

R02882



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

October 4, 2005  
Project Number: SJ18-01S-G.2005

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

Alameda County  
OCT 07 2005  
Environmental Health

**Re: Annual Groundwater Monitoring Report – Second Quarter 2005  
Shell Service Station  
1801 Santa Rita Road  
Pleasanton, California**

Dear Mr. Wickham:

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

**BACKGROUND**

Wells MW-1 through MW-4 were installed during October 2002 as part of Shell's Groundwater Assessment Program (GRASP). GRASP is a voluntary initiative by SHELL to install groundwater monitoring wells at numerous retail service stations nationwide that do not have any active release cases but have been identified to be in close proximity to one or more public water supply wells. The purpose of this program is to proactively monitor the groundwater beneath these sites and, in the event of a subsurface release, to respond quickly to protect public wells from this impact.

An Unauthorized Release Report (URR) was previously submitted for this site in November 2002 based on detections of Total Petroleum Hydrocarbons as gasoline (TPH-G) (maximum concentration = 170 milligrams per kilogram (mg/kg)) and benzene (maximum concentration = 2 mg/kg) in soil during site fuel dispenser and piping upgrades.



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**Letter of Transmittal**

To: Alameda County Health Care Services Agency Date: 10/4/2005  
 Environmental Health Service - Environmental Protection  
 1131 Harbor Bay Parkway, Suite 250 Job No: SJ18-01S-G.2005  
 Alameda, California 94502-6577  
 Attn: Jerry Wickham

We are sending the following items:

Date	Copies	Description
4-Oct-05	1	Annual Groundwater Monitoring Report - Second Quarter Shell Service Station 1801 Santa Rita Road Pleasanton, CA

These are transmitted:

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

**Remarks**

Copies to: \_\_\_\_\_ By: Heather Buckingham  
 \_\_\_\_\_  
 \_\_\_\_\_ Title: Senior Staff Geologist

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

Alameda County  
 Environmental Health  
 OCT 07 2005



On April 19, 2005, a hydraulic hoist located within the station building service bay was removed and Delta collected a soil sample beneath the former hoist at a depth of 8.5 feet below grade (bg). A second URR was submitted for the site based on detections of petroleum based total oil and grease (7,900 mg/kg) and total petroleum hydrocarbons as diesel (TPH-D, 18,000 mg/kg) in May 2005.

Shell recently received a notice of responsibility letter dated August 17, 2005 from the Alameda County Health Care Services Agency (ACHCSA) placing the site in the Local Oversight Program.

### **GROUNDWATER MONITORING PROGRAM**

Groundwater monitoring wells were gauged and sampled by Blaine Tech Services (Blaine), at the direction of Delta, on April 14, 2005. 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 collected from Wells MW-1 through MW-4. Samples were submitted by Blaine to Severn Trent Laboratories (STL) in Pleasanton, California for analysis for TPH-G; TPH-D; benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds); the fuel oxygenates methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), and tertiary butyl alcohol (TBA) using EPA Method 8260B. TPH-G, benzene, and MTBE concentrations in groundwater are presented on Figure 3.

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

### **Discussion**

Depth to groundwater in site wells has decreased by an average of 10.49 feet since the last annual groundwater monitoring event conducted in June 2004. Depth to groundwater has continually decreased since well installation in 2002, resulting in a total water table rise of approximately 30 feet at the site. Well screens in Wells MW-1 through MW-4 (77 to 97 feet bg) are now drowned. The horizontal groundwater gradient on April 14, 2005 was toward the west-southwest at a magnitude of less than 0.01 feet/feet (essentially flat), consistent with previous site data.

TPH-D, detected only in Well MW-2, decreased from 90 micrograms per liter (ug/l) during the previous monitoring event to 77 ug/l during this event. TPH-D in Well MW-2 continues to not match the laboratory's standard chromatographic pattern for diesel. All other analytes remained below the laboratory reporting limit in Wells MW-1 through MW-4.

### **Recommendations**

Per Shell's GRASP protocol, site wells were not purged prior to groundwater sampling. Delta proposes to perform an additional groundwater monitoring and sampling event during the fourth quarter 2005 to implement and obtain post-purge sampling data. Based on the results of the fourth quarter 2005 quarterly monitoring report, Delta will evaluate the need to increase the groundwater monitoring frequency.

Delta will prepare a comprehensive site conceptual model (SCM) spreadsheet for submittal to the Alameda County Health Care Services Agency (ACHCSA). The SCM, in electronic report format, will include recommendations for possible additional soil and groundwater investigation activities at the site in order to move towards case closure.

**REMARKS**

The information contained in this report represent Delta's professional opinions based upon the currently available information and is 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.

If you have any questions regarding this site, please contact Debbie Arnold (Delta) at (408) 224-4724, or Mr. Denis Brown (Shell Project Manager) at (707) 865-0251.

Sincerely,

**Delta Environmental Consultants, Inc.**

*Heather Buckingham*

Heather Buckingham  
Senior Staff Geologist

*D. Arnold*

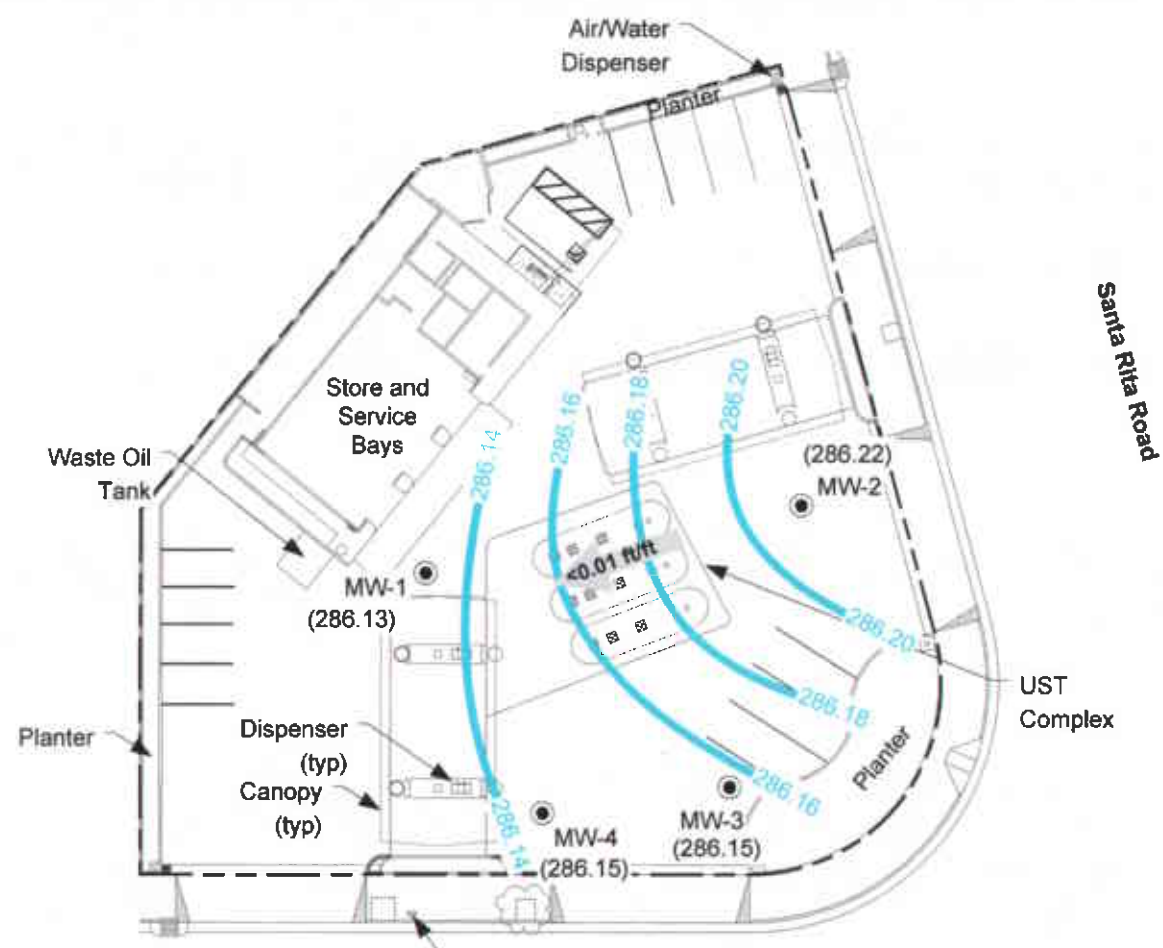
Debbie Arnold  
Project Manager  
PG 7745



- Attachments: Figure 1 – Site Location Map  
Figure 2 – Groundwater Elevation Contour Map, April 14, 2005  
Figure 3 – TPH-G, Benzene, and MTBE Concentration Map, April 14, 2005  
Attachment A – Groundwater Monitoring and Sampling Report, May 6, 2005

cc: Isabel Mejia, Shell Oil Products US, Carson  
Denis Brown, Shell Oil Products US (by email)





No LUFT sites within  
1/2 mile

Santa Rita Road

Nearest Water Supply  
Well 1,600 feet  
City of Pleasanton  
Well 06

Fire Hydrant  
  
Valley Avenue

Chevron Station 30 feet  
SW Corner of Valley  
and Santa Rita

UST  
Complex

**LEGEND**

- MW-1 ● GROUNDWATER MONITORING WELL
- (263.11) GROUNDWATER ELEVATION (FEET-MSL), 4/14/05
- 283.15 — GROUNDWATER ELEVATION CONTOUR
- $<0.01 \text{ ft/ft}$  APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT



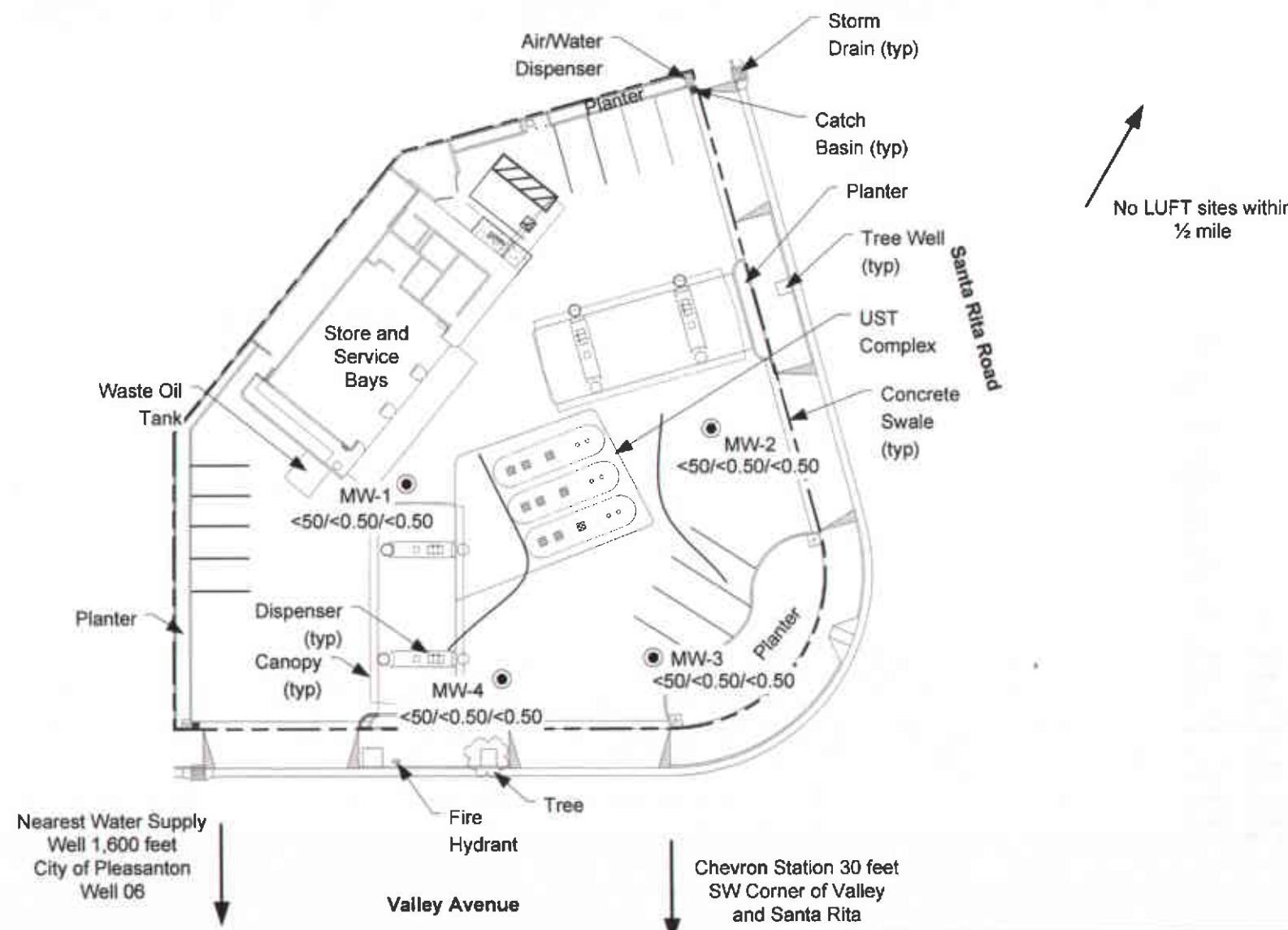
APPROX. SCALE

**FIGURE 2**  
GROUNDWATER ELEVATION CONTOUR MAP,  
APRIL 14, 2005

SHELL-BRANDED SERVICE STATION  
1801 Santa Rita Road  
Pleasanton, California

PROJECT NO. SJ18-015-G-2005	DRAWN BY VF 10/23/03
FILE NO. SJ18-015-G-2005year	PREPARED BY VF
REVISION NO. 2	REVIEWED BY





**LEGEND**

- MW-1 ● **GROUNDWATER MONITORING WELL**
- <50/<0.50/<0.50 **TPH-G/BENZENE/MTBE CONCENTRATIONS (UG/L), 04/14/05**



APPROX. SCALE

**FIGURE 3**  
**TPH-G, BENZENE, AND MTBE CONCENTRATIONS MAP**  
**APRIL 14, 2005**

**SHELL-BRANDED SERVICE STATION**  
**1801 Santa Rita Road**  
**Pleasanton, California**

PROJECT NO. SJ18-018-G 000G	DRAWN BY JL 09/21/05
FILE NO. SJ18-018-G 000G	PREPARED BY HB
REVISION NO. 1	REVIEWED BY



**Attachment A**

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**GROUNDWATER MONITORING AND SAMPLING REPORT**



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**BLAINE**  
TECH SERVICES INC.

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GROUNDWATER SAMPLING SPECIALISTS  
SINCE 1985

May 6, 2005

Carol Campagna  
HSE – Environmental Services  
Shell Oil Products US  
20945 S. Wilmington Ave.  
Carson, CA 90810

Second Quarter 2005 Groundwater Monitoring at  
Shell-branded Service Station  
1801 Santa Rita Road  
Pleasanton, CA

Monitoring performed on April 14, 2005

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Groundwater Monitoring Report **050414-BA-2**

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

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

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

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/jn

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**  
**1801 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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	12/12/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	85.83	NA
MW-1	12/20/2002	<50	<50	<0.50	<0.50	<0.50	0.71	<0.50	<2.0	<2.0	<2.0	<50	NA	85.60	NA
MW-1	3/31/2003	<50	75	<0.50	<0.50	<0.50	<1.0	<5.0	NA	NA	NA	NA	342.10	77.36	264.74
MW-1	6/26/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	342.10	72.48	269.62
MW-1	9/15/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	342.10	79.03	263.07
MW-1	12/31/2003	<50	<50	<0.50	0.99	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	342.10	70.57	271.53
MW-1	3/8/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	342.10	65.95	276.15
MW-1	6/16/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	342.10	66.50	275.60
MW-1	4/14/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	342.10	55.97	286.13
MW-2	12/12/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	85.15	NA
MW-2	12/20/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	85.00	NA
MW-2	3/31/2003	<50	63	<0.50	0.71	<0.50	<1.0	<5.0	NA	NA	NA	NA	341.57	76.63	264.94
MW-2	6/26/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.57	71.94	269.63
MW-2	9/15/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.57	78.41	263.16
MW-2	12/31/2003	<50	120 a	<0.50	1.3	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.57	69.96	271.61
MW-2	3/8/2004	<50	110 a	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.57	65.34	276.23
MW-2	6/16/2004	<50	90 a	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.57	65.86	275.71
MW-2	4/14/2005	<50	77 a	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.57	55.35	286.22
MW-3	12/12/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	85.49	NA
MW-3	12/20/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	85.25	NA
MW-3	3/31/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	NA	NA	NA	NA	341.65	76.81	264.84
MW-3	6/26/2003	<50	80 a	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.65	72.05	269.60
MW-3	9/15/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.65	78.52	263.13
MW-3	12/31/2003	<50	<50	<0.50	1.2	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.65	70.15	271.50

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**1801 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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-3	3/8/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.65	65.46	276.19
MW-3	6/16/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.65	65.87	275.78
MW-3	4/14/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	341.65	55.50	286.15
MW-4	12/12/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	84.36	NA
MW-4	12/20/2002	<50	69	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	84.15	NA
MW-4	3/31/2003	<50	70	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	340.68	75.90	264.78
MW-4	6/26/2003	<50	86 a	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	340.68	71.01	269.67
MW-4	9/15/2003	<50	120 a	1.0	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	340.68	77.57	263.11
MW-4	12/31/2003	<50	<50	<0.50	0.64	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	340.68	69.15	271.53
MW-4	3/8/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	340.68	64.51	276.17
MW-4	6/16/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	340.68	65.04	275.64
MW-4	4/14/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	340.68	54.53	286.15

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**1801 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)	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 tertiary butyl ether

TAME = Tertiary amyl methyl ether

TBA = Tertiary Butanol or Tertiary butyl alcohol

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

NA = Not applicable

**Notes:**

a = Hydrocarbon does not match pattern of laboratory's standard.

Site surveyed January 14, 2003 by Mid Coast Engineers.

Blaine Tech Services, Inc.

April 29, 2005

1680 Rogers Avenue  
San Jose, CA 95112-1105  
Attn.: Leon Gearhart  
Project#: 050414-BA2  
Project: 97402155  
Site: 1801 Santa Rita Rd., Pleasanton

Dear Mr. Gearhart,

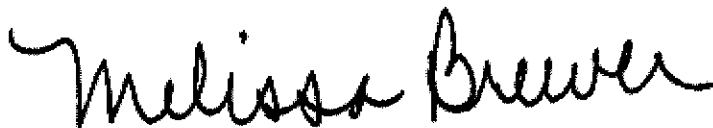
Attached is our report for your samples received on 04/15/2005 15:53  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
05/30/2005 unless you have requested otherwise.

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

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

Sincerely,



Melissa Brewer  
Project Manager

**Diesel (C9-C24)**

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 050414-BA2  
97402155

Received: 04/15/2005 15:53

Site: 1801 Santa Rita Rd., Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-1	04/14/2005 14:30	Water	1
MW-2	04/14/2005 13:45	Water	2
MW-3	04/14/2005 14:00	Water	3
MW-4	04/14/2005 14:15	Water	4

**Diesel (C9-C24)**

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 050414-BA2

97402155

Received: 04/15/2005 15:53

Site: 1801 Santa Rita Rd., Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: MW-1	Lab ID: 2005-04-0533 - 1
Sampled: 04/14/2005 14:30	Extracted: 4/21/2005 14:59
Matrix: Water	QC Batch#: 2005/04/21-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/22/2005 21:32	
<i>Surrogate(s)</i>						
o-Terphenyl	95.3	64-127	%	1.00	04/22/2005 21:32	





**Diesel (C9-C24)**

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 050414-BA2

97402155

Received: 04/15/2005 15:53

Site: 1801 Santa Rita Rd., Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: MW-3	Lab ID: 2005-04-0533 - 3
Sampled: 04/14/2005 14:00	Extracted: 4/21/2005 14:59
Matrix: Water	QC Batch#: 2005/04/21-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/22/2005 18:23	
<b>Surrogate(s)</b>						
o-Terphenyl	98.5	64-127	%	1.00	04/22/2005 18:23	

Diesel (C9-C24)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 050414-BA2  
97402155

Received: 04/15/2005 15:53

Site: 1801 Santa Rita Rd., Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: MW-4	Lab ID: 2005-04-0533 - 4
Sampled: 04/14/2005 14:15	Extracted: 4/21/2005 14:59
Matrix: Water	QC Batch#: 2005/04/21-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/22/2005 17:56	
<b>Surrogate(s)</b>						
o-Terphenyl	91.9	64-127	%	1.00	04/22/2005 17:56	

**Diesel (C9-C24)**

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 050414-BA2  
97402155

Received: 04/15/2005 15:53

Site: 1801 Santa Rita Rd., Pleasanton

**Batch QC Report**

Prep(s): 3511

Method Blank

MB: 2005/04/21-06.10-001

Water

Test(s): 8015M

QC Batch # 2005/04/21-06.10

Date Extracted: 04/21/2005 14:59

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	04/23/2005 09:17	
<b>Surrogates(s)</b> o-Terphenyl	96.8	64-127	%	04/23/2005 09:17	

**Diesel (C9-C24)**

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 050414-BA2  
97402155

Received: 04/15/2005 15:53

Site: 1801 Santa Rita Rd., Pleasanton

**Batch QC Report**

Prep(s): 3511

Test(s): 8015M

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/04/21-06.10**

LCS 2005/04/21-06.10-002

Extracted: 04/21/2005

Analyzed: 04/23/2005 09:17

LCSD 2005/04/21-06.10-003

Extracted: 04/21/2005

Analyzed: 04/23/2005 09:17

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	587	677	680	86.3	99.6	14.3	60-150	25		
<b>Surrogates(s)</b> o-Terphenyl	1.35	1.48	1.25	107.7	118.5		64-127	0		

Severn Trent Laboratories, Inc.

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

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

04/26/2005 17:51

**Diesel (C9-C24)**

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 050414-BA2

97402155

Received: 04/15/2005 15:53

Site: 1801 Santa Rita Rd., Pleasanton

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**Legend and Notes**

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**Result Flag**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

**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: 050414-BA2

97402155

Received: 04/15/2005 15:53

Site: 1801 Santa Rita Rd., Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-1	04/14/2005 14:30	Water	1
MW-2	04/14/2005 13:45	Water	2
MW-3	04/14/2005 14:00	Water	3
MW-4	04/14/2005 14:15	Water	4





**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: 050414-BA2  
97402155

Received: 04/15/2005 15:53

Site: 1801 Santa Rita Rd., Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-2	Lab ID:	2005-04-0533 - 2
Sampled:	04/14/2005 13:45	Extracted:	4/28/2005 00:11
Matrix:	Water	QC Batch#:	2005/04/27-2A.66
pH:	<2		

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	04/28/2005 00:11	Q6
Benzene	ND	0.50	ug/L	1.00	04/28/2005 00:11	
Toluene	ND	0.50	ug/L	1.00	04/28/2005 00:11	
Ethylbenzene	ND	0.50	ug/L	1.00	04/28/2005 00:11	
Total xylenes	ND	1.0	ug/L	1.00	04/28/2005 00:11	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	04/28/2005 00:11	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	04/28/2005 00:11	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	04/28/2005 00:11	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	04/28/2005 00:11	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	04/28/2005 00:11	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	104.0	73-130	%	1.00	04/28/2005 00:11	
Toluene-d8	107.2	81-114	%	1.00	04/28/2005 00:11	

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 050414-BA2

97402155

Received: 04/15/2005 15:53

Site: 1801 Santa Rita Rd., Pleasanton

Prep(s): 5030B Test(s): 8260B  
 Sample ID: MW-3 Lab ID: 2005-04-0533 - 3  
 Sampled: 04/14/2005 14:00 Extracted: 4/28/2005 00:37  
 Matrix: Water QC Batch#: 2005/04/27-2A.66  
 pH: <2

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	04/28/2005 00:37	
Benzene	ND	0.50	ug/L	1.00	04/28/2005 00:37	
Toluene	ND	0.50	ug/L	1.00	04/28/2005 00:37	
Ethylbenzene	ND	0.50	ug/L	1.00	04/28/2005 00:37	
Total xylenes	ND	1.0	ug/L	1.00	04/28/2005 00:37	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	04/28/2005 00:37	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	04/28/2005 00:37	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	04/28/2005 00:37	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	04/28/2005 00:37	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	04/28/2005 00:37	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	106.5	73-130	%	1.00	04/28/2005 00:37	
Toluene-d8	106.5	81-114	%	1.00	04/28/2005 00:37	

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

04/29/2005 17:18

**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: 050414-BA2  
97402155

Received: 04/15/2005 15:53

Site: 1801 Santa Rita Rd., Pleasanton

Prep(s): 5030B Test(s): 8260B  
Sample ID: MW-4 Lab ID: 2005-04-0533 - 4  
Sampled: 04/14/2005 14:15 Extracted: 4/28/2005 01:02  
Matrix: Water QC Batch#: 2005/04/27-2A.66  
pH: <2

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	04/28/2005 01:02	
Benzene	ND	0.50	ug/L	1.00	04/28/2005 01:02	
Toluene	ND	0.50	ug/L	1.00	04/28/2005 01:02	
Ethylbenzene	ND	0.50	ug/L	1.00	04/28/2005 01:02	
Total xylenes	ND	1.0	ug/L	1.00	04/28/2005 01:02	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	04/28/2005 01:02	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	04/28/2005 01:02	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	04/28/2005 01:02	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	04/28/2005 01:02	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	04/28/2005 01:02	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	105.1	73-130	%	1.00	04/28/2005 01:02	
Toluene-d8	105.2	81-114	%	1.00	04/28/2005 01:02	

**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: 050414-BA2  
97402155

Received: 04/15/2005 15:53

Site: 1801 Santa Rita Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Method: Blank

MB: 2005/04/27-2A.66-052

Water

Test(s): 8260B

QC Batch # 2005/04/27-2A.66

Date Extracted: 04/27/2005 19:52

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	04/27/2005 19:52	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	04/27/2005 19:52	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/27/2005 19:52	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	04/27/2005 19:52	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	04/27/2005 19:52	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	04/27/2005 19:52	
Benzene	ND	0.5	ug/L	04/27/2005 19:52	
Toluene	ND	0.5	ug/L	04/27/2005 19:52	
Ethylbenzene	ND	0.5	ug/L	04/27/2005 19:52	
Total xylenes	ND	1.0	ug/L	04/27/2005 19:52	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	95.6	73-130	%	04/27/2005 19:52	
Toluene-d8	101.4	81-114	%	04/27/2005 19:52	

**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: 050414-BA2  
97402155

Received: 04/15/2005 15:53

Site: 1801 Santa Rita Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/04/27-2A.66**

LCS 2005/04/27-2A.66-027

Extracted: 04/27/2005

Analyzed: 04/27/2005 19:27

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	17.8		25	71.2			65-165	20		
Benzene	18.8		25	75.2			69-129	20		
Toluene	20.8		25	83.2			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	459		500	91.8			73-130			
Toluene-d8	523		500	104.6			81-114			

Severn Trent Laboratories, Inc.

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

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

04/29/2005 17:18

**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: 050414-BA2  
97402155

Received: 04/15/2005 15:53

Site: 1801 Santa Rita Rd., Pleasanton

**Batch QC Report**

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

Matrix Spike (MS / MSD) Water QC Batch # 2005/04/27-2A.66

MS/MSD Lab ID: 2005-04-0516 - 002

MS: 2005/04/27-2A.66-049 Extracted: 04/27/2005 Analyzed: 04/27/2005 20:49

Dilution: 1.00

MSD: 2005/04/27-2A.66-014 Extracted: 04/27/2005 Analyzed: 04/27/2005 21:14

Dilution: 1.00

Compound	Conc. ug/L		Spk. Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	25.0	26.2	ND	25	100.0	104.8	4.7	65-165	20		
Benzene	25.3	26.3	ND	25	101.2	105.2	3.9	69-129	20		
Toluene	28.6	29.0	ND	25	114.4	116.0	1.4	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	484	475		500	96.9	95.0		73-130			
Toluene-d8	539	533		500	107.8	106.6		81-114			

Severn Trent Laboratories, Inc.

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

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

04/29/2005 17:18

**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: 050414-BA2  
97402155

Received: 04/15/2005 15:53

Site: 1801 Santa Rita Rd., Pleasanton

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**Legend and Notes**

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**Sample Comment**

Lab ID: 2005-04-0533 -2

Siloxane peaks were found in the sample which are not believed to be gasoline related. If they were to be quantified as gasoline, concentration would be 74 ug/L.

**Result Flag**

Q6

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

LAB: STL

# SHELL Chain Of Custody Record

114273

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Carol Campagna

## 2005-04-0533

INCIDENT NUMBER (S&E ONLY)

9 7 4 0 2 1 5 5

SAP or CRMT NUMBER (YS/CRMT)

DATE: 4/14/05

PAGE: 1 of 1

SAMPLING COMPANY <b>Blaine Tech Services</b>		LSO CODE <b>BTSS</b>	SITE ADDRESS (Street and City): <b>1801 Santa Rita Rd., Pleasanton</b>		GLOBAL ID NO: <b>pending</b>
ADDRESS: <b>1680 Rogers Avenue, San Jose, CA 95112</b>		OFF DELIVERABLE TO (Responsible Party or Designer): <b>Debbie Arnold</b>		PHONE FAX: <b>(408)224-4724</b>	EMAIL: <b>darnold@blt1.com</b>
PROJECT CONTACT (Hardcopy or PDF Report to): <b>Leon Gearhart</b>		SAMPLER NAME(S) (P-#): <b>Brian Alcom</b>		CONSULTANT PROJECT ID: <b>050414-BAZ</b>	
TELEPHONE: <b>408-573-0555</b>	FAX: <b>408-573-7771</b>	EMAIL: <b>lgearhart@blainetech.com</b>		LAB USE ONLY	

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

LA - RWQCB REPORT FORMAT  UST AGENCY:

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

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

**GRASP Site**

REQUESTED ANALYSIS										FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes  <b>3</b>
TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8280B - 0.5ppb RL)	Oxygenates (S) by (8280B)	TPH - Diesel, Extractable					
X	X			X	X					TEMPERATURE ON RECEIPT (°C)
X	X			X	X					
X	X			X	X					
X	X			X	X					

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8280B - 0.5ppb RL)	Oxygenates (S) by (8280B)	TPH - Diesel, Extractable					
		DATE	TIME													
	MW-1	4/14	1430	W	6	X	X			X	X					
	MW-2	↓	1345	↓	↓	X	X			X	X					
	MW-3	↓	1400	↓	↓	X	X			X	X					
	MW-4	↓	1415	↓	↓	X	X			X	X					

Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: <u>4/15/05</u>	Temp: <u>15.5</u>
Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: <u>04/15/05</u>	Temp: <u>18.5</u>
Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date:	Temp:



LAB: STL

# SHELL Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Carol Campagna

2005-04-0533

INCIDENT NUMBER (S&E ONLY)

9 7 4 0 2 1 5 5

SAP or CRMT NUMBER (TS/CRMT)

DATE: 4/14/05

PAGE: 1 of 1

BLAINE AND COMPANY: <b>Blaine Tech Services</b> <small>ADDRESS:</small> 1600 Rogers Avenue, San Jose, CA 95112 <small>PROJECT CONTACT (Hardcopy or PDF Report to):</small> <b>Leon Gearhart</b> <small>TELEPHONE:</small> 408-573-0555 <small>FAX:</small> 408-573-7771 <small>EMAIL:</small> lgearhart@blainetech.com		<small>LOG CODE:</small> <b>BTSS</b> <small>CLIENT ADDRESS (Street and City):</small> <b>1801 Santa Rita Rd., Pleasanton</b> <small>TOP DELIVERABLE TO (Responsible Party or Contact):</small> <b>Debbie Arnold</b> <small>PHONE NO.:</small> (408)224-4724 <small>EMAIL:</small> darnold@khm1.com <small>CONSULTANT PROJECT NO.:</small> <b>050414-BAR</b> <small>BTS#</small>	<small>GLOBAL ID NO.:</small> pending <small>LAB USE ONLY</small>
--	--	--	---

REQUESTED ANALYSIS

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

LA - RWQCB REPORT FORMAT     LIST AGENCY

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

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

Run TPH-D WITH SILSCA GEL IF DETECTED  
GRASP Site

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

TEMPERATURE ON RECEIPT °C

LAB USE ONLY	Field Sample Identification				SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgable	BTEX	MTBE (80219 - 5ppb RL)	MTBE (82808 - 0.5ppb RL)	Oxygenates (9) by (82609)	TPH - Diesel, Extractable
	DATE	TIME	DATE	TIME										
	MW-1	4/14	1430	W	6			X	X			X	X	
	MW-2		1315					X	X			X	X	
	MW-3		1400					X	X			X	X	
	MW-4		1415					X	X			X	X	

<small>Requested by (Signature):</small> 	<small>Received by (Signature):</small> 	<small>Date:</small> <u>4/15/05</u>	<small>Time:</small> <u>1553</u>
<small>Requested by (Signature):</small> 	<small>Received by (Signature):</small> 	<small>Date:</small>	<small>Time:</small>
<small>Requested by (Signature):</small> 	<small>Received by (Signature):</small> 	<small>Date:</small>	<small>Time:</small>

## SITE DEPARTURE CHECKLIST

Client Shell Date 4/14/05

Site Address 1801 Santa Rita, Pleasanton

Job Number 050414-BAZ Technician Brian Alcom

- |   |                                     |       |
|---|-------------------------------------|-------|
| Caps, Locks and Wellbox Bolts Secured at all Accessed Wells<br>(except as noted on Wellhead Repair Order) | <input checked="" type="checkbox"/> |       |
| Drum(s) Labeled and Secured   | <input type="checkbox"/>            | (N/A) |
| Equipment Decontaminated  | <input checked="" type="checkbox"/> | N/A   |
| Housekeeping of Site Checked (clean or cleaner)   | <input checked="" type="checkbox"/> | N/A   |
| Scope Of Work (SOW) Reviewed for Completion   | <input checked="" type="checkbox"/> |       |
| Sample Container Set(s) Complete, Present and Secure  | <input checked="" type="checkbox"/> | N/A   |
| Bill of Lading Completed  | <input type="checkbox"/>            | (N/A) |
| Chain of Custody Completed  | <input checked="" type="checkbox"/> | N/A   |
| Call In to Project Coordinator / Base Completed   | <input checked="" type="checkbox"/> | N/A   |
| Route to Next Destination Known, Mapped and Understood  | <input checked="" type="checkbox"/> |       |
| Traffic Control Devices Collected   | <input checked="" type="checkbox"/> | N/A   |
| Cargo Secured on Truck  | <input checked="" type="checkbox"/> | N/A   |
| Check Out of Facility / Site  | <input type="checkbox"/>            | (N/A) |
| Secure Site / Close and Lock Gate   | <input type="checkbox"/>            | (N/A) |

If Checklist Task cannot be completed, explain: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**PROJECT COORDINATOR ONLY**

Checklist Reviewed _____ <small style="text-align: center;">Initial/Date</small>	Notes
---	-------

# WELLHEAD INSPECTION CHECKLIST

Client Shell Date 4/14/05

Site Address 1801 Santa Rita Rd.

Job Number 050414-BAL Technician Brian Alcorn

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	<del>X</del>	1 bolt tab broken						
Mw-2	X							
Mw-3	X							
Mw-4	X							

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

## WELL GAUGING DATA

Project # 050414-342 Date 4/14/05 Client Shell

Site 1801 Santa Rita Rd

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
MW-1	4					55.97	91.78	ToC
MW-2	4					55.35	93.15	
MW-3	4	pressure				55.50	96.90	
MW-4	2	pressure				54.53	94.37	>

## SHELL WELL MONITORING DATA SHEET

BTS #: <u>050414-BA2</u>	Site: <u>1801 Santa Rita Rd</u>
Sampler: <u>Brian Alcom</u>	Date: <u>4/14/05</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth (TD): <u>91.78</u>	Depth to Water (DTW): <u>55.97</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
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]:	

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

No Purge

\_\_\_\_\_ (Gals.) X \_\_\_\_\_ = \_\_\_\_\_ Gals.   
 1 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <u>AS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
<u>1430</u>	<u>66.0</u>	<u>6.7</u>	<u>1,476</u>	<u>15</u>	<u>N/A</u>	<u>clear</u>

Did well dewater? Yes  No  Gallons actually evacuated: N/A

Sampling Date: 4/14/05 Sampling Time: 1430 Depth to Water: 55.97

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

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

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

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

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

## SHELL WELL MONITORING DATA SHEET

BTS #: <u>050414-BAZ</u>	Site: <u>1801 Santa Rita Rd, Pleasanton</u>
Sampler: <u>Brian Alcorn</u>	Date: <u>4/14/05</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth (TD): <u>93.15</u>	Depth to Water (DTW): <u>55.35</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]:	

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

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

No Purge

\_\_\_\_\_ (Gals.) X \_\_\_\_\_ = \_\_\_\_\_ Gals.  
 1 Case Volume      Specified Volumes      Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <u>QS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
<u>1345</u>	<u>69.0</u>	<u>11.4</u>	<u>2,031</u>	<u>27</u>	<u>N/A</u>	<u>clear</u>

Did well dewater? Yes  No  Gallons actually evacuated: N/A

Sampling Date: 4/14/05 Sampling Time: 1345 Depth to Water: 55.35

Sample I.D.: MW-2 Laboratory: (STL) Other \_\_\_\_\_

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

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>050414-BAL</u>	Site: <u>1801 Santa Rita Rd, Pleasanton</u>
Sampler: <u>Brian Alcom</u>	Date: <u>4/14/05</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth (TD): <u>96.90</u>	Depth to Water (DTW): <u>55.50</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]:	

Purge Method: Bailer  Disposable Bailer  Positive Air Displacement  Electric Submersible

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

Sampling Method: Bailer  Disposable Bailer  Extraction Port  Dedicated Tubing

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

No Purge

(Gals.) X \_\_\_\_\_ = \_\_\_\_\_ Gals.  
 1 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <u>(S)</u> )	Turbidity (NTUs)	Gals. Removed	Observations
<u>1400</u>	<u>67.6</u>	<u>7.6</u>	<u>1,330</u>	<u>18</u>	<u>N/A</u>	<u>clear</u>

Did well dewater? Yes  No  Gallons actually evacuated: N/A

Sampling Date: 4/14/05 Sampling Time: 1400 Depth to Water: 55.50

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

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

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

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

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

## SHELL WELL MONITORING DATA SHEET

BTS #: <b>050414-BAZ</b>	Site: <b>1801 Santa Rita Rd, Pleasanton</b>
Sampler: <b>Brian Alcorn</b>	Date: <b>4/14/05</b>
Well I.D.: <b>MW-4</b>	Well Diameter: <b>(2)</b> 3 4 6 8
Total Well Depth (TD): <b>94.37</b>	Depth to Water (DTW): <b>54.53</b>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>(PVC)</b> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

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

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

**No Purge**

_____ (Gals.) X _____	= _____ Gals.	
1 Case Volume	Specified Volumes	Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <b>(18)</b> )	Turbidity (NTUs)	Gals. Removed	Observations
<b>1415</b>	<b>66.3</b>	<b>6.8</b>	<b>1,370</b>	<b>18</b>	<b>N/A</b>	<b>clear</b>

Did well dewater? Yes  No  Gallons actually evacuated: **N/A**

Sampling Date: **4/14/05** Sampling Time: **1415** Depth to Water: **54.53**

Sample I.D.: **MW-4** Laboratory: **(STL)** Other \_\_\_\_\_

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

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

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

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

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