Shell Oil Products US

May 14, 2009

Re: First Quarter 2010 Groundwater Monitoring Report
Shell-Branded Service Station
4212 (*aka* 4226) First Street
Pleasanton, 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

Denis L. Brown
Project Manager

20945 S. Wilmington Avenue, Carson, CA 90810 P: (559) 645-9306; F: (559) 645-5643

May 14, 2010
Delta Project No. SCA421211D
SAP No. 135782

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

Re: FIRST QUARTER 2010
GROUNDWATER MONITORING REPORT
Shell-Branded Service Station
4212 (*aka* 4226) First Street
Pleasanton, California

DELTA

Dear Mr. Wickham:

On behalf of Equilon Enterprises LLC *dba* Shell Oil Products (Shell), Delta Consultants (Delta) has prepared this *First Quarter 2010 Groundwater Monitoring Report* for the above referenced site. Field monitoring activities at the site were conducted by Blaine Tech Services, Inc. under direct contract to Shell and included the collection of groundwater samples and static water level measurements. Delta does not provide any oversight of Blaine Tech Services Inc's work or protocol. A Delta staff member performed an evaluation of the data provided to us under the supervision of a California Registered Civil Engineer or a California Professional Geologist.

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

a member of: Inogen Environmental Alliance

312 Piercy Road San Jose, California 95138 USA
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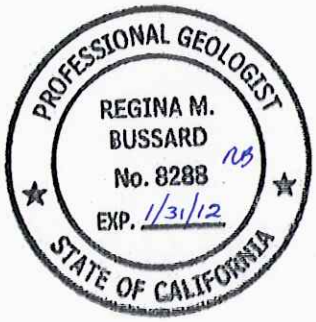
Fax +1 408.225.8506 www.deltaenv.com

If you have any questions regarding this site, please contact Suzanne McClurkin-Nelson (Delta Project Manager) at (408) 826-1875 or Denis Brown (Shell Site Manager) at (707) 865-0251.

Sincerely,
Delta Consultants

Suzanne McClurkin-Nelson
Senior Project Manager

Regina Bussard, P.G.
Project Geologist



Attachment: First Quarter 2010 Groundwater Monitoring Report

cc: Denis Brown, Shell Oil Products US
Danielle Stefani, Livermore-Pleasanton Fire Department
Cheryl Dizon, Zone 7 Water Agency

SHELL QUARTERLY STATUS REPORT

Station Address:	4212 (*aka* 4226) First Street, Pleasanton, California
DELTA Project No.:	SCA421211D
SHELL Project Manager / Phone No.:	Denis Brown / (707) 865-0251
DELTA Site Manager / Phone No.:	Suzanne McClurkin-Nelson / (408) 826-1875
Primary Agency / Regulatory ID No.:	Alameda County Health Care Services Agency (ACHCSA) (Mr. Jerry Wickham, P.G., CHG)
Other Agencies to Receive Copies:	None

WORK PERFORMED THIS QUARTER (FIRST –2010):

1. Quarterly groundwater monitoring and sampling. Submitted quarterly report.
2. Installed four soil vapor extraction (SVE) wells and one test air sparge (AS) well; conducted air sparge (AS) pilot test to determine optimal radius of influence (ROI).
3. Submitted application for Authority to Construct to Bay Area Air Quality Management District.
4. Submitted monthly status reports on progress of remediation system installation. Reviewed and returned Draft Fact Sheet to ACHCSA for distribution to local neighbors.

WORK PROPOSED FOR NEXT QUARTER (SECOND –2010):

1. Quarterly groundwater monitoring and sampling. Submit quarterly report.
2. Submit AS Pilot Test report with recommendations for adjustments to remediation well spacing and total number of wells.
3. Make final revisions to system design drawings; re-submit Planning permit application package.
4. Submit monthly status reports on progress of remediation system installation.

Current Phase of Project:	Groundwater monitoring (remediation system planning)
Site Use:	Shell-branded Service Station
Frequency of Sampling:	Quarterly
Frequency of Monitoring:	Quarterly
Is Separate Phase Hydrocarbon Present On-site (Well #'s):	☐ Yes ☒ No
Cumulative SPH Recovered to Date :	NA
SPH Recovered This Quarter :	None
Sensitive Receptor(s) and Respective Direction(s):	The Arroyo Del Valle Creek is located approximately 1,133 feet north-west of the site. A supply well (3S/1E-21C1) was located 1,000 feet northwest of the site and a municipal well (3S/1E-16P10) was located approximately 1,200 feet north of the site.
Site Lithology:	The site is underlain by interlayered silt, silty sand, gravelly sand and silty gravel.

SHELL QUARTERLY STATUS REPORT (CONT.)

Current Remediation Techniques:	Quarterly monitoring of natural attenuation
Permits for Discharge:	None
Groundwater Recovered This Quarter:	111.9 gallons were recovered on February 11, 2010.
Approximate Depth to Groundwater:	31.21 to 34.06 feet below top of well casing. 90.72 feet below top of well casing in deeper Well MW1-B.
Groundwater Gradient:	North at approximately 0.05 ft/ft
Current Agency Correspondence:	ACHCSA email dated December 4, 2009, February 10, 2010 and February 24, 2010 (Appendix A)
Date of Most Recent Work Plan Approval:	ACHCSA letter dated August 7, 2009 approving Interim Remediation work Plan (Appendix A)
Site History:	
Case Opening	1985
Onsite Assessment	1986 - 2007
Offsite Assessment	None
Passive Remediation	Monitoring Natural Attenuation
Active Remediation	June 2007, Step Draw Down; June, August 2007, Batch Extraction February 2009, Dual-Phase Extraction Pilot Test January 2010, Air Sparge Pilot Test
Closure	None
Summary of Unusual Activity:	None

Analytical results for the first quarter 2010 are consistent with historical data set. Elevated concentrations of total petroleum hydrocarbons as gasoline (TPH-g), benzene, methyl tert-butyl ether (MTBE) and tert-butyl alcohol (TBA) remain in wells MW-1, MW-2 and MW-4.

Remediation wells SVE-1 through SVE-4, a test air sparge well (AS-10) and an observation well (OW-1) were installed January 2010; an AS pilot test was performed January 26, 2010 in order to determine the site-specific radius of influence (ROI). Following confirmation of well placement, the remaining AS wells will be installed.

An application package for an authority to construct (ATC) was submitted to the Bay Area Air Quality Management District during the first quarter 2010; additional fees and data were subsequently provided and the ATC is expected to be issued during the second quarter 2010. A preliminary remediation system design was finalized and a permit application package submitted to the planning department during the first quarter 2010; additional plan sets and information were requested. Re-submittal of the planning permit package was postponed pending a review of the air sparge (AS) pilot test results and potential adjustments to the system well number and placement. The AS pilot test report and re-submittal of the planning permit application package are scheduled for the second quarter 2010.

ATTACHMENTS:

Figures:

Figure 1 – Site Location Map

Figure 2 – Groundwater Elevation Contour Map – 2/11/2010

Figure 3 – Groundwater Hydrocarbon Distribution Map – 2/11/2010

Table:

Table 1 –Well Concentrations

Appendices:

Appendix A – Agency Correspondence

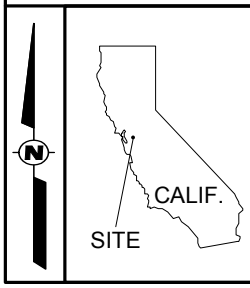
Appendix B – Blaine Tech Services, Inc. Field Data Sheets

Appendix C – Blaine Tech Services, Inc. Field Procedures

Appendix D – Certified Analytical Report with Chain-of-Custody Documentation

FIGURES

DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
J.F.F.			SCA42121



DELTA CONSULTANTS

SHELL OIL PRODUCTS
SHELL-BRANDED SERVICE STATION
PLEASANTON, CALIFORNIA

FIGURE 1
SITE LOCATION MAP

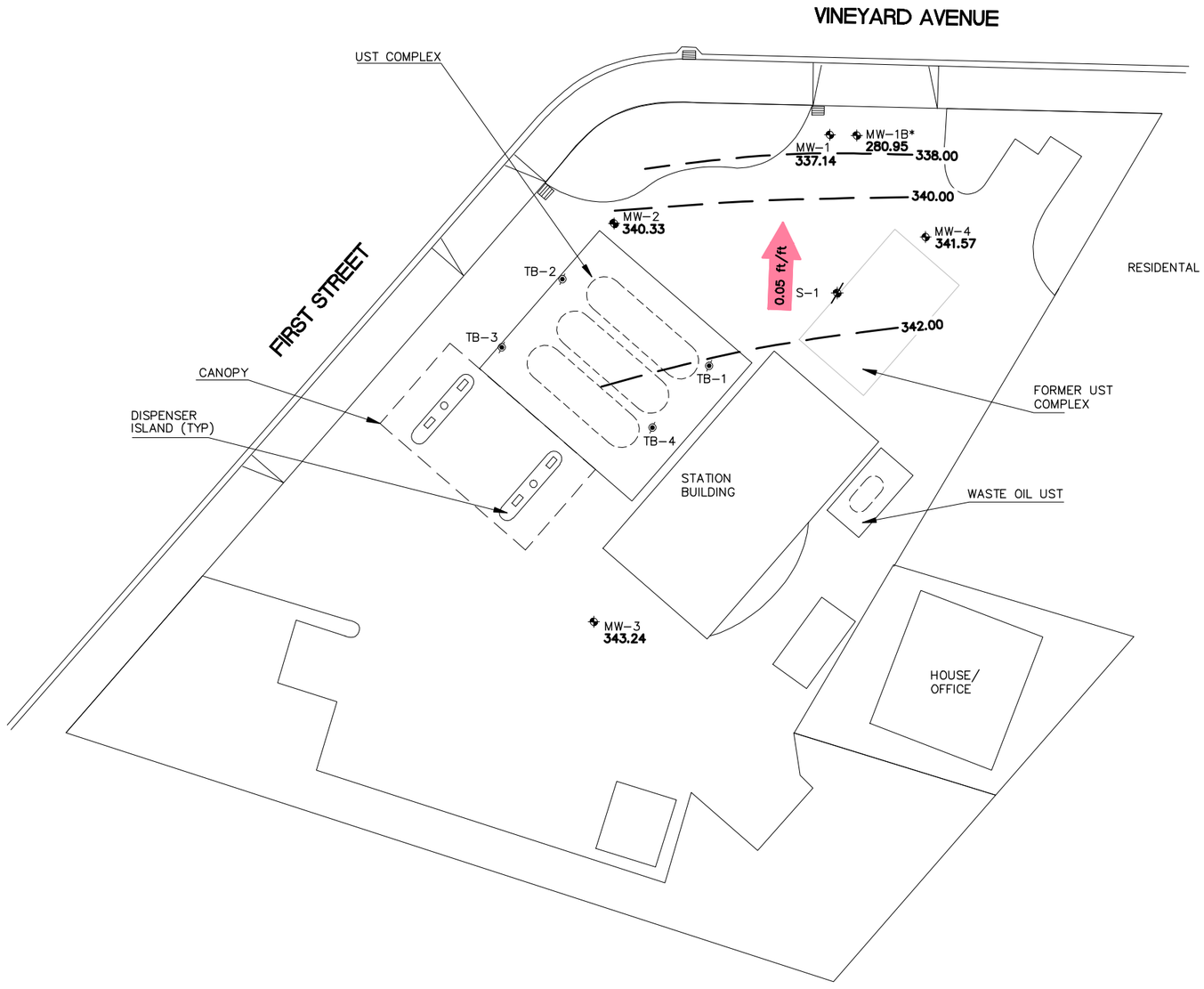
4212 FIRST STREET
PLEASANTON, CALIFORNIA

PROJECT NUMBER SCA421211D

APPROVED BY

CHECKED BY

DRAWN BY J.F.F 3/15/2010



SCALE IN FEET: 0, 15, 30

N
W E
S

LEGEND

MW–1 ◆	GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
S–1 ⚡	DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
TB–1 ◉	ABANDONED TANK BACKFILL WELL LOCATION
343.08	GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL)
344.00 — — —	GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL) CONTOUR INTERVAL=2.00 FEET
MW–1B*	MONITORS DEEPER WATER BEARING ZONE; NOT USED USED IN CONTOURING
0.05 ft/ft	APPROXIMATE GROUNDWATER GRADIENT DIRECTION (ft/ft)

N
W E
S

HISTORIC GROUNDWATER FLOW DIRECTIONS

DATE	FLOW DIRECTION
8/5/2005	ENE
11/22/2005	ENE
2/7/2006	NNE
5/16/2006	NNE
8/21/2006	N
11/14/2006	N
2/1/2007	NNE
8/22/2007	N, NNE
11/26/2007	NNE
2/19/2008	NNW
5/23/2008	N
8/7/2008	N, NNW
12/3/2008	NNE
2/5/2009	NNE
5/7/2009	NNW
8/20/2009	NE
11/9/2009	NE
2/11/2010	N

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SHELL OIL PRODUCTS US
SHELL–BRANDED SERVICE STATION
PLEASANTON, CALIFORNIA

FIGURE 2

GROUNDWATER ELEVATION CONTOUR MAP 2/11/2010

4212 FIRST STREET
PLEASANTON, CALIFORNIA

PROJECT NUMBER SCA421211D

APPROVED BY

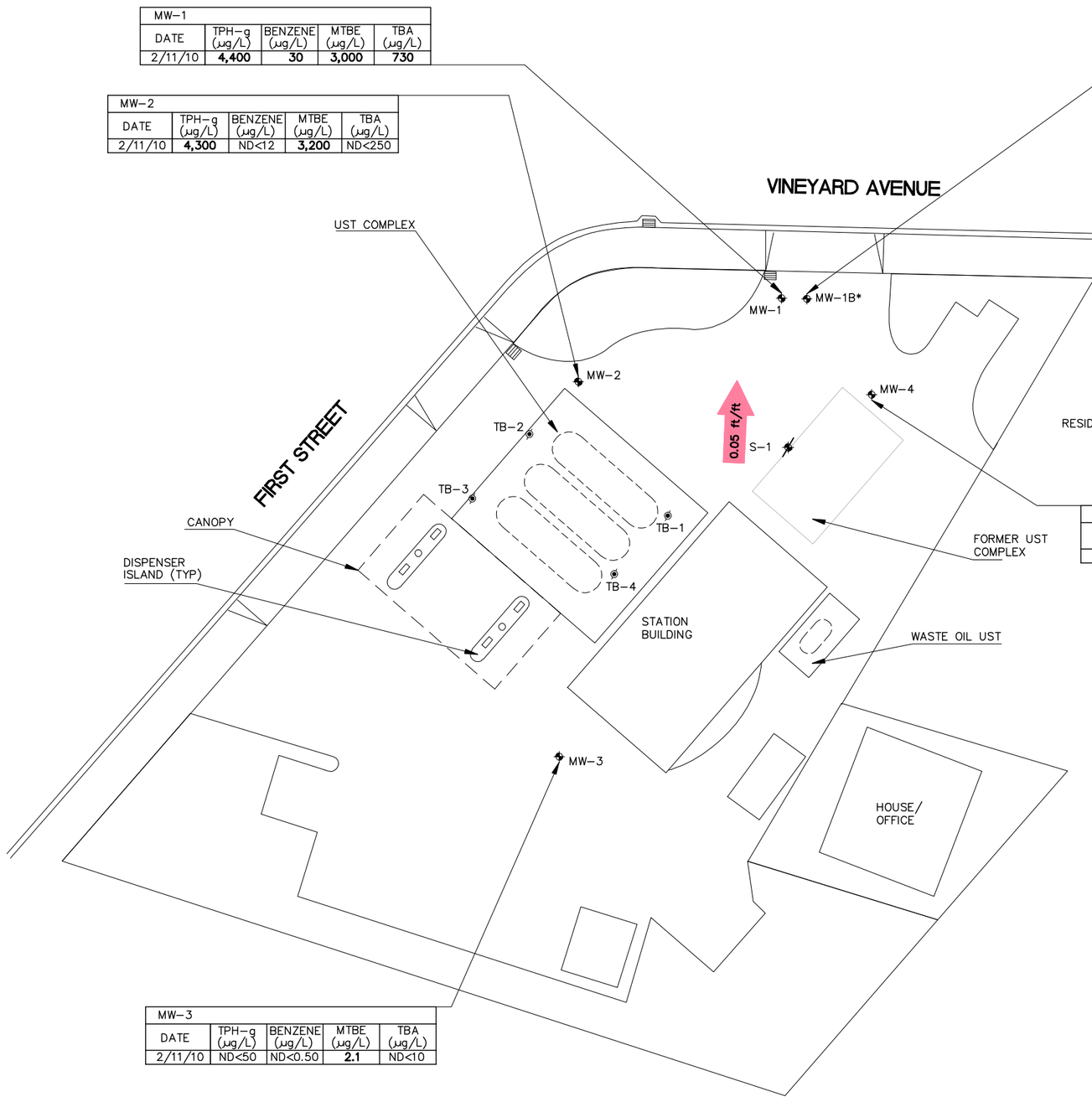
CHECKED BY

DRAWN BY J.F.F 3/15/2010

MW-1				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
2/11/10	**4,400**	**30**	**3,000**	**730**

MW-2				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
2/11/10	**4,300**	ND<12	**3,200**	ND<250

MW-1B				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
2/11/10	ND<50	ND<0.50	**1.1**	ND<10



MW-4				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
2/11/10	**11,000**	**95**	**7,500**	**3,200**

MW-3				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
2/11/10	ND<50	ND<0.50	**2.1**	ND<10

N
W E
S

LEGEND

MW-1	GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
S-1	DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
TB-1	ABANDONED TANK BACKFILL WELL LOCATION
TPH-g	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
MTBE	METHYL TERT-BUTYL ETHER
TBA	TERT-BUTYL ALCOHOL
µg/L	MICROGRAMS PER LITER
ND<	NOT DETECTED ABOVE LIMIT NOTED
MW-1B*	MONITORS DEEPER WATER BEARING ZONE
0.05 ft/ft	APPROXIMATE GROUNDWATER GRADIENT DIRECTION (ft/ft)

0 15 30
SCALE IN FEET

DELTA CONSULTANTS

SHELL OIL PRODUCTS US
SHELL-BRANDED SERVICE STATION
PLEASANTON, CALIFORNIA

FIGURE 3
GROUNDWATER HYDROCARBON DISTRIBUTION MAP
2/11/2010

4212 FIRST STREET
PLEASANTON, CALIFORNIA

TABLE

TABLE 1
WELL CONCENTRATIONS
Shell-branded Service Station
4212 First Street
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	6/16/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	371.20	37.81	333.39
MW-1	6/30/1999	89.0	5.89	<0.500	<0.500	0.652	<5.00	NA	NA	NA	NA	NA	371.20	33.65	337.55
MW-1	9/24/1999	1,560	473	<10.0	<10.0	22.8	<2.50	NA	NA	NA	NA	NA	371.20	37.04	334.16
MW-1	12/8/1999	1,020	375	<5.00	<5.00	15.2	<50.0	NA	NA	NA	NA	NA	371.20	36.79	334.41
MW-1	2/10/2000	523	106	<5.00	<5.00	31.8	2.9	NA	NA	NA	NA	NA	371.20	34.90	336.30
MW-1	5/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	37	29.5	NA	NA	NA	NA	371.20	32.55	338.65
MW-1	8/3/2000	808	290	<2.50	<2.50	8.9	<12.5	NA	NA	NA	NA	NA	371.20	39.13	332.07
MW-1	10/31/2000	507	250	0.962	<0.500	23.5	3.76	NA	NA	NA	NA	NA	371.20	37.91	333.29
MW-1	3/1/2001	<50.0	<0.500	<0.500	<0.500	<0.500	74.6	NA	NA	NA	NA	NA	371.20	39.60	331.60
MW-1	5/30/2001	780	280	<2.0	<2.0	11	NA	<2.0	NA	NA	NA	NA	371.20	39.53	331.67
MW-1	8/2/2001	1,900	580	<2.5	<2.5	12	NA	<25	NA	NA	NA	NA	371.20	39.61	331.59
MW-1	12/6/2001	840	190	<0.50	<0.50	13	NA	<5.0	NA	NA	NA	NA	371.20	39.63	331.57
MW-1	2/5/2002	2,700	650	<2.5	<2.5	7.2	NA	<25	NA	NA	NA	NA	371.20	35.53	335.67
MW-1	6/17/2002	2,500	550	<2.0	<2.0	5.9	NA	<20	NA	NA	NA	NA	371.20	39.29	331.91
MW-1	7/25/2002	690	130	<0.50	<0.50	4.4	NA	18	NA	NA	NA	NA	371.20	39.39	331.81
MW-1	11/14/2002	400	31	<0.50	<0.50	2.7	NA	27	NA	NA	NA	NA	371.20	40.00	331.20
MW-1	2/12/2003	840	0.85	<0.50	<0.50	<0.50	NA	40	NA	NA	NA	NA	371.20	32.92	338.28
MW-1	5/14/2003	680	190	<2.5	<2.5	<5.0	NA	95	NA	NA	NA	NA	371.20	32.57	338.63
MW-1	7/29/2003	870	190	<2.5	<2.5	<5.0	NA	150	NA	NA	NA	NA	371.20	33.82	337.38
MW-1	11/19/2003	<200	14	<2.0	<2.0	<4.0	NA	230	NA	NA	NA	NA	371.20	38.28	332.92
MW-1	2/19/2004	58 d	11	<0.50	<0.50	<1.0	NA	85	NA	NA	NA	NA	371.20	36.93	334.27
MW-1	5/3/2004	670	310	<2.5	<2.5	<5.0	NA	420	NA	NA	NA	NA	371.20	32.70	338.50
MW-1	8/24/2004	430 d	34	<2.5	<2.5	<5.0	NA	690	NA	NA	NA	NA	371.20	34.66	336.54
MW-1	11/15/2004	<250	29	<2.5	<2.5	<5.0	NA	470	NA	NA	NA	NA	371.20	38.27	332.93
MW-1	2/2/2005	540 e	87	<2.5	<2.5	<5.0	NA	700	NA	NA	NA	NA	371.20	32.02	339.18
MW-1	5/5/2005	460 e	88	<2.5	<2.5	<5.0	NA	300	NA	NA	NA	NA	371.20	36.82	334.38
MW-1	8/5/2005	910	230	<2.5	<2.5	<5.0	NA	480	NA	NA	NA	NA	371.20	33.35	337.85
MW-1	11/22/2005	1,760	27	<0.500	<0.500	1	NA	1,160	NA	NA	NA	NA	371.20	33.42	337.78
MW-1	2/7/2006	4,620	225	<0.500	<0.500	<0.500	NA	1,480	NA	NA	NA	NA	371.20	31.63	339.57

TABLE 1
WELL CONCENTRATIONS
Shell-branded Service Station
4212 First Street
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	5/16/2006	1,100	130	<0.50	2	2	NA	1,600	NA	NA	NA	NA	371.20	31.16	340.04
MW-1	8/21/2006	2,700	86	<0.500	1	1	NA	1,960	NA	NA	NA	NA	371.20	33.07	338.13
MW-1	11/14/2006	1,400 g	30	<25	<25	<25	NA	2,100	<25	<25	<25	<1,000	371.20	33.73	337.47
MW-1	2/1/2007	800	21	<0.50	<0.50	<1.0	NA	2,300	NA	NA	NA	NA	371.20	33.02	338.18
MW-1	6/1/2007	1,400 j,k	68	<20	<20	4.4 l	NA	2,200	NA	NA	NA	NA	371.20	32.87	338.33
MW-1	8/22/2007	250 j	20	<20	<20	<20	NA	3,100	NA	NA	NA	1,500	371.20	34.64	336.56
MW-1	11/26/2007	1,800 j	33	<20	<20	<20	NA	3,100	<40	<40	<40	930	371.20	35.59	335.61
MW-1	2/19/2008	1,800 j	33	<20	<20	<20	NA	3,700	NA	NA	NA	1,700	371.20	31.05	340.15
MW-1	5/23/2008	3,700	100	<25	<25	<25	NA	3,100	NA	NA	NA	1,300	371.20	31.80	339.40
MW-1	8/7/2008	4,200	33	<25	<25	<25	NA	3,500	NA	NA	NA	<250	371.20	33.03	338.17
MW-1	12/3/2008	3,400	34	<25	<25	<25	NA	3,200	NA	NA	NA	980	371.20	35.19	336.01
MW-1	2/5/2009	2,100	26	<25	<25	<25	NA	1,700	NA	NA	NA	340	371.20	35.07	336.13
MW-1	5/7/2009	4,400	230	<25	<25	<25	NA	3,700	NA	NA	NA	980	371.20	32.45	338.75
MW-1	8/20/2009	3,100	86	<25	<25	<25	NA	2,500	NA	NA	NA	730	371.20	34.48	336.72
MW-1	11/9/2009	3,200	230	<20	<20	33	NA	2,100	<40	<40	<40	530	371.20	35.84	335.36
MW-1	**2/11/2010**	**4,400**	**30**	**<20**	**<20**	**<20**	**NA**	**3,000**	**NA**	**NA**	**NA**	**730**	**371.20**	**34.06**	**337.14**
MW-1B	9/21/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	371.67	76.94	294.73
MW-1B	9/28/2006	<50	<0.50	<0.50	<0.50	<0.50	NA	21	NA	NA	NA	<20	371.67	77.15	294.52
MW-1B	11/14/2006	320 g	<5.0	<5.0	<5.0	<5.0	NA	310	<5.0	<5.0	<5.0	<200	371.67	69.38	302.29
MW-1B	2/1/2007	77	0.53	<0.50	<0.50	<1.0	NA	150	NA	NA	NA	NA	371.67	60.92	310.75
MW-1B	6/1/2007	<50 j,k	0.25 l	<1.0	<1.0	<1.0	NA	74	NA	NA	NA	NA	371.67	61.07	310.60
MW-1B	8/22/2007	<50 j	0.25 l	<1.0	<1.0	<1.0	NA	35	NA	NA	NA	7.1 l	371.67	77.54	294.13
MW-1B	11/26/2007	<50 j	<0.50	<1.0	<1.0	<1.0	NA	1.7	<2.0	<2.0	<2.0	<10	371.67	68.50	303.17
MW-1B	2/19/2008	65 j	2.6	4.2	<1.0	1.1	NA	58	NA	NA	NA	<10	371.67	57.21	314.46
MW-1B	5/23/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	3.6	NA	NA	NA	<10	371.67	57.53	314.14
MW-1B	8/7/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	1.1	NA	NA	NA	<10	371.67	72.51	299.16
MW-1B	12/3/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	3.4	NA	NA	NA	<10	371.67	80.84	290.83
MW-1B	2/5/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	4.4	NA	NA	NA	<10	371.67	76.11	295.56

TABLE 1
WELL CONCENTRATIONS
Shell-branded Service Station
4212 First Street
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1B	5/7/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	2.5	NA	NA	NA	13	371.67	66.97	304.70
MW-1B	8/20/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	1.7	NA	NA	NA	<10	371.67	97.32	274.35
MW-1B	11/9/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	371.67	98.90	272.77
MW-1B	**2/11/2010**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**1.1**	**NA**	**NA**	**NA**	**<10**	**371.67**	**90.72**	**280.95**
MW-2	2/3/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	372.40	32.65	339.75
MW-2	2/7/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	372.40	35.51	336.89
MW-2	2/10/2000	<50.0	<0.500	<0.500	<0.500	<0.500	2.61	NA	NA	NA	NA	NA	372.40	36.62	335.78
MW-2	5/17/2000	120	4.09	<0.500	<0.500	<0.500	29	NA	NA	NA	NA	NA	372.40	32.14	340.26
MW-2	8/3/2000	<50.0	0.692	<0.500	<0.500	<0.500	40.5	36.6b	NA	NA	NA	NA	372.40	32.42	339.98
MW-2	10/31/2000	<50.0	<0.500	<0.500	<0.500	<0.500	57.4	44.8c	NA	NA	NA	NA	372.40	33.02	339.38
MW-2	3/1/2001	173	1.64	1.65	2.86	3.97	127	167	NA	NA	NA	NA	372.40	32.54	339.86
MW-2	5/30/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	170	NA	NA	NA	NA	372.40	32.42	339.98
MW-2	8/2/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	160	NA	NA	NA	NA	372.40	32.55	339.85
MW-2	12/6/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	170	NA	NA	NA	NA	372.40	33.15	339.25
MW-2	2/5/2002	<50	0.72	<0.50	<0.50	1.7	NA	170	NA	NA	NA	NA	372.40	32.29	340.11
MW-2	6/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	260	NA	NA	NA	NA	372.40	32.63	339.77
MW-2	7/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	280	NA	NA	NA	NA	372.40	32.80	339.60
MW-2	11/14/2002	120	13	9	3.8	14	NA	430	NA	NA	NA	NA	372.40	33.31	339.09
MW-2	2/12/2003	<100	<1.0	<1.0	<1.0	<1.0	NA	430	NA	NA	NA	NA	372.40	32.15	340.25
MW-2	5/14/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	470	NA	NA	NA	NA	372.40	32.01	340.39
MW-2	7/29/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	670	NA	NA	NA	NA	372.40	32.51	339.89
MW-2	11/19/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	54	NA	NA	NA	NA	372.40	33.83	338.57
MW-2	2/19/2004	65	<0.50	3.4	1.4	6.5	NA	8.2	NA	NA	NA	NA	372.40	32.68	339.72
MW-2	5/3/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	5.2	NA	NA	NA	NA	372.40	32.07	340.33
MW-2	8/24/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	2.7	NA	NA	NA	NA	372.40	32.44	339.96
MW-2	11/15/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	1.3	NA	NA	NA	NA	372.40	32.95	339.45
MW-2	2/2/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	24	NA	NA	NA	NA	372.40	31.94	340.46
MW-2	5/5/2005	72 f	<0.50	<0.50	<0.50	<1.0	NA	4.9	NA	NA	NA	NA	372.40	31.91	340.49

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Shell-branded Service Station
4212 First Street
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-2	8/5/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	16	NA	NA	NA	NA	372.40	32.15	340.25
MW-2	11/22/2005	840	1	<0.500	<0.500	1	NA	556	NA	NA	NA	NA	372.40	32.31	340.09
MW-2	2/7/2006	3,550	<0.500	<0.500	<0.500	<0.500	NA	2,500	NA	NA	NA	NA	372.40	31.70	340.70
MW-2	5/16/2006	1,400	<5.0	<5.0	<5.0	<10	NA	1,700	NA	NA	NA	NA	372.40	31.38	341.02
MW-2	8/21/2006	1,910	<0.500	<0.500	<0.500	<0.500	NA	2,590	NA	NA	NA	NA	372.40	33.29	339.11
MW-2	11/14/2006	2,300 g	<25	<25	<25	<25	NA	2,500	<25	<25	<25	<1,000	372.40	32.67	339.73
MW-2	2/1/2007	670	<0.50	<0.50	<0.50	<1.0	NA	2,000	NA	NA	NA	NA	372.40	32.13	340.27
MW-2	6/1/2007	500 j,k	<10	<20	<20	<20	NA	2,000	NA	NA	NA	NA	372.40	32.14	340.26
MW-2	8/22/2007	100 j,k	<10	<20	<20	<20	NA	2,400	NA	NA	NA	120 l	372.40	32.93	339.47
MW-2	11/26/2007	1,600 j,k	<10	<20	<20	<20	NA	2,900	<40	<40	<40	<200	372.40	33.44	338.96
MW-2	2/19/2008	1,300 j,k	<10	<20	<20	<20	NA	3,300	NA	NA	NA	<200	372.40	31.18	341.22
MW-2	5/23/2008	1,900	<12	<25	<25	<25	NA	1,700	NA	NA	NA	<250	372.40	31.44	340.96
MW-2	8/7/2008	1,700	<10	<20	<20	<20	NA	1,300	NA	NA	NA	<200	372.40	31.94	340.46
MW-2	12/3/2008	3,000	<10	<20	<20	<20	NA	2,900	NA	NA	NA	<200	372.40	32.53	339.87
MW-2	2/5/2009	1,200	<10	<20	<20	<20	NA	1,000	NA	NA	NA	<200	372.40	32.29	340.11
MW-2	5/7/2009	2,400	<10	<20	<20	<20	NA	2,400	NA	NA	NA	<200	372.40	31.98	340.42
MW-2	8/20/2009	2,800	<10	<20	<20	<20	NA	2,400	NA	NA	NA	<200	372.40	32.51	339.89
MW-2	11/9/2009	4,100	<12	<25	<25	<25	NA	3,800	<50	<50	<50	<250	372.40	32.43	339.97
MW-2	**2/11/2010**	**4,300**	**<12**	**<25**	**<25**	**<25**	**NA**	**3,200**	**NA**	**NA**	**NA**	**<250**	**372.40**	**32.07**	**340.33**
MW-3	2/3/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	375.05	32.06	342.99
MW-3	2/7/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	375.05	32.57	342.48
MW-3	2/10/2000	180	5.12	<0.500	<0.500	0.714	26.8	21.5a	NA	NA	NA	NA	375.05	32.77	342.28
MW-3	5/17/2000	1,360	414	<5.00	<5.00	17.6	<25.0	NA	NA	NA	NA	NA	375.05	31.00	344.05
MW-3	8/3/2000	<50.0	0.536	<0.500	<0.500	<0.500	22	NA	NA	NA	NA	NA	375.05	31.03	344.02
MW-3	10/31/2000	<50.0	<0.500	<0.500	<0.500	<0.500	31.1	NA	NA	NA	NA	NA	375.05	31.28	343.77
MW-3	3/1/2001	384	172	0.815	<0.500	8	5.16	NA	NA	NA	NA	NA	375.05	31.21	343.84
MW-3	5/30/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	110	NA	NA	NA	NA	375.05	31.02	344.03
MW-3	8/2/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	93	NA	NA	NA	NA	375.05	30.94	344.11

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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-3	12/6/2001	110	<0.50	<0.50	<0.50	2.3	NA	180	NA	NA	NA	NA	375.05	31.28	343.77
MW-3	2/5/2002	<50	0.89	0.6	<0.50	2.1	NA	130	NA	NA	NA	NA	375.05	31.12	343.93
MW-3	6/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	72	NA	NA	NA	NA	375.05	31.21	343.84
MW-3	7/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	81	NA	NA	NA	NA	375.05	30.96	344.09
MW-3	11/14/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	60	NA	NA	NA	NA	375.05	31.44	343.61
MW-3	2/12/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	43	NA	NA	NA	NA	375.05	31.28	343.77
MW-3	5/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	24	NA	NA	NA	NA	375.05	31.20	343.85
MW-3	7/29/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	21	NA	NA	NA	NA	375.05	31.29	343.76
MW-3	11/19/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	8.2	NA	NA	NA	NA	375.05	31.86	343.19
MW-3	2/19/2004	81	0.67	4.4	1.8	8.6	NA	13	NA	NA	NA	NA	375.05	31.66	343.39
MW-3	5/3/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	13	NA	NA	NA	NA	375.05	31.72	343.33
MW-3	8/24/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	10	NA	NA	NA	NA	375.05	32.09	342.96
MW-3	11/15/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	6.6	NA	NA	NA	NA	375.05	31.50	343.55
MW-3	2/2/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	3.1	NA	NA	NA	NA	375.05	31.28	343.77
MW-3	5/5/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	2.3	NA	NA	NA	NA	375.05	31.42	343.63
MW-3	8/5/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	2.4	NA	NA	NA	NA	375.05	31.35	343.70
MW-3	11/22/2005	<50	<0.500	<0.500	<0.500	<0.500	NA	3.84	NA	NA	NA	NA	375.05	31.98	343.07
MW-3	2/7/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	375.05	31.24	343.81
MW-3	5/16/2006	<50	<0.50	<0.50	<0.50	<1.0	NA	4.5	NA	NA	NA	NA	375.05	31.37	343.68
MW-3	8/21/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	4.04	NA	NA	NA	NA	375.05	31.95	343.10
MW-3	11/14/2006	<50	<0.50	<0.50	<0.50	<0.50	NA	3.8	<0.50	<0.50	<0.50	<20	375.05	32.24	342.81
MW-3	2/1/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	2.8	NA	NA	NA	NA	375.05	32.17	342.88
MW-3	6/1/2007	<50 j	<0.50	<1.0	<1.0	<1.0	NA	3.1	NA	NA	NA	NA	375.05	31.86	343.19
MW-3	8/22/2007	<50 j	<0.50	<1.0	<1.0	<1.0	NA	4.6	NA	NA	NA	<10	375.05	32.18	342.87
MW-3	11/26/2007	<50 j	<0.50	<1.0	<1.0	<1.0	NA	3.5	<2.0	<2.0	<2.0	<10	375.05	32.69	342.36
MW-3	2/19/2008	<50 j	<0.50	1.2	<1.0	<1.0	NA	2.6	NA	NA	NA	<10	375.05	30.94	344.11
MW-3	5/23/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	3.6	NA	NA	NA	<10	375.05	31.45	343.60
MW-3	8/7/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	3.0	NA	NA	NA	<10	375.05	31.40	343.65
MW-3	12/3/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	2.1	NA	NA	NA	<10	375.05	32.12	342.93

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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-3	2/5/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	1.1	NA	NA	NA	<10	375.05	32.74	342.31
MW-3	5/7/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	<10	375.05	31.69	343.36
MW-3	8/20/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	2.0	NA	NA	NA	<10	375.05	32.42	342.63
MW-3	11/9/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	1.7	<2.0	<2.0	<2.0	<10	375.05	32.54	342.51
MW-3	**2/11/2010**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**2.1**	**NA**	**NA**	**NA**	**<10**	**375.05**	**31.81**	**343.24**
MW-4	9/21/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	372.78	31.58	341.20
MW-4	9/28/2006	11,000	<250	<250	<250	<250	NA	13,000	NA	NA	NA	<10,000	372.78	31.57	341.21
MW-4	11/14/2006	30,000	<250	<250	<250	<250 h,i	NA	14,000	<250	<250	<250	<10,000	372.78	32.11	340.67
MW-4	2/1/2007	6,300	50	<5.0	19	120	NA	14,000	NA	NA	NA	NA	372.78	33.23	339.55
MW-4	6/1/2007	8,200 j	52	<25	26	150	NA	11,000	NA	NA	NA	NA	372.78	31.57	341.21
MW-4	8/22/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	372.78	33.40	339.38
MW-4	11/26/2007	12,000 j	71	<100	<100	<100	NA	20,000	<200	<200	<200	<1,000	372.78	34.74	338.04
MW-4	2/19/2008	13,000 j	<100	<200	<200	<200	NA	18,000	NA	NA	NA	2,900	372.78	29.70	343.08
MW-4	5/23/2008	21,000	<100	<200	<200	<200	NA	16,000	NA	NA	NA	<2,000	372.78	31.67	341.11
MW-4	8/7/2008	27,000	<100	<200	<200	<200	NA	21,000	NA	NA	NA	<2,000	372.78	31.90	340.88
MW-4	12/3/2008	20,000	19	<25	<25	29	NA	21,000	NA	NA	NA	2,500	372.78	34.32	338.46
MW-4	2/5/2009	15,000	200	<200	<200	<200	NA	13,000	NA	NA	NA	<2,000	372.78	34.58	338.20
MW-4	5/7/2009	18,000	<100	<200	<200	<200	NA	17,000	NA	NA	NA	<2,000	372.78	31.34	341.44
MW-4	8/20/2009	15,000	<50	<100	<100	<100	NA	13,000	NA	NA	NA	1,900	372.78	33.56	339.22
MW-4	11/9/2009	13,000	<50	<100	<100	<100	NA	11,000	<200	<200	<200	<1000	372.78	33.57	339.21
MW-4	**2/11/2010**	**11,000**	**95**	**<100**	**<100**	**110**	**NA**	**7,500**	**NA**	**NA**	**NA**	**3,200**	**372.78**	**31.21**	**341.57**
TB-1	2/12/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-1	2/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.54	NA
TB-1	5/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	NA	12.31	NA
TB-2	2/12/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-2	2/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.56	NA

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TB-2	5/14/2003	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.54	NA
TB-3	2/12/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-3	2/28/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-3	5/14/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-4	2/12/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-4	2/28/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-4	5/14/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to May 30, 2001, analyzed by EPA Method 8015.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to May 30, 2001, analyzed by EPA Method 8020.
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, 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

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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)

Notes:

a = Sample was analyzed outside of the EPA recommended holding time.

b = Concentration is an estimate value above the linear quantitation range.

c = The result reported was generated out of time. The sample was originally run within hold time, but needed to be re-analyzed.

d = Sample contains discrete peak in addition to gasoline.

e = Quantity of unknown hydrocarbon(s) in sample based on gasoline.

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

g = The result for this hydrocarbon is elevated due to the presence of single analyte peak(s) in the quantitation range.

h = Sample was originally analyzed with a positive result, however the reanalysis did not confirm the presence of the analyte.

i = Confirmatory analysis was past holding time.

j = Analyzed by EPA Method 8015B (M).

k = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

l = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

Well MW-1 surveyed on May 4, 1999 by Virgil Chavez Land Surveying of Vallejo, CA.

Site surveyed on March 19, 2000 by Virgil Chavez Land Surveying of Vallejo, CA.

Site surveyed on January 15, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

3Q06 survey data for wells MW-1B and MW-4 provided by Delta Environmental Consultants, Inc. of San Jose, CA.

APPENDIX A

AGENCY CORRESPONDENCE

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-93

August 7, 2009

Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Douglas and Mary Safreno
1627 Vineyard Avenue
Pleasanton, CA 94566-6389

Subject: Fuel Leak Case No. RO0000360 and Geotracker Global ID T0600101259, Shell#13-5782, 4226 First Street, Pleasanton, CA 94566 – Work Plan Approval

Dear Mr. Brown and Mr. and Ms. Safreno:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the reports entitled, "*Interim Remediation Work Plan, Shell-branded Service Station, 4212 First Street, Pleasanton, California*," dated June 1, 2009 (Work Plan). The Work Plan was prepared on Shell's behalf by Delta Environmental Consultants, Inc.

The Work Plan proposes installation of a soil vapor extraction and air sparging system including extraction wells, sparging wells, and observation wells for interim remediation to address elevated concentrations of fuel hydrocarbons in soil and groundwater at the site. The proposed scope of work is acceptable and may be implemented as proposed.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- **December 14, 2009** – System Installation and Start-up Report
- **45 days following the end of each quarter following system installation and start-up** – Quarterly Remediation Progress and Monitoring Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "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." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297
Senior Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Cheryl Dizon, QIC 80201, Zone 7 Water Agency, 100 North Canyons Parkway
Livermore, CA 94551

Danielle Stefani, Livermore-Pleasanton Fire Department, 3560 Nevada Street
Pleasanton, CA 94566

Suzanne McClurkin-Nelson, Delta Environmental Consultants, Inc., 312 Piercy Road, San Jose, CA 95138

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	ISSUE DATE: July 5, 2005
	REVISION DATE: March 27, 2009
	PREVIOUS REVISIONS: December 16, 2005, October 31, 2005
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection.** (Please do not submit reports as attachments to electronic mail.)
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements **must** be included and have either original or electronic signature.
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:
  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Additional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in **Excel** format. These are for use by assigned Caseworker only.

Submission Instructions

1) Obtain User Name and Password:
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to dehloptoxic@acgov.org
         Or
      ii) Send a fax on company letterhead to (510) 337-9335, to the attention of My Le Huynh.
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for.**

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape and Firefox browsers will not open the FTP site.
   b) Click on File, then on Login As.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload.** (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO# use the street address instead.
   d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

Suzanne McClurkin-Nelson

From: Wickham, Jerry, Env. Health [jerry.wickham@acgov.org]
Sent: Friday, December 04, 2009 6:03 PM
To: Suzanne McClurkin-Nelson
Cc: Regina Bussard; denis.l.brown@shell.com; Scott Pearson
Subject: RE: 4226 First St., Pleasanton (aka 4212) (Case No. RO0000360)

Suzanne,

The proposal to extend the schedule for submittal of a System Installation and Startup Report beyond December 14, 2009 and to provide a detailed schedule for proposed system installation no later than December 14, 2009 is acceptable. ACEH may provide additional comments pending review of the detailed schedule.

Regards,

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510-567-6791
jerry.wickham@acgov.org

From: Suzanne McClurkin-Nelson [mailto:SMcClurkin-Nelson@deltaenv.com]
Sent: Wednesday, November 25, 2009 2:12 PM
To: Wickham, Jerry, Env. Health
Cc: Suzanne McClurkin-Nelson; Regina Bussard; denis.l.brown@shell.com; Scott Pearson
Subject: 4226 First St., Pleasanton (aka 4212) (Case No. RO0000360)
Importance: High

Jerry; As we discussed Monday, I have attached a letter proposing a change in the deliverable requested in your letter dated August 7, 2009 as noted below:

- Provide detailed schedule of pre-field and field work for proposed system installation no later than December 14, 2009.
- Provide monthly status reports each month thereafter, beginning 1/15/10, until the system is installed, at which time a proposed date for submittal of a System Installation and Startup Report will be finalized.

Please let me know if this is an acceptable schedule - thanks!

Suzanne McClurkin-Nelson | Senior Project Manager | Global Oil & Gas Business Group
Delta Consultants, an Oranjewoud N.V. Company
Direct +1 408 826 1875 | Mobile +1 408 796 8889 | Alternate +1 408 582 4422
smcclurkin-nelson@deltaenv.com | www.deltaenv.com

Suzanne McClurkin-Nelson

From: Suzanne McClurkin-Nelson

Sent: Friday, January 29, 2010 10:11 AM

To: 'Wickham, Jerry, Env. Health'

Cc: Suzanne McClurkin-Nelson; Regina Bussard; 'denis.l.brown@shell.com'

Subject: Monthly Status Report (System Installation) - 4212 First, Pleasanton (Fuel Leak Case No. RO0000360)

Hello Jerry;

Remediation wells SVE-1 through SVE-4 were installed January 11-14, 2010, along with an observation well and a test air sparge well. An air sparge pilot test was completed on January 26, 2010 with preliminary field results indicating a good radius of influence (ROI). Following evaluation of the data and calculation of the site-specific ROI, spacing of the proposed nine remaining air sparge wells will be confirmed and a field event will be planned to complete installation of the remaining sparge wells. We should have an evaluation of the pilot test ready by the next status report.

We are ready to submit the Planning Department permit package as soon as we receive a signature from the property owner (package was sent to him January 7, 2010, but we have not yet received the signed documents back). Following receipt of the Planning Dept. permit, we will submit the Building Dept. permit. A reminder will be sent to the property owner next week in hopes of receiving his signature.

We have completed a draft application package for an Authority to Construct an SVE/AS system through the Bay Area Air Management District, which is currently undergoing engineering review. We are targeting submittal of the ATC application package by the end of February.

A monthly status report for February 2010 will be scheduled for submittal to you on February 26, 2010.

Suzanne McClurkin-Nelson | Senior Project Manager | North American Operations
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smcclurkin-nelson@deltaenv.com | www.deltaenv.com

Suzanne McClurkin-Nelson

From: Wickham, Jerry, Env. Health [jerry.wickham@acgov.org]
Sent: Wednesday, February 10, 2010 10:24 AM
To: 'Brown, Denis L SOPUS-OP-COR-H'; Suzanne McClurkin-Nelson
Subject: Draft Fact Sheet for 4212 First Street Pleasanton
Attachments: RO0360, Shell, 4226 First, Pleasanton Draft Fact Sheet 2010-02-09.doc

Denis and Suzanne,

Attached is a Draft Fact Sheet for the Shell site at 4212/4226 First Street in Pleasanton we discussed last week. Please review the Draft Fact Sheet and provide any comments. The Fact Sheet will be sent to residents within 200 feet of the site. I would like to send this out by February 25.

Regards,

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510-567-6791
jerry.wickham@acgov.org

DRAFT FACT SHEET
SHELL BRANDED SERVICE STATION #13-5782
February 9, 2010

Site Location: Shell#13-5782, 4226 First Street, Pleasanton, CA 94566
Fuel Leak Case #RO0000434 and Geotracker Global ID # T0600101259

Summary – This fact sheet has been prepared to inform community members and other interested parties of the status of a soil and groundwater cleanup at a service station site at 4226 First Street in Pleasanton, California. Shell Oil Products US, the lead responsible party for the fuel leak case, will be evaluating two remedial technologies (soil vapor extraction and air sparging) to cleanup up gasoline contamination that resulted from fuel leaks at the service station. Soil vapor extraction (SVE) applies a vacuum to unsaturated soils above the water table to induce a controlled flow of air containing volatile contaminants removed from the soil. Extracted air will be treated at the surface to remove fuel hydrocarbons from the vapor. The treated air will be sampled on a regular basis to assure that treated air from the system meets discharge requirements of the Bay Area Air Quality Management District.

Air sparging injects air below the water table to volatilize contaminants in groundwater that can then be recovered by SVE. Air sparging also increases the oxygen content of groundwater, which may also increase the rate of biodegradation of petroleum hydrocarbons in groundwater. Planning and permitting is currently underway to install the SVE and air sparging system. Permitting and system installation is expected to be completed between May and July 2010. Aboveground equipment used for the SVE/air sparging system will be located…***[please input location]***. Operation of the system will be monitored over time to evaluate whether SVE and air sparging may be effective for final site cleanup.

Background – The site is currently an operating Shell-branded service station. Four gasoline underground storage tanks were removed from the northern portion of site in 1985 and were replaced by three new USTs installed in front of the station building. Environmental investigations conducted to date have delineated an area of petroleum hydrocarbons in soil and groundwater encompassing the current and former USTs and extending along the direction of groundwater flow to the north and northeast beneath Vineyard Avenue and First Street.

Next Step – Shell Oil Products US is working with Alameda County Environmental Health (ACEH) to implement a soil and groundwater cleanup at the site. Two remedial technologies (SVE and air sparging) will be implemented on an interim basis to assess their effectiveness. Descriptions of the two remedial technologies and how they will be implemented at the site are described in a document prepared by Delta Environmental on behalf of Shell Oil Products US entitled, "*Interim Remediation Work Plan*," dated June 1, 2009. This report along with all reports and correspondence for the case can be viewed over the Internet on the ACEH website (http://www.acgov.org/aceh/lop/ust.htm) or the State of California Water Resources Control Board Geotracker website (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting). If you have any questions or comments regarding the ongoing soil and groundwater cleanup at the site, please contact Jerry Wickham at the address below.

Additional information: Contact Jerry Wickham of the Alameda County Department of Environmental Health, 1131 Harbor Bay Parkway, Alameda, CA 94502 at 510-567-6791 or by email at jerry.wickham@acgov.org

Suzanne McClurkin-Nelson

From: Suzanne McClurkin-Nelson
Sent: Wednesday, February 24, 2010 2:36 PM
To: 'Wickham, Jerry, Env. Health'
Cc: Suzanne McClurkin-Nelson; Regina Bussard; 'denis.l.brown@shell.com'
Subject: RE: Draft Fact Sheet for 4212 First Street Pleasanton
Importance: High
Attachments: RO0360 Shell 4226 First Pleasanton Draft Fact Sheet 2010-02-09.doc

Hi Jerry - I have made a few revisions to the Fact Sheet, sorry not to get it back to you sooner. We had to re-send the building permit application to the property owners for their signature (it was original sent to them Dec. 2009) and just this week got it back, so the complete application package will be submitted this week. I will send you an updated status report by Friday.

Let me know if you have any questions - thanks!

Suzanne McClurkin-Nelson | Senior Project Manager | North American Operations
Delta Consultants, an Oranjewoud N.V. Company
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SUSTAINABLE STRATEGIES FOR GLOBAL LEADERS

From: Wickham, Jerry, Env. Health [mailto:jerry.wickham@acgov.org]
Sent: Wednesday, February 10, 2010 10:24 AM
To: 'Brown, Denis L SOPUS-OP-COR-H'; Suzanne McClurkin-Nelson
Subject: Draft Fact Sheet for 4212 First Street Pleasanton

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Regards,

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510-567-6791
jerry.wickham@acgov.org

DRAFT FACT SHEET
SHELL BRANDED SERVICE STATION #13-5782
February 9, 2010

Site Location: Shell#13-5782, 4226 First Street, Pleasanton, CA 94566
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Air sparging (AS) injects air below the water table to volatilize contaminants in groundwater that can then be recovered by SVE. AS also increases the oxygen content of groundwater, which may also increase the rate of biodegradation of petroleum hydrocarbons in groundwater. Planning and permitting is currently underway to install the SVE and air sparging system. Permitting and system installation is expected to be completed between May 2010 and the end of the year. Aboveground equipment used for the SVE/AS system will be located in an enclosed treatment system compound situated in the area currently comprising two parking spaces in the landscaped area off of Vineyard Avenue. Operation of the system will be monitored over time to evaluate whether SVE and AS may be effective for final site cleanup.

Background – The site is currently an operating Shell-branded service station. Four gasoline underground storage tanks were removed from the northern portion of site in 1985 and were replaced by three new USTs installed in front of the station building. Environmental investigations conducted to date have delineated an area of petroleum hydrocarbons in soil and groundwater encompassing the current and former USTs and extending along the direction of groundwater flow to the north and northeast beneath Vineyard Avenue and First Street.

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Additional information: Contact Jerry Wickham of the Alameda County Department of Environmental Health, 1131 Harbor Bay Parkway, Alameda, CA 94502 at 510-567-6791 or by email at jerry.wickham@acgov.org

Suzanne McClurkin-Nelson

From: Wickham, Jerry, Env. Health [jerry.wickham@acgov.org]
Sent: Wednesday, February 24, 2010 3:35 PM
To: Suzanne McClurkin-Nelson
Cc: Regina Bussard; denis.l.brown@shell.com
Subject: RE: Draft Fact Sheet for 4212 First Street Pleasanton

Hi Suzanne,

Thank you for the comments! The Fact Sheet should go out tomorrow.

Regards,

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510-567-6791
jerry.wickham@acgov.org

From: Suzanne McClurkin-Nelson [mailto:SMcClurkin-Nelson@deltaenv.com]
Sent: Wednesday, February 24, 2010 2:36 PM
To: Wickham, Jerry, Env. Health
Cc: Suzanne McClurkin-Nelson; Regina Bussard; denis.l.brown@shell.com
Subject: RE: Draft Fact Sheet for 4212 First Street Pleasanton
Importance: High

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Let me know if you have any questions - thanks!

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smcclurkin-nelson@deltaenv.com | www.deltaenv.com

From: Wickham, Jerry, Env. Health [mailto:jerry.wickham@acgov.org]
Sent: Wednesday, February 10, 2010 10:24 AM
To: 'Brown, Denis L SOPUS-OP-COR-H'; Suzanne McClurkin-Nelson
Subject: Draft Fact Sheet for 4212 First Street Pleasanton

Denis and Suzanne,

Attached is a Draft Fact Sheet for the Shell site at 4212/4226 First Street in Pleasanton we discussed last week. Please review the Draft Fact Sheet and provide any comments. The Fact Sheet will be sent to residents within 200 feet of the site. I would like to send this out by February 25.

Regards,

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510-567-6791
jerry.wickham@acgov.org

Suzanne McClurkin-Nelson

From: Suzanne McClurkin-Nelson

Sent: Friday, February 26, 2010 5:06 PM

To: Wickham, Jerry, Env. Health

Cc: Suzanne McClurkin-Nelson; Regina Bussard; denis.l.brown@shell.com

Subject: Monthly Status Report (System Installation) - 4212 First, Pleasanton (Fuel Leak Case No. RO0000360)

Hello Jerry;

A review of data from the air sparge pilot test conducted January 26, 2010 indicates that the proposed number and placement of wells should be adequate to remediate the general source area. There may be some minor adjustements to ensure optimal coverage, but we are not recommendation a change in the number or general configuration of wells as currently proposed. A detailed engineering review of the results should be completed by the middle of next week, and once final placement of the remaining air sparge wells has been confirmed we will schedule the installation of the remaining wells.

An evaluation of the Fact Sheet which you drafted and submitted to Delta for review was completed and the Fact Sheet was scheduled for distribution by your office at the end of this week. We were finally able to secure the property owners signature for the Planning Department permit, and a permit application package was submitted to the City of Pleasanton on January 25, 2010. Following receipt of the Planning Dept. permit, we will submit a Building Department permit application. The application package for an Authority to Construct an SVE/AS system through the Bay Area Air Management District should be finalized and submitted within the next two weeks.

A monthly status report for March 2010 will be scheduled for submittal to you on March 31, 2010. Please let me know if you have any questions or comments. Thanks!

Suzanne McClurkin-Nelson | Senior Project Manager | North American Operations
Delta Consultants, an Oranjewoud N.V. Company
Direct +1 408 826 1875 | Mobile +1 408 796 8889 | Alternate +1 408 582 4422
smcclurkin-nelson@deltaenv.com | www.deltaenv.com

Suzanne McClurkin-Nelson

From: Suzanne McClurkin-Nelson

Sent: Wednesday, March 31, 2010 3:45 PM

To: Wickham, Jerry, Env. Health

Cc: 'denis.l.brown@shell.com'; Suzanne McClurkin-Nelson; Regina Bussard; Matt Lambert

Subject: March 2010 Monthly Status Report (System Installation) - 4212 First, Pleasanton (Fuel Leak Case No. RO0000360)

Hello Jerry;

The City of Pleasanton Planning Department requested additional information and multiple plan copies following submittal of the initial planning permit application package (based on the City of Pleasanton Administrative Design Review brochure provided on their website). A report on the air sparge (AS) pilot test results has been completed in draft form and is currently in senior engineering review; the report should be forwarded for client review by the end of this week and submitted final by mid-April. Based on the detailed review of the draft report and earlier dual-phase extraction (DPE) pilot test results from 2009, we are currently considering the addition of a 5th soil vapor extraction well to the system, specficially to address groundwater impacts to well MW-2. An application package for an authority to construct (ATC) through the Bay Area Air Quality Management District (BAAQMD) has been submitted; a letter dated March 17, 2010 was submitted by BAAQMD to Delta Consultants acknowledging receipt of the ATC application and providing a point of contact for further information and questions.

Wells SVE-1 through SVE-4 were installed January 12 thrugh 14, 2010, in addition to one AS well and an observation well. Once the system design and well number and placement have been finalized, the remaining remediation wells will be installed (currently proposed are 9 additional AS wells and possibly one additional SVE well).

Final system design recommendations will be included in the AS pilot test report which should be submitted by mid-April, and the planning permit application package will be re-submitted with the final system design drawings. The first quarter 2010 quarterly monitoring report will be submitted by May 14, 2010. A monthly status report for April 2010 will be scheduled for submittal to you no later than April 30, 2010. Please let me know if you have any questions or comments. Thanks!

Suzanne McClurkin-Nelson | Senior Project Manager | North American Operations
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smcclurkin-nelson@deltaenv.com | www.deltaenv.com

APPENDIX B

BLAINE TECH SERVICES, INC.
FIELD DATA SHEETS

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 4212 First Street Pleasanton Ca. Date 2/11/10

Job Number 100211-DR1 Technician DR Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Well Box Meets Compliance Requirements *See Below	Water Bailed From Wellbox	Cap Replaced	Lock Replaced	Well Not Inspected (explain in notes)	New Deficiency Identified	Previously Identified Deficiency Persists	Notes
MW-1		X					X		Rim seal (rubber) is damaged. Needs new one.
MW-1B	X	X							
MW-2	X	X							
MW-3	X	X							
MW-4		X			X		X		~~1 of 2 bolts~~. Cap was off when opened well. No lock on cap. Put cap on at departure. Put new lock on. Found missing bolt under water, in box.

*Well box must meet all three criteria to be compliant: 1) WELL IS SECURABLE BY DESIGN (12"or less) 2) WELL IS MARKED WITH THE WORDS "MONITORING WELL" (12"or less) 3) WELL TAG IS PRESENT, SECURE, AND CORRECT

Notes:

WELL GAUGING DATA

Project # 100211-DR1 Date 2/11/10 Client Shell

Site 4212 First St. Pleasanton Ca.

Well ID	Time	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	Notes
MW-1	0808	2					34.06	56.92		
MW-1B	0751	4					90.72	107.89		
MW-2	0803	4					32.07	45.86		
MW-3	0758	4					31.81	34.90		
MW-4	0818	4					31.21	46.67	↓	

SHE[illegible] WELL MONITORING DA'[illegible] SHEET

BTS #: 100211-DR1	Site: 4212 First St. Pleasanton Ca.
Sampler: DR	Date: 2/11/10
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 56.92	Depth to Water (DTW): 34.06
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]: 38.63	

Purge Method: X Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other ____

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: ____

3.7 (Gals.) X	3	=	11.1 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0947	66.7	6.5	1852	784	3.7	cloudy
0955	64.6	6.4	1887	>1000	7.4	
1002	64.7	6.4	1879	>1000	11.1	DTW = 42.96

Did well dewater? Yes (No) Gallons actually evacuated: 11.1

Sampling Date: 2/11/10 Sampling Time: 1510 Depth to Water: 38.26 (2 hr. wait)

Sample I.D.: MW-1 Laboratory: (CalScience) Columbia Other ____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See CoC

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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

SHEET WELL MONITORING DATA SHEET

BTS #: 100211-DR1	Site: 4212 First St. Pleasanton Ca.
Sampler: DR	Date: 2/11/10
Well I.D.: MW-1B	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 107.89	Depth to Water (DTW): 90.72
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]: 94.15	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

11.2 (Gals.) X	3	= 33.6 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
0849	64.8	6.9	1240	178	11.2	light cloudy
0852	67.3	6.9	1270	301	22.4	cloudy
0854	67.5	6.9	1281	334	33.6	"

Did well dewater? Yes (No) Gallons actually evacuated: 33.6

Sampling Date: 2/11/10 Sampling Time: 0900 Depth to Water: 93.02 (2hr wait)

Sample I.D.: MW-1B Laboratory: (CalScience) Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See CoC

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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

SHE[illegible] WELL MONITORING DA[illegible] SHEET

BTS #: 100211-DR1	Site: 4212 First St. Pleasanton Ca.
Sampler: DR	Date: 2/11/10
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 45.86	Depth to Water (DTW): 32.07
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]: 34.83	

Purge Method:
- Bailer
- Disposable Bailer
- Positive Air Displacement
- X Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other ____

Sampling Method:
- X Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: ____

9.0 (Gals.) X 3 = 27.0 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
0927	66.5	6.5	961	12	9.0	
0929	68.8	6.4	994	14	18.0	
* Well	dewatered	@	19.5 gal.			DTW = 43.22
1500	69.0	6.5	982	10	—	

Did well dewater? (Yes) No Gallons actually evacuated: 19.5

Sampling Date: 2/11/10 Sampling Time: 1500 Depth to Water: 36.412 (2hr wait)

Sample I.D.: MW-2 Laboratory: (CalScience) Columbia Other ____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See CoC

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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

SHI[illegible] WELL MONITORING DA[illegible] SHEET

BTS #: 100211-DR1	Site: 4212 First St. Pleasanton Ca.
Sampler: DR	Date: 2/11/10
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 34.90	Depth to Water (DTW): 31.81
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]: 32.43	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other ____

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: ____

2.0 (Gals.) X	3	= 6.0 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
0910	62.81	6.9	642	139	2.0	
* Well dewatered @ 2.5 gal						DTW = 32.94
1450	68.22	6.9	650	42	—	

Did well dewater? (Yes) No Gallons actually evacuated: 2.5

Sampling Date: 2/11/10 Sampling Time: 1450 Depth to Water: 31.90

Sample I.D.: MW-3 Laboratory: (CalScience) Columbia Other ____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See CoC

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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 #: 100211-DR1	Site: 4212 First St. Pleasanton Ca.
Sampler: DR	Date: 2/11/10
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 46.67	Depth to Water (DTW): 31.21
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]: 34.30	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other ___

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: ___

10.0 (Gals.) X	3	= 30.0 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
1009	67.7	6.5	966	146	10.0	
1011	68.6	6.5	964	>1000	20.0	
* Well	dewatered @	21.0 gal.	(Conducted over-purge per client.			DTW= 44.20
1404	68.7	6.6	967	322	9.6	DTW= 31.89
1406	69.3	6.5	961	>1000	19.2 *Dewatered	DTW = 44.23

Did well dewater? (Yes) No Gallons actually evacuated: 21.0 / 19.2

Sampling Date: 2/11/10 Sampling Time: 1606 Depth to Water: 36.12 (2 hr. wait)

Sample I.D.: MW-4 Laboratory: (CalScience) Columbia Other ___

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See CoC

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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

1606 | 69.4 | 6.5 | 964 | 21 | →

* Cap was off of well upon arrival. Contacted PM, Cap was re-installed.

APPENDIX C

BLAINE TECH SERVICES, INC.
FIELD PROCEDURES

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

March 2, 2010

Denis Brown
Shell Oil Products US
2095 South Wilmington Avenue
Carson, CA 90810

First Quarter 2010 Groundwater Monitoring at
Shell-branded Service Station
4212 First Street
Pleasanton, CA

Monitoring performed on February 11, 2010

Groundwater Monitoring Report **100211-DR-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.

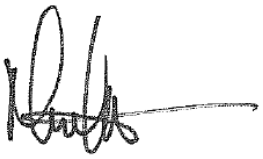
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

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 Manager

MN/np

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

cc: Suzanne McClurkin-Nelson
Delta Environmental
175 Bernal Rd., Suite 200
San Jose, CA 95119

BLAINE TECH SERVICES, INC.
METHODS AND PROCEDURES
FOR THE ROUTINE MONITORING OF
GROUNDWATER WELLS AT SHELL SITES

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. We specialize in groundwater monitoring assignments and intentionally limit the scope of our services to those centered on the generation of objective information.

To avoid conflicts of interest, Blaine Tech Services, Inc. personnel do not evaluate or interpret the information we collect. As a state licensed contractor (C-57 well drilling –water – 746684) performing strictly technical services, we do not make any professional recommendations and perform no consulting of any kind.

SAMPLING PROCEDURES OVERVIEW

SAFETY

All groundwater monitoring assignments performed for Shell comply with Shell's safety guidelines, 29 CFR 1910.120 and SB-198 Injury and Illness Prevention Program (IIPP). All Field Technicians receive the full 40-hour 29CFR 1910.120 OSHA SARA HAZWOPER course, medical clearance and on-the-job training prior to commencing any work on any Shell site.

INSPECTION AND GAUGING

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist.

Standard measurements include the depth to water (DTW) and the total well depth (TD) obtained with industry standard electronic water level indicators that are graduated in increments of hundredths of a foot.

The water in each well is inspected for the presence of immiscibles. When free product is suspected, its presence is confirmed using an electronic interface probe (e.g. MMC). No samples are collected from a well containing over two-hundredths of a foot (0.02') of product.

EVACUATION

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and are set at no less than four case volumes in some jurisdictions.

Well purging devices are selected on the basis of the well diameter and the total volume to be evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well.

PARAMETER STABILIZATION

Well purging completion standards include minimum purge volumes, but additionally require stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature. Instrument readings are obtained at regular intervals during the evacuation process (no less than once per case volume).

Stabilization standards for routine quarterly monitoring of fuel sites include the following: Temperature is considered to have stabilized when successive readings do not fluctuate more than +/- 1 degree Celsius. Electrical conductivity is considered stable when successive readings are within 10%. pH is considered to be stable when successive readings remain constant or vary no more than 0.2 of a pH unit.

DEWATERED WELLS

Normal evacuation removes no less than three case volumes of water from the well. However, less water may be removed in cases where the well dewaters and does not immediately recharge.

MEASURING RECHARGE

Upon completion of well purging, a depth to water measurement is collected and notated to ensure that the well has recharged to within 80% of its static, pre-purge level prior to sampling.

Wells that do not immediately show 80% recharge or dewatered wells will be allowed a minimum of 2 hours to recharge prior to sampling. The water level at time of sampling will be noted.

PURGEWATER CONTAINMENT

All non-hazardous purgewater evacuated from each groundwater monitoring well is captured and contained in on-board storage tanks on the Sampling Vehicle and/or special water hauling trailers. Effluent from the decontamination of reusable apparatus (sounders, electric pumps and hoses etc.), consisting of groundwater combined with deionized water and non-phosphate soap, is also captured and pumped into effluent tanks.

Non-hazardous purgewater is transported under standard Bill of Lading documentation to a Blaine Tech Services, Inc. facility before being transported to a Shell approved disposal facility.

SAMPLE COLLECTION DEVICES

All samples are collected using a stainless steel, Teflon or disposable bailers.

SAMPLE CONTAINERS

Sample material is decanted directly from the sampling bailer into sample containers provided by the laboratory that will analyze the samples. The transfer of sample material from the bailer to the sample container conforms to specifications contained in the USEPA T.E.G.D. The type of sample container, material of construction, method of closure and filling requirements are specific to the intended analysis. Chemicals needed to preserve the sample material are commonly placed inside the sample containers by the laboratory or glassware vendor prior to delivery of the bottle to our personnel. The laboratory sets the number of replicate containers.

TRIP BLANKS

Trip Blanks, if requested, are taken to the site and kept inside the sample cooler for the duration of the event. They are turned over to the laboratory for analysis with the samples from that site.

DUPLICATES

Duplicates, if requested, may be collected at a site. The Field Technician uses their discretion in choosing the well at which the Duplicate is collected, typically one suspected of containing measurable contaminants. The Duplicate sample is labeled "DUP" and the time of collection is omitted from the COC, thus rendering the sample blind.

SAMPLE STORAGE

All sample containers are promptly placed in food grade ice chests for storage in the field and transport (direct or via our facility) to the designated analytical laboratory. These ice chests contain quantities of restaurant grade ice as a refrigerant material. The samples are maintained in either an ice chest or a refrigerator until relinquished into the custody of the laboratory or laboratory courier.

DOCUMENTATION CONVENTIONS

A label must be affixed to all sample containers. In most cases these labels are generated by our office personnel and are partially preprinted. Labels can also be hand written by our field personnel. The site is identified with the store number and site address, as is the particular groundwater well from which the sample is drawn (e.g. MW-1, MW-2, S-1 etc.). The time and date of sample collection along with the initials of the person who collects the sample are handwritten onto the label.

Chain of Custody records are created using client specific preprinted forms following USEPA specifications.

Bill of Lading records are contemporaneous records created in the field at the site where the non-hazardous purgewater is generated. Field Technicians use preprinted Bill of Lading forms.

DECONTAMINATION

All equipment is brought to the site in clean and serviceable condition and is cleaned after use in each well and before subsequent use in any other well. Equipment is decontaminated before leaving the site.

The primary decontamination device is a commercial steam cleaner. The steam cleaner is de-tuned to function as a hot pressure washer that is then operated with high quality deionized water that is produced at our facility and stored onboard our sampling vehicle. Cleaning is facilitated by the use of proprietary fixtures and devices included in the patented workstation (U.S. Patent 5,535,775) that is incorporated in each sampling vehicle. The steam cleaner is used to decon reels, pumps and bailers.

Any sensitive equipment or parts (i.e. Dissolved Oxygen sensor membrane, water level indicator, etc.) that cannot be washed using the high pressure water, will be sprayed with a non-phosphate soap and deionized water solution and rinsed with deionized water.

DISSOLVED OXYGEN READINGS

Dissolved Oxygen readings are taken pre- and/or post-purge using YSI meters (e.g. YSI Model 54, 58 or 95) or HACH field test kits.

The YSI meters are equipped with a stirring device that enables them to collect accurate in-situ readings. The probe/stirring devices are modified to allow downhole measurements to be taken from wells with diameters as small as two inches. The probe and reel is decontaminated between wells as described above. The meter is calibrated between wells as per the instructions in the operating manual. The probe and stirrer is lowered into the water column. The reading is allowed to stabilize prior to collection.

OXYIDATON REDUCTION POTENTIAL READINGS

All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter GP). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual.

FERROUS IRON MEASUREMENTS

All field measurements are collected at time of sampling with a HACH test kit.

APPENDIX D

CERTIFIED ANALYTICAL REPORT WITH CHAIN-OF-CUSTODY DOCUMENTATION

Calscience Environmental Laboratories, Inc.

February 24, 2010

Michael Ninokata
Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject: **Calscience Work Order No.: 10-02-1261**
Client Reference: 4212 First St., Pleasanton, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/13/2010 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Philip Hamelle for

Calscience Environmental
Laboratories, Inc.
Xuan H. Dang
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 02/13/10
Work Order No: 10-02-1261
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 4212 First St., Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	**10-02-1261-1-A**	**02/11/10 15:10**	**Aqueous**	**GC/MS RR**	**02/15/10**	**02/15/10 22:46**	**100215L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	30	10	20		Methyl-t-Butyl Ether (MTBE)	3000	20	20	
Ethylbenzene	ND	20	20		Tert-Butyl Alcohol (TBA)	730	200	20	
Toluene	ND	20	20		TPPH	4400	1000	20	
Xylenes (total)	ND	20	20						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	102	80-132			1,2-Dichloroethane-d4	98	80-141		
Toluene-d8	97	80-120			Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	86	76-120							

MW-1B	**10-02-1261-2-A**	**02/11/10 09:00**	**Aqueous**	**GC/MS RR**	**02/15/10**	**02/15/10 23:13**	**100215L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	1.1	1.0	1	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Xylenes (total)	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	102	80-132			1,2-Dichloroethane-d4	97	80-141		
Toluene-d8	97	80-120			Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	85	76-120							

MW-2	**10-02-1261-3-A**	**02/11/10 15:00**	**Aqueous**	**GC/MS RR**	**02/15/10**	**02/15/10 23:40**	**100215L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	12	25		Methyl-t-Butyl Ether (MTBE)	3200	25	25	
Ethylbenzene	ND	25	25		Tert-Butyl Alcohol (TBA)	ND	250	25	
Toluene	ND	25	25		TPPH	4300	1200	25	
Xylenes (total)	ND	25	25						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	103	80-132			1,2-Dichloroethane-d4	97	80-141		
Toluene-d8	97	80-120			Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	86	76-120							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Blaine Tech Services, Inc.		Date Received:	02/13/10
1680 Rogers Avenue		Work Order No:	10-02-1261
San Jose, CA 95112-1105		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L

Project: 4212 First St., Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	**10-02-1261-4-A**	**02/11/10 14:50**	**Aqueous**	**GC/MS RR**	**02/17/10**	**02/17/10 19:16**	**100217L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	2.1	1.0	1	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Xylenes (total)	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	103	80-132			1,2-Dichloroethane-d4	99	80-141		
Toluene-d8	98	80-120			Toluene-d8-TPPH	104	88-112		
1,4-Bromofluorobenzene	91	76-120							

MW-4	**10-02-1261-5-A**	**02/11/10 16:06**	**Aqueous**	**GC/MS RR**	**02/17/10**	**02/17/10 19:44**	**100217L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	95	50	100		Methyl-t-Butyl Ether (MTBE)	7500	100	100	
Ethylbenzene	ND	100	100		Tert-Butyl Alcohol (TBA)	3200	1000	100	
Toluene	ND	100	100		TPPH	11000	5000	100	
Xylenes (total)	110	100	100						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	104	80-132			1,2-Dichloroethane-d4	101	80-141		
Toluene-d8	100	80-120			Toluene-d8-TPPH	103	88-112		
1,4-Bromofluorobenzene	92	76-120							

Method Blank	**099-12-767-3,412**	**N/A**	**Aqueous**	**GC/MS RR**	**02/15/10**	**02/15/10 15:57**	**100215L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Xylenes (total)	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	99	80-132			1,2-Dichloroethane-d4	92	80-141		
Toluene-d8	97	80-120			Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	89	76-120							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.		Date Received:	02/13/10
1680 Rogers Avenue		Work Order No:	10-02-1261
San Jose, CA 95112-1105		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L

Project: 4212 First St., Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-3,430**	**N/A**	**Aqueous**	**GC/MS RR**	**02/17/10**	**02/17/10 14:17**	**100217L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
Xylenes (total)	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	101	80-132		1,2-Dichloroethane-d4	96	80-141	
Toluene-d8	100	80-120		Toluene-d8-TPPH	106	88-112	
1,4-Bromofluorobenzene	91	76-120					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 02/13/10
Work Order No: 10-02-1261
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 4212 First St., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-02-1233-1	**Aqueous**	**GC/MS RR**	**02/15/10**	**02/15/10**	**100215S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	89	93	72-120	4	0-20	
Carbon Tetrachloride	85	87	63-135	3	0-20	
Chlorobenzene	93	97	80-120	4	0-20	
1,2-Dibromoethane	91	93	80-120	2	0-20	
1,2-Dichlorobenzene	96	101	80-120	5	0-20	
1,1-Dichloroethene	83	85	60-132	3	0-24	
Ethylbenzene	94	97	78-120	3	0-20	
Toluene	93	96	74-122	3	0-20	
Trichloroethene	87	90	69-120	3	0-20	
Vinyl Chloride	72	73	58-130	1	0-20	
Methyl-t-Butyl Ether (MTBE)	72	80	72-126	3	0-21	
Tert-Butyl Alcohol (TBA)	77	81	72-126	4	0-20	
Diisopropyl Ether (DIPE)	87	93	71-137	7	0-23	
Ethyl-t-Butyl Ether (ETBE)	85	90	74-128	6	0-20	
Tert-Amyl-Methyl Ether (TAME)	92	94	76-124	3	0-20	
Ethanol	83	90	35-167	8	0-48	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 02/13/10
Work Order No: 10-02-1261
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 4212 First St., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-02-1268-2	**Aqueous**	**GC/MS RR**	**02/17/10**	**02/17/10**	**100217S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	110	110	72-120	0	0-20	
Carbon Tetrachloride	108	107	63-135	1	0-20	
Chlorobenzene	106	106	80-120	0	0-20	
1,2-Dibromoethane	112	113	80-120	1	0-20	
1,2-Dichlorobenzene	104	105	80-120	1	0-20	
1,1-Dichloroethene	105	106	60-132	1	0-24	
Ethylbenzene	111	110	78-120	1	0-20	
Toluene	109	109	74-122	0	0-20	
Trichloroethene	106	106	69-120	0	0-20	
Vinyl Chloride	77	79	58-130	3	0-20	
Methyl-t-Butyl Ether (MTBE)	106	109	72-126	3	0-21	
Tert-Butyl Alcohol (TBA)	100	107	72-126	7	0-20	
Diisopropyl Ether (DIPE)	107	109	71-137	1	0-23	
Ethyl-t-Butyl Ether (ETBE)	111	113	74-128	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	111	111	76-124	0	0-20	
Ethanol	88	110	35-167	22	0-48	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 10-02-1261
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 4212 First St., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-3,412	**Aqueous**	**GC/MS RR**	**02/15/10**	**02/15/10**	**100215L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	93	94	80-122	73-129	1	0-20	
Carbon Tetrachloride	88	88	68-140	56-152	0	0-20	
Chlorobenzene	97	99	80-120	73-127	2	0-20	
1,2-Dibromoethane	99	99	80-121	73-128	0	0-20	
1,2-Dichlorobenzene	101	101	80-120	73-127	0	0-20	
1,1-Dichloroethene	86	87	72-132	62-142	1	0-25	
Ethylbenzene	96	96	80-126	72-134	0	0-20	
Toluene	93	95	80-121	73-128	1	0-20	
Trichloroethene	88	89	80-123	73-130	1	0-20	
Vinyl Chloride	69	69	67-133	56-144	0	0-20	
Methyl-t-Butyl Ether (MTBE)	89	88	75-123	67-131	1	0-20	
Tert-Butyl Alcohol (TBA)	89	97	75-123	67-131	9	0-20	
Diisopropyl Ether (DIPE)	89	89	71-131	61-141	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	89	89	76-124	68-132	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	98	97	80-123	73-130	1	0-20	
Ethanol	99	101	61-139	48-152	2	0-27	
TPPH	90	90	65-135	53-147	0	0-30	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 10-02-1261
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 4212 First St., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-3,430	**Aqueous**	**GC/MS RR**	**02/17/10**	**02/17/10**	**100217L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	100	102	80-122	73-129	1	0-20	
Carbon Tetrachloride	95	97	68-140	56-152	2	0-20	
Chlorobenzene	98	100	80-120	73-127	1	0-20	
1,2-Dibromoethane	102	104	80-121	73-128	2	0-20	
1,2-Dichlorobenzene	94	98	80-120	73-127	4	0-20	
1,1-Dichloroethene	94	95	72-132	62-142	2	0-25	
Ethylbenzene	102	103	80-126	72-134	1	0-20	
Toluene	98	100	80-121	73-128	1	0-20	
Trichloroethene	97	99	80-123	73-130	2	0-20	
Vinyl Chloride	99	96	67-133	56-144	3	0-20	
Methyl-t-Butyl Ether (MTBE)	99	104	75-123	67-131	6	0-20	
Tert-Butyl Alcohol (TBA)	95	95	75-123	67-131	1	0-20	
Diisopropyl Ether (DIPE)	100	102	71-131	61-141	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	103	107	76-124	68-132	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	99	105	80-123	73-130	5	0-20	
Ethanol	89	91	61-139	48-152	2	0-27	
TPPH	92	90	65-135	53-147	2	0-30	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 10-02-1261

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☑ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☐ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
- ☐ ~~ENV. SERVICES~~
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☒ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER _____

Print Bill To Contact Name: ~~Denis Brown~~ Suzanne McClurkin-Nelson

INCIDENT # (ENV SERVICES): 98995840

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 2/11/10

PAGE: 1 of 1

PO #:

SAP #:

SAMPLING COMPANY: Blaine Tech Services	LOG CODE: BTSS	SITE ADDRESS: Street and City: 4212 First St., Pleasanton	State: CA
ADDRESS: 1680 Rogers Ave, San Jose, CA 95112		GLOBAL ID NO: T0600101259	
PROJECT CONTACT (Hardcopy or PDF Report to): Michael Ninokata		EDF DELIVERABLE TO (Name, Company, Office Location): Angela Pico, Delta, San Jose Office	PHONE NO: 408.826.1862
TELEPHONE: (408)573-0555	FAX: (408)573-7771	E-MAIL: mninokata@blainetech.com	E-MAIL: apico@deltaenv.com
SAMPLER NAME(S) (Print): D. Rayral		CONSULTANT PROJECT NO: BTS # 100211-DR1	
		LAB USE ONLY: 10-02-1261	

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :
CC Suzanne McClurkin-Nelson w/final report
smcclurkin-nelson@deltaenv.com
Run TPH-d w/Silica Gel Clean Up

☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B) (MTBE, TBA, DIPE, TAME, ETBE)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	MW-1	2/11/10	1510	W	X					3	X		X		X	X								
2	MW-1B		0900	W	X					3	X		X		X	X								
3	MW-2		1500	W	X					3	X		X		X	X								
4	MW-3		1450	W	X					3	X		X		X	X								
5	MW-4		1606	W	X					3	X		X		X	X								

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature] (sample custodian)	2/11/10	1645
[signature] (sample Cust)	[signature] CEL	2/12/10	1220
[signature] GSD 2-12-10 1730	[signature] CEL	2/13/10	9:45

05/2/06 Revision

1261

GSO

WebShip > > > > >

800-322-5555 www.gso.com

Ship From:
ALAN KEMP
CAL SCIENCE- CONCORD
5063 COMMERCIAL CIRCLE #H
CONCORD, CA 94520

Ship To:
SAMPLE RECEIVING
CEL
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD:
$0.00

Reference:
ERI, BTS

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 513566095

SDS

ORC

D

GARDEN GROVE

D92843A

79303928

Print Date : 02/12/10 15:08 PM

Package 1 of 1

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 10-02-1261

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: BTS DATE: 02/13/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.2 °C + 0.5 °C (CF) = 2.7 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** JLD

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** JLD

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** _____

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA (2) ☑VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** _____

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** WSC

Preservative: h: HCL n: HNO3 na$_2$:$Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** _____