolved Oxygen

ug/L = Parts per billion

ppm = Parts per million

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

(D) = Duplicate sample

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**5251 Hopyard Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (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)	DO Reading (ppm)
---------	------	----------------	----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	----------------	----------------	----------------	---------------	--------------	----------------------------	--------------------------	------------------------

Notes:

- a = Compounds detected as TEPH appear to be the less volatile constituents of gasoline.
- b = The concentration reported as TEPH primarily due to the presence of a heavier petroleum product.
- c = The concentration reported as TEPH due to the presence of a lighter petroleum product.
- d = Concentrations reported as diesel includes a heavier petroleum product.
- e = Compounds detected within the chromatographic range of TEPH but not characteristic of the standard gasoline pattern.
- g = Compounds detected within the chromatographic range of TEPH but not characteristic of the standard diesel pattern.
- h = The chromatographic pattern of the purgeable hydrocarbons found in the sample is similar to the pattern of weathered gasoline.
- i = DO reading not taken.
- j = The results may be biased slightly high.
- k = The hydrocarbon reported in the gasoline range does not match the laboratory standard.
- l = Extracted out of holding time.

Site surveyed April 16, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

Beginning May 30, 2003, depth to water referenced to Top of Casing elevation.

**Blaine Tech Services, Inc.**

September 01, 2005

1680 Rogers Avenue  
San Jose, CA 95112-1105  
Attn.: Leon Gearhart  
Project#: 050805-WC-1  
Project: 98995843  
Site: 5251 Hopyard Rd., Pleasanton

Dear Mr. Gearhart,

Attached is our report for your samples received on 08/08/2005 12:40  
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  
09/22/2005 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 Fuel Oxygenates 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: 050805-WC-1

98995843

Received: 08/08/2005 12:40

Site: 5251 Hopyard Rd., Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
S-1	08/05/2005 11:17	Water	1
S-2	08/05/2005 10:20	Water	2
S-3	08/05/2005 09:47	Water	3
S-4	08/05/2005 09:59	Water	4
S-5	08/05/2005 10:36	Water	5
S-6	08/05/2005 08:58	Water	6
S-7	08/05/2005 09:15	Water	7
S-8	08/05/2005 08:30	Water	8

Severn Trent Laboratories, Inc.

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

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

09/01/2005 17:44



**Gas/BTEX Fuel Oxygenates 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: 050805-WC-1

98995843

Received: 08/08/2005 12:40

Site: 5251 Hopyard Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-1	Lab ID: 2005-08-0243 - 1
Sampled: 08/05/2005 11:17	Extracted: 8/20/2005 00:45 8/24/2005 00:37
Matrix: Water	QC Batch#: 2005/08/19-2A.62 2005/08/23-01.08
Analysis Flag: H1 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	4600	1000	ug/L	20.00	08/20/2005 00:45	
Benzene	32	10	ug/L	20.00	08/20/2005 00:45	
Toluene	52	10	ug/L	20.00	08/20/2005 00:45	
Ethylbenzene	420	10	ug/L	20.00	08/20/2005 00:45	
Total xylenes	69	20	ug/L	20.00	08/20/2005 00:45	
tert-Butyl alcohol (TBA)	410	100	ug/L	20.00	08/24/2005 00:37	
Methyl tert-butyl ether (MTBE)	110	10	ug/L	20.00	08/20/2005 00:45	
Di-isopropyl Ether (DIPE)	ND	40	ug/L	20.00	08/20/2005 00:45	
Ethyl tert-butyl ether (ETBE)	ND	40	ug/L	20.00	08/20/2005 00:45	
tert-Amyl methyl ether (TAME)	ND	40	ug/L	20.00	08/20/2005 00:45	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	95.3	73-130	%	20.00	08/24/2005 00:37	
1,2-Dichloroethane-d4	95.9	73-130	%	20.00	08/20/2005 00:45	
Toluene-d8	99.9	81-114	%	20.00	08/20/2005 00:45	
Toluene-d8	88.4	81-114	%	20.00	08/24/2005 00:37	

Sewern Trent Laboratories, Inc.

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

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

09/01/2005 17:44

**Gas/BTEX Fuel Oxygenates 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: 050805-WC-1  
98995843

Received: 08/08/2005 12:40

Site: 5251 Hopyard Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-2	Lab ID: 2005-08-0243 - 2
Sampled: 08/05/2005 10:20	Extracted: 8/20/2005 01:11 8/24/2005 01:10 / /
Matrix: Water	QC Batch#: 2005/08/19-2A.62 2005/08/23-01.08 2008/08/23-01.08
Analysis Flag: H1 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	08/20/2005 01:11	
Benzene	ND	0.50	ug/L	1.00	08/20/2005 01:11	
Toluene	ND	0.50	ug/L	1.00	08/20/2005 01:11	
Ethylbenzene	ND	0.50	ug/L	1.00	08/20/2005 01:11	
Total xylenes	ND	1.0	ug/L	1.00	08/20/2005 01:11	
tert-Butyl alcohol (TBA)	510	20	ug/L	4.00	08/24/2005 01:10	
Methyl tert-butyl ether (MTBE)	320	2.0	ug/L	4.00	08/24/2005 01:10	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	08/20/2005 01:11	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	08/20/2005 01:11	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	08/20/2005 01:11	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	88.1	73-130	%	4.00	08/24/2005 01:10	
1,2-Dichloroethane-d4	91.2	73-130	%	1.00	08/20/2005 01:11	
Toluene-d8	88.3	81-114	%	4.00	08/24/2005 01:10	
Toluene-d8	95.5	81-114	%	1.00	08/20/2005 01:11	

**Gas/BTEX Fuel Oxygenates 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: 050805-WC-1  
98995843

Received: 08/08/2005 12:40

Site: 5251 Hopyard Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-3	Lab ID: 2005-08-0243 - 3
Sampled: 08/05/2005 09:47	Extracted: 8/20/2005 01:37 8/24/2005 01:43 / /
Matrix: Water	QC Batch#: 2005/08/19-2A.62 2005/08/23-01.08 2008/08/23-01.08
Analysis Flag: H1 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	08/20/2005 01:37	
Benzene	0.51	0.50	ug/L	1.00	08/20/2005 01:37	
Toluene	ND	0.50	ug/L	1.00	08/20/2005 01:37	
Ethylbenzene	ND	0.50	ug/L	1.00	08/20/2005 01:37	
Total xylenes	ND	1.0	ug/L	1.00	08/20/2005 01:37	
tert-Butyl alcohol (TBA)	42	5.0	ug/L	1.00	08/24/2005 01:43	
Methyl tert-butyl ether (MTBE)	6.0	0.50	ug/L	1.00	08/24/2005 01:43	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	08/20/2005 01:37	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	08/20/2005 01:37	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	08/20/2005 01:37	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	91.7	73-130	%	1.00	08/24/2005 01:43	
1,2-Dichloroethane-d4	89.1	73-130	%	1.00	08/20/2005 01:37	
Toluene-d8	88.2	81-114	%	1.00	08/24/2005 01:43	
Toluene-d8	96.3	81-114	%	1.00	08/20/2005 01:37	

**Gas/BTEX Fuel Oxygenates 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: 050805-WC-1

98995843

Received: 08/08/2005 12:40

Site: 5251 Hopyard Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-4	Lab ID: 2005-08-0243 - 4
Sampled: 08/05/2005 09:59	Extracted: 8/19/2005 23:53
Matrix: Water	QC Batch#: 2005/08/19-2A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	08/19/2005 23:53	
Benzene	ND	0.50	ug/L	1.00	08/19/2005 23:53	
Toluene	ND	0.50	ug/L	1.00	08/19/2005 23:53	
Ethylbenzene	ND	0.50	ug/L	1.00	08/19/2005 23:53	
Total xylenes	ND	1.0	ug/L	1.00	08/19/2005 23:53	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	08/19/2005 23:53	
Methyl tert-butyl ether (MTBE)	6.1	0.50	ug/L	1.00	08/19/2005 23:53	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	08/19/2005 23:53	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	08/19/2005 23:53	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	08/19/2005 23:53	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	92.7	73-130	%	1.00	08/19/2005 23:53	
Toluene-d8	94.9	81-114	%	1.00	08/19/2005 23:53	

Severn Trent Laboratories, Inc.

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

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

09/01/2005 17:44

**Gas/BTEX Fuel Oxygenates 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: 050805-WC-1  
98995843

Received: 08/08/2005 12:40

Site: 5251 Hopyard Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-5	Lab ID: 2005-08-0243 - 5
Sampled: 08/05/2005 10:36	Extracted: 8/20/2005 02:03 8/24/2005 02:16 / /
Matrix: Water	QC Batch#: 2005/08/19-2A.62 2005/08/23-01.08 2008/08/23-01.08
Analysis Flag: H1 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	1900	100	ug/L	2.00	08/20/2005 02:03	
Benzene	57	1.0	ug/L	2.00	08/24/2005 02:16	
Toluene	7.5	1.0	ug/L	2.00	08/20/2005 02:03	
Ethylbenzene	22	1.0	ug/L	2.00	08/20/2005 02:03	
Total xylenes	17	2.0	ug/L	2.00	08/20/2005 02:03	
tert-Butyl alcohol (TBA)	480	10	ug/L	2.00	08/24/2005 02:16	
Methyl tert-butyl ether (MTBE)	240	1.0	ug/L	2.00	08/20/2005 02:03	
Di-isopropyl Ether (DIPE)	ND	4.0	ug/L	2.00	08/20/2005 02:03	
Ethyl tert-butyl ether (ETBE)	ND	4.0	ug/L	2.00	08/20/2005 02:03	
tert-Amyl methyl ether (TAME)	ND	4.0	ug/L	2.00	08/20/2005 02:03	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	89.2	73-130	%	2.00	08/24/2005 02:16	
1,2-Dichloroethane-d4	99.5	73-130	%	2.00	08/20/2005 02:03	
Toluene-d8	88.8	81-114	%	2.00	08/24/2005 02:16	
Toluene-d8	91.3	81-114	%	2.00	08/20/2005 02:03	

Severn Trent Laboratories, Inc.

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

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

09/01/2005 17:44

**Gas/BTEX Fuel Oxygenates 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: 050805-WC-1

98995843

Received: 08/08/2005 12:40

Site: 5251 Hopyard Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-6	Lab ID: 2005-08-0243 - 6
Sampled: 08/05/2005 08:58	Extracted: 8/19/2005 22:35
Matrix: Water	QC Batch#: 2005/08/19-2A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	08/19/2005 22:35	
Benzene	ND	0.50	ug/L	1.00	08/19/2005 22:35	
Toluene	ND	0.50	ug/L	1.00	08/19/2005 22:35	
Ethylbenzene	ND	0.50	ug/L	1.00	08/19/2005 22:35	
Total xylenes	ND	1.0	ug/L	1.00	08/19/2005 22:35	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	08/19/2005 22:35	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	08/19/2005 22:35	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	08/19/2005 22:35	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	08/19/2005 22:35	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	08/19/2005 22:35	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	89.6	73-130	%	1.00	08/19/2005 22:35	
Toluene-d8	97.2	81-114	%	1.00	08/19/2005 22:35	

Severn Trent Laboratories, Inc.

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

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

09/01/2005 17:44

**Gas/BTEX Fuel Oxygenates 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: 050805-WC-1  
98995843

Received: 08/08/2005 12:40

Site: 5251 Hopyard Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-7	Lab ID: 2005-08-0243 - 7
Sampled: 08/05/2005 09:15	Extracted: 8/19/2005 23:01
Matrix: Water	QC Batch#: 2005/08/19-2A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	08/19/2005 23:01	
Benzene	ND	0.50	ug/L	1.00	08/19/2005 23:01	
Toluene	ND	0.50	ug/L	1.00	08/19/2005 23:01	
Ethylbenzene	ND	0.50	ug/L	1.00	08/19/2005 23:01	
Total xylenes	ND	1.0	ug/L	1.00	08/19/2005 23:01	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	08/19/2005 23:01	
Methyl tert-butyl ether (MTBE)	100	0.50	ug/L	1.00	08/19/2005 23:01	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	08/19/2005 23:01	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	08/19/2005 23:01	
tert-Amyl methyl ether (TAME)	7.5	2.0	ug/L	1.00	08/19/2005 23:01	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	89.0	73-130	%	1.00	08/19/2005 23:01	
Toluene-d8	94.7	81-114	%	1.00	08/19/2005 23:01	

Severn Trent Laboratories, Inc.

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

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

09/01/2005 17:44

**Gas/BTEX Fuel Oxygenates 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: 050805-WC-1  
98995843

Received: 08/08/2005 12:40

Site: 5251 Hopyard Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-8	Lab ID: 2005-08-0243 - 8
Sampled: 08/05/2005 08:30	Extracted: 8/19/2005 23:27
Matrix: Water	QC Batch#: 2005/08/19-2A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	08/19/2005 23:27	
Benzene	ND	0.50	ug/L	1.00	08/19/2005 23:27	
Toluene	ND	0.50	ug/L	1.00	08/19/2005 23:27	
Ethylbenzene	ND	0.50	ug/L	1.00	08/19/2005 23:27	
Total xylenes	ND	1.0	ug/L	1.00	08/19/2005 23:27	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	08/19/2005 23:27	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	08/19/2005 23:27	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	08/19/2005 23:27	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	08/19/2005 23:27	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	08/19/2005 23:27	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	92.7	73-130	%	1.00	08/19/2005 23:27	
Toluene-d8	93.1	81-114	%	1.00	08/19/2005 23:27	

Severn Trent Laboratories, Inc.

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

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

09/01/2005 17:44



**Gas/BTEX Fuel Oxygenates 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: 050805-WC-1  
98995843

Received: 08/08/2005 12:40

Site: 5251 Hopyard Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/08/19-2A.62-033

Water

Test(s): 8260B

QC Batch # 2005/08/19-2A.62

Date Extracted: 08/19/2005 19:33

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	08/19/2005 19:33	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	08/19/2005 19:33	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	08/19/2005 19:33	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	08/19/2005 19:33	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	08/19/2005 19:33	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	08/19/2005 19:33	
Benzene	ND	0.5	ug/L	08/19/2005 19:33	
Toluene	ND	0.5	ug/L	08/19/2005 19:33	
Ethylbenzene	ND	0.5	ug/L	08/19/2005 19:33	
Total xylenes	ND	1.0	ug/L	08/19/2005 19:33	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	87.0	73-130	%	08/19/2005 19:33	
Toluene-d8	94.6	81-114	%	08/19/2005 19:33	

Severn Trent Laboratories, Inc.

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

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

09/01/2005 17:44

**Gas/BTEX Fuel Oxygenates 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: 050805-WC-1  
98995843

Received: 08/08/2005 12:40

Site: 5251 Hopyard Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/08/23-01.08-001

Water

Test(s): 8260B

QC Batch # 2005/08/23-01.08

Date Extracted: 08/23/2005 08:13

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	08/23/2005 08:13	
Benzene	ND	0.5	ug/L	08/23/2005 08:13	
Toluene	ND	0.5	ug/L	08/23/2005 08:13	
Ethylbenzene	ND	0.5	ug/L	08/23/2005 08:13	
Total xylenes	ND	1.0	ug/L	08/23/2005 08:13	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	08/23/2005 08:13	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	08/23/2005 08:13	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	08/23/2005 08:13	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	08/23/2005 08:13	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	08/23/2005 08:13	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	93.2	73-130	%	08/23/2005 08:13	
Toluene-d8	88.4	81-114	%	08/23/2005 08:13	

Severn Trent Laboratories, Inc.

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

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

09/01/2005 17:44

**Gas/BTEX Fuel Oxygenates 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: 050805-WC-1  
98995843

Received: 08/08/2005 12:40

Site: 5251 Hopyard Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/08/19-2A.62**

LCS 2005/08/19-2A.62-007

Extracted: 08/19/2005

Analyzed: 08/19/2005 19:07

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.9		25	91.6			65-165	20		
Benzene	31.3		25	125.2			69-129	20		
Toluene	22.4		25	89.6			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	417		500	83.4			73-130			
Toluene-d8	486		500	97.2			81-114			

Severn Trent Laboratories, Inc.

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

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

09/01/2005 17:44

**Gas/BTEX Fuel Oxygenates 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: 050805-WC-1  
98995843

Received: 08/08/2005 12:40

Site: 5251 Hopyard Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/08/23-01.08**

LCS 2005/08/23-01.08-002

Extracted: 08/23/2005

Analyzed: 08/23/2005 04:28

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	19.6		25.0	78.4			69-129	20		
Toluene	20.4		25.0	81.6			70-130	20		
Methyl tert-butyl ether (MTBE)	20.6		25.0	82.4			65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	446		500	89.2			73-130	0		
Toluene-d8	446		500	89.2			81-114	0		

Severn Trent Laboratories, Inc.

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

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

09/01/2005 17:44

**Gas/BTEX Fuel Oxygenates 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: 050805-WC-1  
98995843

Received: 08/08/2005 12:40

Site: 5251 Hopyard Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B Test(s): 8260B

**Matrix Spike ( MS / MSD )** **Water** **QC Batch # 2005/08/19-2A.62**

MS/MSD Lab ID: 2005-08-0282 - 001

MS: 2005/08/19-2A.62-056 Extracted: 08/20/2005 Analyzed: 08/20/2005 02:56

Dilution: 1.00

MSD: 2005/08/19-2A.62-022 Extracted: 08/20/2005 Analyzed: 08/20/2005 03:22

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	51.4	50.0	26	25	101.6	96.0	5.7	65-165	20		
Benzene	33.6	33.1	ND	25	134.4	132.4	1.5	69-129	20	M4	M4
Toluene	22.5	23.2	ND	25	90.0	92.8	3.1	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	470	473		500	94.0	94.6		73-130			
Toluene-d8	481	481		500	96.2	96.2		81-114			

Severn Trent Laboratories, Inc.

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

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

09/01/2005 17:44

**Gas/BTEX Fuel Oxygenates 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: 050805-WC-1  
98995843

Received: 08/08/2005 12:40

Site: 5251 Hopyard Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B Test(s): 8260B

**Matrix Spike ( MS / MSD )** **Water** **QC Batch # 2005/08/23-01.08**

MS/MSD Lab ID: 2005-08-0241 - 001

MS: 2005/08/23-01.08-003 Extracted: 08/23/2005 Analyzed: 08/23/2005 10:25

Dilution: 100.00

MSD: 2005/08/23-01.08-004 Extracted: 08/23/2005 Analyzed: 08/23/2005 10:58

Dilution: 100.00

Compound	Conc. ug/L			Spk. Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	7760	7820	5800	2500	78.4	80.8	3.0	69-129	20		
Toluene	3170	3270	1200	2500	78.8	82.8	5.0	70-130	20		
Methyl tert-butyl ether	11500	12100	10600	2500	36.0	60.0	50.0	65-165	20	M5	R1,M5
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	439	450		500	87.8	90.0		73-130	0		
Toluene-d8	447	443		500	89.4	88.6		81-114	0		

**Gas/BTEX Fuel Oxygenates 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: 050805-WC-1

98995843

Received: 08/08/2005 12:40

Site: 5251 Hopyard Rd., Pleasanton

---

**Legend and Notes**

---

**Report Comment**

Due to instrumentation issues some samples were analyzed after the 14 day holding time as prescribed in EPA SW-846-8260B.

"If technical holding times are grossly exceeded (e.g., by greater than two times the required time for volatiles) either on the first analysis or upon re-analysis, the reviewer must use professional judgment to determine the reliability of the data and the effects of additional storage on the sample results. Should the reviewer determine that qualification is necessary, non-detected volatile target compounds may be qualified unusable (R). Positive results are considered approximates and are qualified with .J"

As an aid to interpreting the data for sample SS-4-13 the United States Geological Survey (USGS) published method (<http://nwql.usgs.gov/Public/pubs/MTBE.fact.sheet.html>) for analysis of MTBE and other fuel oxygenates includes stability data for oxygenates in preserved waters that indicates that there is negligible (<3%) degradation of MTBE, ETBE, and TAME after 14 days. In addition, a preservation study conducted at the National Water Quality Laboratory (NWQL) for 216 days at pH 2 in ground- and surface-water samples has shown that MTBE, TAME, DIPE, and ETBE are stable at pH 2 for at least 216 days.

**Analysis Flag**

H1

Extracted out of holding time.

**Result Flag**

M4

MS/MSD spike recoveries were above acceptance limits.  
See blank spike (LCS).

M5

MS/MSD spike recoveries were below acceptance limits.  
See blank spike (LCS).

R1

Analyte RPD was out of QC limits.

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

09/01/2005 17:44

**Gas/BTEX Fuel Oxygenates 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: 050805-WC-1

98995843

Received: 08/08/2005 12:40

Site: 5251 Hopyard Rd., Pleasanton



LAB: STL

# SHELL Chain Of Custody Record

117391

Lab Identification (if necessary):  
Address:  
City, State, Zip:

Shell Project Manager to be invoiced:  
 SCIENCE & ENGINEERING  
 TECHNICAL SERVICES  
 CRMT HOUSTON  
Denis Brown  
**2005-08-0243**

INCIDENT NUMBER (S&E ONLY)  
9 8 9 9 5 8 4 3  
SAP or CRMT NUMBER (TS/CRMT)

DATE: 8/5/05  
PAGE: 1 of 1

SAMPLING COMPANY: **Blaine Tech Services**  
ADDRESS: **1680 Rogers Avenue, San Jose, CA 95112**  
PHONE: **408-573-0555** FAX: **408-573-7771** EMAIL: **lgearhart@blainetech.com**

LAB CODE: **BTSS**

SITE ADDRESS (Street and City): **5251 Hopyard Rd., Pleasanton**

SERIAL # (NO.): **T0600101267**

CONTACT PERSON: **Vera Fisher** PHONE: **(408)224-4724** EMAIL: **vfisher@shell.com**

CONSULTANT PROJECT NO.: **050805-wc1**

LAB USE ONLY

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

IA - RWQ/CB REPORT FORMAT  USE AGENCY:

GCMS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ MIDHIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF ADD IS NOT NEEDED:

REQUESTED ANALYSIS									
TPH - Gas, Purgeable	BTEX	MTBE (GC/MS - Spgs RL)	MTBE (GC/MS - 0.5 Spgs RL)	Oxygenates (G) by (GC/MS)	Ethanol (GC/MS)	Methanol	EDB & 1,2-DCA (GC/MS)	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes  4 <sup>cc</sup>	
									TEMPERATURE ON RECEIPT °C

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (GC/MS - Spgs RL)	MTBE (GC/MS - 0.5 Spgs RL)	Oxygenates (G) by (GC/MS)	Ethanol (GC/MS)	Methanol	EDB & 1,2-DCA (GC/MS)
		DATE	TIME										
	S-1	8/5/05	1117	H <sub>2</sub> O	3/14	X	X	X	X	X	X	X	X
	S-2		1020			X	X	X	X	X	X	X	X
	S-3		0947			X	X	X	X	X	X	X	X
	S-4		0959			X	X	X	X	X	X	X	X
	S-5		1036			X	X	X	X	X	X	X	X
	S-6		0856			X	X	X	X	X	X	X	X
	S-7		0915			X	X	X	X	X	X	X	X
	S-8		0830			X	X	X	X	X	X	X	X

Retrieved by: (Signature) Will Crow Date: 8/5/05 Time: 1519

Retrieved by: (Signature) [Signature] Date: 8/8/05 Time: 1240

Retrieved by: (Signature) [Signature] Date: 8/8/05 Time: 1555

CHETP/DCI (NOVA White with Seal report, Green to PWS, Yellow and Pink to CWP)

GAGE GROUPS (714) 590-5722

**Blaine Tech Services, Inc.**

September 28, 2005

1680 Rogers Avenue  
San Jose, CA 95112-1105  
Attn.: Leon Gearhart  
Project#: 050916-MD3  
Project: 98995843  
Site: 5251 Hopyard Rd., Pleasanton

Dear Mr. Gearhart,

Attached is our report for your samples received on 09/19/2005 12:50  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
11/03/2005 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 Fuel Oxygenates 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: 050916-MD3

98995843

Received: 09/19/2005 12:50

Site: 5251 Hopyard Rd., Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
S-1	09/16/2005 14:45	Water	1
S-2	09/16/2005 13:45	Water	2
S-3	09/16/2005 14:05	Water	3
S-5	09/16/2005 14:20	Water	4

Severn Trent Laboratories, Inc.

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

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

09/28/2005 17:11

**Gas/BTEX Fuel Oxygenates 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: 050916-MD3

98995843

Received: 09/19/2005 12:50

Site: 5251 Hopyard Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-1	Lab ID: 2005-09-0465 - 1
Sampled: 09/16/2005 14:45	Extracted: 9/24/2005 13:22
Matrix: Water	QC Batch#: 2005/09/24-1A.68
Analysis Flag: L2 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	3300	250	ug/L	5.00	09/24/2005 13:22	
Benzene	14	2.5	ug/L	5.00	09/24/2005 13:22	
Toluene	28	2.5	ug/L	5.00	09/24/2005 13:22	
Ethylbenzene	280	2.5	ug/L	5.00	09/24/2005 13:22	
Total xylenes	43	5.0	ug/L	5.00	09/24/2005 13:22	
tert-Butyl alcohol (TBA)	260	25	ug/L	5.00	09/24/2005 13:22	
Methyl tert-butyl ether (MTBE)	60	2.5	ug/L	5.00	09/24/2005 13:22	
Di-isopropyl Ether (DIPE)	51	10	ug/L	5.00	09/24/2005 13:22	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	5.00	09/24/2005 13:22	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	5.00	09/24/2005 13:22	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	95.7	73-130	%	5.00	09/24/2005 13:22	
Toluene-d8	96.1	81-114	%	5.00	09/24/2005 13:22	

Severn Trent Laboratories, Inc.

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

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

09/28/2005 17:11

**Gas/BTEX Fuel Oxygenates 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: 050916-MD3  
98995843

Received: 09/19/2005 12:50

Site: 5251 Hopyard Rd., Pleasanton

Prep(s): 5030B Test(s): 8260B  
Sample ID: S-2 Lab ID: 2005-09-0465 - 2  
Sampled: 09/16/2005 13:45 Extracted: 9/24/2005 13:32  
Matrix: Water QC Batch#: 2005/09/24-1A.66  
Analysis Flag: L2, pH: <2 ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	250	ug/L	5.00	09/24/2005 13:32	
Benzene	ND	2.5	ug/L	5.00	09/24/2005 13:32	
Toluene	ND	2.5	ug/L	5.00	09/24/2005 13:32	
Ethylbenzene	ND	2.5	ug/L	5.00	09/24/2005 13:32	
Total xylenes	ND	5.0	ug/L	5.00	09/24/2005 13:32	
tert-Butyl alcohol (TBA)	1800	25	ug/L	5.00	09/24/2005 13:32	
Methyl tert-butyl ether (MTBE)	320	2.5	ug/L	5.00	09/24/2005 13:32	
Di-isopropyl Ether (DIPE)	ND	10	ug/L	5.00	09/24/2005 13:32	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	5.00	09/24/2005 13:32	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	5.00	09/24/2005 13:32	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	99.4	73-130	%	5.00	09/24/2005 13:32	
Toluene-d8	104.2	81-114	%	5.00	09/24/2005 13:32	

Severn Trent Laboratories, Inc.

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

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

09/28/2005 17:11

**Gas/BTEX Fuel Oxygenates 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: 050916-MD3  
98995843

Received: 09/19/2005 12:50

Site: 5251 Hopyard Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-3	Lab ID: 2005-09-0465 - 3
Sampled: 09/16/2005 14:05	Extracted: 9/23/2005 11:59
Matrix: Water	QC Batch#: 2005/09/23-1A.64
pH: <2	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	09/23/2005 11:59	
Benzene	0.62	0.50	ug/L	1.00	09/23/2005 11:59	
Toluene	ND	0.50	ug/L	1.00	09/23/2005 11:59	
Ethylbenzene	ND	0.50	ug/L	1.00	09/23/2005 11:59	
Total xylenes	ND	1.0	ug/L	1.00	09/23/2005 11:59	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	09/23/2005 11:59	
Methyl tert-butyl ether (MTBE)	7.9	0.50	ug/L	1.00	09/23/2005 11:59	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	09/23/2005 11:59	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	09/23/2005 11:59	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	09/23/2005 11:59	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	116.4	73-130	%	1.00	09/23/2005 11:59	
Toluene-d8	105.0	81-114	%	1.00	09/23/2005 11:59	

**Gas/BTEX Fuel Oxygenates 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: 050916-MD3

98995843

Received: 09/19/2005 12:50

Site: 5251 Hopyard Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-5	Lab ID: 2005-09-0465 - 4
Sampled: 09/16/2005 14:20	Extracted: 9/25/2005 13:43
Matrix: Water	QC Batch#: 2005/09/25-1A.68
Analysis Flag: L2 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	1400	100	ug/L	2.00	09/25/2005 13:43	
Benzene	87	1.0	ug/L	2.00	09/25/2005 13:43	
Toluene	2.0	1.0	ug/L	2.00	09/25/2005 13:43	
Ethylbenzene	7.8	1.0	ug/L	2.00	09/25/2005 13:43	
Total xylenes	5.8	2.0	ug/L	2.00	09/25/2005 13:43	
tert-Butyl alcohol (TBA)	630	10	ug/L	2.00	09/25/2005 13:43	
Methyl tert-butyl ether (MTBE)	75	1.0	ug/L	2.00	09/25/2005 13:43	
Di-isopropyl Ether (DIPE)	ND	4.0	ug/L	2.00	09/25/2005 13:43	
Ethyl tert-butyl ether (ETBE)	ND	4.0	ug/L	2.00	09/25/2005 13:43	
tert-Amyl methyl ether (TAME)	ND	4.0	ug/L	2.00	09/25/2005 13:43	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	94.2	73-130	%	2.00	09/25/2005 13:43	
Toluene-d8	106.9	81-114	%	2.00	09/25/2005 13:43	

Severn Trent Laboratories, Inc.

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

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

09/28/2005 17:11

**Gas/BTEX Fuel Oxygenates 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: 050916-MD3  
98995843

Received: 09/19/2005 12:50

Site: 5251 Hopyard Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/09/23-1A.64-014

Water

Test(s): 8260B

QC Batch # 2005/09/23-1A.64

Date Extracted: 09/23/2005 09:14

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	09/23/2005 09:14	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/23/2005 09:14	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/23/2005 09:14	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	09/23/2005 09:14	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	09/23/2005 09:14	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	09/23/2005 09:14	
Benzene	ND	0.5	ug/L	09/23/2005 09:14	
Toluene	ND	0.5	ug/L	09/23/2005 09:14	
Ethylbenzene	ND	0.5	ug/L	09/23/2005 09:14	
Total xylenes	ND	1.0	ug/L	09/23/2005 09:14	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	98.9	73-130	%	09/23/2005 09:14	
Toluene-d8	107.6	81-114	%	09/23/2005 09:14	

Severn Trent Laboratories, Inc.

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

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

09/28/2005 17:11



**Gas/BTEX Fuel Oxygenates 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: 050916-MD3  
98995843

Received: 09/19/2005 12:50

Site: 5251 Hopyard Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/09/24-1A.66-021

Water

Test(s): 8260B

QC Batch # 2005/09/24-1A.66

Date Extracted: 09/24/2005 11:21

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	09/24/2005 11:21	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/24/2005 11:21	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/24/2005 11:21	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	09/24/2005 11:21	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	09/24/2005 11:21	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	09/24/2005 11:21	
Benzene	ND	0.5	ug/L	09/24/2005 11:21	
Toluene	ND	0.5	ug/L	09/24/2005 11:21	
Ethylbenzene	ND	0.5	ug/L	09/24/2005 11:21	
Total xylenes	ND	1.0	ug/L	09/24/2005 11:21	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	99.8	73-130	%	09/24/2005 11:21	
Toluene-d8	104.0	81-114	%	09/24/2005 11:21	

Severn Trent Laboratories, Inc.

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

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

09/28/2005 17:11

**Gas/BTEX Fuel Oxygenates 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: 050916-MD3

98995843

Received: 09/19/2005 12:50

Site: 5251 Hopyard Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/09/24-1A.68-027

Water

Test(s): 8260B

QC Batch # 2005/09/24-1A.68

Date Extracted: 09/24/2005 11:27

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	09/24/2005 11:27	
Benzene	ND	0.5	ug/L	09/24/2005 11:27	
Toluene	ND	0.5	ug/L	09/24/2005 11:27	
Ethylbenzene	ND	0.5	ug/L	09/24/2005 11:27	
Total xylenes	ND	1.0	ug/L	09/24/2005 11:27	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/24/2005 11:27	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/24/2005 11:27	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	09/24/2005 11:27	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	09/24/2005 11:27	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	09/24/2005 11:27	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	95.0	73-130	%	09/24/2005 11:27	
Toluene-d8	93.2	81-114	%	09/24/2005 11:27	

Severn Trent Laboratories, Inc.

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

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

09/28/2005 17:11

**Gas/BTEX Fuel Oxygenates 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: 050916-MD3

98995843

Received: 09/19/2005 12:50

Site: 5251 Hopyard Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/09/25-1A.68-022

Water

Test(s): 8260B

QC Batch # 2005/09/25-1A.68

Date Extracted: 09/25/2005 12:22

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	09/25/2005 12:22	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/25/2005 12:22	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/25/2005 12:22	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	09/25/2005 12:22	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	09/25/2005 12:22	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	09/25/2005 12:22	
Benzene	ND	0.5	ug/L	09/25/2005 12:22	
Toluene	ND	0.5	ug/L	09/25/2005 12:22	
Ethylbenzene	ND	0.5	ug/L	09/25/2005 12:22	
Total xylenes	ND	1.0	ug/L	09/25/2005 12:22	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	95.2	73-130	%	09/25/2005 12:22	
Toluene-d8	112.0	81-114	%	09/25/2005 12:22	

Severn Trent Laboratories, Inc.

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

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

09/28/2005 17:11

**Gas/BTEX Fuel Oxygenates 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: 050916-MD3  
98995843

Received: 09/19/2005 12:50

Site: 5251 Hopyard Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/09/23-1A.64

LCS 2005/09/23-1A.64-054

Extracted: 09/23/2005

Analyzed: 09/23/2005 08:54

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.5		25	98.0			65-165	20		
Benzene	27.6		25	110.4			69-129	20		
Toluene	28.0		25	112.0			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	446		500	89.2			73-130			
Toluene-d8	540		500	108.0			81-114			

Severn Trent Laboratories, Inc.

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

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

09/28/2005 17:11

**Gas/BTEX Fuel Oxygenates 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: 050916-MD3  
98995843

Received: 09/19/2005 12:50

Site: 5251 Hopyard Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/09/24-1A.66**

LCS 2005/09/24-1A.66-010

Extracted: 09/24/2005

Analyzed: 09/24/2005 12:10

LCSD

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.3		25	97.2			65-165	20		
Benzene	25.4		25	101.6			69-129	20		
Toluene	28.3		25	113.2			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	481		500	96.2			73-130			
Toluene-d8	536		500	107.2			81-114			

Severn Trent Laboratories, Inc.

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

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

09/28/2005 17:11

**Gas/BTEX Fuel Oxygenates 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: 050916-MD3  
98995843

Received: 09/19/2005 12:50

Site: 5251 Hopyard Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/09/24-1A.68**

LCS 2005/09/24-1A.68-002

Extracted: 09/24/2005

Analyzed: 09/24/2005 11:02

LCSD

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	27.9		25	111.6			65-165	20		
Benzene	22.9		25	91.6			69-129	20		
Toluene	25.7		25	102.8			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	419		500	83.8			73-130			
Toluene-d8	509		500	101.8			81-114			

Severn Trent Laboratories, Inc.

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

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

09/28/2005 17:11

**Gas/BTEX Fuel Oxygenates 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: 050916-MD3

98995843

Received: 09/19/2005 12:50

Site: 5251 Hopyard Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/09/25-1A.68**

LCS 2005/09/25-1A.68-048

Extracted: 09/25/2005

Analyzed: 09/25/2005 12:48

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	28.0		25	112.0			65-165	20		
Benzene	22.1		25	88.4			69-129	20		
Toluene	28.2		25	112.8			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	442		500	88.4			73-130			
Toluene-d8	559		500	111.8			81-114			

Severn Trent Laboratories, Inc.

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

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

09/28/2005 17:11

**Gas/BTEX Fuel Oxygenates 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: 050916-MD3

98995843

Received: 09/19/2005 12:50

Site: 5251 Hopyard Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/09/23-1A.64**

MS/MSD

Lab ID: 2005-09-0554 - 002

MS: 2005/09/23-1A.64-015

Extracted: 09/23/2005

Analyzed: 09/23/2005 10:15

Dilution: 1.00

MSD: 2005/09/23-1A.64-036

Extracted: 09/23/2005

Analyzed: 09/23/2005 10:36

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	33.1	36.7	8.64	25	97.8	112.2	13.7	65-165	20		
Benzene	24.6	31.0	ND	25	98.4	124.0	23.0	69-129	20		R1
Toluene	25.2	30.9	ND	25	100.8	123.6	20.3	70-130	20		R1
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	496	460		500	99.2	92.0		73-130			
Toluene-d8	534	536		500	106.8	107.2		81-114			

Severn Trent Laboratories, Inc.

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

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

09/28/2005 17:11



**Gas/BTEX Fuel Oxygenates 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: 050916-MD3  
98995843

Received: 09/19/2005 12:50

Site: 5251 Hopyard Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B Test(s): 8260B

**Matrix Spike ( MS / MSD )** **Water** **QC Batch # 2005/09/24-1A.66**

S-2 >> MS Lab ID: 2005-09-0465 - 002

MS: 2005/09/24-1A.66-037 Extracted: 09/24/2005 Analyzed: 09/24/2005 12:37

Dilution: 5.00

MSD: 2005/09/24-1A.66-005 Extracted: 09/24/2005 Analyzed: 09/24/2005 13:05

Dilution: 5.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	448	458	319	125	103.2	111.2	7.5	65-165	20		
Benzene	120	125	ND	125	96.0	100.0	4.1	69-129	20		
Toluene	128	139	ND	125	102.4	111.2	8.2	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	471	471		500	94.2	94.2		73-130			
Toluene-d8	528	543		500	105.6	108.6		81-114			

**Gas/BTEX Fuel Oxygenates 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: 050916-MD3  
98995843

Received: 09/19/2005 12:50

Site: 5251 Hopyard Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/09/24-1A.68**

S-1 >> MS

Lab ID: 2005-09-0465 - 001

MS: 2005/09/24-1A.68-031

Extracted: 09/24/2005

Analyzed: 09/24/2005 12:31

Dilution: 5.00

MSD: 2005/09/24-1A.68-057

Extracted: 09/24/2005

Analyzed: 09/24/2005 12:57

Dilution: 5.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	162	170	59.6	125	81.9	88.3	7.5	65-165	20		
Benzene	129	112	14.2	125	91.8	78.2	16.0	69-129	20		
Toluene	154	136	28.3	125	100.6	86.2	15.4	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	424	434		500	84.8	86.8		73-130			
Toluene-d8	523	483		500	104.6	96.6		81-114			

Severn Trent Laboratories, Inc.

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

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

09/28/2005 17:11

**Gas/BTEX Fuel Oxygenates 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: 050916-MD3

98995843

Received: 09/19/2005 12:50

Site: 5251 Hopyard Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/09/25-1A.68**

MS/MSD

Lab ID: 2005-09-0604 - 012

MS: 2005/09/25-1A.68-059

Extracted: 09/25/2005

Analyzed: 09/25/2005 14:59

Dilution: 4.00

MSD: 2005/09/25-1A.68-025

Extracted: 09/25/2005

Analyzed: 09/25/2005 15:25

Dilution: 4.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	103	95.7	ND	100	103.0	95.7	7.3	65-165	20		
Benzene	90.7	89.6	ND	100	90.7	89.6	1.2	69-129	20		
Toluene	111	89.4	ND	100	111.0	89.4	21.6	70-130	20		R1
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	436	436		500	87.2	87.2		73-130			
Toluene-d8	582	490		500	116.4	98.0		81-114		S7	

Severn Trent Laboratories, Inc.

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

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

09/28/2005 17:11

**Gas/BTEX Fuel Oxygenates 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: 050916-MD3

98995843

Received: 09/19/2005 12:50

Site: 5251 Hopyard Rd., Pleasanton

---

**Legend and Notes**

---

**Analysis Flag**

L2

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

**Result Flag**

R1

Analyte RPD was out of QC limits.

S7

Surrogate recoveries higher than acceptance limits.

LAB: SKL

# SHELL Chain Of Custody Record

99675

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Denis Brown

2005-09-0465

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 8 4 3

SAP or CRMT NUMBER (TS/CRMT)

DATE: 9/16/05

PAGE: 1 of 1

SAMPLING COMPANY: <b>Blaine Tech Services</b>		LOG CODE: <b>BTSS</b>	SITE ADDRESS (Street and City): <b>5251 Hopyard Rd., Pleasanton</b>		GLOBAL ID NO.: <b>T0600101267</b>
ADDRESS: <b>1680 Rogers Avenue, San Jose, CA 95112</b>		EDF DELIVERABLE TO (Responsible Party or Designee): <b>Vera Fisher</b>		PHONE NO.: <b>(408)224-4724</b>	E-MAIL: <b>vfischer@deltaenv.com</b>
PROJECT CONTACT (Hardcopy or PDF Report to): <b>Leon Gearhart</b>		SAMPLER NAME(S) (Print): <i>John DeSany</i>		CONSULTANT PROJECT NO.: <b>050915-M03</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

LA - RWQCB REPORT FORMAT  UST AGENCY:

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

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDO IS NOT NEEDED

REQUESTED ANALYSIS

TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)
X	X			X			
X	X			X			
X	X			X			
X	X			X			

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

4K

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)
		DATE	TIME										
	S-1	9/16/05	1445	W	3	X	X			X			
	S-2	9/16/05	1345	↓	3	X	X			X			
	S-3	9/16/05	1405	↓	3	X	X			X			
	S-5	9/16/05	1420	↓	3	X	X			X			

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i> <b>SAMPLE CUSTODIAN</b>	Date: 9/16/05	Time: 1554
Relinquished by: (Signature) <i>[Signature]</i> <b>SAMPLE CUSTODIAN</b>	Received by: (Signature) <i>[Signature]</i>	Date: 9/19/05	Time: 1750
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 9/19/05	Time: 1640



# WELLHEAD INSPECTION CHECKLIST

Date 8/15/05 Client Shell  
 Site Address 5251 Hopyard Rd., Pleasanton  
 Job Number 050805-WE-1 Technician Will

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
S-1	P							
S-2	P							
S-3	X							
S-4	X							
S-5	P							
S-6	P							
S-7		X						
S-8	X							

NOTES: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## SITE INSPECTION CHECKLIST

Client Shell Date 7-20-05  
 Site Address 5251 Hopyard Rd  
 Job Number 050720 AA3 Technician Andrew Adinolfi  
 Site Status Shell Branded Station Vacant Lot Other \_\_\_\_\_

- Inspected / Labeled / Cleaned - All Wells on Scope Of Work
- Inspected / Cleaned Components - All Other Identifiable Wells  N/A
- Inspected Site for Investigation Related Trip Hazards
- Addressed All Outstanding Wellhead Repair Order(s)  N/A
- Completed Repair Data Sheets(s)  N/A
- Inspected Treatment / Remediation System Compound For Security, Cleanliness and Appearance  N/A
- Inspected Vacant Lot for Signs of Habitation, Hazardous Materials or Terrain, Overgrown Vegetation and Security  N/A

PLEASE BE ADVISED THAT, UNLESS OTHERWISE INSTRUCTED, NO REPAIRS ARE PLANNED FOR THE ISSUES DESCRIBED BELOW

Outstanding Problems / Comments	(In addition to other issues, note all SOW wellboxes that, by design, are not securable)

PROJECT COORDINATOR ONLY

Checklist Reviewed	<u>LA</u> <u>7/22/05</u> <small>Initial/Date</small>	Notes
--------------------	---	-------



# Repair Data Sheet

Client Shell Date 7-20-05  
 Site Address 5251 Hopyard Rd  
 Job Number 050720AA3 Technician Andrew Adinolfi

Inspection Point (Well ID or description of location)	Well Inspected, Cleaned, Labeled - No Further Corrective Action Required	Replaced Cap	Replaced Lock	Replaced Lid Seal	Check Indicates deficiency							Lid Not Securable By Design (List Type)	Well Not Inspected (explain in notes)	Deficiency Logged on Repair Order	Deficiency Remains Uncorrected/Logged on Site Inspection Checklist	Partial Repair Completed/Outstanding Deficiency Logged on Repair Order	All Repairs Completed
					Casing	Annular Seal	Tabs / Bolts	Box Structure	Apron	Trip Hazard	Below Grade						
S-1	<input checked="" type="checkbox"/>																
Notes:																	
S-2	<input checked="" type="checkbox"/>																
Notes:																	
S-3	<input checked="" type="checkbox"/>																
Notes:																	
S-4	<input checked="" type="checkbox"/>																
Notes:																	
S-5	<input checked="" type="checkbox"/>																
Notes:																	
S-6	<input checked="" type="checkbox"/>																
Notes:																	

# Repair Data Sheet

Job Number 050720AA3

Inspection Point (Well ID or description of location)	Well Inspected, Cleared, Labeled - No Further Corrective Action Required	Replaced Cap	Replaced Lock	Replaced Lid Seal	Check Indicates deficiency								Lid Not Securable By Design (List Type)	Well Not Inspected (explain in notes)	Deficiency Logged on Repair Order	Deficiency Remains Unconnected/Logged on Site Inspection Checklist	Partial Repair Completed/Outstanding Deficiency Logged on Repair Order	All Repairs Completed
					Casing	Annular Seal	Tabs / Bolts	Box Structure	Apron	Trip Hazard	Below Grade	Other Deficiency						
S-7	<input checked="" type="checkbox"/>																	
Notes:																		
S-8	<input checked="" type="checkbox"/>																	
Notes:																		
Notes:																		
Notes:																		
Notes:																		

# Repair Data Sheet

Client Shell Date 6-1-05  
 Site Address 5251 Hopyard Rd. Pleasanton, CA  
 Job Number 050601AA1 Technician Andrew Adirolf

Inspection Point (Well ID or description of location)	Well Inspected, Cleaned, Labeled - No Further Corrective Action Required	Replaced Cap	Replaced Lock	Replaced Lid Seal	Check indicates deficiency							Lid Not Securable By Design (List Type)	Well Not Inspected (explain in notes)	Deficiency Logged on Repair Order	Deficiency Remains Uncorrected/Logged on Site Inspection Checklist	Partial Repair Completed/Outstanding Deficiency Logged on Repair Order	All Repairs Completed
					Casing	Annular Seal	Tabs / Bolts	Box Structure	Apron	Trip Hazard	Below Grade						
S-3 ①			X	X													X
Notes: Necked Christy Box Lid, replaced lock																	
V-2					X												X
Notes: Well filled in with pea gravel, replaced it with new concrete annular seal																	
S-1					X												X
Notes: Christy box skirt broken, cracked, annular seal deficient, replaced wellbox																	
Notes:																	
Notes:																	

### WELL GAUGING DATA

Project # 350916-MD3 Date 9/16/05 Client Shee (1)

Site 5251 Hayward Rd, 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 <u>or TOC</u>
S-1	3					11.37	28.62	
S-2	3					8.06	24.13	
S-3	3					8.29	24.12	
S-5	3					8.24	24.08	

### SHELL WELL MONITORING DATA SHEET

BTS #: <u>050916-ND</u>	Site: <u>98905243</u>
Sampler: <u>ND</u>	Date: <u>9/16/05</u>
Well I.D.: <u>S-1</u>	Well Diameter: 2 <u>(3)</u> 4 6 8
Total Well Depth (TD): <u>28.62</u>	Depth to Water (DTW): <u>11.37</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>19.82</u>	

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: \_\_\_\_\_

<u>6.4</u> (Gals.) X <u>3</u> = <u>19.2</u> Gals. I Case Volume                      Specified Volumes                      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </table>	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
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 $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1429	68.4	7.8	1358	286	6.5	odor grey
1431	69.1	7.7	1531	263	13	↓ ↓
1434	69.4	7.6	1595	71000	19.5	↓ ↓

Did well dewater? Yes  No  Gallons actually evacuated: 19.5

Sampling Date: 9/16/05 Sampling Time: 1445 Depth to Water: 20.21 @ site

Sample I.D.: S-1 Laboratory: (STL) Other: Deporter

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

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>050916-MD1</u>	Site: <del>5251</del> <u>98995843</u>
Sampler: <u>MD</u>	Date: <u>9/16/05</u>
Well I.D.: <u>S-2</u>	Well Diameter: 2 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/>
Total Well Depth (TD): <u>24.13</u>	Depth to Water (DTW): <u>8.06</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>NC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>11.27</u>	

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

6 (Gals.) X	3	=	18 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
1336	70.5	7.6	3259	114	6	clear
1337	70.7	7.6	3357	117	12	↓
1339	69.9	7.6	3281	195	18	↓

Did well dewater? Yes  No  Gallons actually evacuated: 18

Sampling Date: 9/16/05 Sampling Time: 1345 Depth to Water: 10.55

Sample I.D.: S-2 Laboratory: STD Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See Scope

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>050916-2073</u>	Site: <u>98995843</u>
Sampler: <u>MM</u>	Date: <u>9/16/05</u>
Well I.D.: <u>5-3</u>	Well Diameter: 2 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth (TD): <u>24.12</u>	Depth to Water (DTW): <u>8.29</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>11.45</u>	

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

1 Case Volume	(Gals.) X <u>3</u>	Specified Volumes	Calculated Volume
	<u>5.9</u>		<u>17.7</u>

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 $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
<u>1352</u>	<u>68.5</u>	<u>6.73</u>	<u>7660</u>	<u>138</u>	<u>6</u>	<u>Cloudy</u>
<u>1354</u>	<u>68.4</u>	<u>7.2</u>	<u>2825</u>	<u>71000</u>	<u>12</u>	<u>↓</u>
<u>1356</u>	<u>68.6</u>	<u>7.3</u>	<u>2724</u>	<u>317</u>	<u>10</u>	<u>↓</u>

Did well dewater? Yes  No  Gallons actually evacuated: 18

Sampling Date: 9/16/05 Sampling Time: 1405 Depth to Water: 11.45

Sample I.D.: 5-3 Laboratory: STL Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See Scope

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

**Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558**

## SHELL WELL MONITORING DATA SHEET

BTS #: <u>050916-WJ3</u>	Site: <u>98995843</u>
Sampler: <u>MD</u>	Date: <u>9/16/05</u>
Well I.D.: <u>S-5</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): <u>24.08</u>	Depth to Water (DTW): <u>8.84</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>11.89</u>	

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: \_\_\_\_\_

<u>5.6</u> (Gals.) X	<u>3</u>	<u>=</u>	<u>16.8</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 $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
<u>1410</u>	<u>66.5</u>	<u>7.2</u>	<u>1430</u>	<u>217</u>	<u>6</u>	<u>Cloudy, odor</u>
<u>1411</u>	<u>66.3</u>	<u>7.2</u>	<u>1424</u>	<u>190</u>	<u>12</u>	<u>↓ ↓</u>
<u>1413</u>	<u>65.8</u>	<u>7.2</u>	<u>1376</u>	<u>239</u>	<u>18</u>	<u>↓ ↓</u>

Did well dewater? Yes  No  Gallons actually evacuated: 17

Sampling Date: 9/16/05 Sampling Time: 1420 Depth to Water: 9.75

Sample I.D.: S-5 Laboratory: STL Other: \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See Scope

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



WELL GAUGING DATA

Project # 050805-wc-1 Date 8/5/05 Client Shell

Site 5251 Hopland Rd, 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 TOC
S-1	3	odor				9.04	28.63	↓
S-2	3					8.24	24.21	
S-3	3					8.32	24.13	
S-4	3					8.14	24.14	
S-5	3					8.90	24.16	
S-6	3					7.61	25.58	
S-7	3					8.42	24.95	
S-8	3					6.93	24.63	
W-1	-							

### SHELL WELL MONITORING DATA SHEET

BTS #: 050805-wc-1	Site: 98995843
Sampler: wc	Date: 8/5/05
Well I.D.: S-1	Well Diameter: 2 (3) 4 6 8
Total Well Depth (TD): 28.63	Depth to Water (DTW): 9.04
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Grade	D.O. Meter (if req'd): <input type="checkbox"/> YSI <input type="checkbox"/> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.96	

Purge Method:  Bailer  Disposable Bailer  Positive Air Displacement  Electric Submersible

Watera:  Peristaltic  Extraction Pump  Other \_\_\_\_\_

Sampling Method:  Bailer  Disposable Bailer  Extraction Port  Dedicated Tubing

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

$7.3 \text{ (Gals.)} \times 3 = 21.9 \text{ Gals.}$ I Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </table>	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
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 $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1047	71.0	7.9	1434	348		odor
1048	69.9	7.8	1597	381		odor
we <del>1049</del> well dewatered @ ~ 15 gallons						
1116	70.7	7.7	1656	613		odor

Did well dewater?  Yes  No      Gallons actually evacuated: 15

Sampling Date: 8/5/05      Sampling Time: 1117      Depth to Water: 16.21 @ departure

Sample I.D.: S-1      Laboratory:  JTL  Other \_\_\_\_\_

Analyzed for:  TPH-G  BTEX  MTBE  TPH-D      Other: OXY S

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>050805-wc-1</u>	Site: <u>98995843</u>
Sampler: <u>WC</u>	Date: <u>8/5/05</u>
Well I.D.: <u>S-2</u>	Well Diameter: 2 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth (TD): <u>24.21</u>	Depth to Water (DTW): <u>8.24</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	D.O. Meter (if req'd): YSI <input type="radio"/> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>11.43</u>	

Purge Method:  Bailer  Disposable Bailer  Positive Air Displacement  Electric Submersible

Water:  Peristaltic  Extraction Pump  Other \_\_\_\_\_

Sampling Method:  Bailer  Disposable Bailer  Extraction Port  Dedicated Tubing

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

$\frac{5.9 \text{ (Gals.)} \times 3}{\text{Specified Volumes}} = 17.7 \text{ Gals.}$ <p>I Case Volume                      Calculated Volume</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	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
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 $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1009	70.4	7.5	3188	151	5.9	
1010	69.9	7.4	3409	122	11.8	
1011	69.3	7.4	3406	104	17.7	

Did well dewater? Yes  No  Gallons actually evacuated: 17.7

Sampling Date: 8/5/05 Sampling Time: 1020 Depth to Water: 10.97

Sample I.D.: S-2 Laboratory:  SL  Other \_\_\_\_\_

Analyzed for:  TPH-G  BTEX  MTBE  TPH-D Other: Oxy's

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

**Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558**

**SHELL WELL MONITORING DATA SHEET**

BTS #: <u>050805-WC-1</u>	Site: <u>9899</u>
Sampler: <u>WC</u>	Date: <u>8/5/05</u>
Well I.D.: <u>5-3</u>	Well Diameter: 2 <u>3</u> 4 6 8
Total Well Depth (TD): <u>24.13</u>	Depth to Water (DTW): <u>8.32</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>11.48</u>	

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

Sampling Method: Bailer  Disposable Bailer  Extraction Port  Dedicated Tubing  Other: \_\_\_\_\_

<u>5.9</u> (Gals.) X <u>3</u> = <u>17.7</u> Gals.	Well Diameter	Multiplier	Well Diameter	Multiplier
1 Case Volume      Specified Volumes      Calculated Volume	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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
0929	70.5	7.6	2965	116	5.9	
0930	70.0	7.4	2941	627	168	cloudy
0931	69.8	7.3	2929	858	17.7	cloudy

Did well dewater? Yes  No  Gallons actually evacuated: 17.7

Sampling Date: 8/5/05 Sampling Time: 0947 Depth to Water: 11.41

Sample I.D.: 5-3 Laboratory: STL Other \_\_\_\_\_

Analyzed for: TPH-D BTEX MTBE TPH-D Other: ox/s

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

## SHELL WELL MONITORING DATA SHEET

BTS # <u>050805-wc-1</u>	Site: <u>98995843</u>
Sampler: <u>wc</u>	Date: <u>8/5/05</u>
Well I.D.: <u>S-4</u>	Well Diameter: 2 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth (TD): <u>24.14</u>	Depth to Water (DTW): <u>8.14</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	D.O. Meter (if req'd): YSI <input type="checkbox"/> HACH <input type="checkbox"/>
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>11.34</u>	

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

Sampling Method:  Bailer  Disposable Bailer  Extraction Port  Dedicated Tubing  Other: \_\_\_\_\_

<u>5.9</u> (Gals.) X <u>3</u> = <u>17.7</u> Gals. 1 Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	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
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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
0947	69.3	7.8	1213	26	5.9	
0948	70.3	7.6	1012	191	11.8	
0949	69.7	7.6	1035	276	17.7	

Did well dewater? Yes  No  Gallons actually evacuated: 17.7

Sampling Date: 8/5/05 Sampling Time: 0959 Depth to Water: 11.33

Sample I.D.: S-4 Laboratory: STL Other: \_\_\_\_\_

Analyzed for:  TPE  BTEX MTBE TPH-D Other: Oxys

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

**Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558**

## SHELL WELL MONITORING DATA SHEET

BTS #: <u>050805-WC-1</u>	Site: <u>98995843</u>
Sampler: <u>WC</u>	Date: <u>8/5/05</u>
Well I.D.: <u>S-5</u>	Well Diameter: 2 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth (TD): <u>24.16</u>	Depth to Water (DTW): <u>8.90</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>11.95</u>	

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: \_\_\_\_\_

$\frac{5.6 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = 16.8 \text{ Gals.}$ <p style="text-align: center; margin: 0;">Specified Volumes      Calculated Volume</p>	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </table>	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
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 $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1025	69.1	7.5	2408	191	5.6	
1026	67.7	7.4	1505	209	11.2	
1027	67.6	7.2	1434	246	16.8	

Did well dewater? Yes  No  Gallons actually evacuated: 16.8

Sampling Date: 8/5/05 Sampling Time: 1036 Depth to Water: 11.67

Sample I.D.: S-5 Laboratory: STL Other: \_\_\_\_\_

Analyzed for:  TPH-G  BTEX  MTBE  TPH-D Other: OXY5

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

**Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558**

### SHELL WELL MONITORING DATA SHEET

BTS #: 050805-WC-1	Site: 98995843
Sampler: WC	Date: 8/5/05
Well I.D.: S-6	Well Diameter: 2 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth (TD): 25.658	Depth to Water (DTW): 7.61
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	D.O. Meter (if req'd): YSI <input type="radio"/> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.20	

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

Sampling Method: Bailer  Disposable Bailer  Extraction Port  Dedicated Tubing  Other: \_\_\_\_\_

6.6 (Gals.) X 3 = 19.8 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 $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
0850	70.6	7.6	4359	161	6.6	
0851	70.9	7.4	3686	176	13.2	
0853	70.2	7.3	5178	199	19.8	

Did well dewater? Yes  No  Gallons actually evacuated: 19.8

Sampling Date: 8/5/05 Sampling Time: 0858 Depth to Water: 20.43 (frack)

Sample I.D.: S-6 Laboratory:  SPL Other: \_\_\_\_\_

Analyzed for: TPH-G  BTEX  MTBE  TPH-D  Other: OXY S

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 #: 050805	Site: 989584J
Sampler: WC	Date: 8/5/05
Well I.D.: <del>AW-7</del> S-7	Well Diameter: 2 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="checkbox"/>
Total Well Depth (TD): 24.95	Depth to Water (DTW): 8.42
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.72	

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

6.1 (Gals.) X 3 = 18.3 Gals. 1 Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	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
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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
0908	72.3	7.3	8646	199	6.1	
0909	71.4	7.4	4242	197	12.2	
0911	71.0	7.3	5466	198	18.3	

Did well dewater? Yes  No  Gallons actually evacuated: 18.3

Sampling Date: 8/5/05      Sampling Time: 0915      Depth to Water:

Sample I.D.: ~~AW-7~~ S-7      Laboratory: STL      Other:

Analyzed for: TPH-G  BTEX  MTBE      TPH-D      Other:  OX<sub>5</sub>

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

BTS #: <u>050805-WL-1</u>	Site: <u>98995843</u>
Sampler: <u>WC</u>	Date: <u>8/5/05</u>
Well I.D.: <u>S-8</u>	Well Diameter: 2 <u>(3)</u> 4 6 8 _____
Total Well Depth (TD): <u>24.63</u>	Depth to Water (DTW): <u>6.93</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>10.47</u>	

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

Sampling Method: Bailer  Disposable Bailer  Extraction Port  Dedicated Tubing  Other: \_\_\_\_\_

$\frac{6.6 \text{ (Gals.)} \times 3}{1 \text{ Case Volume Specified Volumes}} = 19.8 \text{ Gals. Calculated Volume}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	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
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>0825</u>	<u>69.2</u>	<u>6.4</u>	<u>16.04</u>	<u>148</u>	<u>6.6</u>	<u>clear</u>
<u>0826</u>	<u>68.8</u>	<u>6.4</u>	<u>16.03</u>	<u>163</u>	<u>13.2</u>	<u>↓</u>
<u>0826</u>	<u>68.3</u>	<u>6.5</u>	<u>15.95</u>	<u>195</u>	<u>19.8</u>	<u>↓</u>

Did well dewater? Yes  No  Gallons actually evacuated: 19.8

Sampling Date: 8/5/05 Sampling Time: 0830 Depth to Water: 15.10 (traffic)

Sample I.D.: S-8 Laboratory: STB Other: \_\_\_\_\_

Analyzed for: (TH-G) (BTEX) MTBE TPH-D Other: OxV's

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