



**Shell Oil Products US**

**RECEIVED**

*By dehloptoxic at 1:09 pm, Oct 03, 2006*

September 30, 2006

Re: **Semi-Annual Third Quarter 2006 Groundwater Monitoring Report**  
**Shell-branded Service Station**  
**809 East Stanley Boulevard**  
**Livermore, California**

Dear Mr. Jerry Wickham:

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

Sincerely,  
Shell Oil Products US

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

Denis L. Brown  
Project Manager



Solving environment-related business problems worldwide

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September 30, 2006  
DELTA Project SJ80-9ST-1  
SAP: 135442

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

**Re: SEMI-ANNUAL THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT  
Shell-Branded Service Station  
809 East Stanley Boulevard  
Livermore, California**


Dear Mr. Wickham:


On behalf of Shell Oil Products (Shell), Delta Environmental Consultants, Inc. (Delta), has prepared this *Third Quarter 2006 Groundwater Monitoring Report* for the above referenced site.

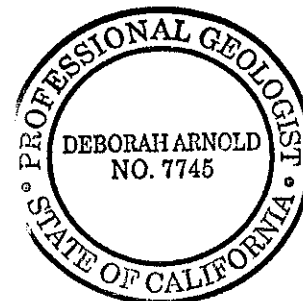
This quarterly report represents Delta's professional opinions based upon the currently available information and is arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its 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 Ms. Debbie Arnold (Delta) at (408) 826-1873 or Mr. Denis Brown (Shell) at (707) 865-0251.

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

  
Heather Buckingham  
Senior Staff Geologist

  
Debbie Arnold, PG 7745  
Project Manager



Attachment: Third Quarter 2006 Groundwater Monitoring Report

cc: Denis Brown, Shell Oil Products US, Carson

**SHELL QUARTERLY STATUS REPORT**

Station Address: 809 East Stanley Boulevard, Livermore, CA  
 DELTA Project No. SJ80-9ST-1  
 SHELL Project Manager/Phone No.: Denis Brown/(707) 865-0251  
 DELTA Site Manager/Phone No.: Debbie Arnold/(408) 826-1873  
 Primary Agency/Regulatory ID No.: ACHCSA/Mr. Jerry Wickham, PG, CHG  
 Other Agencies to Receive Copies: None

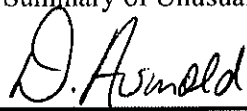
**WORK PERFORMED THIS QUARTER (THIRD - 2006):**

1. Quarterly groundwater monitoring and sampling. Submitted quarterly report.
2. Submitted results of recent soil and groundwater investigation in report titled, *Soil and Groundwater Investigation Report and Request for Case Closure*, dated September 29, 2006.

**WORK PERFORMED LAST QUARTER (SECOND - 2006):**

1. Advanced site Borings SB-1 through SB-5 in order to investigate residual petroleum hydrocarbon source areas in site soils.

Current Phase of Project: Groundwater monitoring.  
 Frequency of Sampling: Semi-Annual  
 Frequency of Monitoring: Semi-Annual  
 Is Separate Phase Hydrocarbon Present On-site  Yes  No  
 (Well #'s): \_\_\_\_\_  
 Cumulative SPH Recovered to Date : NA  
 SPH Recovered This Quarter : None  
 Sensitive Receptor(s) and Respective Direction(s): Municipal Well 10-01 is located approximately 1,700 feet northeast of the site. The Arroyo Mocho Canal is located approximately 300 feet southwest of the site.  
 Current Remediation Techniques: None  
 Permits for Discharge: None  
 Approximate Depth to Groundwater: 20 feet below top of well casing  
 Groundwater Gradient: North-northeast at a gradient of less than 0.01 ft/ft, consistent with previous data  
 Current Agency Correspondence: ACHCSA letter dated May 16, 2006 (soil and groundwater investigation work plan approval)  
 Summary of Unusual Activity: None

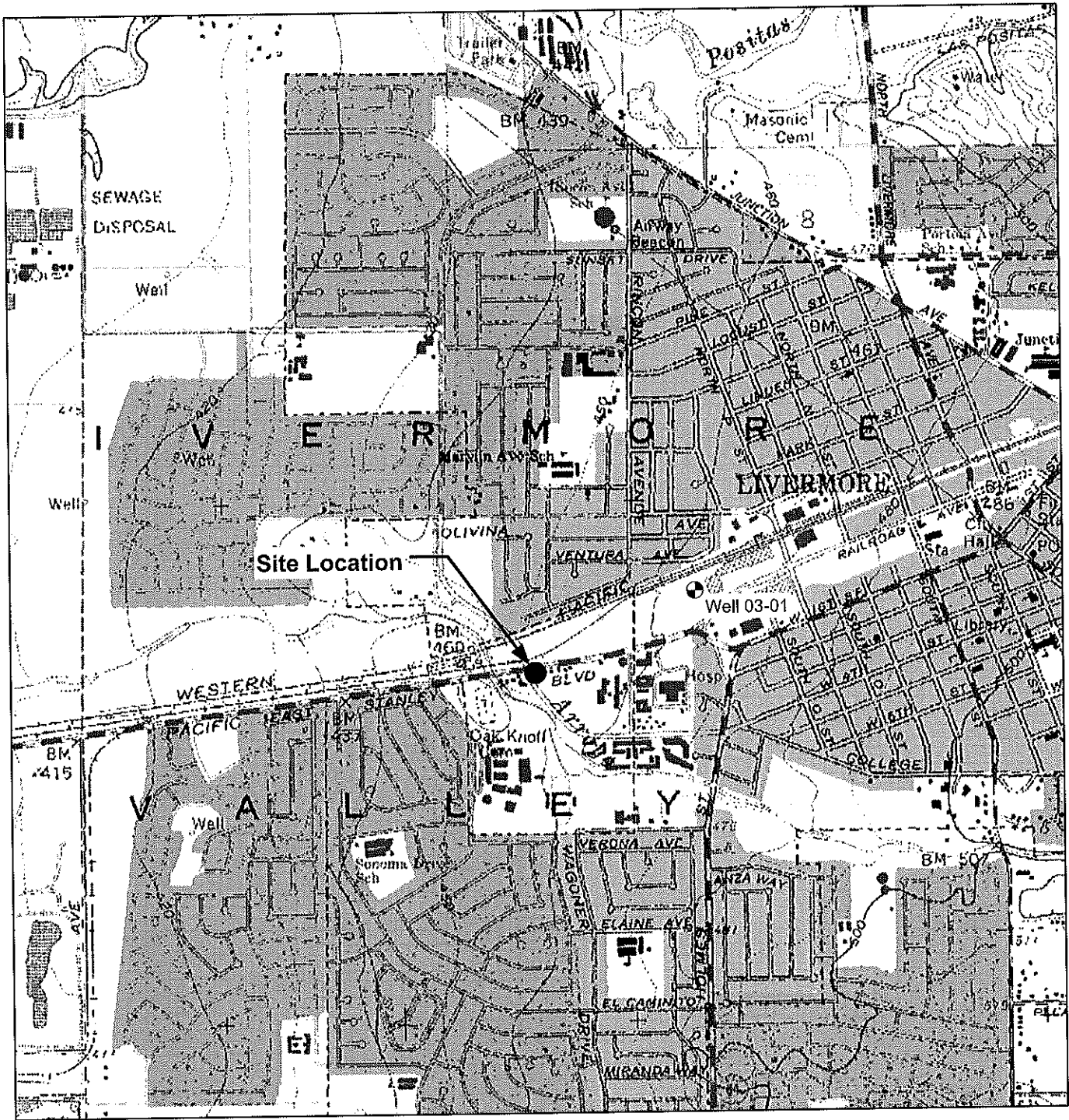


Debbie Arnold  
 Project Manager (DELTA)

**ATTACHED:**

- Figure 1 – Site Location Map
- Figure 2 – Groundwater Elevation Contour Map, July 26, 2006
- Figure 3 – TPH-G, Benzene, and MTBE Concentrations Map, July 26, 2006
- Attachment A – Groundwater Monitoring and Sampling Report, August 18, 2006

## FIGURES



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



QUADRANGLE LOCATION

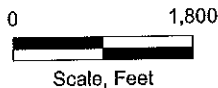


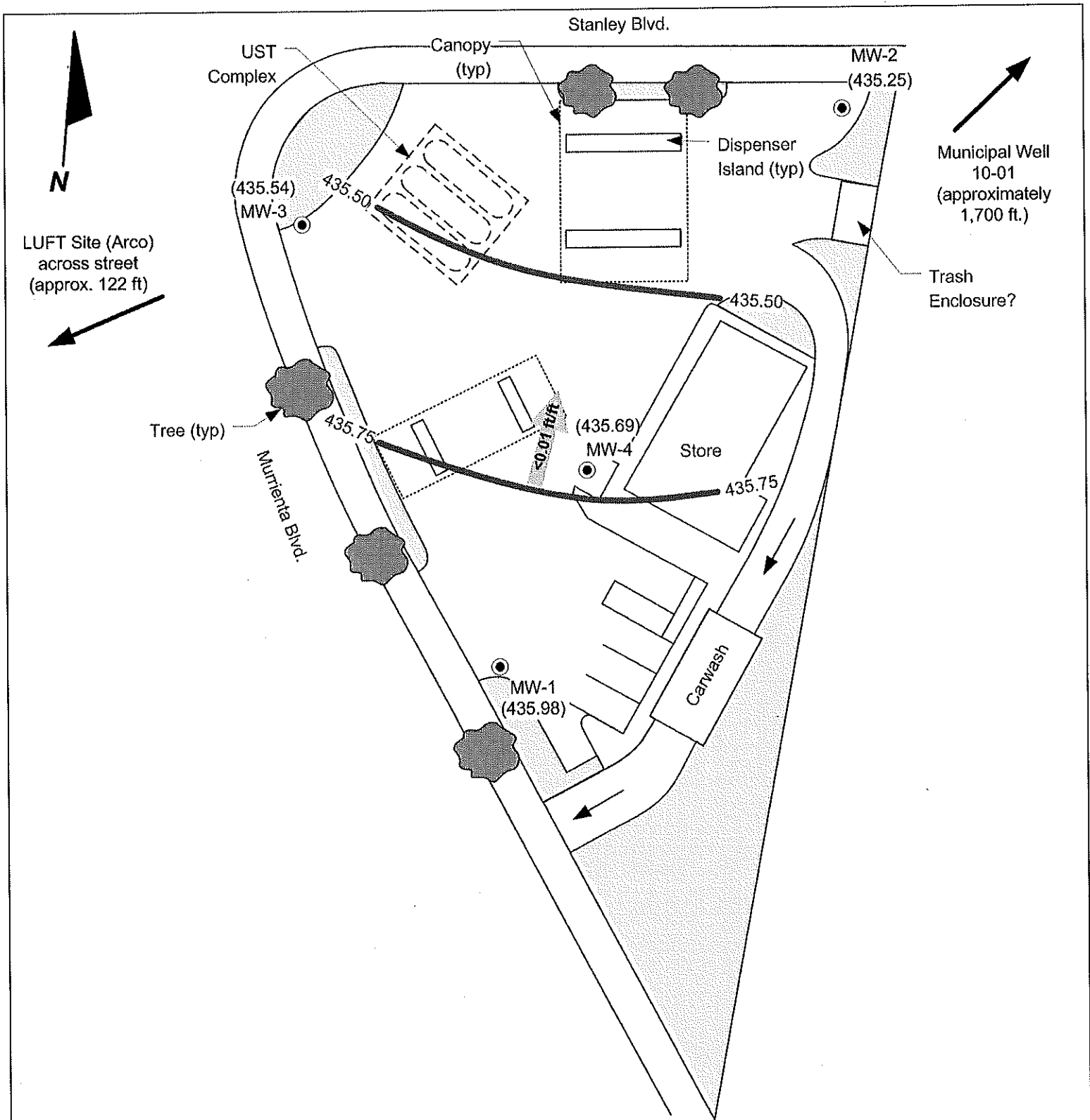
FIGURE 1  
 SITE LOCATION MAP

Shell-branded Service Station  
 809 East Stanley Blvd.  
 Livermore, California

PROJECT NO. SJ80-9ST-1.2005	DRAWN BY VF 12/01/03
FILE NO. SJ80-9ST-1.2005	PREPARED BY VF
REVISION NO. 1	REVIEWED BY DA

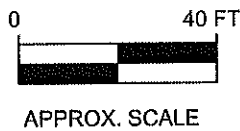


**Delta**  
 Environmental  
 Consultants, Inc.

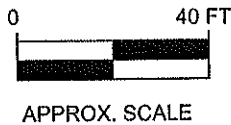
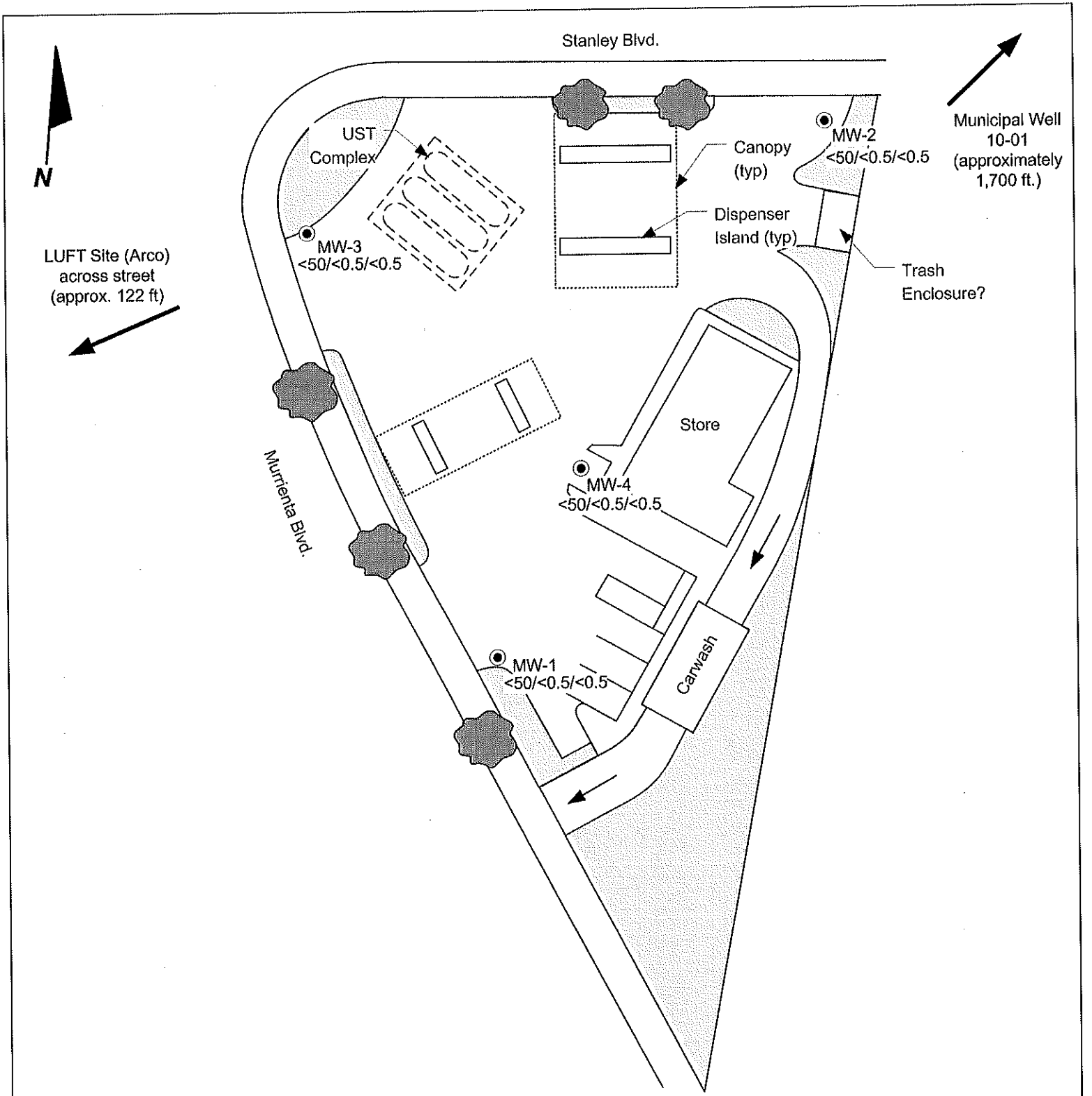


**LEGEND**

- MW-1 ● **GROUNDWATER MONITORING WELL**
- (439.46) **GROUNDWATER ELEVATION (FEET-MSL), 07/26/06**
- 439.40 — **GROUNDWATER ELEVATION CONTOUR**
- APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**



<p><b>FIGURE 2</b>  <b>GROUNDWATER ELEVATION CONTOUR MAP,</b>  <b>JULY 26, 2006</b></p> <p>Shell-branded Service Station          809 East Stanley Ave.          Livermore, California</p>	
<p>PROJECT NO. SJ80-9ST-1.2006</p> <p>FILE NO. SJ8-09ST-1.2006</p> <p>REVISION NO. 1</p>	<p>DRAWN BY BH 8/29/06</p> <p>PREPARED BY HB</p> <p>REVIEWED BY</p>
<p><b>Delta</b> Environmental Consultants, Inc.</p>	



**LEGEND**

MW-1 ●

<50/<0.5/<0.5

**GROUNDWATER MONITORING WELL**

**TPH-G/BENZENE/MTBE CONCENTRATIONS IN GROUNDWATER (ug/l), 07/26/06**

**FIGURE 3**

**TPH-G, BENZENE, AND MTBE CONCENTRATIONS MAP, JULY 26, 2006**

Shell-branded Service Station  
809 East Stanley Ave.  
Livermore, California

PROJECT NO. SJB-9ST-1.2006	DRAWN BY BH 08/29/06
FILE NO. SJB-09ST-1.2006	PREPARED BY HB
REVISION NO. 1	REVIEWED BY





**ATTACHMENT A**

**GROUNDWATER MONITORING AND SAMPLING REPORT, AUGUST 18, 2006**



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 Coordinator

MN/np

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**  
**809 East Stanley Boulevard**  
**Livermore, CA**

Well ID	Date	TPPH (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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MW-1	09/25/2001	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-1	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	455.49	20.06	435.43
MW-1	10/25/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	455.49	19.71	435.78
MW-1	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	455.49	18.05	437.44
MW-1	04/21/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	455.49	17.57	437.92
MW-1	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	455.49	18.76	436.73
MW-1	10/20/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	5.0	455.49	20.01	435.48
MW-1	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	455.49	16.58	438.91
MW-1	07/27/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	455.49	19.43	436.06
MW-1	01/06/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	455.49	17.20	438.29
MW-1	07/20/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	455.49	17.69	437.80
MW-1	01/10/2006	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1,000	455.49	16.03	439.46
<b>MW-1</b>	<b>07/28/2006</b>	<b>&lt;50.0</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>455.49</b>	<b>19.51</b>	<b>435.98</b>

MW-2	09/25/2001	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-2	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	454.84	20.40	434.44
MW-2	10/25/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	454.84	20.17	434.67
MW-2	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	454.84	18.30	436.54
MW-2	04/21/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	454.84	17.93	436.91
MW-2	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	454.84	19.01	435.83
MW-2	10/20/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	454.84	20.36	434.48
MW-2	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	454.84	16.99	437.85
MW-2	07/27/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	454.84	19.64	435.20
MW-2	01/06/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	454.84	17.60	437.24
MW-2	07/20/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	454.84	17.90	436.94
MW-2	01/10/2006	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	24	454.84	16.27	438.57

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Well ID	Date	TPPH (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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<b>MW-2</b>	<b>07/28/2006</b>	<b>&lt;50.0</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>454.84</b>	<b>19.59</b>	<b>435.25</b>
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MW-3	09/25/2001	NA	<0.50	<0.50	<0.50	<0.50	3.6	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-3	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	454.87	19.95	434.92
MW-3	10/25/2002	<50	<0.50	<0.50	<0.50	<0.50	0.83	<2.0	<2.0	<2.0	<50	454.87	19.63	435.24
MW-3	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	454.87	17.90	436.97
MW-3	04/21/2003	<50	<0.50	<0.50	<0.50	<1.0	0.71	<2.0	<2.0	<2.0	<5.0	454.87	17.45	437.42
MW-3	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	0.69	<2.0	<2.0	<2.0	<5.0	454.87	18.69	436.18
MW-3	10/20/2003	<50	<0.50	<0.50	<0.50	<1.0	0.64	<2.0	<2.0	<2.0	<5.0	454.87	19.90	434.97
MW-3	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	454.87	16.50	438.37
MW-3	07/27/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	454.87	19.31	435.56
MW-3	01/06/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	454.87	17.15	437.72
MW-3	07/20/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	454.87	17.53	437.34
MW-3	01/10/2006	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	454.87	15.94	438.93
<b>MW-3</b>	<b>07/28/2006</b>	<b>&lt;50.0</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>454.87</b>	<b>19.33</b>	<b>435.54</b>

MW-4	09/25/2001	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-4	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	456.24	21.15	435.09
MW-4	10/25/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	456.24	20.85	435.39
MW-4	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	456.24	19.15	437.09
MW-4	04/21/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	456.24	18.65	437.59
MW-4	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	456.24	19.87	436.37
MW-4	10/20/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	456.24	21.12	435.12
MW-4	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	456.24	17.65	438.59
MW-4	07/27/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	456.24	20.50	435.74
MW-4	01/06/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	456.24	18.29	437.95

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**809 East Stanley Boulevard**  
**Livermore, CA**

Well ID	Date	TPPH (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-4	07/20/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	456.24	18.73	437.51
MW-4	01/10/2006	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	456.24	17.08	439.16
<b>MW-4</b>	<b>07/28/2006</b>	<b>&lt;50.0</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>456.24</b>	<b>20.55</b>	<b>435.69</b>

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**809 East Stanley Boulevard**  
**Livermore, CA**

Well ID	Date	TPPH (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.
- 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
- 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:

Survey data provided by KHM Environmental Management, Inc.

August 15, 2006

Client: Delta Env. Consultants (San Jose) / SHELL (13653)      Work Order: NPG3819  
175 Bernal Rd., Suite 200      Project Name: 809 E Stanley Blvd., Livermore, CA  
San Jose, CA 95119      Project Nbr: SAP 135442  
Attn: Justin Link      P/O Nbr: 97461964  
Date Received: 07/29/06

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MW-1	NPG3819-01	07/26/06 10:40
MW-2	NPG3819-02	07/26/06 09:36
MW-3	NPG3819-03	07/26/06 08:52
MW-4	NPG3819-04	07/26/06 10:10

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

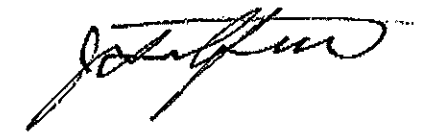
This material is intended only for the use of the (s)dividuality to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

California Certification Number: 01168CA

The Chain(s) of Custody, 5 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By:



Jim Hatfield  
Project Management



Client Delta Env. Consultants (San Jose) / SHELL (13653)  
 175 Bernal Rd., Suite 200  
 San Jose, CA 95119  
 Attn Justin Link

Work Order: NPG3819  
 Project Name: 809 E Stanley Blvd., Livermore, CA  
 Project Number: SAP 135442  
 Received: 07/29/06 08:00

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
<b>Sample ID: NPG3819-01 (MW-1 - Water) Sampled: 07/26/06 10:40</b>								
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		ug/L	0.500	1	08/09/06 08:11	SW846 8260B	6081224
Ethylbenzene	ND		ug/L	0.500	1	08/09/06 08:11	SW846 8260B	6081224
Methyl tert-Butyl Ether	ND		ug/L	0.500	1	08/09/06 08:11	SW846 8260B	6081224
Toluene	ND		ug/L	0.500	1	08/09/06 08:11	SW846 8260B	6081224
Xylenes, total	ND		ug/L	0.500	1	08/09/06 08:11	SW846 8260B	6081224
<i>Surr: 1,2-Dichloroethane-d4 (70-130%)</i>	<i>103 %</i>					<i>08/09/06 08:11</i>	<i>SW846 8260B</i>	<i>6081224</i>
<i>Surr: Dibromofluoromethane (79-122%)</i>	<i>94 %</i>					<i>08/09/06 08:11</i>	<i>SW846 8260B</i>	<i>6081224</i>
<i>Surr: Toluene-d8 (78-121%)</i>	<i>94 %</i>					<i>08/09/06 08:11</i>	<i>SW846 8260B</i>	<i>6081224</i>
<i>Surr: 4-Bromofluorobenzene (78-126%)</i>	<i>93 %</i>					<i>08/09/06 08:11</i>	<i>SW846 8260B</i>	<i>6081224</i>
Purgeable Petroleum Hydrocarbons								
Gasoline Range Organics	ND		ug/L	50.0	1	08/09/06 08:11	CA LUFT GC/MS	6081224
<i>Surr: 1,2-Dichloroethane-d4 (0-200%)</i>	<i>103 %</i>					<i>08/09/06 08:11</i>	<i>CA LUFT GC/MS</i>	<i>6081224</i>
<i>Surr: Dibromofluoromethane (0-200%)</i>	<i>94 %</i>					<i>08/09/06 08:11</i>	<i>CA LUFT GC/MS</i>	<i>6081224</i>
<i>Surr: Toluene-d8 (0-200%)</i>	<i>94 %</i>					<i>08/09/06 08:11</i>	<i>CA LUFT GC/MS</i>	<i>6081224</i>
<i>Surr: 4-Bromofluorobenzene (0-200%)</i>	<i>93 %</i>					<i>08/09/06 08:11</i>	<i>CA LUFT GC/MS</i>	<i>6081224</i>
<b>Sample ID: NPG3819-02 (MW-2 - Water) Sampled: 07/26/06 09:36</b>								
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		ug/L	0.500	1	08/09/06 08:36	SW846 8260B	6081224
Ethylbenzene	ND		ug/L	0.500	1	08/09/06 08:36	SW846 8260B	6081224
Methyl tert-Butyl Ether	ND		ug/L	0.500	1	08/09/06 08:36	SW846 8260B	6081224
Toluene	ND		ug/L	0.500	1	08/09/06 08:36	SW846 8260B	6081224
Xylenes, total	ND		ug/L	0.500	1	08/09/06 08:36	SW846 8260B	6081224
<i>Surr: 1,2-Dichloroethane-d4 (70-130%)</i>	<i>104 %</i>					<i>08/09/06 08:36</i>	<i>SW846 8260B</i>	<i>6081224</i>
<i>Surr: Dibromofluoromethane (79-122%)</i>	<i>100 %</i>					<i>08/09/06 08:36</i>	<i>SW846 8260B</i>	<i>6081224</i>
<i>Surr: Toluene-d8 (78-121%)</i>	<i>97 %</i>					<i>08/09/06 08:36</i>	<i>SW846 8260B</i>	<i>6081224</i>
<i>Surr: 4-Bromofluorobenzene (78-126%)</i>	<i>100 %</i>					<i>08/09/06 08:36</i>	<i>SW846 8260B</i>	<i>6081224</i>
Purgeable Petroleum Hydrocarbons								
Gasoline Range Organics	ND		ug/L	50.0	1	08/09/06 08:36	CA LUFT GC/MS	6081224
<i>Surr: 1,2-Dichloroethane-d4 (0-200%)</i>	<i>104 %</i>					<i>08/09/06 08:36</i>	<i>CA LUFT GC/MS</i>	<i>6081224</i>
<i>Surr: Dibromofluoromethane (0-200%)</i>	<i>100 %</i>					<i>08/09/06 08:36</i>	<i>CA LUFT GC/MS</i>	<i>6081224</i>
<i>Surr: Toluene-d8 (0-200%)</i>	<i>97 %</i>					<i>08/09/06 08:36</i>	<i>CA LUFT GC/MS</i>	<i>6081224</i>
<i>Surr: 4-Bromofluorobenzene (0-200%)</i>	<i>100 %</i>					<i>08/09/06 08:36</i>	<i>CA LUFT GC/MS</i>	<i>6081224</i>
<b>Sample ID: NPG3819-03 (MW-3 - Water) Sampled: 07/26/06 08:52</b>								
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		ug/L	0.500	1	08/09/06 01:34	SW846 8260B	6081318
Ethylbenzene	ND		ug/L	0.500	1	08/09/06 01:34	SW846 8260B	6081318
Methyl tert-Butyl Ether	ND		ug/L	0.500	1	08/09/06 01:34	SW846 8260B	6081318
Toluene	ND		ug/L	0.500	1	08/09/06 01:34	SW846 8260B	6081318
Xylenes, total	ND		ug/L	0.500	1	08/09/06 01:34	SW846 8260B	6081318
<i>Surr: 1,2-Dichloroethane-d4 (70-130%)</i>	<i>101 %</i>					<i>08/09/06 01:34</i>	<i>SW846 8260B</i>	<i>6081318</i>
<i>Surr: Dibromofluoromethane (79-122%)</i>	<i>92 %</i>					<i>08/09/06 01:34</i>	<i>SW846 8260B</i>	<i>6081318</i>
<i>Surr: Toluene-d8 (78-121%)</i>	<i>98 %</i>					<i>08/09/06 01:34</i>	<i>SW846 8260B</i>	<i>6081318</i>

Client Delta Env. Consultants (San Jose) / SHELL (13653)  
 175 Bernal Rd., Suite 200  
 San Jose, CA 95119  
 Attn Justin Link

Work Order: NPG3819  
 Project Name: 809 E Stanley Blvd., Livermore, CA  
 Project Number: SAP 135442  
 Received: 07/29/06 08:00

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
<b>Sample ID: NPG3819-03 (MW-3 - Water) - cont. Sampled: 07/26/06 08:52</b>								
Selected Volatile Organic Compounds by EPA Method 8260B - cont.								
Surr: 4-Bromofluorobenzene (78-126%)	105 %					08/09/06 01:34	SW846 8260B	6081318
Purgeable Petroleum Hydrocarbons								
Gasoline Range Organics	ND		ug/L	50.0	1	08/09/06 01:34	CA LUFT GC/MS	6081318
Surr: 1,2-Dichloroethane-d4 (0-200%)	101 %					08/09/06 01:34	CA LUFT GC/MS	6081318
Surr: Dibromofluoromethane (0-200%)	92 %					08/09/06 01:34	CA LUFT GC/MS	6081318
Surr: Toluene-d8 (0-200%)	98 %					08/09/06 01:34	CA LUFT GC/MS	6081318
Surr: 4-Bromofluorobenzene (0-200%)	105 %					08/09/06 01:34	CA LUFT GC/MS	6081318
<b>Sample ID: NPG3819-04 (MW-4 - Water) Sampled: 07/26/06 10:10</b>								
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		ug/L	0.500	1	08/09/06 01:59	SW846 8260B	6081318
Ethylbenzene	ND		ug/L	0.500	1	08/09/06 01:59	SW846 8260B	6081318
Methyl tert-Butyl Ether	ND		ug/L	0.500	1	08/09/06 01:59	SW846 8260B	6081318
Toluene	ND		ug/L	0.500	1	08/09/06 01:59	SW846 8260B	6081318
Xylenes, total	ND		ug/L	0.500	1	08/09/06 01:59	SW846 8260B	6081318
Surr: 1,2-Dichloroethane-d4 (70-130%)	104 %					08/09/06 01:59	SW846 8260B	6081318
Surr: Dibromofluoromethane (79-122%)	92 %					08/09/06 01:59	SW846 8260B	6081318
Surr: Toluene-d8 (78-121%)	97 %					08/09/06 01:59	SW846 8260B	6081318
Surr: 4-Bromofluorobenzene (78-126%)	97 %					08/09/06 01:59	SW846 8260B	6081318
Purgeable Petroleum Hydrocarbons								
Gasoline Range Organics	ND		ug/L	50.0	1	08/09/06 01:59	CA LUFT GC/MS	6081318
Surr: 1,2-Dichloroethane-d4 (0-200%)	104 %					08/09/06 01:59	CA LUFT GC/MS	6081318
Surr: Dibromofluoromethane (0-200%)	92 %					08/09/06 01:59	CA LUFT GC/MS	6081318
Surr: Toluene-d8 (0-200%)	97 %					08/09/06 01:59	CA LUFT GC/MS	6081318
Surr: 4-Bromofluorobenzene (0-200%)	97 %					08/09/06 01:59	CA LUFT GC/MS	6081318

Client Delta Env. Consultants (San Jose) / SHELL (13653)  
 175 Bernal Rd., Suite 200  
 San Jose, CA 95119  
 Attn Justin Link

Work Order: NPG3819  
 Project Name: 809 E Stanley Blvd., Livermore, CA  
 Project Number: SAP 135442  
 Received: 07/29/06 08:00

PROJECT QUALITY CONTROL DATA  
 Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
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Selected Volatile Organic Compounds by EPA Method 8260B

6081224-BLK1

Benzene	<0.200		ug/L	6081224	6081224-BLK1	08/09/06 04:28
Ethylbenzene	<0.200		ug/L	6081224	6081224-BLK1	08/09/06 04:28
Methyl tert-Butyl Ether	<0.200		ug/L	6081224	6081224-BLK1	08/09/06 04:28
Toluene	<0.200		ug/L	6081224	6081224-BLK1	08/09/06 04:28
Xylenes, total	<0.350		ug/L	6081224	6081224-BLK1	08/09/06 04:28
Surrogate: 1,2-Dichloroethane-d4	97%			6081224	6081224-BLK1	08/09/06 04:28
Surrogate: Dibromofluoromethane	92%			6081224	6081224-BLK1	08/09/06 04:28
Surrogate: Toluene-d8	100%			6081224	6081224-BLK1	08/09/06 04:28
Surrogate: 4-Bromofluorobenzene	99%			6081224	6081224-BLK1	08/09/06 04:28

6081318-BLK1

Benzene	<0.200		ug/L	6081318	6081318-BLK1	08/08/06 18:06
Ethylbenzene	<0.200		ug/L	6081318	6081318-BLK1	08/08/06 18:06
Methyl tert-Butyl Ether	<0.200		ug/L	6081318	6081318-BLK1	08/08/06 18:06
Toluene	<0.200		ug/L	6081318	6081318-BLK1	08/08/06 18:06
Xylenes, total	<0.350		ug/L	6081318	6081318-BLK1	08/08/06 18:06
Surrogate: 1,2-Dichloroethane-d4	101%			6081318	6081318-BLK1	08/08/06 18:06
Surrogate: Dibromofluoromethane	91%			6081318	6081318-BLK1	08/08/06 18:06
Surrogate: Toluene-d8	97%			6081318	6081318-BLK1	08/08/06 18:06
Surrogate: 4-Bromofluorobenzene	98%			6081318	6081318-BLK1	08/08/06 18:06

Purgeable Petroleum Hydrocarbons

6081224-BLK1

Gasoline Range Organics	<50.0		ug/L	6081224	6081224-BLK1	08/09/06 04:28
Surrogate: 1,2-Dichloroethane-d4	97%			6081224	6081224-BLK1	08/09/06 04:28
Surrogate: Dibromofluoromethane	92%			6081224	6081224-BLK1	08/09/06 04:28
Surrogate: Toluene-d8	100%			6081224	6081224-BLK1	08/09/06 04:28
Surrogate: 4-Bromofluorobenzene	99%			6081224	6081224-BLK1	08/09/06 04:28

6081318-BLK1

Gasoline Range Organics	<50.0		ug/L	6081318	6081318-BLK1	08/08/06 18:06
Surrogate: 1,2-Dichloroethane-d4	101%			6081318	6081318-BLK1	08/08/06 18:06
Surrogate: Dibromofluoromethane	91%			6081318	6081318-BLK1	08/08/06 18:06
Surrogate: Toluene-d8	97%			6081318	6081318-BLK1	08/08/06 18:06
Surrogate: 4-Bromofluorobenzene	98%			6081318	6081318-BLK1	08/08/06 18:06

Client Delta Env. Consultants (San Jose) / SHELL (13653)  
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 San Jose, CA 95119  
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Work Order: NPG3819  
 Project Name: 809 E Stanley Blvd., Livermore, CA  
 Project Number: SAP 135442  
 Received: 07/29/06 08:00

PROJECT QUALITY CONTROL DATA  
 LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
<b>Selected Volatile Organic Compounds by EPA Method 8260B</b>								
<b>6081224-BS1</b>								
Benzene	50.0	51.8		ug/L	104%	79 - 123	6081224	08/09/06 03:38
Ethylbenzene	50.0	50.5		ug/L	101%	79 - 125	6081224	08/09/06 03:38
Methyl tert-Butyl Ether	50.0	44.7		ug/L	89%	66 - 142	6081224	08/09/06 03:38
Toluene	50.0	51.0		ug/L	102%	78 - 122	6081224	08/09/06 03:38
Xylenes, total	150	147		ug/L	98%	79 - 130	6081224	08/09/06 03:38
Surrogate: 1,2-Dichloroethane-d4	50.0	50.4			101%	70 - 130	6081224	08/09/06 03:38
Surrogate: Dibromofluoromethane	50.0	48.6			97%	79 - 122	6081224	08/09/06 03:38
Surrogate: Toluene-d8	50.0	50.4			101%	78 - 121	6081224	08/09/06 03:38
Surrogate: 4-Bromofluorobenzene	50.0	47.0			94%	78 - 126	6081224	08/09/06 03:38
<b>6081318-BS1</b>								
Benzene	50.0	55.3		ug/L	111%	79 - 123	6081318	08/08/06 16:52
Ethylbenzene	50.0	56.8		ug/L	114%	79 - 125	6081318	08/08/06 16:52
Methyl tert-Butyl Ether	50.0	55.0		ug/L	110%	66 - 142	6081318	08/08/06 16:52
Toluene	50.0	56.4		ug/L	113%	78 - 122	6081318	08/08/06 16:52
Xylenes, total	150	167		ug/L	111%	79 - 130	6081318	08/08/06 16:52
Surrogate: 1,2-Dichloroethane-d4	50.0	52.8			106%	70 - 130	6081318	08/08/06 16:52
Surrogate: Dibromofluoromethane	50.0	49.5			99%	79 - 122	6081318	08/08/06 16:52
Surrogate: Toluene-d8	50.0	49.3			99%	78 - 121	6081318	08/08/06 16:52
Surrogate: 4-Bromofluorobenzene	50.0	49.5			99%	78 - 126	6081318	08/08/06 16:52
<b>Purgeable Petroleum Hydrocarbons</b>								
<b>6081224-BS1</b>								
Gasoline Range Organics	3050	3000		ug/L	98%	67 - 130	6081224	08/09/06 03:38
Surrogate: 1,2-Dichloroethane-d4	50.0	50.4			101%	70 - 130	6081224	08/09/06 03:38
Surrogate: Dibromofluoromethane	50.0	48.6			97%	70 - 130	6081224	08/09/06 03:38
Surrogate: Toluene-d8	50.0	50.4			101%	70 - 130	6081224	08/09/06 03:38
Surrogate: 4-Bromofluorobenzene	50.0	47.0			94%	70 - 130	6081224	08/09/06 03:38
<b>6081318-BS1</b>								
Gasoline Range Organics	3050	3710		ug/L	122%	67 - 130	6081318	08/08/06 16:52
Surrogate: 1,2-Dichloroethane-d4	50.0	52.8			106%	70 - 130	6081318	08/08/06 16:52
Surrogate: Dibromofluoromethane	50.0	49.5			99%	70 - 130	6081318	08/08/06 16:52
Surrogate: Toluene-d8	50.0	49.3			99%	70 - 130	6081318	08/08/06 16:52
Surrogate: 4-Bromofluorobenzene	50.0	49.5			99%	70 - 130	6081318	08/08/06 16:52

Client Delta Env. Consultants (San Jose) / SHELL (13653)  
 175 Bernal Rd., Suite 200  
 San Jose, CA 95119  
 Attn Justin Link

Work Order: NPG3819  
 Project Name: 809 E Stanley Blvd., Livermore, CA  
 Project Number: SAP 135442  
 Received: 07/29/06 08:00

### CERTIFICATION SUMMARY

TestAmerica - Nashville, TN

Method	Matrix	AIHA	Nelac	California
CA LUFT GC/MS	Water			X
NA	Water			
SW846 8260B	Water	N/A	X	X

---

Client Delta Env. Consultants (San Jose) / SHELL (13653)  
175 Bernal Rd., Suite 200  
San Jose, CA 95119  
Attn Justin Link

Work Order: NPG3819  
Project Name: 809 E Stanley Blvd., Livermore, CA  
Project Number: SAP 135442  
Received: 07/29/06 08:00

---

## NELAC CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville does not hold NELAC certifications for the following analytes included in this report

Method

CA LUFT GC/MS

Matrix

Water

Analyte

Gasoline Range Organics



Nashville Division  
COOLER RECEIPT FORM



BC#

NPG3819

Cooler Received/Opened On: July 29, 2006 @ 08:00

1. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below: 9100

Fed-Ex  UPS  Velocity  DHL  Route  Off-street  Misc.

2. Temperature of representative sample or temperature blank when opened: -0.2 Degrees Celsius (indicate IR Gun ID#)

NA A00466 A00750  A01124 100190 101282 Raynger ST

3. Were custody seals on outside of cooler?.....  YES...NO...NA

a. If yes, how many and where: 2 - FRONT

4. Were the seals intact, signed, and dated correctly?.....  YES...NO...NA

5. Were custody papers inside cooler?.....  YES...NO...NA

I certify that I opened the cooler and answered questions 1-5 (initial)..... RL

6. Were custody seals on containers: YES  NO  and Intact YES  NO  NA

were these signed, and dated correctly?..... YES...NO...NA

7. What kind of packing material used? Bubblewrap Peanuts Vermiculite Foam Insert

Plastic bag  Paper  Other \_\_\_\_\_  None

8. Cooling process:  Ice  Ice-pack  Ice (direct contact)  Dry Ice  Other  None

9. Did all containers arrive in good condition (unbroken)?.....  YES...NO...NA

10. Were all container labels complete (#, date, signed, pres., etc)?.....  YES...NO...NA

11. Did all container labels and tags agree with custody papers?.....  YES...NO...NA

12. a. Were VOA vials received?.....  YES...NO...NA

b. Was there any observable head space present in any VOA vial?.....  YES...NO...NA

I certify that I unloaded the cooler and answered questions 6-12 (initial)..... JL

13. a. On preserved bottles did the pH test strips suggest that preservation reached the correct pH level? YES...NO... NA

b. Did the bottle labels indicate that the correct preservatives were used.....  YES...NO...NA

If preservation in-house was needed, record standard ID of preservative used here \_\_\_\_\_

14. Was residual chlorine present?..... YES...NO... NA

I certify that I checked for chlorine and pH as per SOP and answered questions 13-14 (initial)..... JL

15. Were custody papers properly filled out (ink, signed, etc)?.....  YES...NO...NA

16. Did you sign the custody papers in the appropriate place?.....  YES...NO...NA

17. Were correct containers used for the analysis requested?.....  YES...NO...NA

18. Was sufficient amount of sample sent in each container?.....  YES...NO...NA

I certify that I entered this project into LIMS and answered questions 15-18 (initial)..... SR

I certify that I attached a label with the unique LIMS number to each container (initial)..... JL

19. Were there Non-Conformance issues at login YES  NO  Was a PIPE generated YES  NO  # \_\_\_\_\_

BIS = Broken in shipment  
Cooler Receipt Form



# SHELL Chain Of Custody Record

- TA - Irvine, California
- TA - Morgan Hill, California
- TA - Sacramento, California
- TA - Nashville, Tennessee
- Calscience
- Other \_\_\_\_\_

NAME OF PERSON TO BILL: Denis Brown

ENVIRONMENTAL SERVICES

NETWORK DEV / FE

COMPLIANCE

BILL CONSULTANT

RMT/CRMT

CHECK BOX TO VERIFY IF NO INCIDENT # APPLIES

INCIDENT # (ES ONLY)

9 7 4 6 1 9 6 4

DATE: 7/26/06

PAGE: 1 of 1

SAMPLING COMPANY:

Blaine Tech Services

LOG CODE:

BTSS

SITE ADDRESS: Street and City

809 E. Stanley Blvd., Livermore

State

CA

GLOBAL ID NO.:

T0600101276

ADDRESS:  
1680 Rogers Avenue, San Jose, CA 95112

EDF DELIVERABLE TO (Name, Company, Office Location):

Justin Link, Delta, San Jose Office

PHONE NO.:

(408) 826-1865

E-MAIL:

jlink@deltaenv.com

CONSULTANT PROJECT NO.:

860726-002

BTS #

PROJECT CONTACT (Hardcopy or PDF Report to):

Michael Ninokata

TELEPHONE:

408-573-0555

FAX:

408-573-7771

E-MAIL:

mninokata@blainetech.com

SAMPLER NAME(S) (Print):

Will Crow / Chris Green

LAB USE ONLY

TAT (STD IS 10 BUSINESS DAYS / RUSH IS CALENDAR DAYS):  
 5FD  5 DAY  3 DAY  2 DAY  24 HOURS

RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:

- EDD NOT NEEDED
- SHELL CONTRACT RATE APPLIES
- STATE REIMB RATE APPLIES
- RECEIPT VERIFICATION REQUESTED

NPG3819

08/14/06 23:59

## REQUESTED ANALYSIS

## 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, Purgeable (8260B)	TPH - Diesel, Extractable (8015M)	BTEX (8260B)	6 Oxygenates (8260B) (MTBE, TBA, DIPE, TAME, ETBE)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH-motor oil (8015M)	TDS (160.1)	Total Iron (8010B)	Total Lead (8010B)	Total Oil and Grease (1664A)	
		DATE	TIME																					
	MW-1	7/26/06	1040	H <sub>2</sub> O	3#e1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	MW-2		0926			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	MW-3		0832			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	MW-4		1010			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Relinquished by: (Signature) *[Signature]*

Relinquished by: (Signature) *[Signature]*

Relinquished by: (Signature) *[Signature]*

Received by: (Signature) *[Signature]*

Received by: (Signature) *[Signature]*

Received by: (Signature) *[Signature]*

Date: 7/26/06 Time: 1713

Date: 7-27-06 Time: 1015

Date: 7-27-06 Time: 1740

Receiv... (cont) 7/28/06 T345 7-29-06 8:00 -0.20C



**PROBLEM CHAIN-OF-CUSTODY**

DATE/TIME 7/27/06 1740  
CLIENT STELL  
CLIENT SERVICES REP \_\_\_\_\_

DATE RECEIVED 7/27/06  
TURN AROUND TIME SD  
ANALYST EH

**PROBLEM**

THERE WERENT ANY SAMPLES RECEIVED  
FOR C.O.C 97461964

MISSING SAMPLES	WW-1	7/26	1040
	WW-2		936
	WW-3		852
	WW-4	↓	1010

FOR A TOTAL OF 12 VOAS / HEL

called 7/28/06, 0755

**RESOLUTION**

Client Instruction\* Wrong <sup>SD</sup> incident number (97306796) was written on bottles.  
This is the proper (97461964) incident number for these samples.

Telephone Number of Client: (408) 573-0555

Client Contact for Instruction: Michael Ninkata

Date and Time of Instruction: 7/28/06, 0830

Date & Time Form Given to Sample Control: 7/28/06, 0835

CLIENT SERVICES REP. SIGNATURE: Dyler Clark

DATE/TIME: 7/28/06, 0830

\*If client does not return call within 24 hours, please route this form to the Laboratory Director.

**PROBLEM CHAIN-OF-CUSTODY**

DATE/TIME 7/27/06 1740  
CLIENT SHELL  
CLIENT SERVICES REP \_\_\_\_\_

DATE RECEIVED 7/27/06  
TURN AROUND TIME ?  
ANALYST EA

**PROBLEM**

DIDN'T RECEIVE A C.O.C FOR

<u>SAMPLES</u>	<u>97306796</u>	<u>MW-1</u>	<u>1040</u>	<u>7/26</u>	<u>/REC</u>
		<u>MW-2</u>	<u>936</u>		
		<u>MW-3</u>	<u>852</u>		
		<u>MW-4</u>	<u>1016</u>		

called 7/28/06, 0755

**RESOLUTION**

Client Instruction\* see attached problem coc (bottles were marked with wrong incident #, should have been 97461964).

Telephone Number of Client: (408) 573-0555

Client Contact for Instruction: Michael Ninkata

Date and Time of Instruction: 7/28/06, 0830

Date & Time Form Given to Sample Control: 7/28/06, 0835

CLIENT SERVICES REP. SIGNATURE: Douglas Clark  
DATE/TIME: 7/28/06, 0830

\*If client does not return call within 24 hours, please route this form to the Laboratory Director.

# SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: STELL  
 REC. BY (PRINT) ET  
 WORKORDER: \_\_\_\_\_

DATE REC'D AT LAB: 7/27/06  
 TIME REC'D AT LAB: 1740  
 DATE LOGGED IN: \_\_\_\_\_

For Regulatory Purposes?  
 DRINKING WATER YES/NO  YES  NO  
 WASTE WATER YES/NO  YES  NO

CIRCLE THE APPROPRIATE RESPONSE	LAB	DASH	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
	SAMPLE #	#							
1. Custody Seal(s) Present / Absent Intact / Broken*			MW-1	SUGAR	HEC		L	7/27	
2. Chain-of-Custody Present / Absent*			WW-2	↓	↓	↓	↓	↓	
3. Traffic Reports or Packing List: Present / Absent			-3	↓	↓	↓	↓	↓	
4. Airbill: Airbill / Sticker Present / Absent			-4						
5. Airbill #:									
6. Sample Labels: Present / Absent									
7. Sample IDs: Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / No*									
10. Sample received within hold time? Yes / No*									
11. Adequate sample volume received? Yes / No*									
12. Proper preservatives used? Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No									
14. Read Temp: <u>3.8</u> Corrected Temp: <u>    </u> Is corrected temp 4 +/-2°C? Yes / No**									

7/27/06 ET

\*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.





## SHELL WELL MONITORING DATA SHEET

BTS #: <u>060726-WC-1</u>	Site: <u>809 E. Stanley Blvd, Livermore CA</u>
Sampler: <u>WC</u>	Date: <u>7/20/00</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): <u>47.92</u>	Depth to Water (DTW): <u>19.51</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>25.19</u>	

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

$\underline{4.5} \text{ (Gals.)} \times \underline{3} = \underline{13.5} \text{ Gals.}$ 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 $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1023	68.7	7.3	516	>1000	4.5	Brown
1029	67.6	7.2	516	721	9	Brown/cloudy
1035	68.2	7.2	519	721	13.5	

Did well dewater? Yes  No  Gallons actually evacuated: 13.5

Sampling Date: MW-1 7/20/00 Sampling Time: 1040 Depth to Water: 19.26

Sample I.D.: MW-1 Laboratory: STL Other: TA

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

*[Handwritten signature]*







### SHELL WELL MONITORING DATA SHEET

BTS #: <u>060726-WC-1</u>	Site: <u>809 E. Stanley Blvd, Livermore</u>
Sampler: <u>WC</u>	Date: <u>7/26/00</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): <u>47.92</u>	Depth to Water (DTW): <u>20.55</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>26.02</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: \_\_\_\_\_

<u>4.4</u> (Gals.) X	<u>3</u>	=	<u>13.2</u> Gals.
1 Case Volume	Specified Volumes		Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
<u>0953</u>	<u>68.0</u>	<u>7.1</u>	<u>525</u>	<u>262</u>	<u>4.4</u>	
<u>0959</u>	<u>67.7</u>	<u>7.1</u>	<u>525</u>	<u>72</u>	<u>8.8</u>	
<u>1004</u>	<u>67.4</u>	<u>7.1</u>	<u>523</u>	<u>53</u>	<u>13.2</u>	

Did well dewater? Yes  No  Gallons actually evacuated: 13.2

Sampling Date: 7/26/00 Sampling Time: 1010 Depth to Water: 20.69

Sample I.D.: MW-4 Laboratory: STL Other: TA

Analyzed for:  TPH-G  HTEX  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