



Shell Oil Products US

March 7, 2005

RECEIVED

By loprojectop at 9:14 am, Mar 09, 2006

**Re: Former Shell-branded Service Station
1155 Portola Avenue
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", with a long horizontal flourish extending to the right.

Denis L. Brown
Project Manager



Solving environment-related business problems worldwide

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175 Bernal Road • Suite 200
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800.477.7411
Fax: 408.225.8506

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By Iopprojectop at 9:15 am, Mar 09, 2006

March 7, 2006
Project No. SJ11-55P-1
SAP: 135441

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

Re: **Quarterly Monitoring Report – Third and Fourth Quarter 2005**
Shell-branded Service Station
1155 Portola Avenue
Livermore, California

Dear Mr. Wickham:

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared the following groundwater monitoring and sampling report for third and fourth quarter 2005 for the above referenced site. Groundwater sampling was performed by Blaine Tech Services (Blaine) at the direction of Delta. A site location map is included as Figure 1.

BACKGROUND

In October 2002, KHM Environmental Management, Inc. (now Delta) supervised the installation of Wells MW-1 through MW-4 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 June 2003 based on detections of methyl tert-butyl ether (MTBE) in groundwater

A member of:



Shell subsequently received a notice of responsibility letter dated July 10, 2003 from the Alameda County Health Care Services Agency (ACHCSA) placing the site in the Local Oversight Program.

QUARTERLY GROUND WATER MONITORING PROGRAM

Groundwater monitoring wells were gauged and sampled by Blaine on September 19 and December 7, 2005. Depth to groundwater was measured in Wells MW-1 through MW-4 on both events. Groundwater elevation data and contours are presented on Figures 2 and 3.

Quarterly groundwater samples were collected from Wells MW-1 through MW-4. Samples collected on September 19, 2005 were submitted by Blaine to Severn Trent Laboratories, Inc. in Pleasanton, California and samples collected on December 7, 2005 were submitted by Blaine to Sequoia Analytical in Morgan Hill, California. The samples were analyzed for total purgeable petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds); MTBE, and tertiary butyl alcohol (TBA) by EPA Method 8260B. Benzene, MTBE, and TBA concentrations are presented on Figures 4 and 5.

Blaine's groundwater monitoring and sampling reports, which includes historical and current groundwater elevation data, historical and current analytical results, and field data records for the third and fourth quarter monitoring events, are included as Attachment A.

DISCUSSION

Depth to groundwater at the site typically fluctuates by about 10 feet annually. Depth to groundwater increased by an average of 4.1 feet in site wells during third quarter. Depth to groundwater decreased by an average of 1.49 feet during fourth quarter. The groundwater gradient on September 19, 2005 was towards the west at a magnitude less than 0.01 ft/ft. The groundwater gradient on December 29, 2005 was towards the southwest at a magnitude of 0.01 ft/ft. The groundwater gradient at the site has ranged between northwest and south-southwest since fourth quarter 2002 (initial gauging event).

Concentrations of MTBE continue to decrease in site wells. During both monitoring events, MTBE was only detected in Wells MW-1 and MW-2 at concentrations ranging from 0.56 and 8.6 ug/l. Xylenes were detected in Well MW-3 for the second time at a concentration of 0.54 ug/l, just above the laboratory reporting limit of 0.5 ug/l. All other analytes tested were below laboratory detection limits during both events.

Based on consistently decreasing and stable groundwater concentrations, Shell proposes to reduce the monitoring and sampling frequency at the site from quarterly to semi-annual pending submittal of a case closure report to the Alameda County Health Care Services Agency.


REMARKS

The information and recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

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

Sincerely,

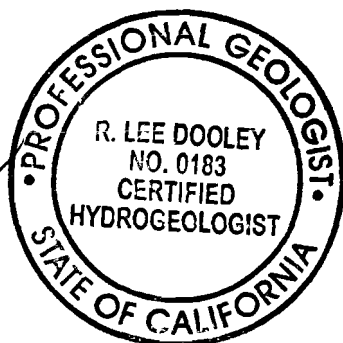
Delta Environmental Consultants, Inc.



Heather Buckingham
Senior Staff Geologist

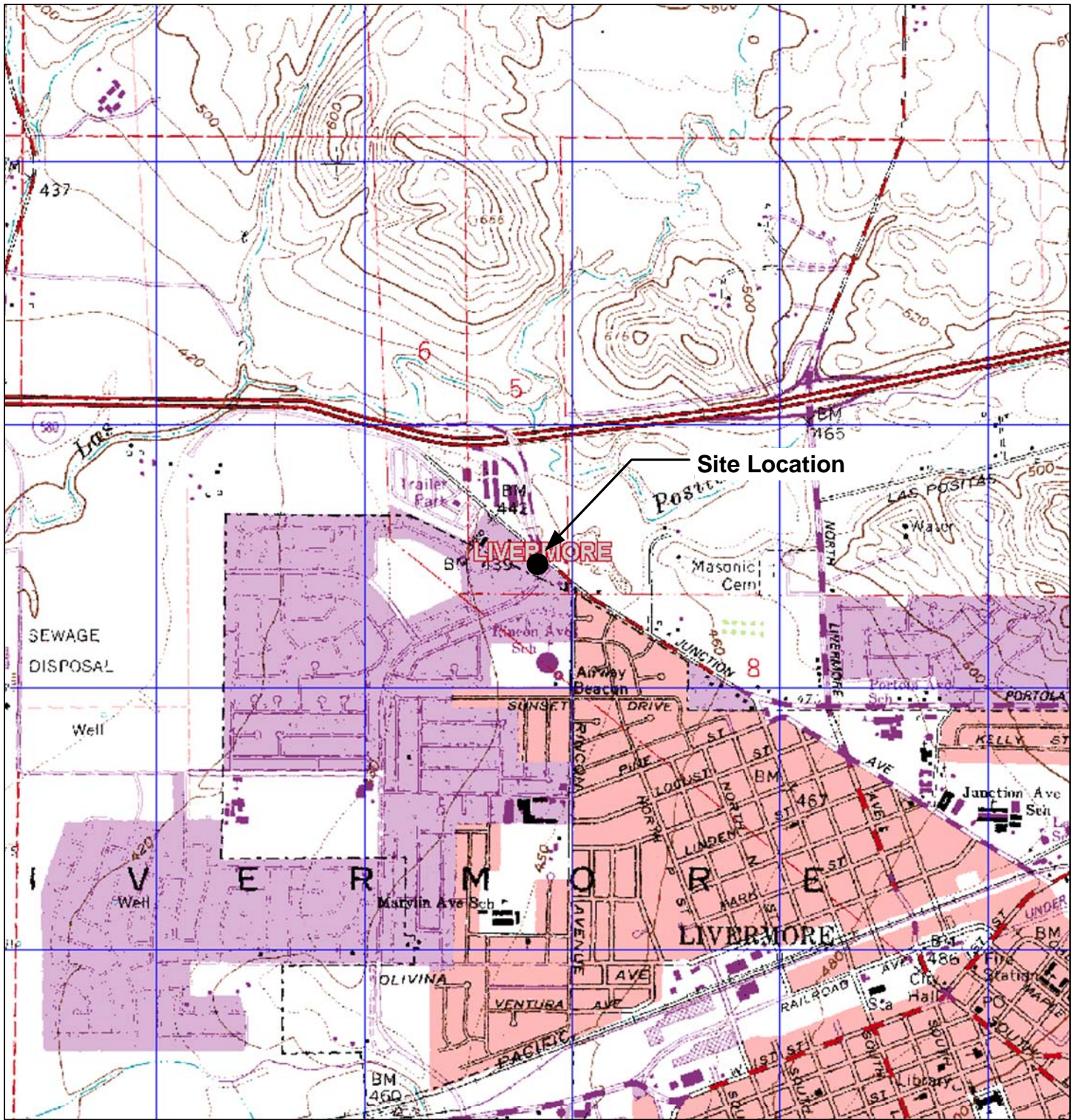


Lee Dooley
Senior Hydrogeologist
CHG 0183

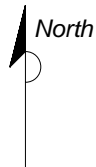


- Attachments:
- Figure 1 – Site Location Map
 - Figure 2 – Groundwater Elevation Contour Map, September 19, 2005
 - Figure 3 – Groundwater Elevation Contour Map, December 7, 2005
 - Figure 4 – Benzene, MTBE, and TBA Concentration Map, September 19, 2005
 - Figure 5 – Benzene, MTBE, and TBA Concentration Map, December 7, 2005
 - Attachment A – Groundwater Monitoring and Sampling Reports, December 29, 2005

cc: Denis Brown, Shell Oil Products US, Carson
Danielle Stefani, Livermore-Pleasanton Fire Department, Livermore
Terrell & Kimberley Bass, Danville



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



QUADRANGLE LOCATION

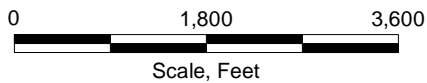
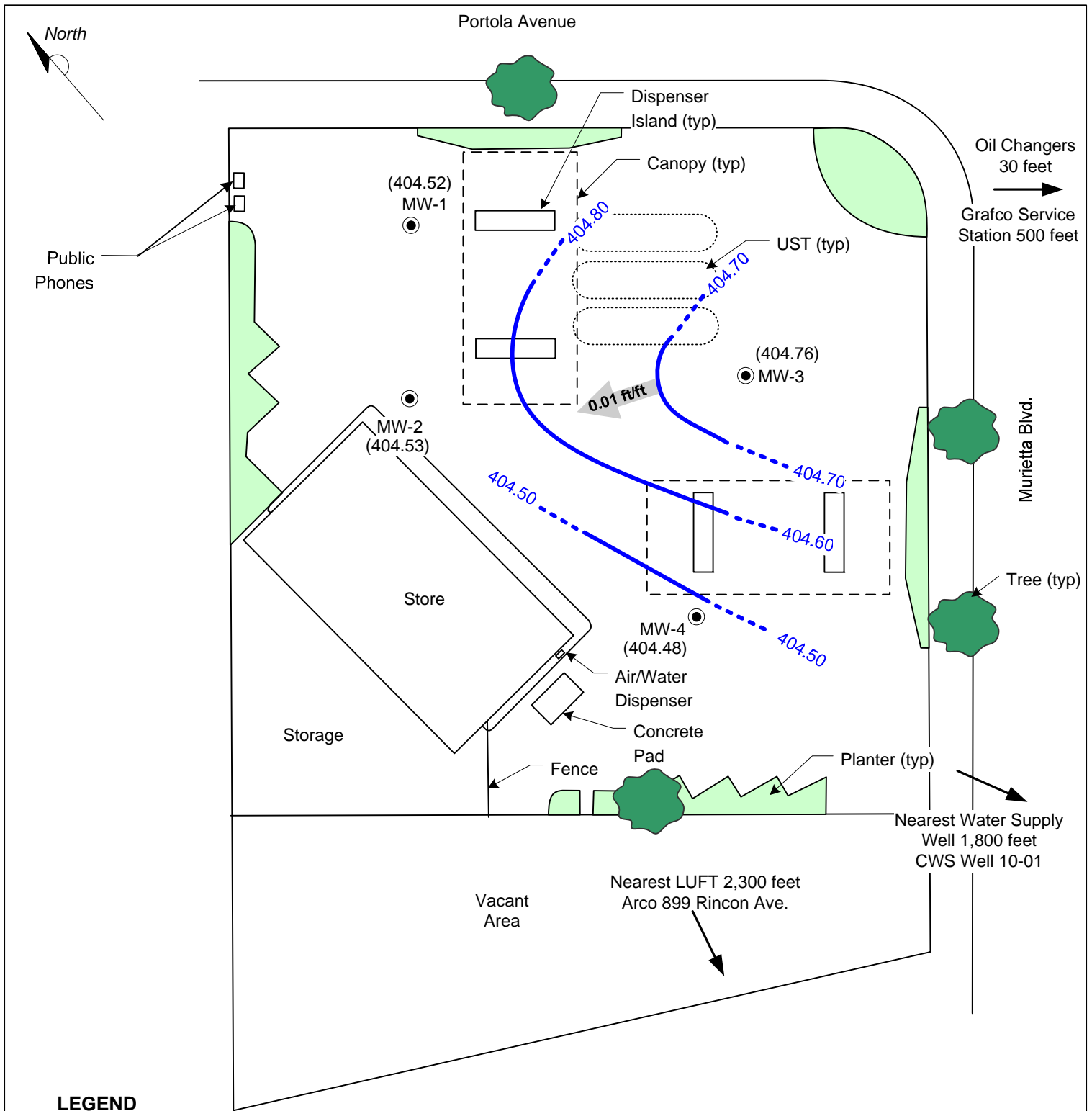


FIGURE 1
 SITE LOCATION MAP

SHELL-BRANDED SERVICE STATION
 1155 Portola Avenue
 Livermore, California

PROJECT NO. SJ11-55P-1.2005	DRAWN BY VF 10/22/03
FILE NO. SJ11-55P-1.2005	PREPARED BY VF
REVISION NO.	REVIEWED BY





LEGEND

- MW-4 ● **GROUNDWATER MONITORING WELL**
- (404.53) **GROUNDWATER ELEVATION (FEET - MSL), 09/19/05**
- 404.60 — **GROUNDWATER ELEVATION CONTOUR**
- ↙ 0.01 f/ft **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**

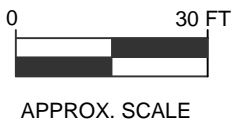
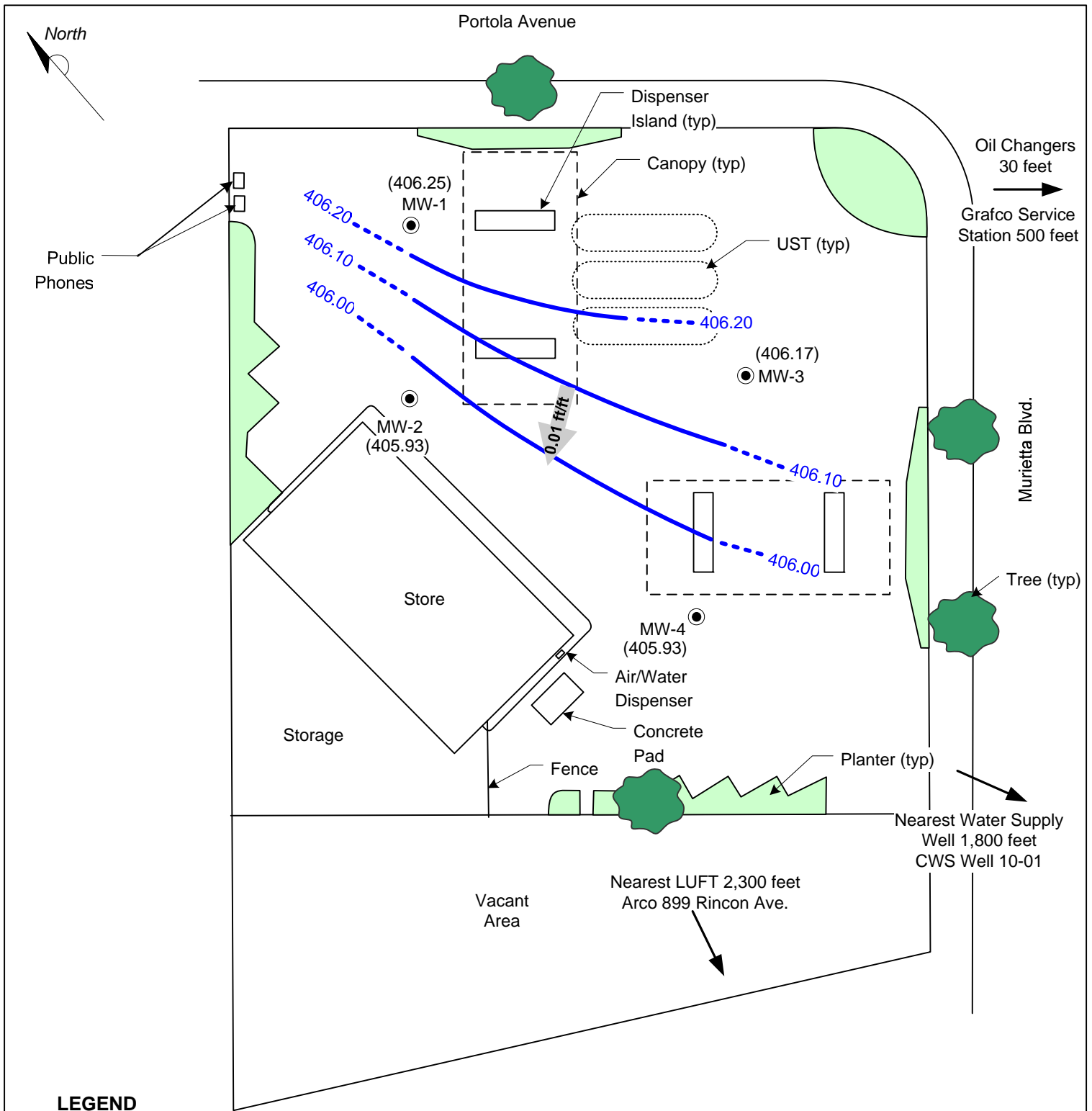


FIGURE 2
GROUNDWATER ELEVATION CONTOUR MAP,
 SEPTEMBER 19, 2005

SHELL-BRANDED SERVICE STATION
 1155 Portola Avenue
 Livermore, California

PROJECT NO. SJ11-55P-1.2005	DRAWN BY JL 11/14/05
FILE NO. SJ11-55P-1.2005	PREPARED BY JL
REVISION NO. 1	REVIEWED BY

Delta
 Environmental
 Consultants, Inc.



LEGEND

- MW-4 ● **GROUNDWATER MONITORING WELL**
- (4065.93) **GROUNDWATER ELEVATION (FEET - MSL), 12/29/05**
- 406.00 — **GROUNDWATER ELEVATION CONTOUR**
- ◁0.01 ft/ft **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**

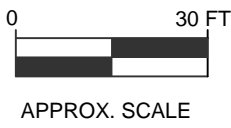
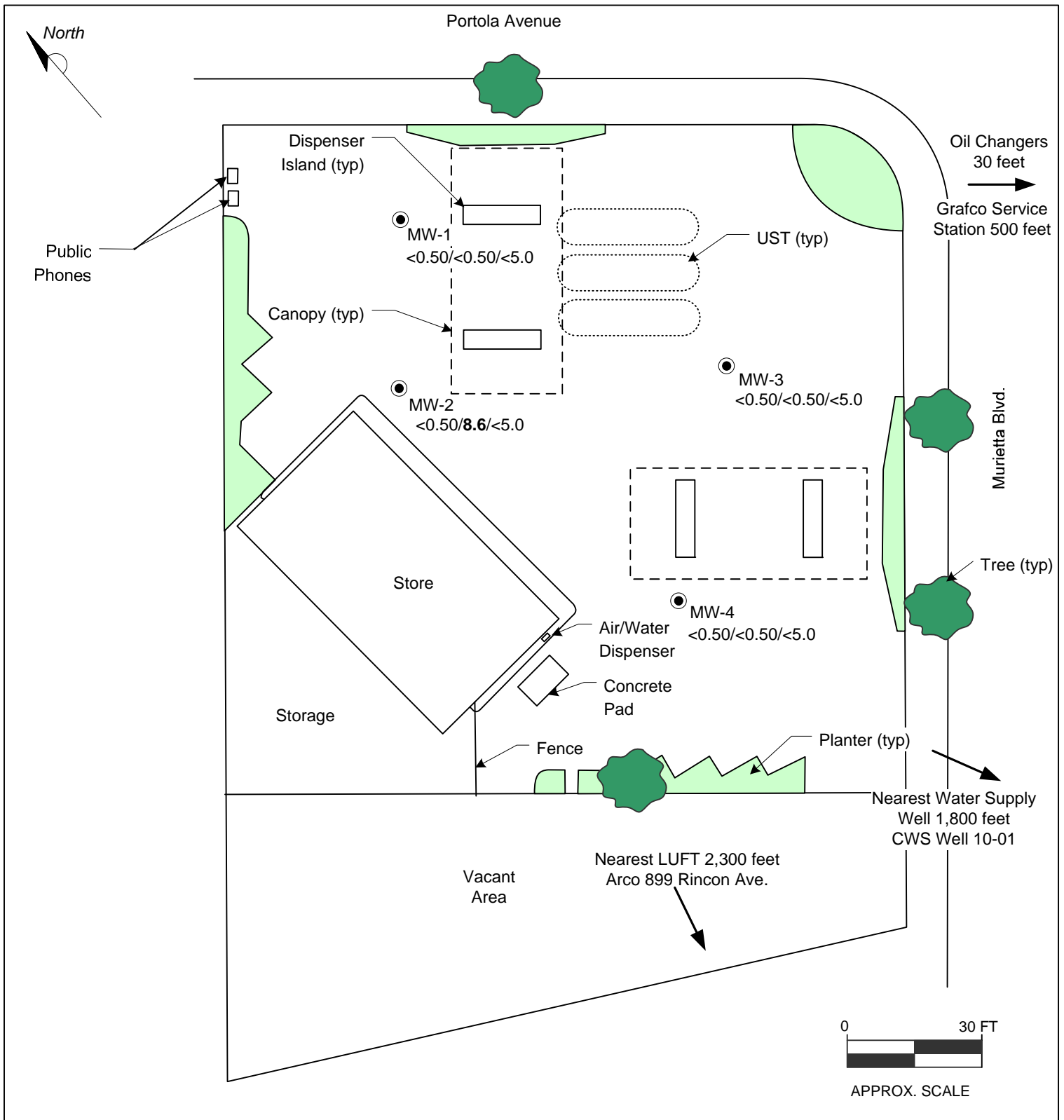


FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP,
 DECEMBER 29, 2005

SHELL-BRANDED SERVICE STATION
 1155 Portola Avenue
 Livermore, California

PROJECT NO. SJ11-55P-1.2005	DRAWN BY JL 01/11/06
FILE NO. SJ11-55P-1.2005	PREPARED BY JL
REVISION NO. 1	REVIEWED BY

Delta
Environmental
Consultants, Inc.



LEGEND

MW-4 ● **GROUNDWATER MONITORING WELL**

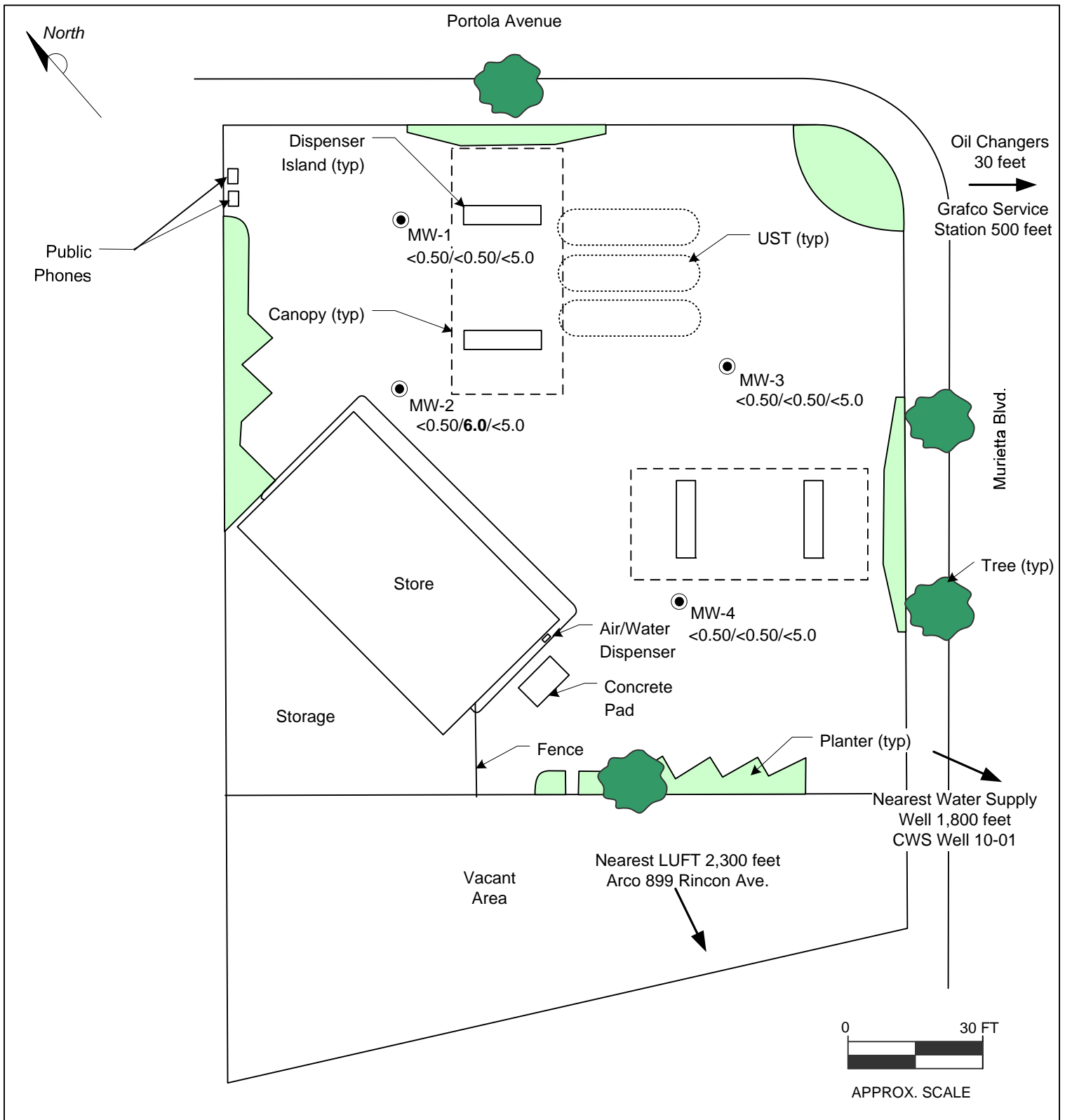
<0.50/8.6/<5.0 **BENZENE/MTBE/TBA CONCENTRATIONS (UG/L), 09/19/05**

FIGURE 4
BENZENE, MTBE, AND TBA CONCENTRATIONS MAP,
SEPTEMBER 19, 2005

SHELL-BRANDED SERVICE STATION
 1155 Portola Avenue
 Livermore, California

PROJECT NO. SJ11-55P-1.2005	DRAWN BY JL 11/14/05
FILE NO. SJ11-55P-1.2005	PREPARED BY JL
REVISION NO. 1	REVIEWED BY





LEGEND

MW-4 ● **GROUNDWATER MONITORING WELL**
 <0.50/6.0/<5.0 **BENZENE/MTBE/TBA CONCENTRATIONS (UG/L), 12/29/05**

FIGURE 5
BENZENE, MTBE, AND TBA CONCENTRATIONS MAP,
DECEMBER 29, 2005

SHELL-BRANDED SERVICE STATION
 1155 Portola Avenue
 Livermore, California

PROJECT NO. SJ11-55P-1.2005	DRAWN BY JL 01/11/06
FILE NO. SJ11-55P-1.2005	PREPARED BY JL
REVISION NO. 1	REVIEWED BY



Attachment A

GROUNDWATER MONITORING AND SAMPLING REPORTS



GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

December 29, 2005

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

Fourth Quarter 2005 Groundwater Monitoring at
Shell-branded Service Station
1155 Portola Avenue
Livermore, CA

Monitoring performed on December 7, 2005

Groundwater Monitoring Report **051207-DW-1**

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

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

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

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Mike Ninokata
Project Coordinator

MN/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
1155 Portola Avenue
Livermore, 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.)	Screened Interval (ft.)	GW Elevation (MSL)
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MW-1	12/05/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.12	40-59	NA
MW-1	12/20/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	78	<2.0	<2.0	<2.0	<50	NA	38.40	40-59	NA
MW-1	03/28/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	7.0	<2.0	<2.0	<2.0	<5.0	443.81	36.25	40-59	407.56
MW-1	06/26/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	1.4	<2.0	<2.0	<2.0	<5.0	443.81	39.53	40-59	404.28
MW-1	08/25/2003	64	NA	<0.50	<0.50	<0.50	<1.0	53	<2.0	<2.0	<2.0	<5.0	443.81	42.52	40-59	401.29
MW-1	12/09/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	443.81	36.84	40-59	406.97
MW-1	03/08/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	3.9	<2.0	<2.0	<2.0	<5.0	443.81	31.75	40-59	412.06
MW-1	06/07/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	0.91	<2.0	<2.0	<2.0	<5.0	443.81	38.24	40-59	405.57
MW-1	09/01/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	4.7	NA	NA	NA	NA	443.81	44.66	40-59	399.15
MW-1	12/23/2004	<50 c	NA	<0.50	2.3	1.4	3.6	<0.50	NA	NA	NA	NA	443.81	39.14	40-59	404.67
MW-1	02/28/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	0.54	NA	NA	NA	NA	443.81	32.95	40-59	410.86
MW-1	06/13/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	6.8	443.81	35.00	40-59	408.81
MW-1	09/19/2005	<50	NA	<0.50	<0.50	<0.50	1.2	<0.50	NA	NA	NA	<5.0	443.81	39.29	40-59	404.52
MW-1	12/07/2005	<50	NA	<0.50	<0.50	<0.50	0.56	<0.50	NA	NA	NA	<5.0	443.81	37.56	40-59	406.25

MW-2	12/05/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.57	40-60	NA
MW-2	12/20/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	190	<2.0	<2.0	<2.0	<50	NA	40.00	40-60	NA
MW-2	03/28/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	46	<2.0	<2.0	<2.0	<5.0	444.61	37.40	40-60	407.21
MW-2	06/26/2003	<500	<50	<5.0	<5.0	<5.0	<10	330	<20	<20	<20	<50	444.61	40.51	40-60	404.10
MW-2	08/25/2003	<500	NA	<5.0	<5.0	<5.0	<10	400	<20	<20	<20	<50	444.61	43.38	40-60	401.23
MW-2	12/09/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	27	<2.0	<2.0	<2.0	<5.0	444.61	37.92	40-60	406.69
MW-2	03/08/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	444.61	33.40	40-60	411.21
MW-2	06/07/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	85	<2.0	<2.0	<2.0	<5.0	444.61	39.18	40-60	405.43
MW-2	09/01/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	140	NA	NA	NA	NA	444.61	45.03	40-60	399.58
MW-2	12/23/2004	<50	NA	<0.50	1.7	0.75	2.6	32	NA	NA	NA	NA	444.61	39.97	40-60	404.64
MW-2	02/28/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	0.74	NA	NA	NA	NA	444.61	34.20	40-60	410.41

WELL CONCENTRATIONS
Shell-branded Service Station
1155 Portola Avenue
Livermore, 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.)	Screened Interval (ft.)	GW Elevation (MSL)
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MW-2	06/13/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	6.0	444.61	36.00	40-60	408.61
MW-2	09/19/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	8.6	NA	NA	NA	<5.0	444.61	40.08	40-60	404.53
MW-2	12/07/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	6.0	NA	NA	NA	<5.0	444.61	38.68	40-60	405.93

MW-3	12/05/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.49	40-55	NA
MW-3	12/20/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	8.7	<2.0	<2.0	<2.0	<50	NA	36.00	40-55	NA
MW-3	03/28/2003	<50	56	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	443.84	36.47	40-55	407.37
MW-3	06/26/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	443.84	38.70	40-55	405.14
MW-3	08/25/2003	76 a	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	443.84	41.12	40-55	402.72
MW-3	12/09/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	443.84	37.27	40-55	406.57
MW-3	03/08/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	120	<2.0	<2.0	<2.0	<5.0	443.84	32.49	40-55	411.35
MW-3	06/07/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	74	<2.0	<2.0	<2.0	<5.0	443.84	37.75	40-55	406.09
MW-3	09/01/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	443.84	43.29	40-55	400.55
MW-3	12/23/2004	<50 c	NA	<0.50	2.3	1.5	4.3	<0.50	NA	NA	NA	NA	443.84	38.64	40-55	405.20
MW-3	02/28/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	443.84	33.70	40-55	410.14
MW-3	06/13/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	12	443.84	35.03	40-55	408.81
MW-3	09/19/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	<5.0	443.84	39.08	40-55	404.76
MW-3	12/07/2005	<50	NA	<0.50	<0.50	<0.50	0.54	<0.50	NA	NA	NA	<5.0	443.84	37.67	40-55	406.17

MW-4	12/05/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.45	41-61	NA
MW-4	12/20/2002	<50	61	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	40.61	41-61	NA
MW-4	03/28/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	444.18	37.16	41-61	407.02
MW-4	06/26/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	444.18	40.05	41-61	404.13
MW-4	08/25/2003	67 a	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	444.18	43.04	41-61	401.14
MW-4	12/09/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	444.18	37.62	41-61	406.56
MW-4	03/08/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	444.18	32.80	41-61	411.38

WELL CONCENTRATIONS
Shell-branded Service Station
1155 Portola Avenue
Livermore, 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.)	Screened Interval (ft.)	GW Elevation (MSL)
MW-4	06/07/2004	58 b	NA	0.82	1.2	<0.50	1.1	<0.50	<2.0	<2.0	<2.0	<5.0	444.18	38.94	41-61	405.24
MW-4	09/01/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	444.18	44.18	41-61	400.00
MW-4	12/23/2004	<50 c	NA	0.55	3.8	2.2	7.0	<0.50	NA	NA	NA	NA	444.18	39.83	41-61	404.35
MW-4	02/28/2005	<50 c	NA	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	444.18	34.01	41-61	410.17
MW-4	06/13/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	444.18	35.70	41-61	408.48
MW-4	09/19/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	<5.0	444.18	39.70	41-61	404.48
MW-4	12/07/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	<5.0	444.18	38.25	41-61	405.93

Abbreviations:

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

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

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

MTBE = Methyl tertiary butyl ether

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

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

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

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

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

WELL CONCENTRATIONS
Shell-branded Service Station
1155 Portola Avenue
Livermore, 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.)	Screened Interval (ft.)	GW Elevation (MSL)
----------------	-------------	-----------------------	-----------------------	--------------------	--------------------	--------------------	--------------------	--------------------------------------	-----------------------	-----------------------	-----------------------	----------------------	---------------------	--	---	--

Notes:

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

b = Sample contains discrete peak in addition to gasoline.

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

Site surveyed November 25, 2002 by Mid Coast Engineers.

Blaine Tech Services, Inc.

September 28, 2005

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 050919-BA2
Project: 97495539
Site: 1155 Portola Ave., Livermore

Dear Mr. Gearhart,

Attached is our report for your samples received on 09/20/2005 16:19
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after
11/04/2005 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

Sincerely,



Melissa Brewer
Project Manager

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 050919-BA2

97495539

Received: 09/20/2005 16:19

Site: 1155 Portola Ave., Livermore

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	09/19/2005 13:18	Water	1
MW-2	09/19/2005 12:53	Water	2
MW-3	09/19/2005 13:40	Water	3
MW-4	09/19/2005 12:25	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: 050919-BA2
97495539

Received: 09/20/2005 16:19

Site: 1155 Portola Ave., Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-1	Lab ID: 2005-09-0554 - 1
Sampled: 09/19/2005 13:18	Extracted: 9/23/2005 10:56
Matrix: Water	QC Batch#: 2005/09/23-1A.64
pH: <2	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	09/23/2005 10:56	.
Benzene	ND	0.50	ug/L	1.00	09/23/2005 10:56	
Toluene	ND	0.50	ug/L	1.00	09/23/2005 10:56	
Ethylbenzene	ND	0.50	ug/L	1.00	09/23/2005 10:56	
Total xylenes	1.2	1.0	ug/L	1.00	09/23/2005 10:56	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	09/23/2005 10:56	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	09/23/2005 10:56	
Surrogate(s)						
1,2-Dichloroethane-d4	96.8	73-130	%	1.00	09/23/2005 10:56	
Toluene-d8	105.0	81-114	%	1.00	09/23/2005 10:56	

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: 050919-BA2
97495539

Received: 09/20/2005 16:19

Site: 1155 Portola Ave., Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-2	Lab ID: 2005-09-0554 - 2
Sampled: 09/19/2005 12:53	Extracted: 9/23/2005 09:54
Matrix: Water	QC Batch#: 2005/09/23-1A.64
pH: <2	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	09/23/2005 09:54	
Benzene	ND	0.50	ug/L	1.00	09/23/2005 09:54	
Toluene	ND	0.50	ug/L	1.00	09/23/2005 09:54	
Ethylbenzene	ND	0.50	ug/L	1.00	09/23/2005 09:54	
Total xylenes	ND	1.0	ug/L	1.00	09/23/2005 09:54	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	09/23/2005 09:54	
Methyl tert-butyl ether (MTBE)	8.6	0.50	ug/L	1.00	09/23/2005 09:54	
Surrogate(s)						
1,2-Dichloroethane-d4	99.4	73-130	%	1.00	09/23/2005 09:54	
Toluene-d8	107.0	81-114	%	1.00	09/23/2005 09:54	

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: 050919-BA2
97495539

Received: 09/20/2005 16:19

Site: 1155 Portola Ave., Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-3	Lab ID: 2005-09-0554 - 3
Sampled: 09/19/2005 13:40	Extracted: 9/23/2005 11:17
Matrix: Water	QC Batch#: 2005/09/23-1A.64
pH: <2	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	09/23/2005 11:17	
Benzene	ND	0.50	ug/L	1.00	09/23/2005 11:17	
Toluene	ND	0.50	ug/L	1.00	09/23/2005 11:17	
Ethylbenzene	ND	0.50	ug/L	1.00	09/23/2005 11:17	
Total xylenes	ND	1.0	ug/L	1.00	09/23/2005 11:17	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	09/23/2005 11:17	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	09/23/2005 11:17	
Surrogate(s)						
1,2-Dichloroethane-d4	98.1	73-130	%	1.00	09/23/2005 11:17	
Toluene-d8	105.1	81-114	%	1.00	09/23/2005 11:17	

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: 050919-BA2
97495539

Received: 09/20/2005 16:19

Site: 1155 Portola Ave., Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-4	Lab ID: 2005-09-0554 - 4
Sampled: 09/19/2005 12:25	Extracted: 9/23/2005 11:38
Matrix: Water	QC Batch#: 2005/09/23-1A.64
pH: <2	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	09/23/2005 11:38	
Benzene	ND	0.50	ug/L	1.00	09/23/2005 11:38	
Toluene	ND	0.50	ug/L	1.00	09/23/2005 11:38	
Ethylbenzene	ND	0.50	ug/L	1.00	09/23/2005 11:38	
Total xylenes	ND	1.0	ug/L	1.00	09/23/2005 11:38	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	09/23/2005 11:38	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	09/23/2005 11:38	
Surrogate(s)						
1,2-Dichloroethane-d4	101.9	73-130	%	1.00	09/23/2005 11:38	
Toluene-d8	106.3	81-114	%	1.00	09/23/2005 11:38	

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: 050919-BA2
97495539

Received: 09/20/2005 16:19

Site: 1155 Portola Ave., Livermore

Batch QC Report

Prep(s): 5030B

Method Blank

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

Water

Test(s): 8260B

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

Date Extracted: 09/23/2005 09:14

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

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: 050919-BA2
97495539

Received: 09/20/2005 16:19

Site: 1155 Portola Ave., Livermore

Batch QC Report										
Prep(s): 5030B						Test(s): 8260B				
Laboratory Control Spike				Water			QC Batch # 2005/09/23-1A.64			
LCS	2005/09/23-1A.64-054			Extracted: 09/23/2005			Analyzed: 09/23/2005 08:54			
LCSD										

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

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 050919-BA2
97495539

Received: 09/20/2005 16:19

Site: 1155 Portola Ave., Livermore

Batch QC Report											
Prep(s): 5030B						Test(s): 8260B					
Matrix Spike (MS / MSD)				Water				QC Batch # 2005/09/23-1A.64			
MW-2 >> MS						Lab ID: 2005-09-0554 - 002					
MS: 2005/09/23-1A.64-015			Extracted: 09/23/2005			Analyzed: 09/23/2005 10:15			Dilution: 1.00		
MSD: 2005/09/23-1A.64-036			Extracted: 09/23/2005			Analyzed: 09/23/2005 10:36			Dilution: 1.00		

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	33.1	36.7	8.64	25	97.8	112.2	13.7	65-165	20		
Benzene	24.6	31.0	ND	25	98.4	124.0	23.0	69-129	20		R1
Toluene	25.2	30.9	ND	25	100.8	123.6	20.3	70-130	20		R1
Surrogate(s)											
1,2-Dichloroethane-d4	496	460		500	99.2	92.0		73-130			
Toluene-d8	534	536		500	106.8	107.2		81-114			

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 050919-BA2

97495539

Received: 09/20/2005 16:19

Site: 1155 Portola Ave., Livermore

Legend and Notes

Result Flag

.

-

R1

Analyte RPD was out of QC limits.

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

Denis Brown

2005-09-0554

INCIDENT NUMBER (S&E ONLY)

9 7 4 9 5 5 3 9

SAP or CRMT NUMBER (TS/CRMT)

99727

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services		LOG CODE: BTSS	SITE ADDRESS (Street and City): 1155 Portola Ave., Livermore		GLOBAL ID NO.: T0600194367
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112		EDF DELIVERABLE TO (Responsible Party or Designee): Heather Buckingham		PHONE NO.: (408)224-4724	E-MAIL: hbuckingham@deltaenv.com
PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart		SAMPLER NAME(S) (Print): Brian Alcom		LAB USE ONLY	
TELEPHONE: 408-573-0555	FAX: 408-573-7771	E-MAIL: lgearhart@blainetech.com		CONSULTANT PROJECT NO.: 050919-BA2 BTS #	

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 EDD IS NOT NEEDED

REQUESTED ANALYSIS

FIELD NOTES:

Container/Preservative
or PID Readings
or Laboratory Notes

TEMPERATURE ON RECEIPT °C 2

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	TBA
	DATE	TIME										
	MW-1	9/19	1318	W	3	X	X	X	X			
	MW-2		1253			X	X	X	X			
	MW-3		1340			X	X	X	X			
	MW-4		1225			X	X	X	X			

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i> Sample Custodian	Date: 9/19/05	Time: 1552
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 9/20/05	Time: 1619
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 9/20/05	Time: 1805

WELLHEAD INSPECTION CHECKLIST

Date 9/19/05 Client Shell

Site Address 1155 Portola Ave, Livermore

Job Number 050919-BAZ Technician Brian Alcom

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1	X							
MW-2		2 of 2 tabs stripped						
MW-3	X							
MW-4	X							

NOTES: _____

WELL GAUGING DATA

Project # 050919-BAZ Date 9/19/05 Client Shell

Site 1155 Portola Ave, Livermore

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	2					39.29	58.96	TOC
MW-2	2					40.08	59.11	↓ ↓ ↓ ↓
MW-3	2					39.08	54.13	
MW-4	2					39.70	58.98	

SHELL WELL MONITORING DATA SHEET

BTS #: <u>050919-BAZ</u>	Site: <u>1155 Portola Ave, Livermore</u>
Sampler: <u>Brian Alcom</u>	Date: <u>9/19/05</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth (TD): <u>58.96</u>	Depth to Water (DTW): <u>39.29</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]: <u>43.22</u>	

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

$\underline{3.2} \text{ (Gals.)} \times \underline{3} = \underline{9.6} \text{ Gals.}$ 1 Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 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 ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1308	70.6	7.2	892	>1,000	3.2	cloudy, no brown, odor
1311	70.0	7.2	895	>1,000	6.4	" "
1315	70.2	7.2	901	>1,000	9.6	" "

Did well dewater? Yes No Gallons actually evacuated: 9.6

Sampling Date: 9/19/05 Sampling Time: 1318 Depth to Water: 40.44

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

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

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 #: 050919-BAZ	Site: 1155 Portola Ave, Livermore
Sampler: Brian Alcom	Date: 9/19/05
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 59.11	Depth to Water (DTW): 40.08
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]: 43.88	

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

$3.1 \text{ (Gals.)} \times 3 = 9.3 \text{ Gals.}$ Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 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 ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
1241	72.2	7.2	917	>1,000	3.1	cloudy, no brown, odor
1245	70.9	7.1	923	>1,000	6.2	" "
1250	70.9	7.1	921	547	9.3	" "

Did well dewater? Yes No Gallons actually evacuated: 9.3

Sampling Date: 9/19/05 Sampling Time: 1248/1253 Depth to Water: 42.30

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

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

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 #: 050919-BAZ	Site: 1155 Portola Ave., Livermore
Sampler: Brian Alcom	Date: 9/13/05
Well I.D.: MW-3	Well Diameter: (3) 3 4 6 8
Total Well Depth (TD): 54.13	Depth to Water (DTW): 39.08
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]: 42.09	

Purge Method: Bailer	Watrera	Sampling Method: (Bailer)
Disposable Bailer	Peristaltic	Disposable Bailer
(Positive Air Displacement)	Extraction Pump	Extraction Port
Electric Submersible	Other _____	Dedicated Tubing
Other: _____		

2.4 (Gals.) X	3	=	7.2 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 ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (S))	Turbidity (NTUs)	Gals. Removed	Observations
1331	73.0	7.2	957	>1,000	2.4	cloudy no brown, odor
1334	72.2	7.1	986	>1,000	4.8	" "
1337	72.1	7.1	981	>1,000	7.2	" "

Did well dewater? Yes (No)	Gallons actually evacuated: 7.2	
Sampling Date: 9/19/05	Sampling Time: 1340	Depth to Water: 39.65
Sample I.D.: MW-3	Laboratory: (STL)	Other: _____
Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D	Other: TBA	
EB I.D. (if applicable): @	Duplicate I.D. (if applicable):	
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: _____	
D.O. (if req'd): Pre-purge:	mg/L	Post-purge: mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge: mV

SHELL WELL MONITORING DATA SHEET

BTS #: <u>050919-BAZ</u>	Site: <u>1155 Portola Ave, Livermore</u>
Sampler: <u>Brian Alcom</u>	Date: <u>9/19/05</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>(2) 3 4 6 8</u>
Total Well Depth (TD): <u>58.98</u>	Depth to Water (DTW): <u>39.70</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>43.55</u>	

Purge Method: <u>Bailer</u> Disposable Bailer <u>Positive Air Displacement</u> Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: <u>(Bailer)</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
--	--	--

3.1 (Gals.) X 3 = 9.3 Gals.
 I 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 ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
<u>1210</u>	<u>76.4</u>	<u>7.6</u>	<u>1,099</u>	<u>>1,000</u>	<u>3.1</u>	<u>cloudy no brown, odor</u>
<u>1215</u>	<u>74.5</u>	<u>7.5</u>	<u>1,091</u>	<u>998</u>	<u>6.2</u>	" "
<u>1219</u>	<u>73.4</u>	<u>7.5</u>	<u>1,094</u>	<u>725</u>	<u>9.3</u>	" "

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>9.3</u>	
Sampling Date: <u>9/19/05</u>	Sampling Time: <u>1225</u>	Depth to Water: <u>39.80</u>
Sample I.D.: <u>MW-4</u>	Laboratory: <u>(STL)</u>	Other: _____
Analyzed for: <u>(TPH-G)</u> <u>(BTEX)</u> <u>(MTBE)</u> TPH-D	Other: <u>TRA</u>	
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



27 December, 2005

Michael Ninokata
Blaine Tech Services - San Jose (Shell)
1680 Rogers Avenue
San Jose, CA 95112

RE: 1155 Portola Ave., Livermore
Work Order: MOL0453

Enclosed are the results of analyses for samples received by the laboratory on 12/08/05 13:34. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Theresa Allen
Project Manager

CA ELAP Certificate #1210

Blaine Tech Services - San Jose (Shell) 1680 Rogers Avenue San Jose CA, 95112	Project:1155 Portola Ave., Livermore Project Number:051207-DW1 Project Manager:Michael Ninokata	MOL0453 Reported: 12/27/05 12:05
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MOL0453-01	Water	12/07/05 11:50	12/08/05 13:34
MW-2	MOL0453-02	Water	12/07/05 11:10	12/08/05 13:34
MW-3	MOL0453-03	Water	12/07/05 10:32	12/08/05 13:34
MW-4	MOL0453-04	Water	12/07/05 12:26	12/08/05 13:34

Blaine Tech Services - San Jose (Shell)
 1680 Rogers Avenue
 San Jose CA, 95112

 Project: 1155 Portola Ave., Livermore
 Project Number: 051207-DW1
 Project Manager: Michael Ninokata

 MOL0453
Reported:
 12/27/05 12:05

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MOL0453-01) Water Sampled: 12/07/05 11:50 Received: 12/08/05 13:34									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	5L20003	12/20/05	12/20/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	0.56	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	60-135		"	"	"	"	
MW-2 (MOL0453-02) Water Sampled: 12/07/05 11:10 Received: 12/08/05 13:34									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	5L20003	12/20/05	12/20/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	6.0	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		80 %	60-135		"	"	"	"	
MW-3 (MOL0453-03) Water Sampled: 12/07/05 10:32 Received: 12/08/05 13:34									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	5L20003	12/20/05	12/20/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	0.54	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		79 %	60-135		"	"	"	"	

Blaine Tech Services - San Jose (Shell)
1680 Rogers Avenue
San Jose CA, 95112

Project:1155 Portola Ave., Livermore
Project Number:051207-DW1
Project Manager:Michael Ninokata

MOL0453
Reported:
12/27/05 12:05

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MOL0453-04) Water Sampled: 12/07/05 12:26 Received: 12/08/05 13:34									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	5L20003	12/20/05	12/20/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		68 %		60-135	"	"	"	"	

Blaine Tech Services - San Jose (Shell)
 1680 Rogers Avenue
 San Jose CA, 95112

 Project: 1155 Portola Ave., Livermore
 Project Number: 051207-DW1
 Project Manager: Michael Ninokata

 MOL0453
Reported:
 12/27/05 12:05

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5L20003 - EPA 5030B P/T / EPA 8260B
Blank (5L20003-BLK1)

Prepared & Analyzed: 12/20/05

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Ethanol	ND	100	"							

Surrogate: 1,2-Dichloroethane-d4

1.55

"

2.50

62

60-135

Laboratory Control Sample (5L20003-BS1)

Prepared & Analyzed: 12/20/05

Gasoline Range Organics (C4-C12)	524	50	ug/l	440		119	60-140			
Benzene	5.47	0.50	"	5.16		106	65-115			
Toluene	38.2	0.50	"	37.2		103	85-120			
Ethylbenzene	6.62	0.50	"	7.54		88	75-135			
Xylenes (total)	38.7	0.50	"	41.2		94	85-125			
Methyl tert-butyl ether	7.10	0.50	"	7.02		101	65-125			
Di-isopropyl ether	16.2	0.50	"	15.1		107	75-125			
Ethyl tert-butyl ether	16.6	0.50	"	15.0		111	75-130			
tert-Amyl methyl ether	14.7	0.50	"	15.0		98	80-115			
tert-Butyl alcohol	159	5.0	"	143		111	75-150			
1,2-Dichloroethane	15.1	0.50	"	14.7		103	85-130			
1,2-Dibromoethane (EDB)	16.2	0.50	"	14.9		109	85-120			
Ethanol	148	100	"	142		104	70-135			

Surrogate: 1,2-Dichloroethane-d4

2.33

"

2.50

93

60-135

Blaine Tech Services - San Jose (Shell)
 1680 Rogers Avenue
 San Jose CA, 95112

 Project: 1155 Portola Ave., Livermore
 Project Number: 051207-DW1
 Project Manager: Michael Ninokata

 MOL0453
 Reported:
 12/27/05 12:05

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5L20003 - EPA 5030B P/T / EPA 8260B

Matrix Spike (5L20003-MS1)	Source: MOL0335-01			Prepared & Analyzed: 12/20/05						
Gasoline Range Organics (C4-C12)	497	50	ug/l	440	ND	113	60-140			
Benzene	5.74	0.50	"	5.16	ND	111	65-115			
Toluene	40.2	0.50	"	37.2	ND	108	85-120			
Ethylbenzene	6.94	0.50	"	7.54	ND	92	75-135			
Xylenes (total)	40.1	0.50	"	41.2	0.53	96	85-125			
Methyl tert-butyl ether	7.29	0.50	"	7.02	1.2	87	65-125			
Di-isopropyl ether	16.2	0.50	"	15.1	ND	107	75-125			
Ethyl tert-butyl ether	14.6	0.50	"	15.0	ND	97	75-130			
tert-Amyl methyl ether	12.7	0.50	"	15.0	0.28	83	80-115			
tert-Butyl alcohol	189	5.0	"	143	34	108	75-120			
1,2-Dichloroethane	13.3	0.50	"	14.7	ND	90	85-130			
1,2-Dibromoethane (EDB)	14.5	0.50	"	14.9	ND	97	85-120			
Ethanol	445	100	"	142	80	257	70-135			QM01
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>1.91</i>		<i>"</i>	<i>2.50</i>		<i>76</i>	<i>60-135</i>			

Matrix Spike Dup (5L20003-MSD1)	Source: MOL0335-01			Prepared & Analyzed: 12/20/05						
Gasoline Range Organics (C4-C12)	486	50	ug/l	440	ND	110	60-140	2	25	
Benzene	5.46	0.50	"	5.16	ND	106	65-115	5	20	
Toluene	38.0	0.50	"	37.2	ND	102	85-120	6	20	
Ethylbenzene	6.56	0.50	"	7.54	ND	87	75-135	6	15	
Xylenes (total)	38.0	0.50	"	41.2	0.53	91	85-125	5	20	
Methyl tert-butyl ether	7.40	0.50	"	7.02	1.2	88	65-125	1	20	
Di-isopropyl ether	15.8	0.50	"	15.1	ND	105	75-125	3	15	
Ethyl tert-butyl ether	15.1	0.50	"	15.0	ND	101	75-130	3	25	
tert-Amyl methyl ether	13.2	0.50	"	15.0	0.28	86	80-115	4	15	
tert-Butyl alcohol	197	5.0	"	143	34	114	75-120	4	25	
1,2-Dichloroethane	12.9	0.50	"	14.7	ND	88	85-130	3	20	
1,2-Dibromoethane (EDB)	14.6	0.50	"	14.9	ND	98	85-120	0.7	15	
Ethanol	324	100	"	142	80	172	70-135	31	35	QM01
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>1.94</i>		<i>"</i>	<i>2.50</i>		<i>78</i>	<i>60-135</i>			

Blaine Tech Services - San Jose (Shell)
1680 Rogers Avenue
San Jose CA, 95112

Project:1155 Portola Ave., Livermore
Project Number:051207-DW1
Project Manager:Michael Ninokata

MOL0453
Reported:
12/27/05 12:05

Notes and Definitions

QM01 The spike recovery was above control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SHELL Chain Of Custody Record

Lab Identification (if necessary):

- TA - Irvine, California
- TA - Morgan Hill, California
- TA - Nashville, Tennessee
- STL
- Other (location) _____

Shell Project Manager to be invoiced:

ENVIRONMENTAL SERVICES **Denis Brown**

TECHNICAL SERVICES

CRMT HOUSTON NOT FOR ENV. REMEDIATION - NO ETIM - SEND PAPER INVOICE

INCIDENT NUMBER (ES ONLY)

9 7 4 9 5 5 3 9

SAP or CRMT NUMBER (TS/CRMT)

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services	LOG CODE: BTSS	SITE ADDRESS: Street and City 1155 Portola Ave., Livermore	State CA	GLOBAL ID NO.: T0600194367
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112	EDF DELIVERABLE TO (Responsible Party or Designee): Heather Buckingham	PHONE NO.: (408)224-4724	E-MAIL: hbuckingham@deltaenv.com	CONSULTANT PROJECT NO.: BTS # 051207-DW1
PROJECT CONTACT (Hardcopy or PDF Report to): Michael Ninokata	SAMPLER NAME(S) (Print): Devon Ragoul		LAB USE ONLY	
TELEPHONE: 408-573-0555	FAX: 408-573-7771	E-MAIL: mninokata@blainetech.com		

TURNAROUND TIME (STANDARD IS 10 CALENDAR DAYS):

STD 5 DAY 3 DAY 2 DAY 24 HOURS

RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

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

RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

MOL 6953

	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)								

FIELD NOTES:

Container/Preservative or PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	NO. OF CONT.																
			DATE	TIME																		
	MW-1	01	12/1/05	1150	W	3	X	X	X	X												
	MW-2	02		1110	↓	↓	X	X	X	X												
	MW-3	03		1072	↓	↓	X	X	X	X												
	MW-4	04		1226	↓	↓	X	X	X	X												

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature] SAMPLE CUSTODIAN</i>	Date: 12/2/05	Time: 1650
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 12/8/05	Time: 1255
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 12/8/05	Time: 1334

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Shell (Test America)
 REC. BY (PRINT) JT
 WORKORDER: M066453

DATE REC'D AT LAB: 12/08/07
 TIME REC'D AT LAB: 1334
 DATE LOGGED IN: 12-11-05

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

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <input checked="" type="radio"/> Absent Intact / Broken*									
2. Chain-of-Custody <input checked="" type="radio"/> Present / Absent*									
3. Traffic Reports or Packing List: Present / <input checked="" type="radio"/> Absent									
4. Airbill: Airbill / Sticker Present / <input checked="" type="radio"/> Absent									
5. Airbill #:									
6. Sample Labels: <input checked="" type="radio"/> Present / Absent									
7. Sample IDs: <input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: <input checked="" type="radio"/> Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="radio"/> Yes / No*									
10. Sample received within hold time? <input checked="" type="radio"/> Yes / No*									
11. Adequate sample volume received? <input checked="" type="radio"/> Yes / No*									
12. Proper preservatives used? <input checked="" type="radio"/> Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / <input checked="" type="radio"/> No*									
14. Read Temp: <u>2.1°C</u> Corrected Temp: <u>2.1°C</u> Is corrected temp 4 +/-2°C? <input checked="" type="radio"/> Yes / No**									

see COC at 12/08/05

**Exception (if any): METALS / DFF ON ICE
 or Problem COC

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

WELLHEAD INSPECTION CHECKLIST

Page 1 of 1

Date 12/7/05 Client Shell

Site Address 1155 Portola Ave., Livermore

Job Number 051207 - DW8 Technician Dave W.

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

NOTES: _____

Repair Data Sheet

Client Shell Date 11-21-05
 Site Address 1155 Portola Ave, Livermore
 Job Number 051121AA2 Technician Andrew Adnolfi

Inspection Point (Well ID or description of location)	Well Inspected, Cleaned, Labeled - No Further Corrective Action Required	Replaced Cap	Replaced Lock	Replaced Lid Seal	Check Indicates deficiency										Well Not Inspected (explain in notes)	Deficiency Logged on Repair Order	Deficiency Remains Uncorrected/Logged on Site Inspection Checklist	Partial Repair Completed/Outstanding Deficiency Logged on Repair Order	All Repairs Completed
					Casing	Annular Seal	Tabs / Bolts	Box Structure	Apron	Trip Hazard	Below Grade	Not Securable by Design (12" diameter or less)	Lid not marked with words "MONITORING WELL"	Other Deficiency					
MW-1																			
Notes: <u>Tag well</u>																			
MW-2							X												X
Notes: <u>2 of 2 stripped, rtup</u> <u>Tag well</u>																			
MW-3																			
Notes: <u>Tag well</u>																			
MW-4																			
Notes: <u>Tag well</u>																			
Notes:																			
Notes:																			

WELL GAUGING DATA

Project # 051207-DW1 Date 12/7/05 Client Shell

Site 1155 Perola Ave., Livermore

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	2					37.56	58.94	↓
MW-2	2					38.68	59.15	
MW-3	2					37.67	54.22	
MW-4	2					38.25	58.90	

SHELL WELL MONITORING DATA SHEET

BTS #: 051207-DW1	Site: Shell 97495539
Sampler: Dw	Date: 12/7/05
Well I.D.: MW-2	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8
Total Well Depth (TD): 59.15	Depth to Water (DTW): 38.68
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> PVE Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 42.77	

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible

Waterra Peristaltic Extraction Pump Other _____

Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing

Other: _____

$3.3 \text{ (Gals.)} \times 3 = 9.9 \text{ Gals.}$ I 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>radius² * 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 ² * 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 ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
10:59	62.5	6.9	1030	>1000	3.3	very cloudy, brown
11:02	65.8	6.9	1021	>1000	6.6	" "
11:05	66.4	6.9	1009	>1000	9.9	" "

Did well dewater? Yes No Gallons actually evacuated: 9.9

Sampling Date: 12/7/05 Sampling Time: 1110 Depth to Water: 39.38

Sample I.D.: MW2 Laboratory: STL Other: Test America

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

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>051207 - BW1</u>	Site: <u>Shell 97495539</u>
Sampler: <u>DW</u>	Date: <u>12/7/05</u>
Well I.D.: <u>MW3</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth (TD): <u>54.22</u>	Depth to Water (DTW): <u>37.67</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>40.98</u>	

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

Other: _____

$\frac{2.5}{1} \text{ (Gals.)} \times \frac{3}{\text{Specified Volumes}} = \frac{7.5}{\text{Calculated Volume}} \text{ Gals.}$	<table border="1" style="border-collapse: collapse; width: 100%;"> <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>radius² * 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 ² * 0.163
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1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1021	63.8	6.4	1050	>1000	2.5	very cloudy, brown
1024	65.6	6.6	1030	>1000	5.0	" "
1027	66.7	6.7	1026	>1000	7.5	" "

Did well dewater? Yes No Gallons actually evacuated: 7.5

Sampling Date: 12/7/05 Sampling Time: 1032 Depth to Water: 38.76

Sample I.D.: MW3 Laboratory: STL Other: Test America

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

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

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SHELL WELL MONITORING DATA SHEET

BTS #: <u>051207 - Dwl</u>	Site: <u>Shell</u> <u>97495539</u>
Sampler: <u>BW</u>	Date: <u>12/17/05</u>
Well I.D.: <u>MW4</u>	Well Diameter: <u>3</u> 3 4 6 8 _____
Total Well Depth (TD): <u>58.90</u>	Depth to Water (DTW): <u>38.25</u>
Depth to Free Product:	Thickness of Free Product (feet): <u>42.38</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]: <u>45.68 42.38</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>3.5</u> (Gals.) X <u>3</u> = <u>10.5</u> Gals. 1 Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 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 ² * 0.163
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1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
<u>1213</u>	<u>62.5</u>	<u>7.0</u>	<u>1067</u>	<u>>1000</u>	<u>3.5</u>	<u>brown, cloudy</u>
<u>1217</u>	<u>65.4</u>	<u>7.1</u>	<u>1089</u>	<u>>1000</u>	<u>7</u>	<u>" "</u>
<u>1221</u>	<u>66.1</u>	<u>7.1</u>	<u>1075</u>	<u>>1000</u>	<u>10.5</u>	<u>" "</u>

Did well dewater? Yes No Gallons actually evacuated: 10.5

Sampling Date: 12/17/05 Sampling Time: 1226 Depth to Water: 38.30

Sample I.D.: MW4 Laboratory: STL Other Test America

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

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