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Alameda County
OCT 16 2003
Environmental Health

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Letter of Transmittal

To: Scott O. Seery Date: 10/14/2003

Alameda County Environmental Health Services

1131 Harbor Bay Parkway, Suite 250 Job No: SJ67-50S-1

Alameda, CA 94502

Attn:

We are sending the following items:

Date	Copies	Description
14-Oct-03	1	Third Quarter 2003 - Quarterly Monitoring Report, 6750 Santa Rita Rd, Pleasanton

These are transmitted:

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

Remarks

Please call with any questions,
Thank you,
Garrett Haertel

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Solving environment-related business problems worldwide

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408.224.4724 800.477.7411
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Alameda County
OCT 16 2003
Environmental Health

October 14, 2003
Project No. SJ67-50S-1

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

Re: **Third Quarter 2003 - Quarterly Monitoring, Sampling and Remediation Status Report**
Shell Service Station
6750 Santa Rita Road
Pleasanton, California
Incident No. 97464711

Dear Mr. Seery:

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared the following third quarter 2003 groundwater monitoring and sampling report for the above referenced site. Groundwater sampling was performed by Blaine Tech Services (Blaine), at the direction of Delta, on July 8, 2003. A site location map is included as Figure 1.

QUARTERLY GROUND WATER MONITORING PROGRAM

Groundwater monitoring wells were gauged and sampled by Blaine on July 8, 2003. Depth to groundwater was measured in Wells MW-1 through MW-4. Groundwater elevation data and contours are presented on Figure 2.

Groundwater samples were submitted by Blaine to Severn Trent Laboratories, Inc. in Pleasanton, California for analysis for total purgeable petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethylbenzene, and total xylenes (BTEX); and fuel oxygenates methyl tert-butyl ether (MTBE), diisopropyl ether (DIPE), ethyl-t-butyl ether (ETBE), tert-amyl methyl ether (TAME), and tert-butanol (TBA) using EPA Method 8260B. Benzene and MTBE concentrations are presented on Figure 3.

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

REMEDIATION SUMMARY

Delta/Shell continued monthly groundwater batch extraction during the third quarter 2003. This remedial action was taken to address the presence of MTBE in groundwater. Groundwater was extracted from wells MW-2 and MW-3 on July 31, August 29 and September 22, 2003 using a positive air displacement pump. The purged groundwater was transported to the Shell refinery in Martinez, California for recycling. Approximately 596 gallons of groundwater were extracted during the third quarter 2003. MTBE concentrations have decreased in both wells MW-2 and MW-3 (MW-2 decreased from 4,000 micrograms per liter (ug/l) to 2,800 ug/l and MW-3 decreased from 15,000 ug/l to 9,500 ug/l) since batch extraction was initiated on May 19, 2003. Table 1 presents the total gallons extracted and hydrocarbon mass removal estimates for the site.

DISCUSSION


Previous site data has indicated a groundwater flow direction to the south-southwest. The groundwater gradient on July 8, 2003 was toward the south by southwest at a magnitude of 0.008 feet/feet.


MTBE was detected in all site wells at concentrations ranging from 18 ug/l to 9,500 ug/l. TBA was detected in Wells MW-1, MW-2, and MW-3 at 170 ug/l, 2,900 ug/l, and 2,500 ug/l, respectively.

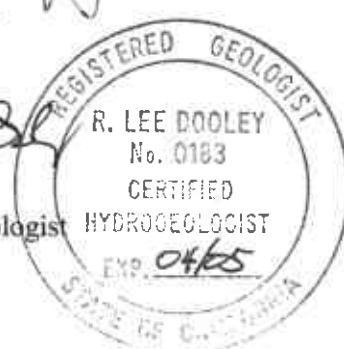
In the fourth quarter 2003 Blaine will gauge and sample site wells and tabulate the data. Delta will prepare a fourth quarter 2003 monitoring, sampling, and remediation status report.

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

Sincerely,
Delta Environmental Consultants, Inc.


Garrett Haertel
Project Engineer


R. Lee Dooley
Senior Hydrogeologist
CHG 0183



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

Table 1 – Groundwater Extraction – Mass Removal Data

Attachment A – Groundwater Monitoring and Sampling Report, July 23, 2003

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

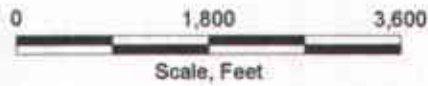
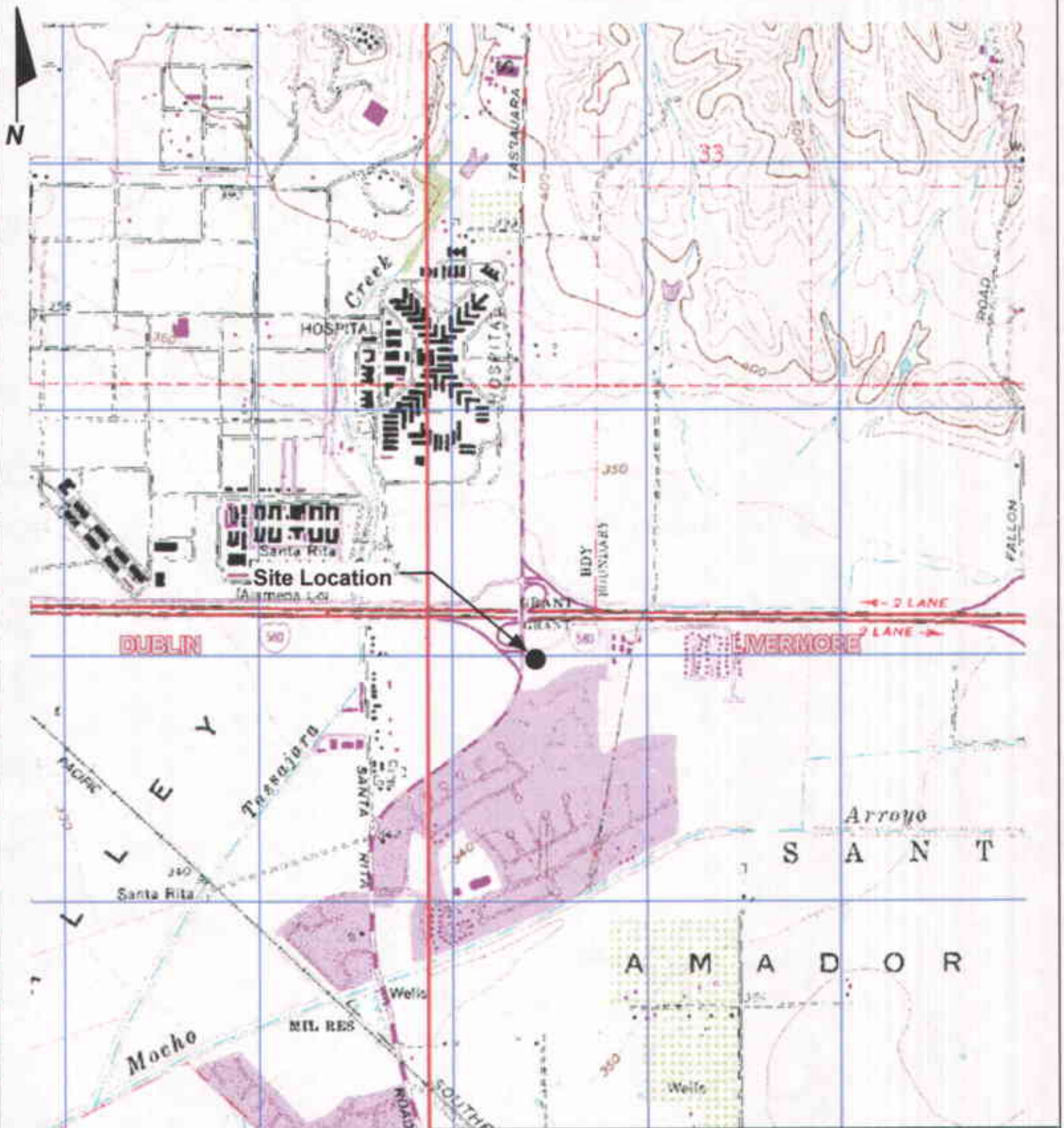


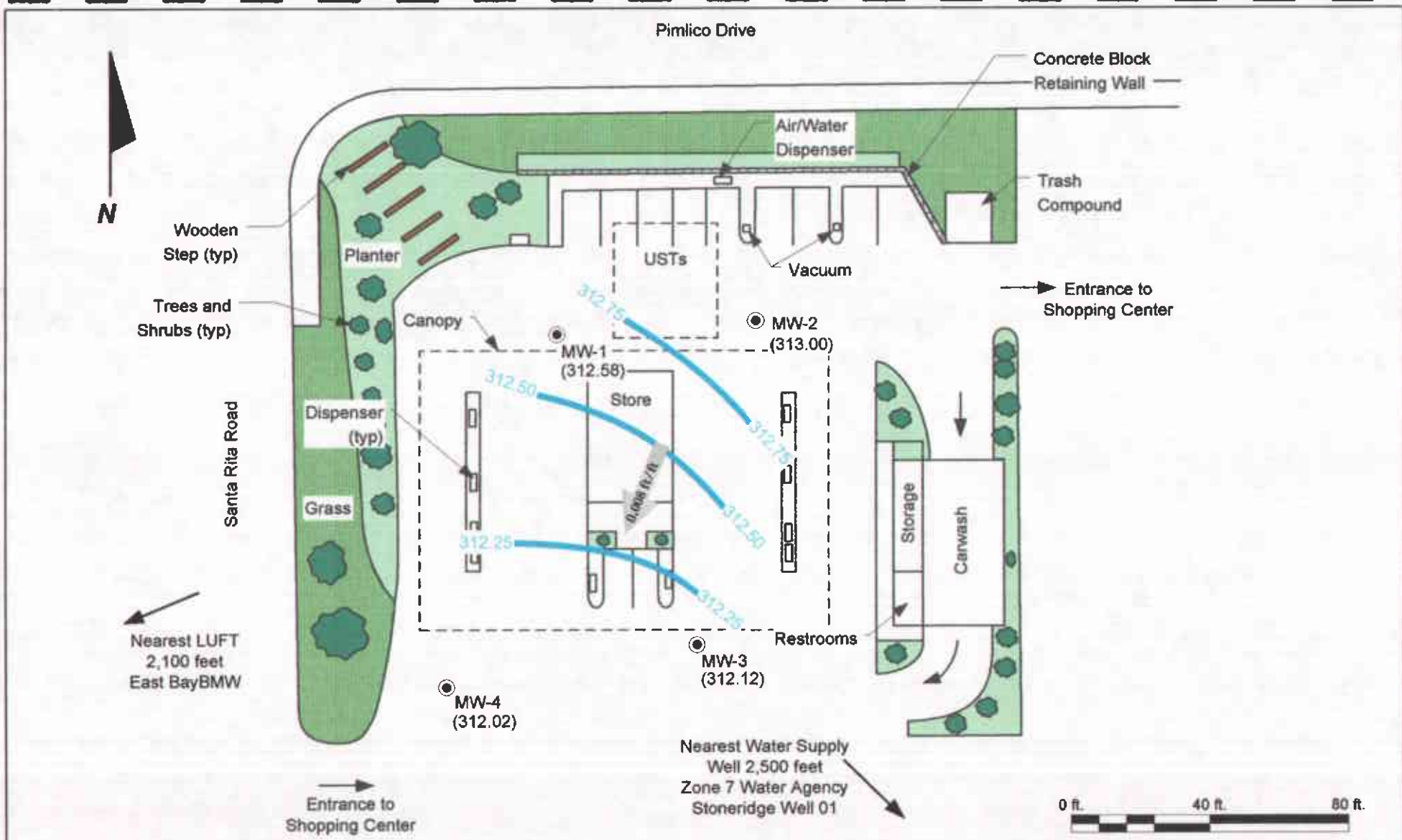
FIGURE 1
SITE LOCATION MAP

SHELL-BRANDED SERVICE STATION
1198 NORTH MAIN STREET
SALINAS, CALIFORNIA

PROJECT NO. SJM7-50S-1	DRAWN BY RW
FILE NO. SJM7-50S-1	PREPARED BY RW
REVISION NO.	REVIEWED BY



Map Source: DeLorme, Yarmouth, ME 04096,
USGA Topo Map



LEGEND

- MW-4 ● **GROUNDWATER MONITORING WELL**
- (313.00) **GROUNDWATER ELEVATION (FEET - MSL), 7/8/03**
- 312.25 — **GROUNDWATER ELEVATION CONTOUR**
- 0.008 ft/ft **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**

FIGURE 2
GROUNDWATER ELEVATION CONTOUR MAP, JULY 8, 2003

SHELL SERVICE STATION
6750 Santa Rita Road
Pleasanton, California

PROJECT NO. SJ67-505-1	DRAWN BY VF
FILE NO. SJ67-505-1	PREPARED BY VF
REVISION NO. 1	REVIEWED BY



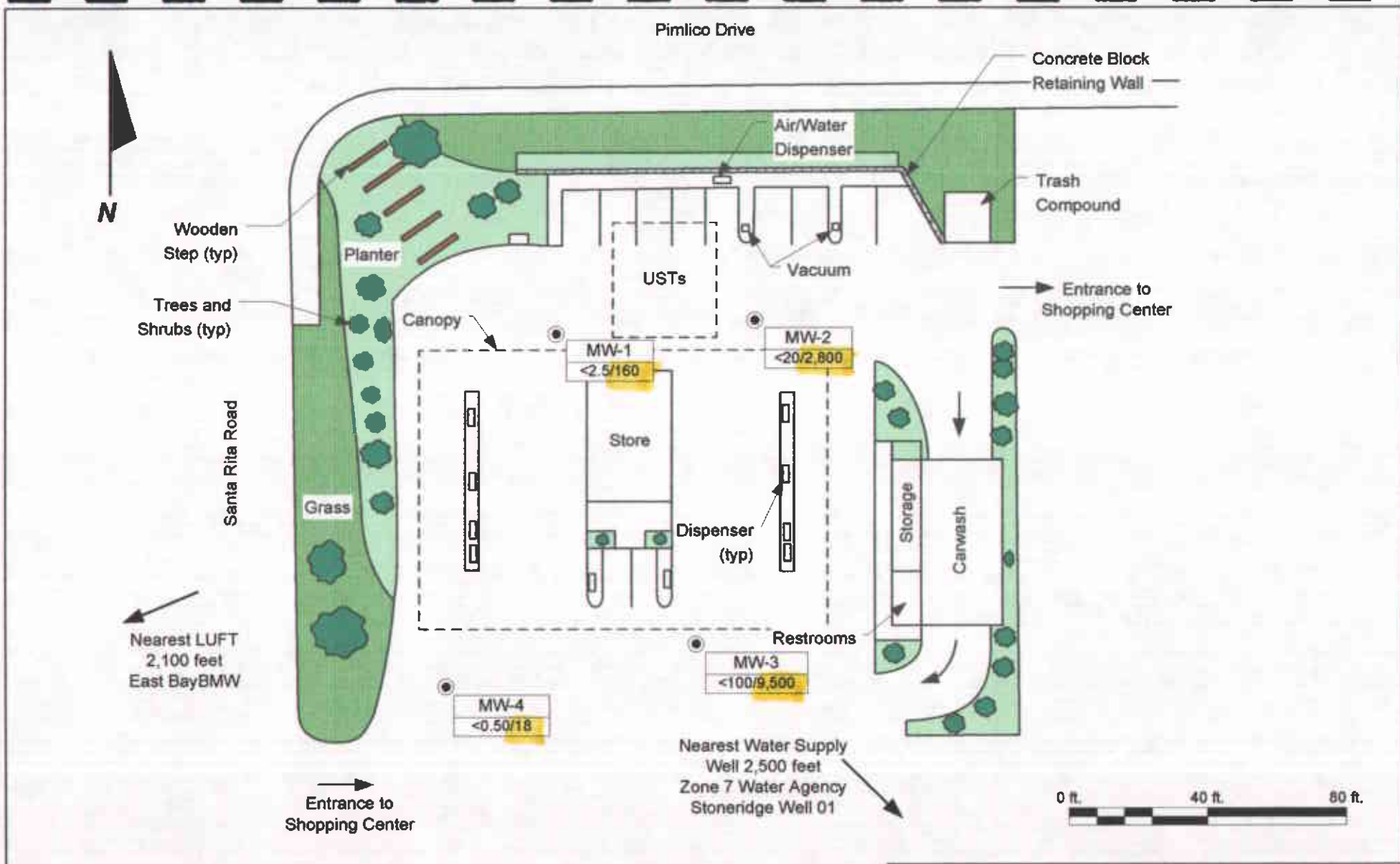


FIGURE 3
BENZENE AND MTBE CONCENTRATIONS MAP
 JULY 8, 2003

SHELL SERVICE STATION
 6735 Santa Rita Road
 Pleasanton, California

LEGEND

MW-4 ● GROUNDWATER MONITORING WELL

MW-4	WELL ID
<0.50/75	BENZENE/MTBE CONCENTRATIONS (UG/L), 7/8/03

PROJECT NO. S.367-50S-1	DRAWN BY VF
FILE NO. S.367-50S-1	PREPARED BY VF
REVISION NO. 1	REVIEWED BY



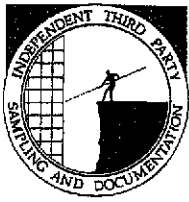
TABLE 1
GROUNDWATER EXTRACTION - MASS REMOVAL DATA
 SHELL-BRANDED SERVICE STATION, INCIDENT #97464711
 6750 SANTA RITA RD, PLEASANTON, CALIFORNIA

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Sample Date	TPH-g			Benzene			MTBE				
					TPH-g Concentration (ppb)	TPH-g Removed (pounds)	TPH-g Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)		
05/19/03	MW-2/MW-3	67	67	05/09/03	6,125	0.00342	0.00342	<75	0.00002	0.00002	9,500	0.00531	0.00531		
05/31/03	MW-2/MW-3	38	105	05/09/03	6,125	0.00194	0.00537	<75	0.00001	0.00003	9,500	0.00301	0.00832		
06/13/03	MW-2/MW-3	58	163	05/09/03	6,125	0.00296	0.00833	<75	0.00002	0.00005	9,500	0.00460	0.01292		
06/26/03	MW-2/MW-3	48	211	05/09/03	6,125	0.00245	0.01078	<75	0.00002	0.00007	9,500	0.00381	0.01673		
06/30/03	MW-2	20	231	05/09/03	<2,500	0.00021	0.01099	<25	0.00000	0.00007	4,000	0.00067	0.01739		
07/31/03	MW-2	60	291	07/08/03	<2,000	0.00050	0.01149	<20	0.00001	0.00007	2,800	0.00140	0.01880		
08/29/03	MW-2	25	316	07/08/03	<2,000	0.00021	0.01170	<20	0.00000	0.00008	2,800	0.00058	0.01938		
09/22/03	MW-2	25	341	07/08/03	<2,000	0.00021	0.01191	<20	0.00000	0.00008	2,800	0.00058	0.01996		
06/30/03	MW-3	95	436	05/09/03	11,000	0.00872	0.01971	<100	0.00004	0.00011	15,000	0.01189	0.02928		
07/31/03	MW-3	180	616	07/08/03	<10,000	0.00751	0.02722	<100	0.00008	0.00018	9,500	0.01427	0.04355		
08/29/03	MW-3	180	796	07/08/03	<10,000	0.00751	0.03473	<100	0.00008	0.00026	9,500	0.01427	0.05782		
09/22/03	MW-3	126	922	07/08/03	<10,000	0.00526	0.03999	<100	0.00005	0.00031	9,500	0.00999	0.06781		
Total Gallons Extracted:				922	Total Pounds Removed:			0.041	Total Pounds Removed:			0.0003	Total Pounds Removed:		0.070
Total Gallons Extracted This Reporting Period:				596	Total Gallons Removed:			0.007	Total Gallons Removed:			0.00004	Total Gallons Removed:		0.011
Abbreviations and Notes:															
TPH-g = Total purgeable hydrocarbons as gasoline															
MTBE = Methyl tert-butyl ether															
ppb = Parts per billion															
gal = Gallon															
Mass removed based on the formula: volume extracted (gal) x Concentration (mg/L) x (g/10 ⁶ mg) x (pound/453.6g) x (3.785 L/gal)															
Volume removal data based on the formula: density (in gms/cc) x 9.338 (ccalms/gmings)															
TPH-g, benzene analyzed by EPA Method 8013/8020.															
Concentrations based on most recent groundwater monitoring results.															
If concentration is less than the laboratory detection limit, one-half of the detection limit concentration is used in the mass removal calculation.															
For combined well numbers, the average concentration was used assuming 1/2 the detection limit for samples less than the detection limit.															

Attachment A

GROUNDWATER MONITORING AND SAMPLING REPORT

BLAINE
TECH SERVICES INC.



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

July 23, 2003

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

Third Quarter 2003 Groundwater Monitoring at
Shell-branded Service Station
6750 Santa Rita Road
Pleasanton, CA

Monitoring performed on June 30, July 8 and 17, 2003

Groundwater Monitoring Report 030708-AC-2

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

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

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

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

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/jt

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

cc: Debbie Arnold
KHM Environmental
6234 San Ignacio Avenue, Suite E
San Jose, CA 95119

WELL CONCENTRATIONS
Shell-branded Service Station
6750 Santa Rita Road
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	31.75	NA
MW-1	12/22/2002	<50	81	<0.50	<0.50	<0.50	<0.50	62	NA	31.93	NA
MW-1	03/28/2003	<50	70	<0.50	<0.50	<0.50	<1.0	130	343.48	31.59	311.89
MW-1	05/09/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	280	343.48	31.10	312.38
MW-1	06/30/2003	NA	NA	NA	NA	NA	NA	NA	343.48	31.65	311.83
MW-1	07/08/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	160	343.48	30.90	312.58
MW-1	07/17/2003	NA	NA	NA	NA	NA	NA	NA	343.48	31.53	311.95
MW-2	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	31.25	NA
MW-2	12/22/2002	<200	120	<2.0	<2.0	<2.0	<2.0	660	NA	30.70	NA
MW-2	03/28/2003	<2,500	60	<25	<25	<25	<50	4,200	342.86	30.30	312.56
MW-2	05/09/2003	<2,500	NA	<25	<25	<25	<50	4,000	342.86	29.83	313.03
MW-2	06/30/2003	NA	NA	NA	NA	NA	NA	NA	342.86	30.45	312.41
MW-2	07/08/2003	<2,000	NA	<20	<20	<20	<40	2,900	342.86	29.86	313.00
MW-2	07/17/2003	NA	NA	NA	NA	NA	NA	NA	342.86	30.33	312.53
MW-3	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	31.65	NA
MW-3	12/22/2002	<2,000	72	<20	<20	<20	<20	8,000	NA	31.10	NA
MW-3	03/28/2003	<5,000	89	<50	<50	<50	<100	10,000	342.23	30.76	311.47
MW-3	05/09/2003	11,000	NA	<100	<100	<100	<200	15,000	342.23	30.04	312.19
MW-3	06/30/2003	NA	NA	NA	NA	NA	NA	NA	342.23	30.23	312.00
MW-3	07/08/2003	<10,000	NA	<100	<100	<100	<200	9,500	342.23	30.11	312.12
MW-3	07/17/2003	NA	NA	NA	NA	NA	NA	NA	342.23	29.80	312.43
MW-4	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	32.92	NA
MW-4	12/22/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	93	NA	32.20	NA

WELL CONCENTRATIONS
Shell-branded Service Station
6750 Santa Rita Road
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-4	03/28/2003	<50	67	<0.50	<0.50	<0.50	<1.0	2.4	343.44	32.07	311.37
MW-4	05/09/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	75	343.44	31.35	312.09
MW-4	06/30/2003	NA	NA	NA	NA	NA	NA	NA	343.44	31.42	312.02
MW-4	07/08/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	18	343.44	31.42	312.02
MW-4	07/17/2003	NA	NA	NA	NA	NA	NA	NA	343.44	31.20	312.24

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

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft = Feet

<n = Below detection limit

NA = Not applicable

Notes:

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

Blaine Tech Services, Inc.

July 21, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 030708-AC2
Project: 97464711
Site: 6750 Santa Rita Rd., Pleasanton

Dear Mr. Gearhart,

Attached is our report for your samples received on 07/08/2003 15:47

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 08/22/2003 unless you have requested otherwise.

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

You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

Severn Trent Laboratories, Inc.

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

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

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: 030708-AC2

97464711

Received: 07/08/2003 15:47

Site: 6750 Santa Rita Rd., Pleasanton

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	07/08/2003 12:15	Water	1
MW-2	07/08/2003 12:30	Water	2
MW-3	07/08/2003 12:50	Water	3
MW-4	07/08/2003 11:55	Water	4

Severn Trent Laboratories, Inc.

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

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

07/21/2003 17:01

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: 030708-AC2
97464711

Received: 07/08/2003 15:47

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-1	Lab ID: 2003-07-0252 - 1
Sampled: 07/08/2003 12:15	Extracted: 7/18/2003 13:04
Matrix: Water	QC Batch#: 2003/07/18-1C.65
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	250	ug/L	5.00	07/18/2003 13:04	
Benzene	ND	2.5	ug/L	5.00	07/18/2003 13:04	
Toluene	ND	2.5	ug/L	5.00	07/18/2003 13:04	
Ethylbenzene	ND	2.5	ug/L	5.00	07/18/2003 13:04	
Total xylenes	ND	5.0	ug/L	5.00	07/18/2003 13:04	
tert-Butyl alcohol (TBA)	170	25	ug/L	5.00	07/18/2003 13:04	
Methyl tert-butyl ether (MTBE)	160	2.5	ug/L	5.00	07/18/2003 13:04	
Di-isopropyl Ether (DIPE)	ND	10	ug/L	5.00	07/18/2003 13:04	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	5.00	07/18/2003 13:04	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	5.00	07/18/2003 13:04	
Surrogates(s)						
1,2-Dichloroethane-d4	92.5	76-130	%	5.00	07/18/2003 13:04	
Toluene-d8	101.4	78-115	%	5.00	07/18/2003 13:04	

Severn Trent Laboratories, Inc.

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

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

07/21/2003 17:01

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: 030708-AC2
97464711

Received: 07/08/2003 15:47

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-2	Lab ID: 2003-07-0252 - 2
Sampled: 07/08/2003 12:30	Extracted: 7/18/2003 13:26
Matrix: Water	QC Batch#: 2003/07/18-1C.65
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	2000	ug/L	40.00	07/18/2003 13:26	
Benzene	ND	20	ug/L	40.00	07/18/2003 13:26	
Toluene	ND	20	ug/L	40.00	07/18/2003 13:26	
Ethylbenzene	ND	20	ug/L	40.00	07/18/2003 13:26	
Total xylenes	ND	40	ug/L	40.00	07/18/2003 13:26	
tert-Butyl alcohol (TBA)	2900	200	ug/L	40.00	07/18/2003 13:26	
Methyl tert-butyl ether (MTBE)	2800	20	ug/L	40.00	07/18/2003 13:26	
Di-isopropyl Ether (DIPE)	ND	80	ug/L	40.00	07/18/2003 13:26	
Ethyl tert-butyl ether (ETBE)	ND	80	ug/L	40.00	07/18/2003 13:26	
tert-Amyl methyl ether (TAME)	ND	80	ug/L	40.00	07/18/2003 13:26	
Surrogates(s)						
1,2-Dichloroethane-d4	93.7	76-130	%	40.00	07/18/2003 13:26	
Toluene-d8	100.8	78-115	%	40.00	07/18/2003 13:26	

Severn Trent Laboratories, Inc.

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

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

07/21/2003 17:01

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: 030708-AC2

97464711

Received: 07/08/2003 15:47

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-3	Lab ID:	2003-07-0252 - 3
Sampled:	07/08/2003 12:50	Extracted:	7/21/2003 14:41
Matrix:	Water	QC Batch#:	2003/07/21-1D.64
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	10000	ug/L	200.00	07/21/2003 14:41	
Benzene	ND	100	ug/L	200.00	07/21/2003 14:41	
Toluene	ND	100	ug/L	200.00	07/21/2003 14:41	
Ethylbenzene	ND	100	ug/L	200.00	07/21/2003 14:41	
Total xylenes	ND	200	ug/L	200.00	07/21/2003 14:41	
tert-Butyl alcohol (TBA)	2500	1000	ug/L	200.00	07/21/2003 14:41	
Methyl tert-butyl ether (MTBE)	9500	100	ug/L	200.00	07/21/2003 14:41	
Di-isopropyl Ether (DIPE)	ND	400	ug/L	200.00	07/21/2003 14:41	
Ethyl tert-butyl ether (ETBE)	ND	400	ug/L	200.00	07/21/2003 14:41	
tert-Amyl methyl ether (TAME)	ND	400	ug/L	200.00	07/21/2003 14:41	
Surrogates(s)						
1,2-Dichloroethane-d4	114.9	76-130	%	200.00	07/21/2003 14:41	
Toluene-d8	101.2	78-115	%	200.00	07/21/2003 14:41	

Sewern Trent Laboratories, Inc.

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

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

07/21/2003 17:01

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: 030708-AC2
97464711

Received: 07/08/2003 15:47

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-4	Lab ID: 2003-07-0252 - 4
Sampled: 07/08/2003 11:55	Extracted: 7/18/2003 14:11
Matrix: Water	QC Batch#: 2003/07/18-1C.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/18/2003 14:11	
Benzene	ND	0.50	ug/L	1.00	07/18/2003 14:11	
Toluene	ND	0.50	ug/L	1.00	07/18/2003 14:11	
Ethylbenzene	ND	0.50	ug/L	1.00	07/18/2003 14:11	
Total xylenes	ND	1.0	ug/L	1.00	07/18/2003 14:11	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	07/18/2003 14:11	
Methyl tert-butyl ether (MTBE)	18	0.50	ug/L	1.00	07/18/2003 14:11	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	07/18/2003 14:11	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	07/18/2003 14:11	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	07/18/2003 14:11	
Surrogates(s)						
1,2-Dichloroethane-d4	85.3	76-130	%	1.00	07/18/2003 14:11	
Toluene-d8	100.3	78-115	%	1.00	07/18/2003 14:11	

Severn Trent Laboratories, Inc.

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07/21/2003 17:01

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: 030708-AC2
97464711

Received: 07/08/2003 15:47

Site: 6750 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/07/18-1C.65-057

Water

Test(s): 8260FAB

QC Batch # 2003/07/18-1C.65

Date Extracted: 07/18/2003 11:57

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/18/2003 11:57	
Benzene	ND	0.5	ug/L	07/18/2003 11:57	
Toluene	ND	0.5	ug/L	07/18/2003 11:57	
Ethylbenzene	ND	0.5	ug/L	07/18/2003 11:57	
Total xylenes	ND	1.0	ug/L	07/18/2003 11:57	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/18/2003 11:57	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/18/2003 11:57	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	07/18/2003 11:57	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	07/18/2003 11:57	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	07/18/2003 11:57	
Surrogates(s)					
1,2-Dichloroethane-d4	91.4	76-130	%	07/18/2003 11:57	
Toluene-d8	104.5	78-115	%	07/18/2003 11:57	

Severn Trent Laboratories, Inc.

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

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07/21/2003 17:01

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: 030708-AC2
97464711

Received: 07/08/2003 15:47

Site: 6750 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Method Blank

Water

QC Batch # 2003/07/21-1D.64

MB: 2003/07/21-1D.64-030

Date Extracted: 07/21/2003 10:30

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/21/2003 10:30	
Benzene	ND	0.5	ug/L	07/21/2003 10:30	
Toluene	ND	0.5	ug/L	07/21/2003 10:30	
Ethylbenzene	ND	0.5	ug/L	07/21/2003 10:30	
Total xylenes	ND	1.0	ug/L	07/21/2003 10:30	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/21/2003 10:30	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/21/2003 10:30	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	07/21/2003 10:30	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	07/21/2003 10:30	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	07/21/2003 10:30	
Surrogates(s)					
1,2-Dichloroethane-d4	99.6	76-130	%	07/21/2003 10:30	
Toluene-d8	96.6	78-115	%	07/21/2003 10:30	

Severn Trent Laboratories, Inc.

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

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

07/21/2003 17:01

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: 030708-AC2
97464711

Received: 07/08/2003 15:47

Site: 6750 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2003/07/18-1C.65

LCS 2003/07/18-1C.65-012

Extracted: 07/18/2003

Analyzed: 07/18/2003 11:12

LCSD 2003/07/18-1C.65-035

Extracted: 07/18/2003

Analyzed: 07/18/2003 11:35

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	21.2	22.5	25	84.8	90.0	5.9	69-129	20		
Toluene	20.9	21.8	25	83.6	87.2	4.2	70-130	20		
Methyl tert-butyl ether (MTBE)	18.4	21.1	25	73.6	84.4	13.7	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	463	472	500	92.6	94.4		76-130			
Toluene-d8	528	500	500	105.6	100.0		78-115			

Severn Trent Laboratories, Inc.

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

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

07/21/2003 17:01

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: 030708-AC2
97464711

Received: 07/08/2003 15:47

Site: 6750 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2003/07/21-1D.64

LCS 2003/07/21-1D.64-046

Extracted: 07/21/2003

Analyzed: 07/21/2003 09:46

LCSD 2003/07/21-1D.64-008

Extracted: 07/21/2003

Analyzed: 07/21/2003 10:08

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	22.6	21.7	25	90.4	86.8	4.1	69-129	20		
Toluene	22.7	21.7	25	90.8	86.8	4.5	70-130	20		
Methyl tert-butyl ether (MTBE)	26.1	24.9	25	104.4	99.6	4.7	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	532	512	500	106.4	102.4		76-130			
Toluene-d8	526	526	500	105.2	105.2		78-115			

Severn Trent Laboratories, Inc.

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

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

07/21/2003 17:01

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: 030708-AC2

97464711

Received: 07/08/2003 15:47

Site: 6750 Santa Rita Rd., Pleasanton

Legend and Notes

Analysis Flag

o

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

Severn Trent Laboratories, Inc.

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

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

07/21/2003 17:01

LAB: STL

SHELL Chain Of Custody Record

75840

(See identification of necessary)

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSING

Karen Petryna

2003-07-0252

INCIDENT NUMBER (S&E ONLY)

9 7 4 6 4 7 1 1

SAP or CRMT NUMBER (TS/CRMT)

DATE: 7/8/03

PAGE: 1 of 7

Blaine Tech Services 1680 Rogers Avenue, San Jose, CA 95112 Leon Gearhart 408-573-0555 408-573-7771 lgearhart@blainetech.com	BTSS 6750 Santa Rita Rd., Pleasanton Garrett Haertel (408)224-4724 ghaertel@deltsaenv.com	pending pending	BTSS # 030208-A-2
--	--	--------------------	-------------------

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

LA - IWQCB REPORT FORMAT LIST AGENCY

GDMS USE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDDTS NOT NEEDED

REQUESTED ANALYSIS

Field Sample Identification	SAMPLING DATE	TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (1001B - 5ppb RL)	MTBE (1260B - 0.5ppb RL)	Oxygenates (S) by (1260B)	TPH - Diesel, Extractable
MW-1	7/8	1215	W	3	X	X			X	
MW-2	7/8	1230		3	X	X			X	
MW-3	7/8	1250		3	X	X			X	
MW-4	7/8	1155		3	X	X			X	

FIELD NOTES:

Container/Preservative or PID Readings or Laboratory Notes

3.1°C

TEMPERATURE ON RECEIPT °C

Requested by (Signature): <i>Alan Costa</i>	Received by (Signature): <i>[Signature]</i>	Date: 7/8/03	Time: 1547
Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 7/8/03	Time: 1816

WELLHEAD INSPECTION CHECKLIST

Client 97464711 Date 7/8/03

Site Address 6750 Santa Rita Rd. Pleasanton

Job Number 030708-ACZ Technician AC

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

NOTES: * stinger broke and fell down well while trying to put back together after sampling. can't reach ~ 10-15 ft. down

WELLHEAD INSPECTION CHECKLIST

Client 97464711 Date 6/30/03
 Site Address 6750 Santa Rita Rd. Pleasanton
 Job Number 030630-Ad Technician AC

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

NOTES: _____

WELL GAUGING DATA

Project # 030717-AC2 Date 7/17/03 Client Shell

Site 6750 Santa Rita Rd. Pleasanton

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
MW-1	2					31.53	44.00	TOC
MW-2	2					30.33	41.75	
MW-3	2					29.80	43.91	
MW-4	2					31.20	43.98	↓
* gauged w/ stringer in well								

SHELL WELL MONITORING DATA SHEET

BTS #: <u>030717-AC2</u>	Site: <u>6750 Santa Rita Rd Pleasanton</u>
Sampler: <u>AC</u>	Date: <u>7/17/03</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth (TD): <u>41.75</u>	Depth to Water (DTW): <u>30.33</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 0.2) + DTW]: <u>34.89</u>	

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

2 HOUR Overpurge

_____ (Gals.) X _____ = _____ 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
<u>started</u>	<u>purge @ 0630</u>		<u>w/ m.B. pump @</u>		<u>-5 gpm</u>	<u>DTW = 30.33</u>
<u>0700</u>					<u>15</u>	<u>MW-1 = 31.52 MW-3 = 29.88</u>
<u>0730</u>					<u>30</u>	<u>MW-2 = 31.59 MW-4 = 31.20</u>
<u>0800</u>					<u>45</u>	<u>MW-1 = 31.55 MW-3 = 29.70</u>
<u>0830</u>					<u>60</u>	<u>MW-2 = 31.62 MW-4 = 31.16</u>
						<u>MW-1 = 31.50 MW-3 = 29.76</u>
						<u>MW-2 = 31.66 MW-4 = 31.21</u>
						<u>MW-1 = 31.56 MW-3 = 29.81</u>
						<u>MW-2 = 31.72 MW-4 = 31.25</u>

Did well dewater? Yes No	Gallons actually evacuated:
Sampling Date: _____	Sampling Time: _____
Sample I.D.: <u>MW-2</u>	Depth to Water: _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____	Laboratory: STL Other _____
EB I.D. (if applicable): _____ @ _____ Time	Duplicate I.D. (if applicable): _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____	
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030717-ACZ	Site: 6750 Santa Rita Rd Pleasanton
Sampler: AC	Date: 7/17/03
Well I.D.: MW-3	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 43.91	Depth to Water (DTW): 29.80
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with ^{60%} 80% Recharge [(Height of Water Column x 0.20) + DTW]: 35.44	

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

6 HOUR Overpurge

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

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

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
0830						started purge w/ m.B. pump @ 1.5 gpm DTW=29.83
0900					15	MW-1=31.62 MW-3=30.16 MW-2=31.21 MW-4=31.26
0930					30	MW-1=31.64 MW-3=30.22 MW-2=31.14 MW-4=31.33
1000					45	MW-1=31.60 MW-3=30.23 MW-2=31.01 MW-4=31.36
1030					60	MW-1=31.63 MW-3=30.27 MW-2=30.94 MW-4=31.40

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: _____
Sampling Date: _____	Sampling Time: _____
Sample I.D.: MW-3	Laboratory: STL Other _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____	
EB I.D. (if applicable): _____ @ _____ Time	Duplicate I.D. (if applicable): _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____	
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

WELL GAUGING DATA

Project # 030708-ACZ Date 7/8/03 Client 97464711

Site 6750 Santa Rita Rd. Pleasanton

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
MW-1	2					30.90	44.00	TOC
* MW-2	2					29.86	41.75	
* MW-3	2					30.11	41.91	
MW-4	2					31.42	43.98	↓
* gauged w/ stinger in well								

SHELL WELL MONITORING DATA SHEET

BTS #: <u>030708-AC2</u>	Site: <u>97464711</u>
Sampler: <u>AC</u>	Date: <u>7/8/03</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth (TD): <u>44.00</u>	Depth to Water (DTW): <u>30.90</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>33.52</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

<u>2</u> (Gals.) X <u>3</u> = <u>6</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
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 μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1206	67.5	7.1	2657	>1000	2	cloudy
1209	67.6	7.1	2848	>1000	4	"
1213	67.9	7.0	2839	>1000	6	"

Did well dewater? Yes No Gallons actually evacuated: 6

Sampling Date: 7/8/03 Sampling Time: 1215 Depth to Water: 31.25

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

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: Oxy's (5) 8260

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: <u>030708-Ac2</u>	Site: <u>97464711</u>
Sampler: <u>AC</u>	Date: <u>7/8/03</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth (TD): <u>41.75</u>	Depth to Water (DTW): <u>29.86</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>32.23</u>	

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

$\frac{1.9 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = 5.7 \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>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 μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1221	75.0	7.1	2863	71000	2	cloudy
1224	74.8	7.1	2874	71000	4	"
1227	74.8	7.0	2891	71000	6	"

Did well dewater? Yes No Gallons actually evacuated: 6

Sampling Date: 7/8/03 Sampling Time: 1230 Depth to Water: 31.30

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

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: Oxy's (5) 8260

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>030708-Ac2</u>	Site: <u>9746471</u>
Sampler: <u>AC</u>	Date: <u>7/8/03</u>
Well I.D.: <u>MW-3</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth (TD): <u>41.91</u>	Depth to Water (DTW): <u>30.11</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>32.47</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

<u>1.8</u> (Gals.) X <u>3</u> = <u>5.4</u> Gals. 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 μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1241	78.2	7.1	2643	286	2	cloudy
1244	78.3	7.1	2829	204	4	"
1247	78.6	7.0	2833	290	6	"

Did well dewater? Yes No Gallons actually evacuated: 6

Sampling Date: 7/8/03 Sampling Time: 1250 Depth to Water: 31.54

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

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: Oxy's (5) 8260

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>030708-AC2</u>	Site: <u>97464711</u>
Sampler: <u>AC</u>	Date: <u>7/8/03</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth (TD): <u>43.98</u>	Depth to Water (DTW): <u>31.42</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>33.93</u>	

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

<u>2</u> (Gals.) X <u>3</u> = <u>6</u> 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 <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1147	67.0	7.2	2490	>1000	2	Cloudy
1149	66.8	7.2	2567	>1000	4	"
1153	66.7	7.2	2548	>1000	6	"

Did well dewater? Yes No Gallons actually evacuated: 6

Sampling Date: 7/8/03 Sampling Time: 1155 Depth to Water: 32.90

Sample I.D.: MW-4 Laboratory: (STL) Other: _____

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: Oxy's (5) 8260

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

WELL GAUGING DATA

Project # 030630-ACL Date 6/30/03 Client 97464711

Site 6750 Santa Rita Rd Pleasanton

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
MW-1	2					31.65	44.03	TOC
MW-2	2					30.45	41.79	
MW-3	2					30.23	44.02	
MW-4	2					31.42	43.95	↓

SHELL WELL MONITORING DATA SHEET

BTS #: <u>030630-AC1</u>	Site: <u>974647U</u>
Sampler: <u>MW-2 AC</u>	Date: <u>6/30/03</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth (TD): <u>41.79</u>	Depth to Water (DTW): <u>30.45</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 ^{60%} 80% Recharge [(Height of Water Column x 0. ⁴⁰ 80) + DTW]: <u>34.98</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: _____

2 Hour Overpurge

_____ (Gals.) X _____ = _____ 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 μS)	Turbidity (NTUs)	Gals. Removed	Observations
<u>1400</u>	<u>Started</u>	<u>overpurge</u>	<u>(2)</u>	<u>.25</u>	<u>gpm</u>	<u>DTW = 30.16</u>
						<u>D1 = 31.61 D3 = 39.61</u>
						<u>D2 = 30.16 D4 = 30.81</u>
<u>1430</u>					<u>8</u>	<u>D1 = 31.20 D3 = 31.08</u>
						<u>D2 = 38.70 D4 = 30.96</u>

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: _____ Sampling Time: _____ Depth to Water: _____

Sample I.D.: _____ Laboratory: STL Other _____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: <i>030630-AC1</i>	Site: <i>97464711</i>
Sampler: <i>AC</i>	Date: <i>6/30/03</i>
Well I.D.: <i>MW-3</i>	Well Diameter: <i>(2)</i> 3 4 6 8 _____
Total Well Depth (TD): <i>41.79</i>	Depth to Water (DTW): <i>30.45</i>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with ^{60%} 80% Recharge [(Height of Water Column x 0.20) + DTW]: ⁴⁰ <i>34.98</i>	

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

8 hour overpurge

_____ (Gals.) X _____ = _____ 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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
<i>0800</i>						<i>started overpurge @ 1 gpm</i>
<i>0820</i>						<i>well dewatered @ 20 gal</i>
						<i>60% = 34.98</i>
<i>0852</i>						<i>resumed purge after 60% recharge @ .5 gpm</i>
<i>0900</i>					<i>24</i>	<i>DTW₁ = 30.28 DTW₂ = 31.16</i> <i>DTW₂ = 29.81 DTW₄ = 30.89</i>

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

WELL DEVELOPMENT DATA SHEET

Well I.D. MW-3	PAGE 2 OF 2
Project #: D30630-ACL	Client: 974/64711

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
0930						Well dewatered @ 40 gal DTW = 40.31
						DTW = 40.28 DTW = 39.90 DTW = 39.57 DTW = 39.05 DTW = 38.94 DTW = 38.50 DTW = 38.10
						DTW = 37.86 DTW = 37.57 DTW = 37.09 DTW = 36.88 DTW = 36.49 DTW = 36.16 DTW = 35.92
						DTW = 35.03 DTW = 34.36
1000						resumed purge @ .5 gpm
1030					55	D ₁ = 30.41 D ₅ = 39.22 D ₂ = 30.26 D ₄ = 30.94 D ₁ = 30.79 P ₃ = 39.72 D ₂ = 29.64 D ₄ = 30.66
1045						Well dewatered @ 63 gal DTW = 40.27
						DTW = 39.92 DTW = 39.54 DTW = 39.01 DTW = 38.86 DTW = 38.52 DTW = 38.09
						DTW = 37.91 DTW = 37.56 DTW = 37.14 DTW = 36.82 DTW = 36.51 DTW = 36.12
						DTW = 35.94 DTW = 35.06 DTW = 34.79 DTW = 32.59
1115						resumed purge @ .25 gpm DTW = 32.59
1145					71	P ₁ = 30.66 P ₃ = 39.22 D ₂ = 30.18 D ₄ = 30.74
1215					79	D ₁ = 31.04 D ₃ = 40.19 D ₂ = 31.14 D ₄ = 30.96
						Well dewatered @ 80 gal
						DTW = 39.96 DTW = 39.48 DTW = 39.02 DTW = 38.80 DTW = 38.59 DTW = 38.06
						DTW = 37.88 DTW = 37.69 DTW = 37.21 DTW = 37.00 DTW = 36.81 DTW = 36.42
						DTW = 36.11 DTW = 35.91 DTW = 35.44 DTW = 34.08
1245						resumed purge @ 25 gpm DTW = 34.08
1315					87	D ₁ = 31.24 D ₃ = 40.02 D ₂ = 31.50 D ₄ = 31.33
1345					95	D ₁ = 31.61 D ₃ = 39.84 D ₂ = 30.50 D ₄ = 31.15
						stopped purge