

June 18, 2008  
DELTA Project No. SCA6750S1  
SAP No. 135786

**RECEIVED**

1:17 pm, Jun 30, 2008

Alameda County  
Environmental Health

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

Re: **SECOND QUARTER 2008 GROUNDWATER MONITORING AND  
REMEDICATION STATUS REPORT**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, California**  
**Case No. RO0002522**



Dear Mr. Wickham:

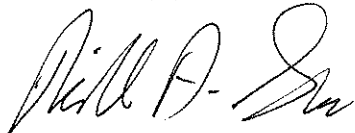
On behalf of Shell Oil Products US (SHELL), Delta Consultants (DELTA) has prepared this *Second Quarter 2008 Groundwater Monitoring and Remediation Status Report* for the above referenced site. The sampling activities at the site were conducted by Blaine Tech Services, Inc. under contract to SHELL and included the collection of groundwater samples and static water level measurements. A DELTA staff member, under the supervision of a California Registered Civil Engineer or a California Professional Geologist, performed the data evaluation.

This quarterly report represents 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.

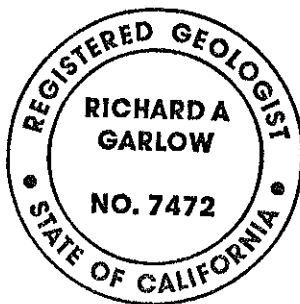
Mr. Jerry Wickham  
Alameda County Environmental Health  
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Should you have any questions or comments regarding this report, please contact Mr. Richard Garlow (DELTA) at (408) 826-1880 or Denis Brown (SHELL) at (707) 865-0251.

Sincerely,  
Delta Consultants



Richard A. Garlow, M.S., P.G.  
Project Manager



Attachment: Second Quarter 2008 Groundwater Monitoring and Remediation Status Report

cc: Denis Brown, Shell Oil Products US  
Betty Graham, Regional Water Quality Control Board, San Francisco Bay Region  
Beverly Howell, GS Management (property owner rep), Pleasanton

June 18, 2008

## SHELL QUARTERLY STATUS REPORT

Station Address: 6750 Santa Rita Rd, Pleasanton, CA  
DELTA Project No.: SCA6750S1  
SHELL Project Manager / Phone No.: Denis Brown / (707) 865-0251  
DELTA Site Manager / Phone No.: Richard Garlow / (408) 826-1880  
Primary Agency / Regulatory ID No.: Alameda County Environmental Health (ACEH) /  
Mr. Jerry Wickham Case No. RO0002522  
Other Agencies to Receive Copies: Regional Water Quality Control Board – San Francisco Bay

### WORK PERFORMED THIS QUARTER (SECOND - 2008):

1. Quarterly groundwater monitoring and sampling. Submitted quarterly report.

### WORK PROPOSED FOR NEXT QUARTER (THIRD - 2008):

1. Quarterly groundwater monitoring and sampling. Submit quarterly report.

Current Phase of Project: Groundwater Monitoring  
Site Use: Shell-branded Service Station  
Frequency of Sampling: Quarterly  
Frequency of Monitoring: Quarterly  
Frequency of System Sampling: N/A  
Frequency of System Monitoring: N/A  
Is Separate Phase Hydrocarbon Present  Yes  No  
On-site (Well #'s): \_\_\_\_\_  
Cumulative SPH Recovered to Date: None  
SPH Recovered This Quarter: None  
Groundwater Removed this Quarter: 54 gallons were recovered on April 11, 2008  
Receptors in Site Vicinity: Drinking Water Well (3S/1E 5J3) is located 1,742 feet southwest of site location.  
Site Lithology: Approximately 40 feet of silty and clayey soils over lying approximately 15 feet of interbedded sands and silty sands, silty and clayey soils, and silty sands and sandy silts. This is underlain by up to 65 feet of silty and clayey soils. There maybe a two to three foot thick sandy and silty sand bed at a depth of approximately 100 feet.  
Current Remediation Techniques: None  
Permits for Discharge: None  
Approximate Depth to Groundwater: 18.50 to 23.10 feet below top of casing.  
Groundwater Gradient: Southerly at approximately 0.04 ft/ft.  
Current Agency Correspondence: ACEH letter dated February 17, 2006 (Appendix A)

June 18, 2008

## SHELL QUARTERLY STATUS REPORT (CONT.)

### Site History:

Case Opening	October 2002, GRASP Well Installation
On-Site Assessment	October 2002, GRASP Well Installation
Off-Site Assessment	1/05, Install MW-5; 2004, CPT Investigation; 2005 Install MW-6 and MW-7
Passive Remediation	Monitor natural attenuation
Active Remediation	None
Closure	None
Summary of Unusual Activity:	None

Discussion: Plume appears stable; TBA was not detected above reporting limits in any wells. TPPH concentrations were detected in onsite wells MW-3 and MW-4. MTBE concentrations were detected in onsite wells MW-1 through MW-4. Offsite, down-gradient wells have no detectable petroleum hydrocarbon related constituents of concern.

**ATTACHED:**

- Table 1 – Historic Well Concentrations
- Figure 1 – Site Location Map
- Figure 2 – Groundwater Elevation Contour Map
- Figure 3 – Groundwater Hydrocarbon Distribution Map
- Appendix A – ACEH Letter dated February 17, 2006
- Appendix B – Field Data Sheets
- Appendix C – Field Procedures
- Appendix D – Laboratory Report and Chain-of-Custody Documentation

## TABLE

**TABLE 1**  
**HISTORIC WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita 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 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	12/4/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.75	NA
MW-1	12/22/2002	<50	81	<0.50	<0.50	<0.50	<0.50	62	<2.0	<2.0	<2.0	<50	NA	NA	NA	31.93	NA
MW-1	3/28/2003	<50	70	<0.50	<0.50	<0.50	<1.0	130	<2.0	<2.0	<2.0	43	NA	NA	343.48	31.59	311.89
MW-1	5/9/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	280	<10	<10	<10	200	NA	NA	343.48	31.10	312.38
MW-1	6/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.65	311.83
MW-1	7/8/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	160	<10	<10	<10	170	NA	NA	343.48	30.90	312.58
MW-1	7/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.53	311.95
MW-1	7/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.95	313.53
MW-1	8/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.99	313.49
MW-1	9/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	30.02	313.46
MW-1	10/3/2003	<500	NA	<5.0	<5.0	<5.0	<10	810	<20	<20	<20	540	NA	NA	343.48	29.89	313.59
MW-1	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.38	312.10
MW-1	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.71	313.77
MW-1	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.72	313.76
MW-1	1/6/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	400	<10	<10	<10	280	NA	NA	343.48	29.16	314.32
MW-1	4/6/2004	<1,300	NA	<13	<13	<13	<25	3,300	NA	NA	NA	3,500	NA	NA	343.48	31.38	312.10
MW-1	7/30/2004	<1,300	NA	<13	<13	<13	<25	1,000	NA	NA	NA	600	NA	NA	343.48	28.51	314.97
MW-1	10/7/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	530	NA	NA	NA	390	NA	NA	343.48	28.55	314.93
MW-1	1/26/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	320	<10	<10	<10	130	NA	NA	343.48	27.35	316.13
MW-1	4/14/2005	<150	NA	<1.5	<1.5	<1.5	<1.5	720	NA	NA	NA	260	NA	NA	343.48	26.70	316.78
MW-1	7/29/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	270	NA	NA	NA	150	NA	NA	343.48	26.33	317.15
MW-1	10/20/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	39	NA	NA	NA	<25	NA	NA	343.48	27.12	316.36
MW-1	1/27/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	30.1	NA	NA	NA	<10.0	NA	NA	343.48	25.25	318.23
MW-1	4/20/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	16.9	NA	NA	NA	12.4	NA	NA	343.48	21.37	322.11
MW-1	7/12/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	22.5	NA	NA	NA	<10.0	NA	NA	343.48	22.35	321.13
MW-1	10/20/2006	<50	NA	<0.50	<0.50	<0.50	<0.50	1.7	NA	NA	NA	<5.0	NA	NA	343.48	22.67	320.81
MW-1	1/22/2007	<50 d,f	NA	<0.50 d,f	<0.50 d,f	<0.50 d,f	<0.50 d,f	17 d,f	<0.50 d,f	<0.50 d,f	<0.50 d,f	<20 d,f	NA	NA	343.48	21.76	321.72

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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	4/11/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	1.5	NA	NA	NA	<10	NA	NA	343.48	21.20	322.28
MW-1	7/5/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	5.6	NA	NA	NA	<10	NA	NA	343.48	21.98	321.50
MW-1	10/26/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	19	NA	NA	NA	<10	NA	NA	343.48	21.61	321.87
MW-1	1/22/2008	<50 g	NA	<0.50	<1.0	<1.0	<1.0	3.9	<2.0	<2.0	<2.0	<10	NA	NA	343.48	23.38	320.10
<b>MW-1</b>	<b>4/11/2008</b>	<b>&lt;50</b>	<b>NA</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>1.2</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>&lt;10</b>	<b>NA</b>	<b>NA</b>	<b>343.48</b>	<b>19.40</b>	<b>324.08</b>
MW-2	12/4/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.25	NA
MW-2	12/22/2002	<200	120	<2.0	<2.0	<2.0	<2.0	660	<2.0	<2.0	<2.0	<50	NA	NA	NA	30.70	NA
MW-2	3/28/2003	<2,500	60	<25	<25	<25	<50	4,200	<100	<100	<100	2,500	NA	NA	342.86	30.30	312.56
MW-2	5/9/2003	<2,500	NA	<25	<25	<25	<50	4,000	<100	<100	<100	3,200	NA	NA	342.86	29.83	313.03
MW-2	6/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.45	312.41
MW-2	7/8/2003	<2,000	NA	<20	<20	<20	<40	2,800	<80	<80	<80	2,900	NA	NA	342.86	29.86	313.00
MW-2	7/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.33	312.53
MW-2	7/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.33	313.53
MW-2	8/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.98	312.88
MW-2	9/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.21	312.65
MW-2	10/3/2003	<2,000	NA	<20	<20	<20	<40	3,600	<80	<80	<80	3,000	NA	NA	342.86	30.43	312.43
MW-2	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.79	313.07
MW-2	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.00	312.86
MW-2	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.14	312.72
MW-2	1/6/2004	<5,000	NA	<50	<50	<50	<100	4,500	<200	<200	<200	1,900	NA	NA	342.86	30.05	312.81
MW-2	4/6/2004	<2,000	NA	<20	<20	<20	<40	4,600	NA	NA	NA	5,100	NA	NA	342.86	29.30	313.56
MW-2	7/30/2004	<500	NA	<5.0	<5.0	<5.0	<10	1,000	NA	NA	NA	950	NA	NA	342.86	28.80	314.06
MW-2	10/7/2004	<2,500	NA	<25	<25	<25	<50	6,300	NA	NA	NA	6,500	NA	NA	342.86	28.02	314.84
MW-2	1/26/2005	<1,300	NA	<13	<13	<13	<25	2,100	<50	<50	<50	2,300	NA	NA	342.86	33.12	309.74
MW-2	4/14/2005	<500	NA	<5.0	<5.0	<5.0	<5.0	2,400	NA	NA	NA	1,100	NA	NA	342.86	25.55	317.31
MW-2	7/29/2005	<2,500	NA	<25	<25	<25	<50	3,900	NA	NA	NA	1,500	NA	NA	342.86	25.98	316.88
MW-2	10/20/2005	<2,500	NA	<25	<25	<25	<50	2,500	NA	NA	NA	480	NA	NA	342.86	25.91	316.95



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MW-2	1/27/2006	2,410	NA	<0.500	<0.500	<0.500	<0.500	3,160	NA	NA	NA	97.0	NA	NA	342.86	24.40	318.46
MW-2	4/20/2006	<50.0	NA	<0.500	0.880	<0.500	1.16	278	NA	NA	NA	72.2	NA	NA	342.86	25.85	317.01
MW-2	7/12/2006	1,120	NA	<0.500	<0.500	<0.500	<0.500	1,100	NA	NA	NA	<10.0	NA	NA	342.86	21.72	321.14
MW-2	10/20/2006	690 c	NA	<0.50	<0.50	<0.50	<0.50	1,100	NA	NA	NA	<5.0	NA	NA	342.86	21.72	321.14
MW-2	1/22/2007	730	NA	<10	<10	<10	<10	990	<10	<10	<10	<400	NA	NA	342.86	21.13	321.73
MW-2	4/11/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	1,100	NA	NA	NA	40	NA	NA	342.86	20.35	322.51
MW-2	7/5/2007	360 g,h	NA	<5.0	<10	<10	<10	650	NA	NA	NA	<100	NA	NA	342.86	20.44	322.42
MW-2	10/26/2007	460 g,h	NA	<5.0	<10	<10	<10	690	NA	NA	NA	<100	NA	NA	342.86	19.94	322.92
MW-2	1/22/2008	250 g,h	NA	<5.0	<10	<10	<10	720	<20	<20	<20	<100	NA	NA	342.86	18.71	324.15
MW-2	4/11/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	15	NA	NA	NA	<10	NA	NA	342.86	18.50	324.36
MW-3	12/4/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.65	NA
MW-3	12/22/2002	<2,000	72	<20	<20	<20	<20	8,000	<20	<20	<20	1,500	NA	NA	NA	31.10	NA
MW-3	3/28/2003	<5,000	89	<50	<50	<50	<100	10,000	<200	<200	<200	6,100	NA	NA	342.23	30.76	311.47
MW-3	5/9/2003	11,000	NA	<100	<100	<100	<200	15,000	<400	<400	<400	9,300	NA	NA	342.23	30.04	312.19
MW-3	6/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	30.23	312.00
MW-3	7/8/2003	<10,000	NA	<100	<100	<100	<200	9,500	<400	<400	<400	2,500	NA	NA	342.23	30.11	312.12
MW-3	7/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.80	312.43
MW-3	7/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.94	312.29
MW-3	8/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	30.05	312.18
MW-3	9/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.95	312.28
MW-3	10/3/2003	<10,000	NA	<100	<100	<100	<200	8,800	<400	<400	<400	6,600	NA	NA	342.23	29.97	312.26
MW-3	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.97	312.26
MW-3	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.94	312.29
MW-3	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.43	312.80
MW-3	1/6/2004	<5,000	NA	<50	<50	<50	<100	9,800	<200	<200	<200	3,800	NA	NA	342.23	29.25	312.98
MW-3	4/6/2004	<5,000	NA	<50	<50	<50	<100	4,200	NA	NA	NA	2,100	NA	NA	342.23	28.82	313.41
MW-3	7/30/2004	<2,500	NA	<25	<25	<25	<50	3,000	NA	NA	NA	1,200	NA	NA	342.23	28.73	313.50

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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-3	10/7/2004	<1,000	NA	<10	<10	<10	<20	860	NA	NA	NA	320	NA	NA	342.23	28.72	313.51
MW-3	1/26/2005	<500	NA	<5.0	<5.0	<5.0	<10	820	<20	<20	<20	250	NA	NA	342.23	26.50	315.73
MW-3	4/14/2005	<400	NA	<4.0	<4.0	<4.0	<4.0	2,200	NA	NA	NA	590	NA	NA	342.23	26.15	316.08
MW-3	7/29/2005	<2,500	NA	<25	<25	<25	<50	3,100	NA	NA	NA	1,700	NA	NA	342.23	25.50	316.73
MW-3	10/20/2005	<2,000	NA	<20	<20	<20	<40	1,700	NA	NA	NA	220	NA	NA	342.23	26.85	315.38
MW-3	1/27/2006	808	NA	<0.500	<0.500	<0.500	<0.500	736	NA	NA	NA	39.4	NA	NA	342.23	24.95	317.28
MW-3	4/20/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	364	NA	NA	NA	<10.0	NA	NA	342.23	21.51	320.72
MW-3	7/12/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	120	NA	NA	NA	<10.0	NA	NA	342.23	22.52	319.71
MW-3	10/20/2006	220 c	NA	<0.50	<0.50	<0.50	<0.50	260	NA	NA	NA	<5.0	NA	NA	342.23	22.01	320.22
MW-3	1/22/2007	290 d,e,f	NA	<2.5 d,f	<2.5 d,f	<2.5 d,f	<2.5 d,f	450 d,f	<2.5 d,f	<2.5 d,f	<2.5 d,f	<100 d,f	NA	NA	342.23	21.95	320.28
MW-3	4/11/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	340	NA	NA	NA	<10	NA	NA	342.23	20.31	321.92
MW-3	7/5/2007	120 g,h	NA	<1.0	<2.0	<2.0	<2.0	190	NA	NA	NA	<20	NA	NA	342.23	20.82	321.41
MW-3	10/26/2007	190 g,h	NA	<1.0	<2.0	<2.0	<2.0	340	NA	NA	NA	<20	NA	NA	342.23	21.40	320.83
MW-3	1/22/2008	140 g,h	NA	<1.0	<2.0	<2.0	<2.0	250	<4.0	<4.0	<4.0	<20	NA	NA	342.23	19.42	322.81
MW-3	4/11/2008	120	NA	<1.0	<2.0	<2.0	<2.0	86	NA	NA	NA	<20	NA	NA	342.23	20.90	321.33
MW-4	12/4/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.92	NA
MW-4	12/22/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	93	<2.0	<2.0	<2.0	<50	NA	NA	NA	32.20	NA
MW-4	3/28/2003	<50	67	<0.50	<0.50	<0.50	<1.0	2.4	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	32.07	311.37
MW-4	5/9/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	75	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	31.35	312.09
MW-4	6/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.42	312.02
MW-4	7/8/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	18	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	31.42	312.02
MW-4	7/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.20	312.24
MW-4	7/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.05	312.39
MW-4	8/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.20	312.24
MW-4	9/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.15	312.29
MW-4	10/3/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	23	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	31.10	312.34
MW-4	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.14	312.30

**TABLE 1**  
**HISTORIC WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita 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 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-4	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	30.92	312.52
MW-4	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	30.82	312.62
MW-4	1/6/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	40	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	30.24	313.20
MW-4	4/6/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	16	NA	NA	NA	<5.0	NA	NA	343.44	30.10	313.34
MW-4	7/30/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	25	NA	NA	NA	<5.0	NA	NA	343.44	29.75	313.69
MW-4	10/7/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	35	NA	NA	NA	<5.0	NA	NA	343.44	29.79	313.65
MW-4	1/26/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	450	<10	<10	<10	43	NA	NA	343.44	27.60	315.84
MW-4	4/14/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	210	NA	NA	NA	<5.0	NA	NA	343.44	27.40	316.04
MW-4	7/29/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	57	NA	NA	NA	11	NA	NA	343.44	26.68	316.76
MW-4	10/20/2005	<50 a	NA	<0.50	<0.50	<0.50	<1.0	44	NA	NA	NA	<5.0	NA	NA	343.44	27.72	315.72
MW-4	1/27/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	98.4	NA	NA	NA	<10.0	NA	NA	343.44	28.90	314.54
MW-4	4/20/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	254	NA	NA	NA	<10.0	NA	NA	343.44	22.30	321.14
MW-4	7/12/2006	313	NA	<0.500	<0.500	<0.500	<0.500	358	NA	NA	NA	<10.0	NA	NA	343.44	23.54	319.90
MW-4	10/20/2006	450 c	NA	<0.50	<0.50	<0.50	<0.50	590	NA	NA	NA	<5.0	NA	NA	343.44	22.04	321.40
MW-4	1/22/2007	310	NA	<5.0	<5.0	<5.0	<5.0	410	<5.0	<5.0	<5.0	<200	NA	NA	343.44	22.93	320.51
MW-4	4/11/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	350	NA	NA	NA	<10	NA	NA	343.44	21.30	322.14
MW-4	7/5/2007	160 g,h	NA	<1.0	<2.0	<2.0	<2.0	260	NA	NA	NA	<20	NA	NA	343.44	22.00	321.44
MW-4	10/26/2007	150 g,h	NA	<1.0	<2.0	<2.0	<2.0	230	NA	NA	NA	<20	NA	NA	343.44	22.03	321.41
MW-4	1/22/2008	110 g,h	NA	<1.0	<2.0	<2.0	<2.0	180	<4.0	<4.0	<4.0	<20	NA	NA	343.44	20.70	322.74
<b>MW-4</b>	<b>4/11/2008</b>	<b>150</b>	<b>NA</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>150</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>&lt;10</b>	<b>NA</b>	<b>NA</b>	<b>343.44</b>	<b>22.67</b>	<b>320.77</b>
MW-5	2/8/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	340.88	26.83	314.05
MW-5	2/10/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	5.1	<2.0	<2.0	<2.0	<5.0	NA	NA	340.88	27.13	313.75
MW-5	4/14/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	<5.0	NA	NA	340.88	26.44	314.44
MW-5	7/29/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	<5.0	NA	NA	340.88	26.73	314.15
MW-5	10/20/2005	56	NA	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	<5.0	NA	NA	340.88	26.95	313.93
MW-5	1/27/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	<10.0	NA	NA	340.88	26.15	314.73
MW-5	4/20/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	<10.0	NA	NA	340.88	22.21	318.67

**TABLE 1**  
**HISTORIC WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita 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 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-5	7/12/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	<10.0	NA	NA	340.88	23.72	317.16
MW-5	10/20/2006	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	<5.0	NA	NA	340.88	23.34	317.54
MW-5	1/22/2007	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	NA	NA	340.88	22.65	318.23
MW-5	4/11/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	340.88	23.83	317.05
MW-5	7/5/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	340.88	21.19	319.69
MW-5	10/26/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	2.2	NA	NA	NA	<10	NA	NA	340.88	21.99	318.89
MW-5	1/22/2008	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	340.88	19.80	321.08
<b>MW-5</b>	<b>4/11/2008</b>	<b>&lt;50</b>	<b>NA</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>&lt;10</b>	<b>NA</b>	<b>NA</b>	<b>340.88</b>	<b>22.38</b>	<b>318.50</b>
MW-6	12/1/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.97	27.44	315.53
MW-6	12/7/2005	<50	130	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.020	342.97	26.15	316.82
MW-6	1/27/2006	<50.0	230	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	<10.0	NA	NA	342.97	24.95	318.02
MW-6	4/20/2006	<50.0	<50.0 b	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	<10.0	NA	NA	342.97	23.51	319.46
MW-6	7/12/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	<10.0	NA	NA	342.97	23.92	319.05
MW-6	10/20/2006	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	<5.0	NA	NA	342.97	24.02	318.95
MW-6	1/22/2007	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	NA	NA	342.97	23.54	319.43
MW-6	4/11/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	342.97	23.06	319.91
MW-6	7/5/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	342.97	21.85	321.12
MW-6	10/26/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	342.97	22.45	320.52
MW-6	1/22/2008	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	342.97	21.72	321.25
<b>MW-6</b>	<b>4/11/2008</b>	<b>&lt;50</b>	<b>NA</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>&lt;10</b>	<b>NA</b>	<b>NA</b>	<b>342.97</b>	<b>23.10</b>	<b>319.87</b>
MW-7	12/1/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	341.21	27.48	313.73
MW-7	12/7/2005	<50	190	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.020	341.21	27.29	313.92
MW-7	1/27/2006	<50.0	<100	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	<10.0	NA	NA	341.21	25.10	316.11
MW-7	4/20/2006	<50.0	<48.7 b	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	<10.0	NA	NA	341.21	22.71	318.50
MW-7	7/12/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	<10.0	NA	NA	341.21	23.40	317.81
MW-7	10/20/2006	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	<5.0	NA	NA	341.21	23.63	317.58

**TABLE 1  
HISTORIC WELL CONCENTRATIONS  
Shell-branded Service Station  
6750 Santa Rita 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 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-7	1/22/2007	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	NA	NA	341.21	22.68	318.53
MW-7	4/11/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	341.21	24.51	316.70
MW-7	7/5/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	341.21	21.40	319.81
MW-7	10/26/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	341.21	21.72	319.49
MW-7	1/22/2008	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	341.21	20.36	320.85
MW-7	4/11/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	341.21	21.83	319.38

Abbreviations:

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

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.

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

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 or Tertiary butanol, analyzed by EPA Method 8260B

1,2-DCA = 1,2-Dichloroethane, analyzed by EPA Method 8260B

EDB = 1,2-Dibromoethane or Ethylene dibromide, analyzed by EPA Method 504.1

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

NA = Not applicable

**TABLE 1**  
**HISTORIC WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita 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 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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Notes:

a = The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.

b = Diesel with Silica gel clean-up.

c = The result for this hydrocarbon is elevated due to the presence of single analyte peak(s) in the quantitation range.

d = The sample, as received, was not preserved in accordance to the referenced analytical method.

e = Hydrocarbon result partly due to individual peak(s) in quantitation range.

f = pH=5

g = Analyzed by EPA Method 8015B (M).

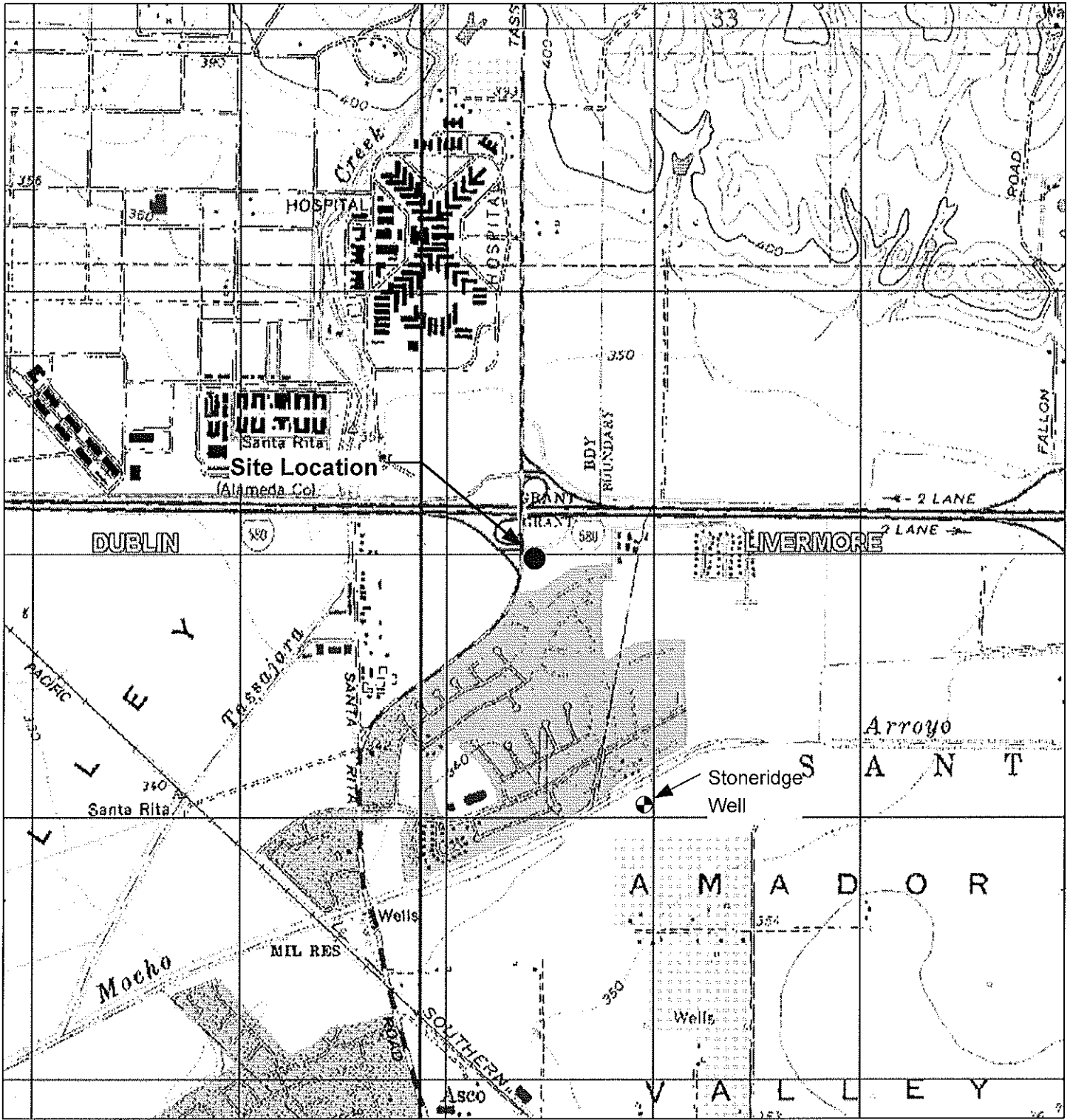
h = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

Site surveyed November 22, 2002 by Mid Coast Engineers.

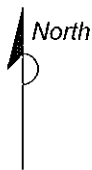
MW-5 surveyed January 31, 2005 by Mid Coast Engineers of Watsonville, CA.

Wells MW-6 and MW-7 surveyed December 19, 2005 by Mid Coast Engineers.

## FIGURES



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



QUADRANGLE LOCATION

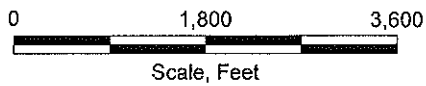


FIGURE 1

SITE LOCATION MAP

SHELL-BRANDED SERVICE STATION  
 6750 Santa Rita Road  
 Pleasanton, California

PROJECT NO. SCA6750S1	DRAWN BY VF 12/04/03
FILE NO.	PREPARED BY VF
REVISION NO.	REVIEWED BY





PROJECT NUMBER SCA6750S1

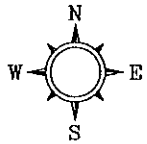
APPROVED BY

CHECKED BY

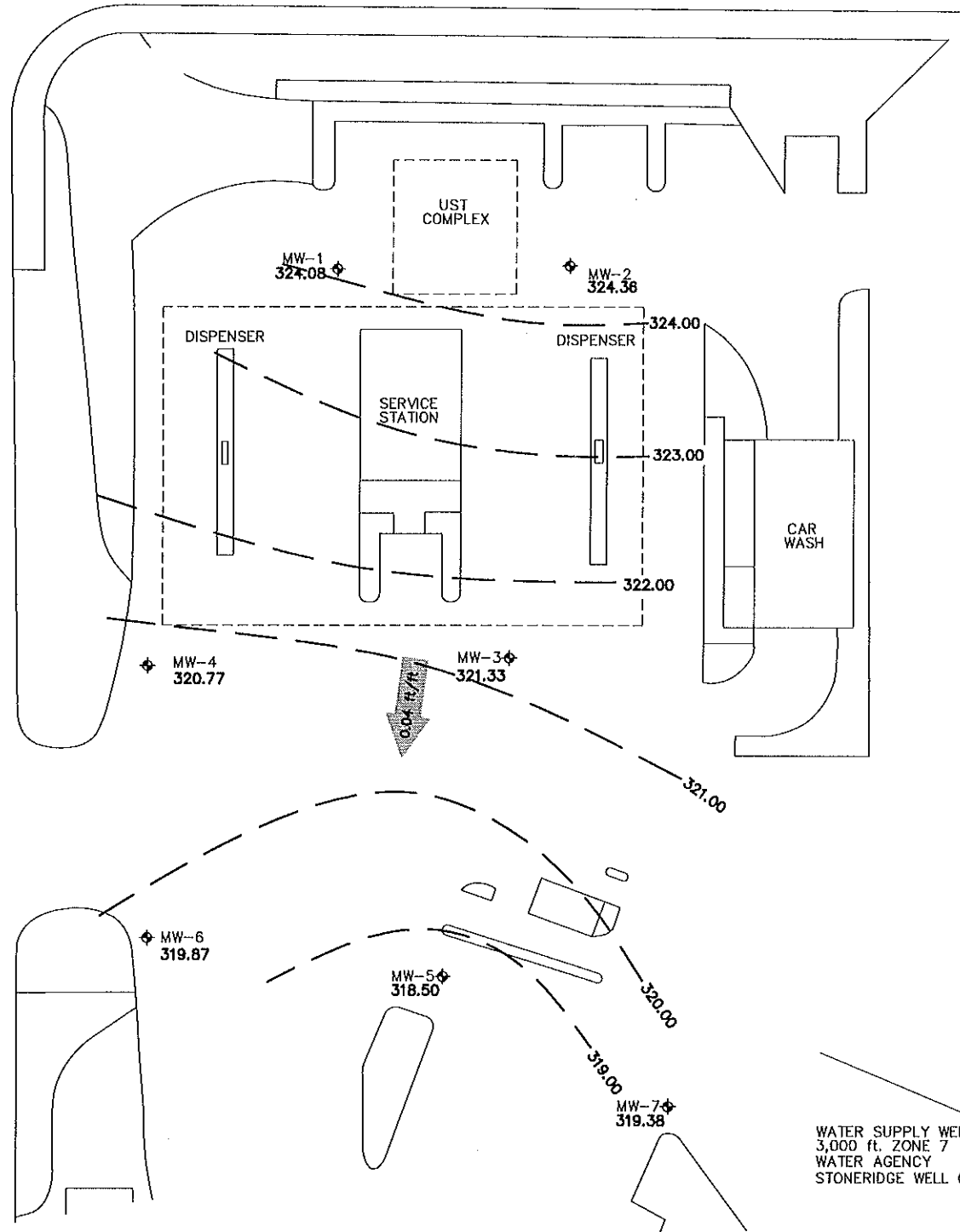
DRAWN BY J.F.F. 5/8/2008

PIMLICO DRIVE

SANTA RITA ROAD

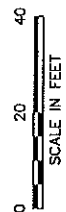


- LEGEND**
- MW-1 ⚡ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
  - 324.08 GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL)
  - 322.00 - - - GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL) CONTOUR INTERVAL=1.00 FEET
  - ← 0.04 ft/ft APPROXIMATE GROUNDWATER GRADIENT DIRECTION (ft/ft)



NEAREST LUFT SITE 21,00 ft. EAST BAY BMW

WATER SUPPLY WELL 3,000 ft. ZONE 7 WATER AGENCY STONERIDGE WELL 01

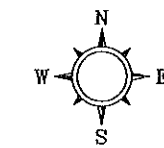


SHELL OIL PRODUCTS US  
SHELL-BRANDED SERVICE STATION  
PLEASANTON, CALIFORNIA

FIGURE 2  
GROUNDWATER ELEVATION CONTOUR MAP  
4/11/2008  
6750 SANTA RITA ROAD  
PLEASANTON, CALIFORNIA

PROJECT NUMBER SCA6750S1  
 DRAWN BY J.F.F. 5/8/2008  
 CHECKED BY  
 APPROVED BY

PIMLICO DRIVE



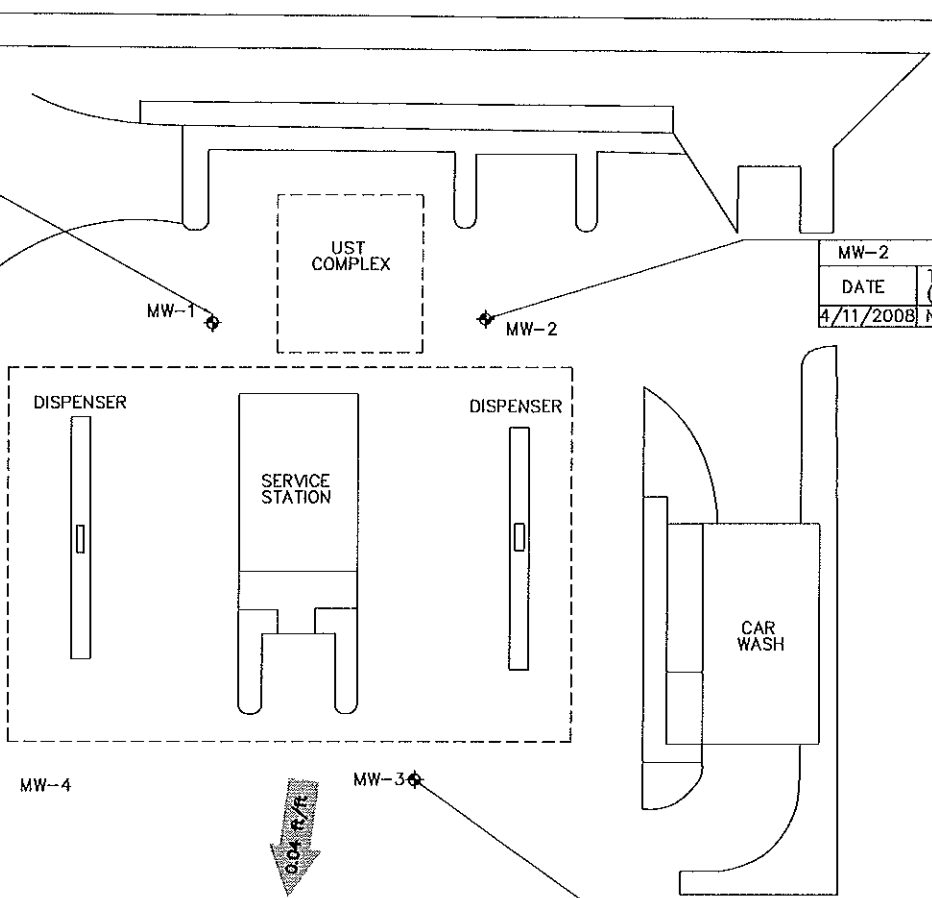
MW-1				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
4/11/2008	ND<50	ND<0.50	1.2	ND<10

MW-2				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
4/11/2008	ND<50	ND<5.0	15	ND<10

LEGEND

- MW-1 ◆ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- TPH-g TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- MTBE METHYL TERT-BUTYL ETHER
- TBA TERT-BUTYL ALCOHOL
- µg/L MICROGRAMS PER LITER
- ND< NOT DETECTED ABOVE LIMIT NOTED
- ← 0.04 ft/ft APPROXIMATE GROUNDWATER GRADIENT DIRECTION (ft/ft)

SANTA RITA ROAD



MW-4				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
4/11/2008	150	ND<0.50	150	ND<10

MW-3				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
4/11/2008	120	ND<1.0	86	ND<20

MW-5				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
4/11/2008	ND<50	ND<0.50	ND<1.0	ND<10

NEAREST LUFT SITE 21,00 ft. EAST BAY BMW

WATER SUPPLY WELL 3,000 ft. ZONE 7  
 WATER AGENCY STONERIDGE WELL 01

MW-6				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
4/11/2008	ND<50	ND<0.50	ND<1.0	ND<10

MW-7				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
4/11/2008	ND<50	ND<0.50	ND<1.0	ND<10



SHELL OIL PRODUCTS US  
 SHELL-BRANDED SERVICE STATION  
 PLEASANTON, CALIFORNIA

FIGURE 3  
 GROUNDWATER HYDROCARBON  
 DISTRIBUTION MAP  
 4/11/2008  
 6750 SANTA RITA ROAD  
 PLEASANTON, CALIFORNIA

**APPENDIX A**

**ACEH LETTER DATED FEBRUARY 17, 2006**

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

February 17, 2006

Mr. Denis Brown ✓  
Shell Oil Products US  
20945 S. Wilmington Ave.  
Carson, CA 90810-1039

135786

RECEIVED SH&P

FEB 23 2006

Subject: Fuel Leak Case No. RO0002522, Shell#13-5786, 6750 Santa Rita Road, Pleasanton, CA

Dear Mr. Brown:

Alameda County Environmental Health (ACEH) staff has reviewed the case file and the reports entitled, "Site Conceptual Model/Soil and Groundwater Investigation," dated January 18, 2006 and "Quarterly Groundwater Monitoring and Remediation Status Report – Fourth Quarter 2005," dated January 18, 2006. Both reports were prepared on behalf of Shell by Delta Environmental Consultants, Inc. The Site Conceptual Model/Soil and Groundwater Investigation, report presents results from soil sampling in the source area and boring logs from two additional off-site monitoring wells. The Quarterly Groundwater Monitoring and Remediation Status Report – Fourth Quarter 2005, presents water level measurements and analytical results from sampling activities conducted on October 20, 2005 for monitoring wells MW-1 through MW-5.

We request that you address the following technical comments, perform the proposed work, and send us the reports described below.

**TECHNICAL COMMENTS**

1. **Source Area Characterization.** The source area characterization indicates that two residual source areas are present on site (UST complex and western dispenser island). Based on the results presented, no further investigation is required at this time in the source area.
2. **Quarterly Groundwater Monitoring and Interim Groundwater Extraction.** ACEH concurs with the recommendations to continue quarterly groundwater monitoring and groundwater extraction activities. Additional wells MW-6 and MW-7 are to be included in future quarterly groundwater monitoring. Groundwater samples are to be analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), and fuel oxygenates methyl tert-butyl ether and tert-butyl alcohol (TBA) using EPA Method 8260B. Please include results from the quarterly groundwater monitoring and interim groundwater extraction in the reports requested below.

### TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Mr. Jerry Wickham), according to the following schedule:

- **May 15, 2006** - Quarterly Monitoring and Remediation Status Report for the First Quarter 2006
- **August 15, 2006** - Quarterly Monitoring and Remediation Status Report for the Second Quarter 2006
- **November 15, 2006** - Quarterly Monitoring and Remediation Status Report for the Third Quarter 2006

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

### ELECTRONIC SUBMITTAL OF REPORTS

Effective **January 31, 2006**, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements ([http://www.swrcb.ca.gov/ust/cleanup/electronic\\_reporting](http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting)).

In order to facilitate electronic correspondence, we request that you provide up to date electronic mail addresses for all responsible and interested parties. Please provide current electronic mail addresses and notify us of future changes to electronic mail addresses by sending an electronic mail message to me at [jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org).

### PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following:

Mr. Denis Brown  
February 17, 2006  
Page 3

"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." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

#### PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

#### UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

#### AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791.

Sincerely,



Jerry Wickham  
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

Mr. Denis Brown  
February 17, 2006  
Page 4

cc: Debbie Arnold  
Delta Environmental Consultants, Inc.  
175 Bernal Road  
San Jose, CA 95119

Matt Katen, QIC 80201  
Zone 7 Water Agency  
100 North Canyons Parkway  
Livermore, CA 94551

Danielle Stefani  
Livermore-Pleasanton Fire Department  
3560 Nevada Street  
Pleasanton, CA 94566

Donna Drogos, ACEH  
Jerry Wickham, ACEH  
File

**APPENDIX B**

**FIELD DATA SHEETS**



# SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 6750 Santa Rita Rd. Pleasanton Date \_\_\_\_\_  
 Job Number 080411-EC1 Technician EC Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Well Box Meets Compliance Requirements *See Below	Water Bailed From Wellbox	Cap Replaced	Lock Replaced	Well Not Inspected (explain in notes)	New Deficiency Identified	Previously Identified Deficiency Persists	Notes
MW-1	X								
MW-2	X								
MW-3	X								
MW-4	X		X						
MW-5	X								
MW-6		X	X				X		No tag
MW-7		X							No tag

\*Well box must meet all three criteria to be compliant: 1) WELL IS SECURABLE BY DESIGN (12" or less) 2) WELL IS MARKED WITH THE WORDS "MONITORING WELL" (12" or less) 3) WELL TAG IS PRESENT, SECURE, AND CORRECT

Notes: \_\_\_\_\_  
 \_\_\_\_\_

WELL GAUGING DATA

Project # 080411-EC1 Date 4-11-08 Client Shell

Site 6750 Santa Rita Rd. Pleasanton

Well ID	Time	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	Notes
MW-1	0750	2					19.40	41.74		
MW-2	0753	2					18.50	41.62		
MW-3	0759	2					20.90	43.91		
MW-4	0804	2					22.67	43.29		
MW-5	0809	2					22.38	32.77		
MW-6	0813	2					23.10	29.01		
MW-7	0817	2					21.83	28.84		

## SHELL WELL MONITORING DATA SHEET

BTS #: <u>080411-EC1</u>	Site: <u>97464711</u>
Sampler: <u>EC</u>	Date: <u>4-11-08</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth (TD): <u>41.74</u>	Depth to Water (DTW): <u>19.40</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>23.87</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: \_\_\_\_\_

$3.6$ (Gals.) X $3$ = $10.8$ 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
<u>1104</u>	<u>68.8</u>	<u>7.64</u>	<u>1826</u>	<u>131</u>	<u>3.6</u>	
<u>1107</u>	<u>69.4</u>	<u>7.31</u>	<u>1782</u>	<u>83</u>	<u>7.2</u>	
<u>1110</u>	<u>69.9</u>	<u>7.28</u>	<u>1794</u>	<u>57</u>	<u>10.8</u>	

Did well dewater? Yes  No  Gallons actually evacuated: 10.8

Sampling Date: 4-11-08 Sampling Time: 1115 Depth to Water: 21.74

Sample I.D.: MW-1 Laboratory: STL Other Cal Science

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE COC

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**

22.34

## SHELL WELL MONITORING DATA SHEET

BTS #: <u>080411-EC1</u>	Site: <u>97464711</u>
Sampler: <u>EC</u>	Date: <u>4-11-08</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth (TD): <u>41.62</u>	Depth to Water (DTW): <u>18.50</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>23.12</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: \_\_\_\_\_

$\frac{3.7 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = 11.1 \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <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 <u>(µS)</u> )	Turbidity (NTUs)	Gals. Removed	Observations
<u>1348</u>	<u>75.1</u>	<u>7.38</u>	<u>1639</u>	<u>94</u>	<u>3.7</u>	<u>cloudy</u>
<u>1351</u>	<u>74.3</u>	<u>7.41</u>	<u>1581</u>	<u>80</u>	<u>7.2</u>	
<u>1354</u>	<u>75.4</u>	<u>7.25</u>	<u>1579</u>	<u>84</u>	<u>11.1</u>	

Did well dewater? Yes  No  Gallons actually evacuated: 11.1

Sampling Date: 4-11-08 Sampling Time: 1359 Depth to Water: 22.56

Sample I.D.: MW-2 Laboratory: STL Other Cal Science

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE COC

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>080411-EC1</u>	Site: <u>97464711</u>
Sampler: <u>EC</u>	Date: <u>4-11-08</u>
Well I.D.: <u>MW-3</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth (TD): <u>43.91</u>	Depth to Water (DTW): <u>20.90</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>25.50</u>	

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

$\frac{3.7 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = 11.1 \text{ Gals. (Specified Volumes)} = 11.1 \text{ Gals. (Calculated Volume)}$	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <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
1303	73.2	7.51	1631	171	3.7	cloudy
1306	74.3	7.63	1590	158	7.4	
1309	73.9	7.61	1561	140	11.1	

Did well dewater? Yes  No  Gallons actually evacuated: 11.1

Sampling Date: 4-11-08 Sampling Time: 1314 Depth to Water: 24.12

Sample I.D.: MW-3 Laboratory: STL Other Cal Science

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE COC

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>080411-EC1</u>	Site: <u>97464711</u>
Sampler: <u>EC</u>	Date: <u>4-11-08</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth (TD): <u>43.29</u>	Depth to Water (DTW): <u>22.67</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>26.79</u>	

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

$3.3 \text{ (Gals.)} \times 3 = 9.9 \text{ Gals.}$ 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 <u>(µS)</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1150	69.3	7.83	1749	113	3.3	slightly cloudy
1153	70.1	7.46	1761	71	6.6	
1156	69.8	7.31	1763	12	9.9	

Did well dewater? Yes  (No)  Gallons actually evacuated: 9.9

Sampling Date: 4-11-08 Sampling Time: 1201 Depth to Water: 25.12

Sample I.D.: MW-4 Laboratory: STL Other Cal Science

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE COC

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>080411-EC1</u>	Site: <u>97464711</u>
Sampler: <u>EC</u>	Date: <u>4-11-08</u>
Well I.D.: <u>MW-5</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth (TD): <u>32.77</u>	Depth to Water (DTW): <u>22.38</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>24.46</u>	

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

$\frac{1.7 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = 5.1 \text{ Gals.}$ <p style="font-size: small; margin: 0;">Specified Volumes      Calculated Volume</p>	<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-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
<u>0930</u>	<u>69.3</u>	<u>7.07</u>	<u>3401</u>	<u>51</u>	<u>1.7</u>	<u>clear</u>
<u>0932</u>	<u>69.1</u>	<u>6.97</u>	<u>3318</u>	<u>64</u>	<u>3.4</u>	
<u>0934</u>	<u>69.8</u>	<u>7.02</u>	<u>3887</u>	<u>18</u>	<u>5.1</u>	

Did well dewater? Yes  No       Gallons actually evacuated: 5.1

Sampling Date: 4-11-08      Sampling Time: 0939      Depth to Water: 24.13

Sample I.D.: MW-5      Laboratory: STL      Other: Cal Science

Analyzed for: TPH-G BTEX MTBE TPH-D      Other: SEE COC

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>080411-EC1</u>	Site: <u>97464711</u>
Sampler: <u>EC</u>	Date: <u>4-11-08</u>
Well I.D.: <u>MW-6</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth (TD): <u>29.01</u>	Depth to Water (DTW): <u>23.10</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>24.28</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

<u>.9</u> (Gals.) X <u>3</u> = <u>2.7</u> Gals.	<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														
1 Case Volume	Specified Volumes      Calculated Volume																

Time	Temp (°F)	pH	Cond (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
<u>0915</u>	<u>75.0</u>	<u>7.18</u>	<u>2273</u>	<u>34</u>	<u>.9</u>	<u>clear</u>
<u>0917</u>	<u>74.7</u>	<u>7.07</u>	<u>2192</u>	<u>23</u>	<u>1.8</u>	
<u>0918</u>	<u>74.8</u>	<u>7.03</u>	<u>2256</u>	<u>11</u>	<u>2.7</u>	

Did well dewater? Yes  No  Gallons actually evacuated: 2.7

Sampling Date: 4-11-08 Sampling Time: 0923 Depth to Water: 22.91

Sample I.D.: MW-6 Laboratory: STL Other: Cal Science

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE COC

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>080411-EC1</u>	Site: <u>97464711</u>
Sampler: <u>EC</u>	Date: <u>4-11-08</u>
Well I.D.: <u>MW-7</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth (TD): <u>28.84</u>	Depth to Water (DTW): <u>21.83</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>23.23</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

$\frac{1.1 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = 3.3 \text{ Gals.}$ <p style="text-align: center;">Specified Volumes      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
0851	67.9	7.74	2405	71	1.1	clear
0852	68.3	7.32	2448	18	2.2	
0853	68.4	7.28	2443	7	3.3	

Did well dewater?    Yes     No      Gallons actually evacuated: 3.3

Sampling Date: 4-11-08    Sampling Time: 0858    Depth to Water: 22.11

Sample I.D.: MW-7      Laboratory: STL    Other: Cal Science

Analyzed for: TPH-G    BTEX    MTBE    TPH-D    Other: SEE COC

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

**APPENDIX C**

**FIELD PROCEDURES**

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**BLAINE**  
TECH SERVICES INC.

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GROUNDWATER SAMPLING SPECIALISTS  
SINCE 1985

May 6, 2008

Denis Brown  
Shell Oil Products US  
20945 South Wilmington Avenue  
Carson, CA 90810

Second Quarter 2008 Groundwater Monitoring at  
Shell-branded Service Station  
6750 Santa Rita Road  
Pleasanton, CA

Monitoring performed on April 11, 2008

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Groundwater Monitoring Report **080411-EC-1**

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

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

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

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,

Mike Ninokata  
Project Manager

MN/jb

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

cc: Rich Garlow  
Delta Environmental  
175 Bernal Road, Suite 200  
San Jose, CA 95119

# BLAINE TECH SERVICES, INC. METHODS AND PROCEDURES FOR THE ROUTINE MONITORING OF GROUNDWATER WELLS AT SHELL SITES

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. We specialize in groundwater monitoring assignments and intentionally limit the scope of our services to those centered on the generation of objective information.

To avoid conflicts of interest, Blaine Tech Services, Inc. personnel do not evaluate or interpret the information we collect. As a state licensed contractor (C-57 well drilling –water – 746684 ) performing strictly technical services, we do not make any professional recommendations and perform no consulting of any kind.

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## SAMPLING PROCEDURES OVERVIEW

### SAFETY

All groundwater monitoring assignments performed for Shell comply with Shell's safety guidelines, 29 CFR 1910.120 and SB-198 Injury and Illness Prevention Program (IIPP). All Field Technicians receive the full 40-hour 29CFR 1910.120 OSHA SARA HAZWOPER course, medical clearance and on-the-job training prior to commencing any work on any Shell site.

### INSPECTION AND GAUGING

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist.

Standard measurements include the depth to water (DTW) and the total well depth (TD) obtained with industry standard electronic water level indicators that are graduated in increments of hundredths of a foot.

The water in each well is inspected for the presence of immiscibles. When free product is suspected, its presence is confirmed using an electronic interface probe (e.g. MMC). No samples are collected from a well containing over two-hundredths of a foot (0.02') of product.

### EVACUATION

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and are set at no less than four case volumes in some jurisdictions.

Well purging devices are selected on the basis of the well diameter and the total volume to be evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well.

#### PARAMETER STABILIZATION

Well purging completion standards include minimum purge volumes, but additionally require stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature. Instrument readings are obtained at regular intervals during the evacuation process (no less than once per case volume).

Stabilization standards for routine quarterly monitoring of fuel sites include the following: Temperature is considered to have stabilized when successive readings do not fluctuate more than +/- 1 degree Celsius. Electrical conductivity is considered stable when successive readings are within 10%. pH is considered to be stable when successive readings remain constant or vary no more than 0.2 of a pH unit.

#### DEWATERED WELLS

Normal evacuation removes no less than three case volumes of water from the well. However, less water may be removed in cases where the well dewateres and does not immediately recharge.

#### MEASURING RECHARGE

Upon completion of well purging, a depth to water measurement is collected and notated to ensure that the well has recharged to within 80% of its static, pre-purge level prior to sampling.

Wells that do not immediately show 80% recharge or dewatered wells will be allowed a minimum of 2 hours to recharge prior to sampling. The water level at time of sampling will be noted.

#### PURGEWATER CONTAINMENT

All non-hazardous purgewater evacuated from each groundwater monitoring well is captured and contained in on-board storage tanks on the Sampling Vehicle and/or special water hauling trailers. Effluent from the decontamination of reusable apparatus (sounders, electric pumps and hoses etc.), consisting of groundwater combined with deionized water and non-phosphate soap, is also captured and pumped into effluent tanks.

Non-hazardous purgewater is transported under standard Bill of Lading documentation to a Blaine Tech Services, Inc. facility before being transported to a Shell approved disposal facility.

## SAMPLE COLLECTION DEVICES

All samples are collected using a stainless steel, Teflon or disposable bailers.

## SAMPLE CONTAINERS

Sample material is decanted directly from the sampling bailer into sample containers provided by the laboratory that will analyze the samples. The transfer of sample material from the bailer to the sample container conforms to specifications contained in the USEPA T.E.G.D. The type of sample container, material of construction, method of closure and filling requirements are specific to the intended analysis. Chemicals needed to preserve the sample material are commonly placed inside the sample containers by the laboratory or glassware vendor prior to delivery of the bottle to our personnel. The laboratory sets the number of replicate containers.

## TRIP BLANKS

Trip Blanks, if requested, are taken to the site and kept inside the sample cooler for the duration of the event. They are turned over to the laboratory for analysis with the samples from that site.

## DUPLICATES

Duplicates, if requested, may be collected at a site. The Field Technician uses their discretion in choosing the well at which the Duplicate is collected, typically one suspected of containing measurable contaminants. The Duplicate sample is labeled "DUP" and the time of collection is omitted from the COC, thus rendering the sample blind.

## SAMPLE STORAGE

All sample containers are promptly placed in food grade ice chests for storage in the field and transport (direct or via our facility) to the designated analytical laboratory. These ice chests contain quantities of restaurant grade ice as a refrigerant material. The samples are maintained in either an ice chest or a refrigerator until relinquished into the custody of the laboratory or laboratory courier.

## DOCUMENTATION CONVENTIONS

A label must be affixed to all sample containers. In most cases these labels are generated by our office personnel and are partially preprinted. Labels can also be hand written by our field personnel. The site is identified with the store number and site address, as is the particular groundwater well from which the sample is drawn (e.g. MW-1, MW-2, S-1 etc.). The time and date of sample collection along with the initials of the person who collects the sample are handwritten onto the label.

Chain of Custody records are created using client specific preprinted forms following USEPA specifications.

Bill of Lading records are contemporaneous records created in the field at the site where the non-hazardous purgewater is generated. Field Technicians use preprinted Bill of Lading forms.

## DECONTAMINATION

All equipment is brought to the site in clean and serviceable condition and is cleaned after use in each well and before subsequent use in any other well. Equipment is decontaminated before leaving the site.

The primary decontamination device is a commercial steam cleaner. The steam cleaner is de-tuned to function as a hot pressure washer that is then operated with high quality deionized water that is produced at our facility and stored onboard our sampling vehicle. Cleaning is facilitated by the use of proprietary fixtures and devices included in the patented workstation (U.S. Patent 5,535,775) that is incorporated in each sampling vehicle. The steam cleaner is used to decon reels, pumps and bailers.

Any sensitive equipment or parts (i.e. Dissolved Oxygen sensor membrane, water level indicator, etc.) that cannot be washed using the high pressure water, will be sprayed with a non-phosphate soap and deionized water solution and rinsed with deionized water.

## DISSOLVED OXYGEN READINGS

Dissolved Oxygen readings are taken pre- and/or post-purge using YSI meters (e.g. YSI Model 54, 58 or 95) or HACH field test kits.

The YSI meters are equipped with a stirring device that enables them to collect accurate in-situ readings. The probe/stirring devices are modified to allow downhole measurements to be taken from wells with diameters as small as two inches. The probe and reel is decontaminated between wells as described above. The meter is calibrated between wells as per the instructions in the operating manual. The probe and stirrer is lowered into the water column. The reading is allowed to stabilize prior to collection.

## OXYIDATON REDUCTION POTENTIAL READINGS

All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter GP). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual.

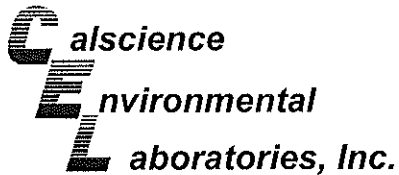
## FERROUS IRON MEASUREMENTS

All field measurements are collected at time of sampling with a HACH test kit.



**APPENDIX D**

**LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION**



April 28, 2008

Michael Ninokata  
Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Subject: **Calscience Work Order No.: 08-04-1192**  
Client Reference: **6750 Santa Rita Rd., Pleasanton, CA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/12/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

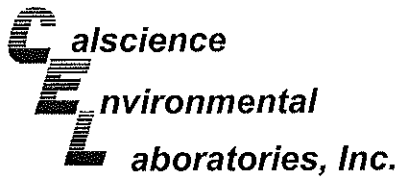
If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

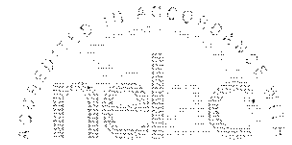
A handwritten signature in black ink, appearing to read "Jessie Kim".

Calscience Environmental  
Laboratories, Inc.  
Jessie Kim  
Project Manager

A handwritten signature in black ink, appearing to read "Jessie Kim".



Analytical Report



Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Date Received: 04/12/08  
Work Order No: 08-04-1192  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B  
Units: ug/L

Project: 6750 Santa Rita Rd., Pleasanton, CA

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	08-04-1192-1-A	04/11/08 11:15	Aqueous	GC/MS T	04/23/08	04/24/08 02:29	080423L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		p/m-Xylene	ND	1.0	1	
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	1.2	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	86	70-130			1,4-Bromofluorobenzene-TPPH	88	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	08-04-1192-2-B	04/11/08 13:59	Aqueous	GC/MS T	04/24/08	04/24/08 13:49	080424L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		p/m-Xylene	ND	1.0	1	
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	15	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	87	70-130			1,4-Bromofluorobenzene-TPPH	87	70-130		

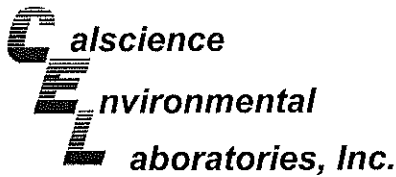
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	08-04-1192-3-A	04/11/08 13:14	Aqueous	GC/MS T	04/23/08	04/24/08 04:23	080423L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	120	100	2		p/m-Xylene	ND	2.0	2	
Benzene	ND	1.0	2		o-Xylene	ND	2.0	2	
Ethylbenzene	ND	2.0	2		Methyl-t-Butyl Ether (MTBE)	86	2.0	2	
Toluene	ND	2.0	2		Tert-Butyl Alcohol (TBA)	ND	20	2	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	86	70-130			1,4-Bromofluorobenzene-TPPH	87	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	08-04-1192-4-A	04/11/08 12:01	Aqueous	GC/MS T	04/23/08	04/24/08 04:51	080423L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	150	50	1		p/m-Xylene	ND	1.0	1	
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	150	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	86	70-130			1,4-Bromofluorobenzene-TPPH	87	70-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Date Received: 04/12/08  
Work Order No: 08-04-1192  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B  
Units: ug/L

Project: 6750 Santa Rita Rd., Pleasanton, CA

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>MW-5</b>	<b>08-04-1192-5-A</b>	<b>04/11/08 09:39</b>	<b>Aqueous</b>	<b>GC/MS T</b>	<b>04/23/08</b>	<b>04/24/08 05:20</b>	<b>080423L02</b>

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		p/m-Xylene	ND	1.0	1	
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	84	70-130			1,4-Bromofluorobenzene-TPPH	87	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>MW-6</b>	<b>08-04-1192-6-A</b>	<b>04/11/08 09:23</b>	<b>Aqueous</b>	<b>GC/MS T</b>	<b>04/23/08</b>	<b>04/24/08 05:48</b>	<b>080423L02</b>

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		p/m-Xylene	ND	1.0	1	
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	87	70-130			1,4-Bromofluorobenzene-TPPH	86	70-130		

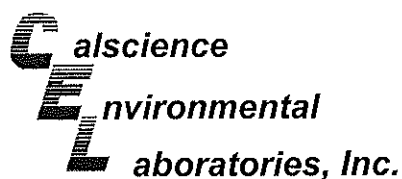
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>MW-7</b>	<b>08-04-1192-7-A</b>	<b>04/11/08 00:00</b>	<b>Aqueous</b>	<b>GC/MS T</b>	<b>04/23/08</b>	<b>04/24/08 06:17</b>	<b>080423L02</b>

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		p/m-Xylene	ND	1.0	1	
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	86	70-130			1,4-Bromofluorobenzene-TPPH	87	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>Method Blank</b>	<b>099-12-715-208</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC/MS T</b>	<b>04/23/08</b>	<b>04/24/08 02:00</b>	<b>080423L02</b>

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		p/m-Xylene	ND	1.0	1	
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	87	70-130			1,4-Bromofluorobenzene-TPPH	87	70-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report



Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Date Received: 04/12/08  
Work Order No: 08-04-1192  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B  
Units: ug/L

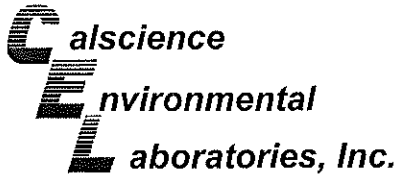
Project: 6750 Santa Rita Rd., Pleasanton, CA

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-715-211	N/A	Aqueous	GC/MS T	04/24/08	04/24/08 13:20	080424L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		p/m-Xylene	ND	1.0	1	
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	85	70-130			1,4-Bromofluorobenzene-TPPH	88	70-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112-1105

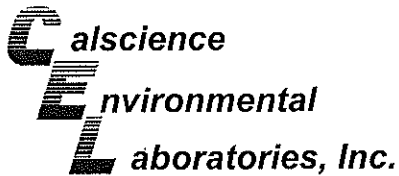
Date Received: 04/12/08  
Work Order No: 08-04-1192  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B

Project 6750 Santa Rita Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-1	Aqueous	GC/MS T	04/23/08	04/24/08	080423S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	90	87	70-130	3	0-30	
Ethylbenzene	100	95	70-130	5	0-30	
Toluene	94	91	70-130	3	0-30	
p/m-Xylene	101	89	70-130	13	0-30	
o-Xylene	101	93	70-130	8	0-30	
Methyl-t-Butyl Ether (MTBE)	104	100	70-130	4	0-30	
Tert-Butyl Alcohol (TBA)	101	101	70-130	0	0-30	
Diisopropyl Ether (DIPE)	85	82	70-130	3	0-30	
Ethyl-t-Butyl Ether (ETBE)	98	95	70-130	4	0-30	
Tert-Amyl-Methyl Ether (TAME)	98	95	70-130	4	0-30	
Ethanol	91	87	70-130	4	0-30	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112-1105

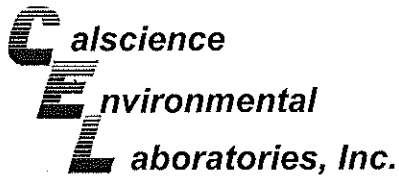
Date Received: 04/12/08  
Work Order No: 08-04-1192  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B

Project 6750 Santa Rita Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-2	Aqueous	GC/MS T	04/24/08	04/24/08	080424S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	86	85	70-130	1	0-30	
Ethylbenzene	99	97	70-130	2	0-30	
Toluene	92	92	70-130	0	0-30	
p/m-Xylene	101	98	70-130	3	0-30	
o-Xylene	100	99	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	95	98	70-130	2	0-30	
Tert-Butyl Alcohol (TBA)	100	99	70-130	1	0-30	
Diisopropyl Ether (DIPE)	80	79	70-130	1	0-30	
Ethyl-t-Butyl Ether (ETBE)	89	91	70-130	3	0-30	
Tert-Amyl-Methyl Ether (TAME)	89	90	70-130	2	0-30	
Ethanol	89	80	70-130	10	0-30	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate



Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Date Received: N/A  
Work Order No: 08-04-1192  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B

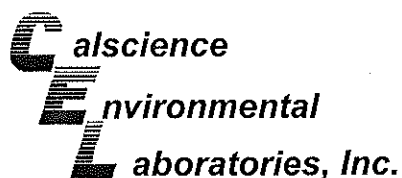
Project: 6750 Santa Rita Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-715-208	Aqueous	GC/MS T	04/23/08	04/24/08	080423L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPPH	90	87	65-135	3	0-30	
Benzene	87	88	70-130	0	0-30	
Ethylbenzene	98	99	70-130	2	0-30	
Toluene	92	94	70-130	2	0-30	
p/m-Xylene	100	102	70-130	1	0-30	
o-Xylene	99	101	70-130	2	0-30	
Methyl-t-Butyl Ether (MTBE)	95	97	70-130	2	0-30	
Tert-Butyl Alcohol (TBA)	89	89	70-130	1	0-30	
Diisopropyl Ether (DIPE)	83	83	70-130	0	0-30	
Ethyl-t-Butyl Ether (ETBE)	93	91	70-130	1	0-30	
Tert-Amyl-Methyl Ether (TAME)	88	88	70-130	0	0-30	
Ethanol	84	79	70-130	7	0-30	

RPD - Relative Percent Difference, CL - Control Limit





## Quality Control - LCS/LCS Duplicate



Blaine Tech Services, Inc.  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Date Received: N/A  
Work Order No: 08-04-1192  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B

Project: 6750 Santa Rita Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
.099-12-715-211	Aqueous	GC/MS T	04/24/08	04/24/08	080424L01

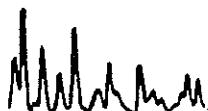
Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPPH	87	87	65-135	0	0-30	
Benzene	85	86	70-130	1	0-30	
Ethylbenzene	98	98	70-130	0	0-30	
Toluene	91	93	70-130	2	0-30	
p/m-Xylene	101	100	70-130	0	0-30	
o-Xylene	100	99	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	98	97	70-130	1	0-30	
Tert-Butyl Alcohol (TBA)	95	95	70-130	0	0-30	
Diisopropyl Ether (DIPE)	80	80	70-130	1	0-30	
Ethyl-t-Butyl Ether (ETBE)	91	93	70-130	2	0-30	
Tert-Amyl-Methyl Ether (TAME)	89	91	70-130	2	0-30	
Ethanol	83	78	70-130	6	0-30	

RPD - Relative Percent Difference, CL - Control Limit



Work Order Number: 08-04-1192

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.



LAB (LOCATION)

- CALSCEINCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



Shell Oil Products Chain Of Custody Record

**Please Check Appropriate Box:**

<input checked="" type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CN	<input type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

**Print Bill To Contact Name:** David Kremer  
**INCIDENT # (ENV SERVICES):** 9 7 4 6 4 7 1 1  
 DATE: 4-11-08  
 PAGE: 1 of 1

**SAMPLING COMPANY:** Blaine Tech Services  
**LOG CODE:** BTSS  
**ADDRESS:** 1680 Rogers Ave, San Jose, CA 95112  
**PROJECT CONTACT (Hardcopy or PDF Report to):** Michael Ninokata  
**TELEPHONE:** (408)573-0555  
**FAX:** (408)573-7771  
**E-MAIL:** mninokata@blainetech.com

**SITE ADDRESS: Street and City:** 6750 Santa Rita Rd., Pleasanton  
**State:** CA  
**GLOBAL ID NO.:** T0600102532

**EDF DELIVERABLE TO (Name, Company, Office Location):** Jon Suing, Delta, Monrovia Office  
**PHONE NO.:** 626.256.6662  
**E-MAIL:** jsuing@deltaenv.com  
**CONSULTANT PROJECT NO.:** BTS # 080411-EC1

**SAMPLER NAME(S) (Print):** Eli Charvarrie  
**LAB USE ONLY:** 04-1192

**TURNAROUND TIME (CALENDAR DAYS):**  
 STANDARD (14 DAY)     5 DAYS     3 DAYS     2 DAYS     24 HOURS     RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT     UST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES :**  
 CC Rich Garlow rgarlow@deltaenv.com with final report.  
 Run TPH-d w/Silica Gel Clean Up

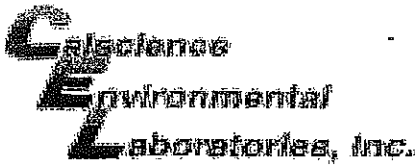
SHELL CONTRACT RATE APPLIES  
 STATE REIMBURSEMENT RATE APPLIES  
 EDD NOT NEEDED  
 RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	REQUESTED ANALYSIS											TEMPERATURE ON RECEIPT °C	Container PID Readings or Laboratory Notes		
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER		TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)			Ethanol (8260B)	Methanol (8015M)
1	MW-1	4-11-08	1115	W	X						3	X	X	X	X	X	X	X	X	X	X	X			
2	MW-2		1359									X	X	X	X	X	X	X	X	X	X	X			
3	MW-3		1314									X	X	X	X	X	X	X	X	X	X	X			
4	MW-4		1201									X	X	X	X	X	X	X	X	X	X	X			
5	MW-5		0939									X	X	X	X	X	X	X	X	X	X	X			
6	MW-6		0923									X	X	X	X	X	X	X	X	X	X	X			
7	MW-7											X	X	X	X	X	X	X	X	X	X	X			

Relinquished by: (Signature) <i>M. Elias Charvarrie</i>	Received by: (Signature) <i>Sample Custodian</i>	Date: 4-11-08	Time: 15:20
Relinquished by: (Signature) <i>MS (Sample Cust)</i>	Received by: (Signature) <i>[Signature]</i>	Date: 4/11/08	Time: 16:00
Relinquished by: (Signature) <i>[Signature] (tgs)</i>	Received by: (Signature) <i>[Signature]</i>	Date: 4/12/08	Time: 10:00

105528150

05/2006 Revision



WORK ORDER #: 08 - 04 - 1192

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: BLAIN TECH

DATE: 4-12-08

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
Chilled, cooler without temperature blank.
Chilled and placed in cooler with wet ice.
Ambient and placed in cooler with wet ice.
Ambient temperature.
C Temperature blank.

LABORATORY (Other than Calscience Courier):

- C Temperature blank.
3.1 C IR thermometer.
Ambient temperature.

Initial: TD

CUSTODY SEAL INTACT:

Sample(s): Cooler: No (Not Intact): Not Present: [check]

Initial: TD

SAMPLE CONDITION:

Table with 4 columns: Description, Yes, No, N/A. Rows include Chain-Of-Custody document(s), Sampler's name, Sample container label(s), Sample container(s) intact, Correct containers and volume, Proper preservation, VOA vial(s) free of headspace, Tedlar bag(s) free of condensation.

Initial: TD

COMMENTS:

Multiple horizontal lines for handwritten comments.