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June 15, 2004  
Project No. SJ67-50S-1.2004

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

Re: **Quarterly Monitoring Report – Second Quarter 2004**  
**Shell Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, California**

Dear Mr. Seery:

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

#### **QUARTERLY GROUND WATER MONITORING PROGRAM**

Groundwater monitoring wells were gauged and sampled by Blaine on April 6, 2004. Depth to groundwater was measured in Wells MW-1 through MW-4. Groundwater elevation data and contours are presented on Figure 2.

Groundwater samples were submitted by Blaine to Severn Trent Laboratories, Inc. in Pleasanton, California for analysis for total purgeable petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds); methyl tert-butyl ether (MTBE); and tert-butanol (TBA) using EPA Method 8260B. 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.

Alameda County  
JUN 18 2004  
Environmental Health

## REMEDIATION SUMMARY

Monthly batch extraction on Wells MW-2 and MW-3 was initiated during the third quarter 2003, and continued through the fourth quarter 2003. This remedial action was taken to address the presence of MTBE in groundwater. Delta/Shell did not continue monthly groundwater batch extractions during the first quarter 2004. On average, less than 40 gallons of water could be extracted from each well during a two-hour period. The final groundwater batch extraction event occurred on December 29, 2003. Over the course of six months, the MTBE concentration in Well MW-3 was lowered from a historic high of 15,000 micrograms per liter (ug/l) to 9,800 ug/l. However during the fourth quarter 2003, the MTBE concentrations in Wells MW-2 and MW-3 increased by approximately 1,000 ug/l.

Delta planned to initiate a short-term groundwater extraction event involving Wells MW-2 and MW-3 during the second quarter 2004 (emphasis will be on MW-3). The extraction event is currently scheduled to begin at the end of June. The duration of the extraction event will be approximately 14 days, and approximately 6,500 gallons of groundwater will be removed utilizing a submersible pump. A step-test and a constant-rate test will be conducted at the start of the event in order to determine an appropriate sustainable pumping rate. Extracted groundwater will be temporarily stored on-site in a Baker tank. The groundwater will be transported to the Shell refinery in Martinez, California for recycling following completion of the event. Delta considers that this method of bulk extraction will be more effective at reducing the mass of oxygenates beneath the site than a re-instatement of the former monthly batch extraction program.

## DISCUSSION

Depth to groundwater in Wells MW-2, MW-3, and MW-4 decreased by an average of 0.45 feet since last quarter, while the depth to groundwater in Well MW-1 increased by 2.22 feet. Previous site data has indicated that the groundwater flow direction varies from southeast to southwest. The groundwater gradient on April 6, 2004 was anomalous, toward the northeast at a magnitude of 0.015 feet/feet.

MTBE continues to be detected in all site wells, current concentrations range from 16 ug/l to 4,600 ug/l. The MTBE concentration in Well MW-1 has increased from 400 ug/l to a historic high of 3,300 ug/l. The MTBE concentration in Well MW-3 has decreased from 9,800 ug/l to 4,200 ug/l. TBA concentrations in Wells MW-1 and MW-2 have increased since last quarter from 280 ug/l to 3,500 ug/l and from 1,900 ug/l to 5,100 ug/l, respectively. The TBA concentration in Well MW-3 (2,100 ug/l) continues to decline. TBA has never been detected in Well MW-4. TPH-G and BTEX compounds remain below laboratory detection limits in all site wells.

In the third quarter 2004 Blaine will gauge and sample site wells and tabulate the data. Delta will prepare a third quarter 2004 monitoring, sampling, and remediation status report for submittal to the Alameda County Health Care Services Agency.

## REMARKS

The 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 report.

Sincerely,  
**Delta Environmental Consultants, Inc.**



Debbie Arnold  
Project Geologist



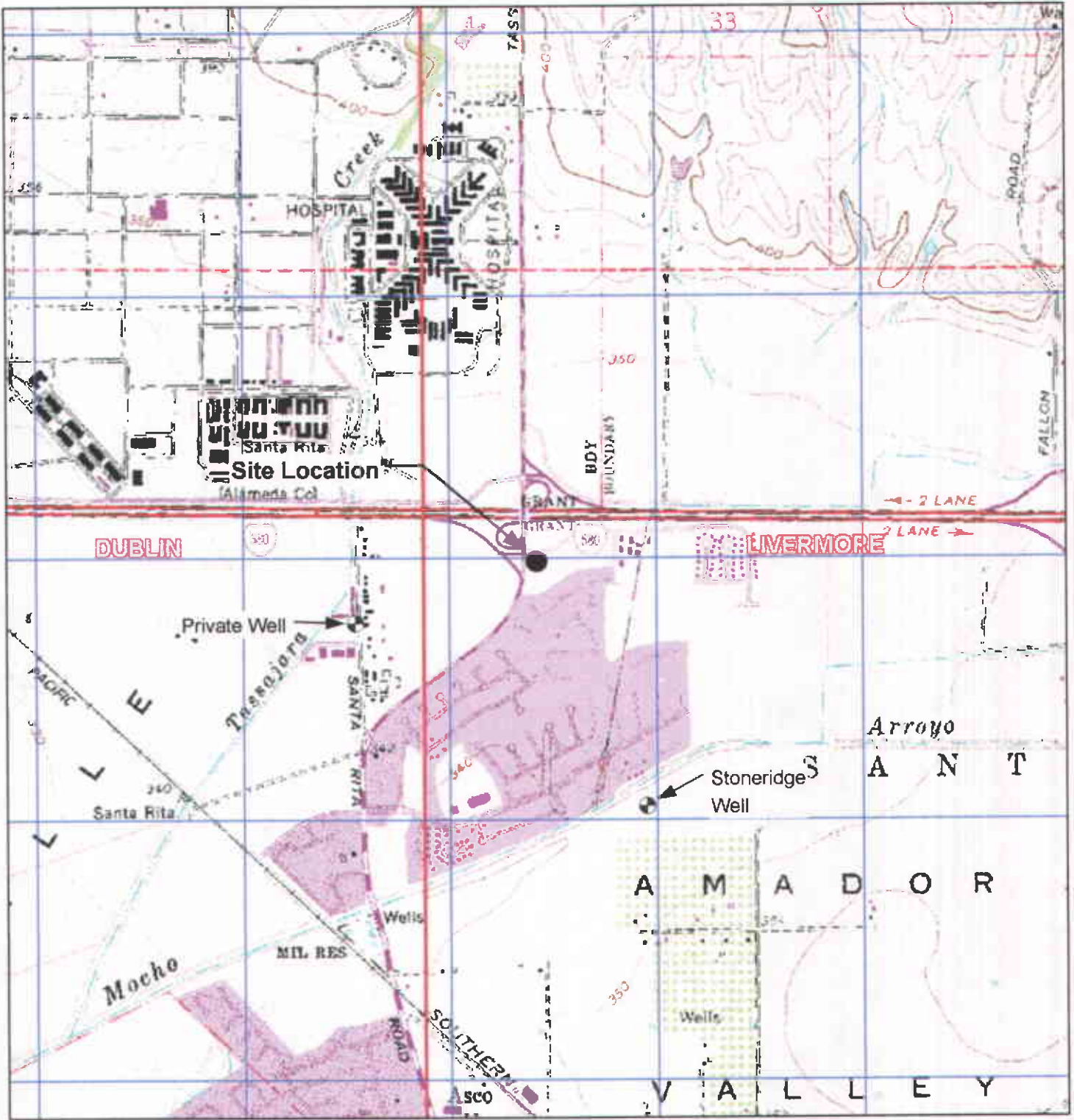
R. Lee Dooley  
Senior Hydrogeologist  
CHG 0183



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

Attachment A – Groundwater Monitoring and Sampling Report, May 7, 2004

cc: Karen Petryna, Shell Oil Products US, Carson  
Betty Graham, Regional Water Quality Control Board, San Francisco Bay Region



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



QUADRANGLE LOCATION

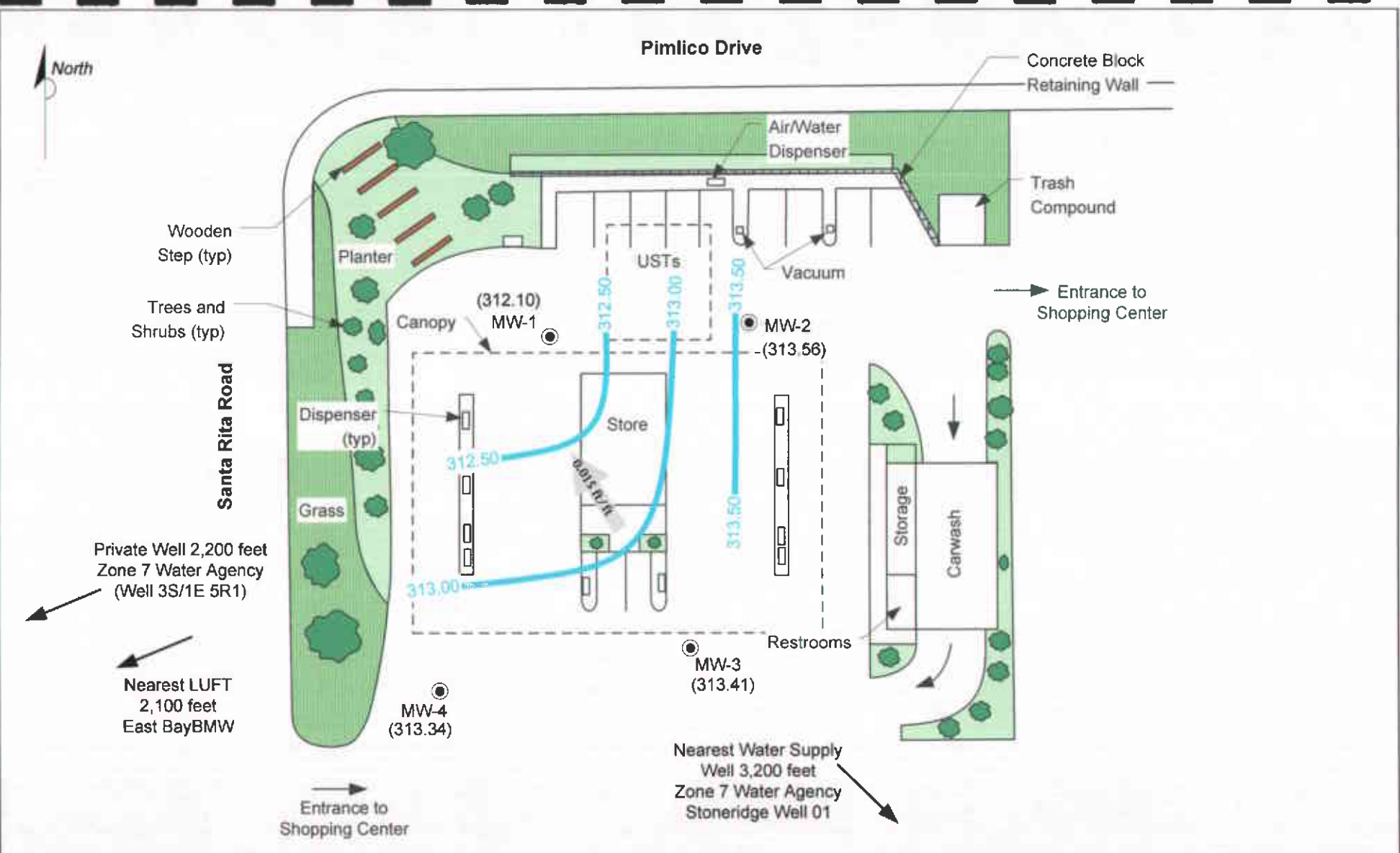


Scale, Feet

FIGURE 1  
 SITE LOCATION AND WELL SURVEY MAP  
 SHELL-BRANDED SERVICE STATION  
 6750 Santa Rita Road  
 Pleasanton, California

PROJECT NO. SJB7-505-1.2004	DRAWN BY VF 12/04/03
FILE NO. SJB7-505-1.2004	PREPARED BY VF
REVISION NO.	REVIEWED BY





Pimlico Drive



Concrete Block Retaining Wall

Wooden Step (typ)

Air/Water Dispenser

Trash Compound

Trees and Shrubs (typ)

Planter

USTs

Vacuum

Entrance to Shopping Center

Santa Rita Road

Canopy

(312.10) MW-1

MW-2 (313.56)

Dispenser (typ)

Store

Storage

Carwash

Private Well 2,200 feet Zone 7 Water Agency (Well 3S/1E 5R1)

312.50

313.00

313.50

Nearest LUFT 2,100 feet East BayBMW

Grass

MW-4 (313.34)

MW-3 (313.41)

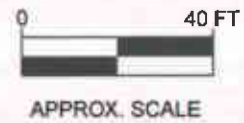
Restrooms

Nearest Water Supply Well 3,200 feet Zone 7 Water Agency Stoneridge Well 01

Entrance to Shopping Center

**LEGEND**

- MW-4 ● **GROUNDWATER MONITORING WELL**
- (312.09) **GROUNDWATER ELEVATION (FEET-MSL), 4/6/04**
- 312.25 — **GROUNDWATER ELEVATION CONTOUR**
- 0.01 ft/ft **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**

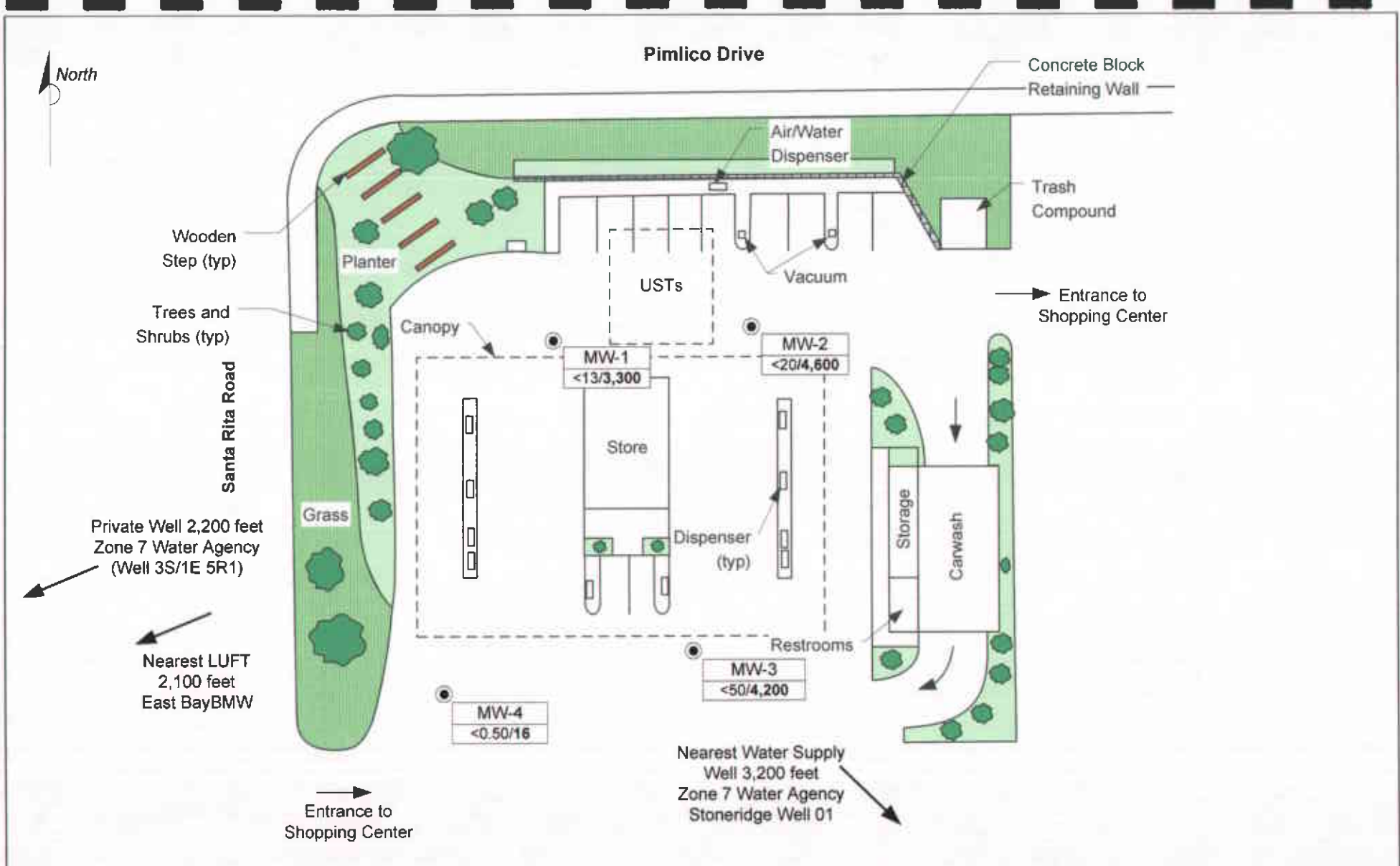


**FIGURE 2**  
GROUNDWATER ELEVATION CONTOUR MAP,  
APRIL 6, 2004

SHELL SERVICE STATION  
6750 Santa Rita Road  
Pleasanton, California

PROJECT NO. SJ67-50S-1.2004	DRAWN BY VF
FILE NO. SJ67-50S-1.2004	PREPARED BY VF
REVISION NO. 1	REVIEWED BY





Private Well 2,200 feet  
Zone 7 Water Agency  
(Well 3S/1E 5R1)

Nearest LUFT  
2,100 feet  
East BayBMW

Nearest Water Supply  
Well 3,200 feet  
Zone 7 Water Agency  
Stoneridge Well 01

**LEGEND**

MW-4 ● **GROUNDWATER MONITORING WELL**

MW-4	<b>WELL ID</b>
<0.50/75	<b>BENZENE/MTBE CONCENTRATIONS</b>
	<b>(UG/L), 4/8/04</b>



APPROX. SCALE

**FIGURE 3**  
**BENZENE AND MTBE CONCENTRATIONS MAP,**  
**APRIL 6, 2004**

**SHELL SERVICE STATION**  
6750 Santa Rita Road  
Pleasanton, California

PROJECT NO. SJ67-50S-1.2004	DRAWN BY VF
FILE NO. SJ67-50S-1.2004	PREPARED BY VF
REVISION NO. 1	REVIEWED BY



**Attachment A**

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**GROUNDWATER MONITORING AND SAMPLING REPORT**



**BLAINE**  
TECH SERVICES, INC.



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

May 7, 2004

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

Second Quarter 2004 Groundwater Monitoring at  
Shell-branded Service Station  
6750 Santa Rita Road  
Pleasanton, CA

Monitoring performed on April 6, 2004

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Groundwater Monitoring Report **040604-PC-2**

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

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

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

independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Leon Gearhart  
Project Coordinator

LG/ks

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

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

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**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	ETBE	TAME	TBA	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-1	12/04/2002	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	31.93	NA
MW-1	03/28/2003	<50	70	<0.50	<0.50	<0.50	<1.0	130	<2.0	<2.0	<2.0	43	343.48	31.59	311.89
MW-1	05/09/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	280	<10	<10	<10	200	343.48	31.10	312.38
MW-1	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.65	311.83
MW-1	07/08/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	160	<10	<10	<10	170	343.48	30.90	312.58
MW-1	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.53	311.95
MW-1	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.95	313.53
MW-1	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.99	313.49
MW-1	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	30.02	313.46
MW-1	10/03/2003	<500	NA	<5.0	<5.0	<5.0	<10	810	<20	<20	<20	540	343.48	29.89	313.59
MW-1	10/28/2003	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	343.48	29.71	313.77
MW-1	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.72	313.76
MW-1	01/06/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	400	<10	<10	<10	280	343.48	29.16	314.32
<b>MW-1</b>	<b>04/06/2004</b>	<b>&lt;1,300</b>	<b>NA</b>	<b>&lt;13</b>	<b>&lt;13</b>	<b>&lt;13</b>	<b>&lt;25</b>	<b>3,300</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>3,500</b>	<b>343.48</b>	<b>31.38</b>	<b>312.10</b>

MW-2	12/04/2002	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	30.70	NA
MW-2	03/28/2003	<2,500	60	<25	<25	<25	<50	4,200	<100	<100	<100	2,500	342.86	30.30	312.56
MW-2	05/09/2003	<2,500	NA	<25	<25	<25	<50	4,000	<100	<100	<100	3,200	342.86	29.83	313.03
MW-2	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.45	312.41
MW-2	07/08/2003	<2,000	NA	<20	<20	<20	<40	2,800	<80	<80	<80	2,900	342.86	29.86	313.00
MW-2	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.33	312.53
MW-2	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.33	313.53
MW-2	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.98	312.88

**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	ETBE	TAME	TBA	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-2	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.21	312.65
MW-2	10/03/2003	<2,000	NA	<20	<20	<20	<40	3,600	<80	<80	<80	3,000	342.86	30.43	312.43
MW-2	10/28/2003	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	342.86	30.00	312.86
MW-2	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.14	312.72
MW-2	01/06/2004	<5,000	NA	<50	<50	<50	<100	4,500	<200	<200	<200	1,900	342.86	30.05	312.81
<b>MW-2</b>	<b>04/06/2004</b>	<b>&lt;2,000</b>	<b>NA</b>	<b>&lt;20</b>	<b>&lt;20</b>	<b>&lt;20</b>	<b>&lt;40</b>	<b>4,600</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>5,100</b>	<b>342.86</b>	<b>29.30</b>	<b>313.56</b>
MW-3	12/04/2002	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	31.10	NA
MW-3	03/28/2003	<5,000	89	<50	<50	<50	<100	10,000	<200	<200	<200	6,100	342.23	30.76	311.47
MW-3	05/09/2003	11,000	NA	<100	<100	<100	<200	15,000	<400	<400	<400	9,300	342.23	30.04	312.19
MW-3	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	30.23	312.00
MW-3	07/08/2003	<10,000	NA	<100	<100	<100	<200	9,500	<400	<400	<400	2,500	342.23	30.11	312.12
MW-3	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.80	312.43
MW-3	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.94	312.29
MW-3	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	30.05	312.18
MW-3	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.95	312.28
MW-3	10/03/2003	<10,000	NA	<100	<100	<100	<200	8,800	<400	<400	<400	6,600	342.23	29.97	312.26
MW-3	10/28/2003	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	342.23	29.94	312.29
MW-3	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.43	312.80
MW-3	01/06/2004	<5,000	NA	<50	<50	<50	<100	9,800	<200	<200	<200	3,800	342.23	29.25	312.98
<b>MW-3</b>	<b>04/06/2004</b>	<b>&lt;5,000</b>	<b>NA</b>	<b>&lt;50</b>	<b>&lt;50</b>	<b>&lt;50</b>	<b>&lt;100</b>	<b>4,200</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>2,100</b>	<b>342.23</b>	<b>28.82</b>	<b>313.41</b>
MW-4	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.92	NA

**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	ETBE	TAME	TBA	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-4	12/22/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	93	<2.0	<2.0	<2.0	<50	NA	32.20	NA
MW-4	03/28/2003	<50	67	<0.50	<0.50	<0.50	<1.0	2.4	<2.0	<2.0	<2.0	<5.0	343.44	32.07	311.37
MW-4	05/09/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	75	<2.0	<2.0	<2.0	<5.0	343.44	31.35	312.09
MW-4	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.42	312.02
MW-4	07/08/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	18	<2.0	<2.0	<2.0	<5.0	343.44	31.42	312.02
MW-4	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.20	312.24
MW-4	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.05	312.39
MW-4	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.20	312.24
MW-4	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.15	312.29
MW-4	10/03/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	23	<2.0	<2.0	<2.0	<5.0	343.44	31.10	312.34
MW-4	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.14	312.30
MW-4	11/24/2003	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	343.44	30.82	312.62
MW-4	01/06/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	40	<2.0	<2.0	<2.0	<5.0	343.44	30.24	313.20
MW-4	04/06/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	16	NA	NA	NA	<5.0	343.44	30.10	313.34

**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	ETBE	TAME	TBA	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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**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
- ETBE = Ethyl tert-butyl ether
- TAME = Tert-amyl methyl ether
- TBA = Tert-Butanol
- TOC = Top of Casing Elevation
- GW = Groundwater
- ug/L = Parts per billion
- MSL = Mean sea level
- ft = Feet
- <n = Below detection limit
- NA = Not applicable

**Notes:**

Site surveyed November 22, 2002, by Mid Coast Engineers.

**Blaine Tech Services, Inc.**

April 21, 2004

1680 Rogers Avenue  
San Jose, CA 95112-1105  
Attn.: Leon Gearhart  
Project#: 040406-PC2  
Project: 97464711  
Site: 6750 Santa Rita, Rd., Pleasanton

Dear Mr. Gearhart,


Attached is our report for your samples received on 04/07/2004 13:46  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
05/22/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.

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

Sincerely,



Vincent Vancil  
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: 040406-PC2

97464711

Received: 04/07/2004 13:46

Site: 6750 Santa Rita, Rd., Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-1	04/06/2004 14:15	Water	1
MW-2	04/06/2004 14:38	Water	2
MW-3	04/06/2004 15:05	Water	3
MW-4	04/06/2004 13:55	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

04/20/2004 14:36



**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: 040406-PC2  
97464711

Received: 04/07/2004 13:46

Site: 6750 Santa Rita, Rd., Pleasanton

Prep(s): 5030B Test(s): 8260B  
Sample ID: MW-1 Lab ID: 2004-04-0270 - 1  
Sampled: 04/06/2004 14:15 Extracted: 4/16/2004 10:42  
Matrix: Water QC Batch#: 2004/04/16-1A.65  
Analysis Flag: o ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1300	ug/L	25.00	04/16/2004 10:42	
Benzene	ND	13	ug/L	25.00	04/16/2004 10:42	
Toluene	ND	13	ug/L	25.00	04/16/2004 10:42	
Ethylbenzene	ND	13	ug/L	25.00	04/16/2004 10:42	
Total xylenes	ND	25	ug/L	25.00	04/16/2004 10:42	
tert-Butyl alcohol (TBA)	3500	130	ug/L	25.00	04/16/2004 10:42	
Methyl tert-butyl ether (MTBE)	3300	13	ug/L	25.00	04/16/2004 10:42	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	106.6	76-130	%	25.00	04/16/2004 10:42	
Toluene-d8	93.3	78-115	%	25.00	04/16/2004 10:42	

**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: 040406-PC2  
97464711

Received: 04/07/2004 13:46

Site: 6750 Santa Rita, Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-2	Lab ID: 2004-04-0270 - 2
Sampled: 04/06/2004 14:38	Extracted: 4/17/2004 18:02
Matrix: Water	QC Batch#: 2004/04/17-1A.65
Analysis Flag: o ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	2000	ug/L	40.00	04/17/2004 18:02	
Benzene	ND	20	ug/L	40.00	04/17/2004 18:02	
Toluene	ND	20	ug/L	40.00	04/17/2004 18:02	
Ethylbenzene	ND	20	ug/L	40.00	04/17/2004 18:02	
Total xylenes	ND	40	ug/L	40.00	04/17/2004 18:02	
tert-Butyl alcohol (TBA)	5100	200	ug/L	40.00	04/17/2004 18:02	
Methyl tert-butyl ether (MTBE)	4600	20	ug/L	40.00	04/17/2004 18:02	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	117.6	76-130	%	40.00	04/17/2004 18:02	
Toluene-d8	96.8	78-115	%	40.00	04/17/2004 18:02	

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 040406-PC2  
97464711

Received: 04/07/2004 13:46

Site: 6750 Santa Rita, Rd., Pleasanton

Prep(s): 5030B Test(s): 8260B  
Sample ID: MW-3 Lab ID: 2004-04-0270 - 3  
Sampled: 04/06/2004 15:05 Extracted: 4/16/2004 11:31  
Matrix: Water QC Batch#: 2004/04/16-1A.65  
Analysis Flag: o ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	5000	ug/L	100.00	04/16/2004 11:31	
Benzene	ND	50	ug/L	100.00	04/16/2004 11:31	
Toluene	ND	50	ug/L	100.00	04/16/2004 11:31	
Ethylbenzene	ND	50	ug/L	100.00	04/16/2004 11:31	
Total xylenes	ND	100	ug/L	100.00	04/16/2004 11:31	
tert-Butyl alcohol (TBA)	2100	500	ug/L	100.00	04/16/2004 11:31	
Methyl tert-butyl ether (MTBE)	4200	50	ug/L	100.00	04/16/2004 11:31	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	101.8	76-130	%	100.00	04/16/2004 11:31	
Toluene-d8	94.3	78-115	%	100.00	04/16/2004 11:31	

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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San Jose, CA 95112-1105

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

Project: 040406-PC2

97464711

Received: 04/07/2004 13:46

Site: 6750 Santa Rita, Rd., Pleasanton

Prep(s): 5030B Test(s): 8260B  
 Sample ID: MW-4 Lab ID: 2004-04-0270 - 4  
 Sampled: 04/06/2004 13:55 Extracted: 4/16/2004 11:55  
 Matrix: Water QC Batch#: 2004/04/16-1A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/16/2004 11:55	
Benzene	ND	0.50	ug/L	1.00	04/16/2004 11:55	
Toluene	ND	0.50	ug/L	1.00	04/16/2004 11:55	
Ethylbenzene	ND	0.50	ug/L	1.00	04/16/2004 11:55	
Total xylenes	ND	1.0	ug/L	1.00	04/16/2004 11:55	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	04/16/2004 11:55	
Methyl tert-butyl ether (MTBE)	16	0.50	ug/L	1.00	04/16/2004 11:55	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	98.9	76-130	%	1.00	04/16/2004 11:55	
Toluene-d8	93.9	78-115	%	1.00	04/16/2004 11:55	

**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: 040406-PC2

97464711

Received: 04/07/2004 13:46

Site: 6750 Santa Rita, Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2004/04/16-1A.65-000

Water

Test(s): 8260B

QC Batch # 2004/04/16-1A.65

Date Extracted: 04/16/2004 09:00

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/16/2004 09:00	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	04/16/2004 09:00	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/16/2004 09:00	
Benzene	ND	0.5	ug/L	04/16/2004 09:00	
Toluene	ND	0.5	ug/L	04/16/2004 09:00	
Ethylbenzene	ND	0.5	ug/L	04/16/2004 09:00	
Total xylenes	ND	1.0	ug/L	04/16/2004 09:00	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	107.6	76-130	%	04/16/2004 09:00	
Toluene-d8	101.6	78-115	%	04/16/2004 09:00	

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 040406-PC2  
97464711

Received: 04/07/2004 13:46

Site: 6750 Santa Rita, Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B  
Method Blank  
MB: 2004/04/17-1A.65-016

Water

Test(s): 8260B  
QC Batch # 2004/04/17-1A.65  
Date Extracted: 04/17/2004 09:16

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/17/2004 09:16	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	04/17/2004 09:16	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/17/2004 09:16	
Benzene	ND	0.5	ug/L	04/17/2004 09:16	
Toluene	ND	0.5	ug/L	04/17/2004 09:16	
Ethylbenzene	ND	0.5	ug/L	04/17/2004 09:16	
Total xylenes	ND	1.0	ug/L	04/17/2004 09:16	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	85.9	76-130	%	04/17/2004 09:16	
Toluene-d8	94.0	78-115	%	04/17/2004 09:16	

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

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

Project: 040406-PC2

97464711

Received: 04/07/2004 13:46

Site: 6750 Santa Rita, Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2004/04/16-1A.65**

LCS 2004/04/16-1A.65-012

Extracted: 04/16/2004

Analyzed: 04/16/2004 08:12

LCSD 2004/04/16-1A.65-036

Extracted: 04/16/2004

Analyzed: 04/16/2004 08:36

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	19.3	20.8	25	77.2	83.2	7.5	65-165	20		
Benzene	25.0	24.0	25	100.0	96.0	4.1	69-129	20		
Toluene	22.0	23.2	25	88.0	92.8	5.3	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	431	439	500	86.2	87.8		76-130			
Toluene-d8	472	511	500	94.4	102.2		78-115			

Severn Trent Laboratories, Inc.

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04/20/2004 14:36

**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: 040406-PC2  
97464711

Received: 04/07/2004 13:46

Site: 6750 Santa Rita, Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2004/04/17-1A.65**

LCS 2004/04/17-1A.65-029

Extracted: 04/17/2004

Analyzed: 04/17/2004 08:29

LCSD 2004/04/17-1A.65-052

Extracted: 04/17/2004

Analyzed: 04/17/2004 08:52

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	25.5	22.1	25	102.0	88.4	14.3	65-165	20		
Benzene	23.4	22.4	25	93.6	89.6	4.4	69-129	20		
Toluene	22.9	23.4	25	91.6	93.6	2.2	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	427	407	500	85.4	81.4		76-130			
Toluene-d8	475	501	500	95.0	100.2		78-115			

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04/20/2004 14:36



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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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San Jose, CA 95112-1105

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

Project: 040406-PC2

97464711

Received: 04/07/2004 13:46

Site: 6750 Santa Rita, Rd., Pleasanton

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**Legend and Notes**

---

**Analysis Flag**

o

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

Severn Trent Laboratories, Inc.

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

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

04/20/2004 14:36

LAB: STL

# SHELL Chain Of Custody Record

84596

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

Shell Project Manager to be Invoiced:  
 SCIENCE & ENGINEERING  
 TECHNICAL SERVICES  
 CRIME HOUSTON  
**Karen Petryna**  
**2004-04-0270**

INCIDENT NUMBER (S&E ONLY)  
 9 7 4 6 4 7 1 1  
 DATE: 4/6/04  
 PAGE: 1 of 1  
 SAP or CRMT NUMBER (TS/CRMT):

LAB USE ONLY  
**Blaine Tech Services**      **BTSS**  
**1680 Rogers Avenue, San Jose, CA 95112**  
**Leon Georhart**  
 408-573-0555      408-573-7771      leorhart@blainetech.com  
 P-Lornish

SITE ADDRESS (Street and City):  
**6750 Santa Rita Rd., Pleasanton**  
 pending

EDW DELIVERABLE TO (Responsible Party or Designee):  
**Garrett Haertel**      (408)224-4724      ghaertel@deltaenv.com

LAB USE ONLY  
 REQUESTED ANALYSIS

TURNAROUND TIME (BUSINESS DAYS)  
 10 DAYS     5 DAYS     22 HOURS     48 HOURS     24 HOURS     LESS THAN 24 HOURS

LA - RWYOB REPORT FORMAT     UST AGENCY

SCMS LTRB CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

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

FIELD NOTES:  
 Container/Preservative  
 or PID Readings  
 or Laboratory Notes  
**3.0**

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - Spbb RL)	MFB (8260B - 0.5ppb RL)	Oxygenates (9) by (8240B)	TPH - Diesel, Extractable	TBA x 5260	TEMPERATURE ON RECEIPT C°
		DATE	TIME										
	MU-1	4/6/04	1415	U	3	X	X	X				X	
	MU-2		1438	↓	3	X	X	X				X	
	MU-3		1505	↓	3	X	X	X				X	
	MU-4		1355	↓	3	X	X	X				X	

Prepared by (Signature): not in      Received by (Signature): Charles 1089      Date: 4/7/04      Time: 1346

Prepared by (Signature): Charles 1089      Received by (Signature): [Signature]      Date: 04/07/04      Time: 1510

# WELLHEAD INSPECTION CHECKLIST

Page 1 of 1

ent Well Date 4/6/04

Address 6750 Santa Rita Rd., Pleasanton

Number 040604-P02 Technician P. Lomish

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-1	K							
MW-2	K	X						
MW-3	K							
MW-4	X							

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

## WELL GAUGING DATA

Project # 040406-PC2 Date 4/06/04 Client shell

Site 6750 Santa Rita 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 TOO
MW-1	2					31.38	41.75	↓
MW-2	2	Gauged w/ stringer in well				29.30	41.90	
MW-3	2					28.82	44.08	
MW-4	2					30.10	43.98	

## SHELL WELL MONITORING DATA SHEET

TS #: <u>1240406-PC2</u>	Site: <u>6750 Santa Rita Rd., Pleasanton</u>
Sampler: <u>PC</u>	Date: <u>4/6/04</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): <u>41.75</u>	Depth to Water (DTW): <u>31.38</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>33.45</u>	

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

1.7 (Gals.) X 3 Specified Volumes = 5.1 Gals. Calculated Volume  
 Case Volume                      Specified Volumes                      Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <del>µS</del> )	Turbidity (NTUs)	Gals. Removed	Observations
<u>1358</u>	<u>64.4</u>	<u>7.4</u>	<u>2551</u>	<u>71000</u>	<u>1.7</u>	<u>cloudy</u>
<u>1403</u>	<u>65.2</u>	<u>7.8</u>	<u>2505</u>	<u>784</u>	<u>2.4</u>	↓
<u>1409</u>	<u>65.0</u>	<u>7.5</u>	<u>2514</u>	<u>752</u>	<u>5.1</u>	

Did well dewater?    Yes        Gallons actually evacuated: 5.1

Sampling Date: 4/6/04      Sampling Time: 1415      Depth to Water: 34.36

Sample I.D.: MW-1      Laboratory:  Other \_\_\_\_\_

Analyzed for:  TPH-G     BTEX     MTBE     TPH-D    Other: \_\_\_\_\_

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

Analyzed for:  TPH-G     BTEX     MTBE     TPH-D    Other: \_\_\_\_\_

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

## SHELL WELL MONITORING DATA SHEET

TS #: <u>040406-PCZ</u>	Site: <u>6750 Santa Rita Rd., Pleasanton</u>
Sampler: <u>PC</u>	Date: <u>4/6/04</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): <u>41.90</u>	Depth to Water (DTW): <u>29.30</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVP</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>31.82</u>	

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

$\frac{2}{\text{Case Volume}} \times \frac{3}{\text{Specified Volumes}} = \frac{6}{\text{Calculated Volume}} \text{ Gals.}$	<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														

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1420	64.3	7.3	2577	>1000	2	cloudy
1425	66.0	7.1	2844	>1000	4	↓
1429	66.5	7.1	2883	>1000	6	

Did well dewater? Yes  No  Gallons actually evacuated: 6

Sampling Date: 4/6/04      Sampling Time: 1438      Depth to Water: 31.75

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

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

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

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

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

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

## SHELL WELL MONITORING DATA SHEET

BTS #: <u>040406-PC2</u>	Site: <u>6750 Santa Rita Rd., Pleasanton</u>
Sampler: <u>PC</u>	Date: <u>4/6/04</u>
Well I.D.: <u>MW-3</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth (TD): <u>44.08</u>	Depth to Water (DTW): <u>28.82</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>FVD</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>31.87</u>	

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

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

<u>2.4</u> (Gals.) X <u>3</u> = <u>7.2</u> Gals.	
Case Volume	Specified Volumes      Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
<u>1446</u>	<u>66.9</u>	<u>7.2</u>	<u>4738</u>	<u>&gt;1000</u>	<u>2.4</u>	<u>brown.</u>
<u>1450</u>	<u>67.5</u>	<u>7.2</u>	<u>4692</u>	<u>&gt;1000</u>	<u>4.8</u>	↓
<u>1455</u>	<u>67.3</u>	<u>7.2</u>	<u>4521</u>	<u>&gt;1000</u>	<u>7.2</u>	

Did well dewater?    Yes     No      Gallons actually evacuated: 7.2

Sampling Date: 4/6/04      Sampling Time: 1505      Depth to Water: 31.80

Sample I.D.: MW-3      Laboratory:  Other \_\_\_\_\_

Analyzed for: ~~TPH-G~~ ~~BTEX~~ ~~MTBE~~ TPH-D    Other: \_\_\_\_\_

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

Analyzed for: TPH-G BTEX MTBE TPH-D    Other: \_\_\_\_\_

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

## SHELL WELL MONITORING DATA SHEET

TS #: <u>040406-PC2</u>	Site: <u>6750 Santa Rita Rd., Pleasanton</u>
Sampler: <u>PC</u>	Date: <u>4/6/04</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): <u>43.98</u>	Depth to Water (DTW): <u>30.10</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVP</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>32.88</u>	

Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible	Water: <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: _____
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$\frac{2.2 \text{ (Gals.)} \times 3}{\text{Specified Volumes}} = \frac{6.6}{\text{Calculated Volume}} \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <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
1335	66.6	7.3	2569	>1000	2.2	brown
1340	66.1	7.4	2578	>1000	4.4	↓
1344	66.5	7.4	2554	>1000	6.6	

Did well dewater? Yes  No  Gallons actually evacuated: 6.6

Sampling Date: 4/6/04 Sampling Time: 1355 Depth to Water: 32.85

Sample I.D.: MW-4 Laboratory:  STP Other: \_\_\_\_\_

Analyzed for:  TPH-G  BTEX  MTBE  TPH-D Other: \_\_\_\_\_

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

Analyzed for:  TPH-G  BTEX  MTBE  TPH-D Other: \_\_\_\_\_

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