CONESTOGA-ROVERS & ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
www.CRAworld.com

TRANSMITTAL

DATE: February 2, 2010

REFERENCE NO.: 240894

PROJECT NAME: 1800½ Powell Street, Emeryville

TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

RECEIVED
8:56 am, Feb 09, 2010
Alameda County
Environmental Health

Please find enclosed:
- ☐ Draft
- ☐ Originals
- ☐ Prints
- ☒ Final
- ☐ Other

Sent via:
- ☒ Mail
- ☐ Overnight Courier
- ☐ Same Day Courier
- ☒ Other GeoTracker and Alameda County FTP

QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report – Fourth Quarter 2009

- ☐ As Requested
- ☐ For Your Use
- ☒ For Review and Comment
- ☐
- ☐

COMMENTS:
If you have any questions regarding the contents of this document, please call Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US, 20945 S. Wilmington Avenue, Carson, CA 90810
SF Data Room (electronic copy)

Completed by: Peter Schaefer Signed: Peter Schaefer

Filing: **Correspondence File**

Denis L. Brown
Shell Oil Products US
HSE - Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Shell-branded Service Station
1800 ½ Powell Street
Emeryville, California
SAP Code 135266
Incident No. 98995349
ACEH Case No. RO0000254

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

Denis L. Brown
Project Manager

GROUNDWATER MONITORING REPORT - FOURTH QUARTER 2009

SHELL-BRANDED SERVICE STATION
1800½ POWELL STREET
EMERYVILLE, CALIFORNIA

SAP CODE	135266
INCIDENT NO.	98995349
AGENCY NO.	RO0000254

Prepared by:
Conestoga-Rovers & Associates

5900 Hollis Street, Suite A
Emeryville, California
U.S.A. 94608

Office: (510) 420-0700
Fax: (510) 420-9170

web: http://www.CRAworld.com

FEBRUARY 2, 2010
REF. NO. 240894 (2)
This report is printed on recycled paper.

TABLE OF CONTENTS

LIST OF FIGURES
(Following Text)

LIST OF APPENDICES

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell).

1.1 SITE INFORMATION

Site Address	1800½ Powell Street, Emeryville
Site Use	Shell-branded Service Station
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACEH, Jerry Wickham
Agency Case No.	RO0000254
Shell SAP Code	135266
Shell Incident No.	98995349

Date of most recent agency correspondence was July 24, 2009.

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 CURRENT ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled the wells according to the established monitoring program for this site.

CRA prepared a vicinity map (Figure 1) and a groundwater contour and chemical concentration map (Figure 2). Blaine's report, presenting the analytical data, is included in Appendix A.

2.2 CURRENT FINDINGS

Groundwater Flow Direction	Predominantly southerly
Hydraulic Gradient	0.03
Depth to Water	8.00 to 10.31 feet below top of well casing

2.3 PROPOSED ACTIVITIES

Blaine will gauge and sample wells according to the established monitoring program for this site. This site is monitored annually during the fourth quarter, and CRA will issue a groundwater monitoring report annually following the sampling event.

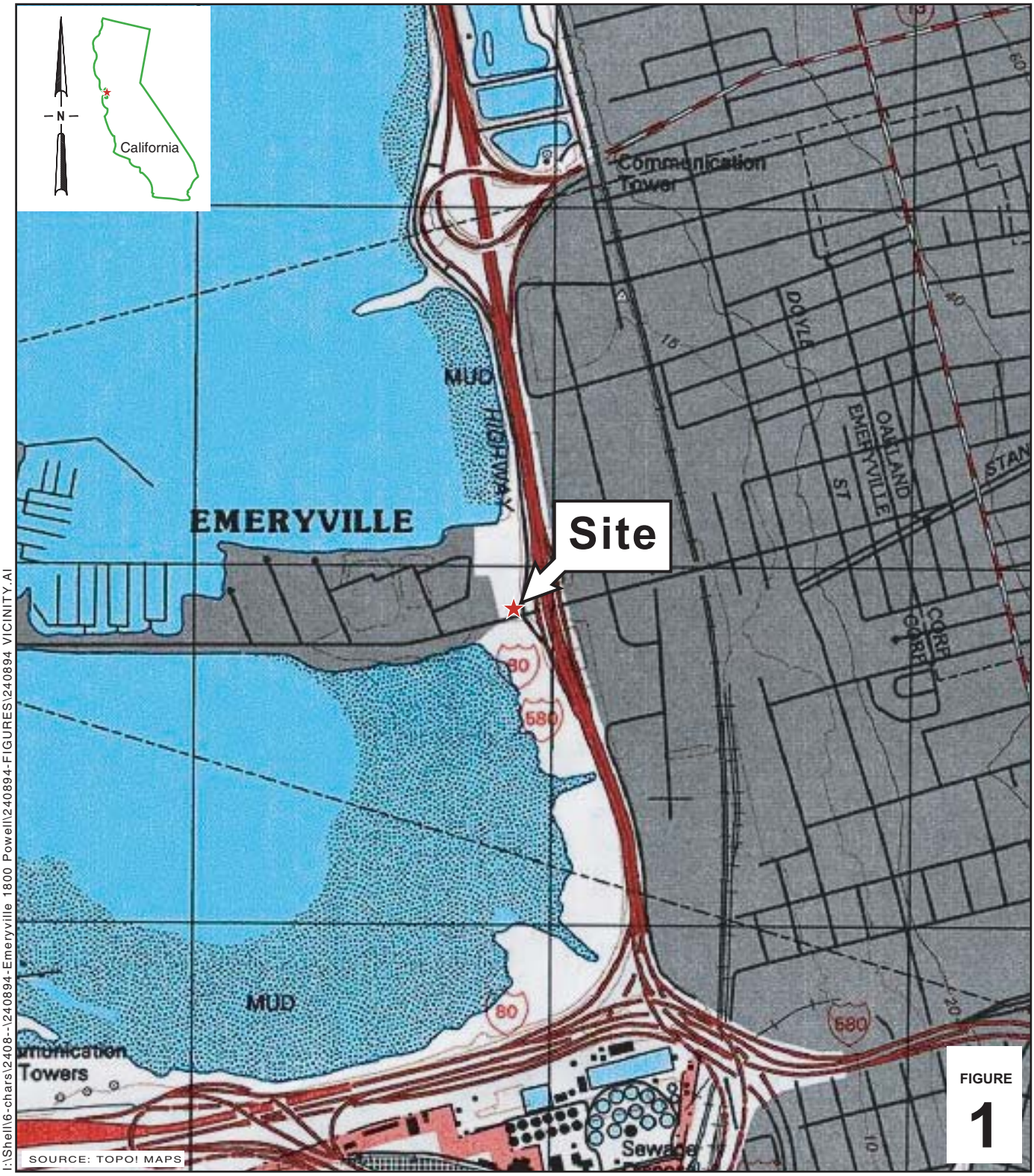
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer, CHG, CEG

Aubrey K. Cool, PG

FIGURES

01/13/09



I:\Shell\6-chars\2408--\240894-Emeryville 1800 Powell\240894-FIGURES\240894 VICINITY.AI

FIGURE
1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Shell-branded Service Station

1800 1/2 Powell Street

Emeryville, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

12/09/09

Groundwater Contour and Chemical Concentration Map

November 12, 2009

EXPLANATION

- S-5 — Monitoring well location
- S-6 — Destroyed monitoring well location
- S-1/A — Tank backfill well location
- Groundwater flow direction and gradient
- XX.XX — Groundwater elevation contour, in feet above mean sea level (msl)
- Well designation
- ELEV. — Groundwater elevation, in feet above msl
- Benzene / MTBE — Benzene and MTBE concentrations are in micrograms per liter

Notes:
ND = Not detected
NS = Not sampled

N

0 15 30 60

Scale (ft)

Holiday Inn
Hotel Building
1800 Powell

Hotel
Parking Lot

Shell Station
1800 1/2 Powell

Car Wash

Dispenser Islands

Marketeer Building

USTs

Trash

Canopy

Planter

Driveway

Traffic Island

FRONTAGE ROAD

POWELL STREET

S-5
5.55
24
ND

S-6

S-7

S-8
5.00
8.1
72

S-9
DRY
NS

S-10
4.62
7.9
23

S-11/D

S-12
6.87
ND
61

S-13
4.65
2.6
32

S-14
4.84
ND
1.2

S-1/A

S-2/E

S-3/B

S-4/C

0.03

5.20

5.80

6.40

I:\Shell\6-chars\2408-~\240894-Emeryville 1800 Powell\240894-REPORTS\240894-RPT2-4Q09\240894 4QM09-GW.DWG

CONESTOGA-ROVERS & ASSOCIATES

Shell-branded Service Station
1800 1/2 Powell Street
Emeryville, California

FIGURE
2

APPENDIX A

BLAINE TECH SERVICES, INC. – GROUNDWATER MONITORING REPORT

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

December 1, 2009

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

Fourth Quarter 2009 Groundwater Monitoring at
Shell-branded Service Station
1800 Powell Street
Emeryville, CA

Monitoring performed on November 12, 2009

Groundwater Monitoring Report **091112-AK-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 Shell Martinez Manufacturing Complex.

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 Sheet

cc: Anni Kreml
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608

WELL CONCENTRATIONS
Shell-Branded Service Station
1800 Powell Street
Emeryville, CA

Well ID	Date	TPPH (ug/L)	TEPH (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)	SPH Thickness (ft.)
S-5	10/26/1984	3,000	NA	660	20	20	70	NA	NA	NA	NA	NA	NA	11.72	NA	NA	NA
S-5	02/09/1985	2,800	NA	740	20	20	140	NA	NA	NA	NA	NA	NA	11.72	NA	NA	NA
S-5	04/27/1985	4,300	NA	750	10	20	<30	NA	NA	NA	NA	NA	NA	11.72	NA	NA	NA
S-5	07/06/1985	1,500	NA	300	8	7	9	NA	NA	NA	NA	NA	NA	11.72	NA	NA	NA
S-5	10/24/1985	2,100	NA	760	10	40	50	NA	NA	NA	NA	NA	NA	11.72	NA	NA	NA
S-5	01/03/1986	1,300	NA	520	9	8	10	NA	NA	NA	NA	NA	NA	11.72	NA	NA	NA
S-5	07/05/1986	1,400	NA	500	10	4	<10	NA	NA	NA	NA	NA	NA	11.72	8.36	3.36	NA
S-5	10/18/1986	4,200	NA	1,100	9	14	7	NA	NA	NA	NA	NA	NA	11.72	NA	NA	NA
S-5	01/13/1987	4,500	6,100	1,100	15	30	25	NA	NA	NA	NA	NA	NA	11.72	NA	NA	NA
S-5	07/07/1987	3,200	NA	1,000	16	9	12	NA	NA	NA	NA	NA	NA	11.72	9.15	2.57	NA
S-5	10/10/1987	1,700	NA	16	5.7	5.2	8.9	NA	NA	NA	NA	NA	NA	11.72	9.67	2.05	NA
S-5	02/11/1988	1,300	NA	300	5	<5	<5	NA	NA	NA	NA	NA	NA	11.72	9.00	2.72	NA
S-5	05/10/1988	1,900	NA	490	<0.5	<5	<5	NA	NA	NA	NA	NA	NA	11.72	8.61	3.11	NA
S-5	08/31/1988	6,700	NA	760	26	<25	<25	NA	NA	NA	NA	NA	NA	11.72	9.61	2.11	NA
S-5	12/03/1988	2,900	NA	890	5.3	7.3	13	NA	NA	NA	NA	NA	NA	11.72	9.47	2.25	NA
S-5	02/16/1989	1,300	NA	280	3	3.4	9.4	NA	NA	NA	NA	NA	NA	11.72	8.29	3.43	NA
S-5	08/10/1989	1,700	NA	530	5.5	<5	5.8	NA	NA	NA	NA	NA	NA	11.72	9.30	2.42	NA
S-5	11/11/1989	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.72	9.42	2.30	NA
S-5	02/21/1994	1,000	NA	250	<5	<5	<5	NA	NA	NA	NA	NA	NA	11.72	7.95	3.77	NA
S-5 (D)	02/21/1994	1,300	NA	220	<5	<5	11	NA	NA	NA	NA	NA	NA	11.72	7.95	3.77	NA
S-5	05/16/1994	1,200	NA	230	<5	<5	<5	NA	NA	NA	NA	NA	NA	11.72	8.00	3.72	NA
S-5	08/09/1994	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.72	NA	NA	NA
S-5	11/09/1994	1,600	NA	220	3.2	1.8	5	NA	NA	NA	NA	NA	NA	11.72	8.32	3.40	NA
S-5 (D)	11/09/1994	1,600	NA	250	3.3	1.9	5.9	NA	NA	NA	NA	NA	NA	11.72	8.32	NA	NA
S-5	02/22/1995	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.72	NA	NA	NA
S-5	05/02/1995	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.72	NA	NA	NA
S-5	05/10/1995	910	NA	170	1.5	1.3	5.2	NA	NA	NA	NA	NA	NA	11.72	NA	NA	NA
S-5	08/24/1995	620	NA	210	<0.5	1.2	5.3	NA	NA	NA	NA	NA	NA	11.72	8.78	2.94	NA
S-5	12/08/1995	1,600	NA	510	3.3	1.5	6.6	NA	NA	NA	NA	NA	NA	11.72	9.78	1.94	NA
S-5 (D)	12/08/1995	1,600	NA	530	1.8	1.1	5.4	NA	NA	NA	NA	NA	NA	11.72	9.78	1.94	NA
S-5	02/29/1996	1,900	NA	470	5.8	<5.0	<5.0	46	NA	NA	NA	NA	NA	11.72	7.64	4.08	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
1800 Powell Street
Emeryville, CA

Well ID	Date	TPPH (ug/L)	TEPH (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)	SPH Thickness (ft.)
S-5 (D)	02/29/1996	1,700	NA	440	5.4	<5.0	<5.0	40	NA	NA	NA	NA	NA	11.72	7.64	4.08	NA
S-5	05/22/1996	1,200	NA	490	<10	<10	<10	<50	NA	NA	NA	NA	NA	11.72	8.60	3.12	NA
S-5	07/30/1996	1,100	NA	400	<5.0	<5.0	6.9	<25	NA	NA	NA	NA	NA	11.72	9.40	2.32	NA
S-5	11/11/1996	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.72	NA	NA	NA
S-5	11/03/1997	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.72	NA	NA	NA
S-5	11/06/1998	620	NA	91	<0.50	0.64	4.0	<2.5	NA	NA	NA	NA	NA	11.72	8.25	3.47	NA
S-5	12/07/1999	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.72	NA	NA	NA
S-5	11/02/2000	1,120	NA	191	2.78	<2.50	3.56	<12.5	NA	NA	NA	NA	NA	11.72	8.55	3.17	NA
S-5	12/27/2001	760	NA	110	2.4	<0.50	5.8	NA	<5.0	NA	NA	NA	NA	11.72	7.64	4.08	NA
S-5	11/26/2002	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.07	NA	NA	NA
S-5	12/06/2002	860	NA	130	2.3	<0.50	6.0	NA	<5.0	NA	NA	NA	NA	14.07	8.62	5.45	NA
S-5	11/25/2003	920	NA	180	3.0	<1.0	6.2	NA	<1.0	NA	NA	NA	NA	14.07	9.32	4.75	NA
S-5	11/10/2004	530	NA	2.4	0.68	<0.50	6.3	NA	<0.50	NA	NA	NA	NA	14.07	9.35	4.72	NA
S-5	11/23/2005	1,630	NA	102	2.42	0.540	5.71	NA	<0.500	<0.500	<0.500	<0.500	<10.0	14.07	9.62	4.45	NA
S-5	11/21/2006	1,100	NA	91	2.4	<0.50	5.3	NA	<0.50	<2.0	<2.0	<2.0	<5.0	14.07	9.60	4.47	NA
S-5	11/14/2007	1,700 t	NA	92	2.9	0.33 u	6.2	NA	<1.0	<2.0	<2.0	<2.0	<10	14.07	8.60	5.47	NA
S-5	11/17/2008	810	NA	30	1.6	<1.0	4.4	NA	<1.0	<2.0	<2.0	<2.0	<10	14.07	8.10	5.97	NA
S-5	**11/12/2009**	**1,000**	**NA**	**24**	**1.5**	**<1.0**	**3.8**	**NA**	**<1.0**	**<2.0**	**<2.0**	**<2.0**	**<10**	**14.07**	**8.52**	**5.55**	**NA**
S-6	04/27/1985	6,500	NA	2,400	30	50	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-6	07/06/1985	3,700	NA	1,700	34	55	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-6	10/24/1985	23	<0.5	<5	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	NA
S-6	11/08/1985	Well abandoned		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-7	10/26/1984	50	NA	1.1	<1	<1	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-7	02/09/1985	NA	NA	0.9	<1	<1	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-7	04/27/1985	<50	NA	<1	<1	<1	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-7	07/06/1985	70	NA	2.2	<1	<1	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-7	10/24/1985	6,200	NA	2,200	130	190	660	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-7	11/09/1985	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
1800 Powell Street
Emeryville, CA

Well ID	Date	TPPH (ug/L)	TEPH (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)	SPH Thickness (ft.)
S-8	10/26/1984	1,000	NA	610	9	1	42	NA	NA	NA	NA	NA	NA	12.76	NA	NA	NA
S-8	02/09/1985	500	NA	160	5	<2	17	NA	NA	NA	NA	NA	NA	12.76	NA	NA	NA
S-8	04/27/1985	2,700	NA	1,500	20	10	40	NA	NA	NA	NA	NA	NA	12.76	NA	NA	NA
S-8	07/06/1985	440	NA	180	5	2	12	NA	NA	NA	NA	NA	NA	12.76	NA	NA	NA
S-8	10/24/1985	2,000	NA	1,100	17	5	70	NA	NA	NA	NA	NA	NA	12.76	NA	NA	NA
S-8	01/03/1986	1,900	NA	1,300	20	<10	70	NA	NA	NA	NA	NA	NA	12.76	NA	NA	NA
S-8	07/05/1986	1,600	NA	920	30	<10	60	NA	NA	NA	NA	NA	NA	12.76	9.50	3.26	NA
S-8	10/18/1986	1,400	NA	640	<10	<10	30	NA	NA	NA	NA	NA	NA	12.76	NA	NA	NA
S-8	01/13/1987	670	760	190	5.8	<0.5	19	NA	NA	NA	NA	NA	NA	12.76	NA	NA	NA
S-8	04/22/1987	2,400	NA	740	54	5.7	59	NA	NA	NA	NA	NA	NA	12.76	NA	NA	NA
S-8	07/07/1987	1,100	NA	450	15	<2.5	42	NA	NA	NA	NA	NA	NA	12.76	10.45	2.31	NA
S-8	10/10/1987	340	NA	4	0.6	<0.5	17	NA	NA	NA	NA	NA	NA	12.76	10.83	1.93	NA
S-8	02/11/1988	<1,000	NA	260	<10	<10	11	NA	NA	NA	NA	NA	NA	12.76	10.44	2.32	NA
S-8	05/10/1988	1,800	NA	700	14	<5	46	NA	NA	NA	NA	NA	NA	12.76	10.17	2.59	NA
S-8	08/31/1988	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.76	10.81	1.95	SPH
S-8	12/03/1988	960	NA	250	4.3	<2.5	14	NA	NA	NA	NA	NA	NA	12.76	10.81	1.95	NA
S-8	02/16/1989	2,700	NA	800	35	10	83	NA	NA	NA	NA	NA	NA	12.76	9.65	3.11	NA
S-8	05/28/1989	960	NA	710	25	84	80	NA	NA	NA	NA	NA	NA	12.76	10.46	2.30	NA
S-8	08/10/1989	1,300	NA	630	17	<5	46	NA	NA	NA	NA	NA	NA	12.76	10.59	2.17	NA
S-8	11/11/1989	910	NA	180	8	<2.5	15	NA	NA	NA	NA	NA	NA	12.76	10.29	2.47	NA
S-8	02/21/1994	3,200	NA	480	52	<5	130	NA	NA	NA	NA	NA	NA	12.76	9.52	3.24	NA
S-8	05/16/1994	1,000	NA	220	7.3	<5	28	NA	NA	NA	NA	NA	NA	12.76	9.49	3.27	NA
S-8 (D)	05/16/1994	1,000	NA	280	10	<5	29	NA	NA	NA	NA	NA	NA	12.76	9.49	3.27	NA
S-8	08/09/1994	400	NA	27	6.6	<0.5	18	NA	NA	NA	NA	NA	NA	12.76	10.37	2.39	NA
S-8	11/09/1994	650	NA	170	5.3	<0.5	17	NA	NA	NA	NA	NA	NA	12.76	9.58	3.18	NA
S-8	02/22/1995	650	NA	210	10	1.2	22	NA	NA	NA	NA	NA	NA	12.76	9.02	3.74	NA
S-8	05/02/1995	1,000	NA	280	17	1.4	32	NA	NA	NA	NA	NA	NA	12.76	8.45	4.31	NA
S-8	08/24/1995	480	NA	180	11	1	19	NA	NA	NA	NA	NA	NA	12.76	10.02	2.74	NA
S-8 (D)	08/24/1995	700	NA	180	6.5	<0.5	17	NA	NA	NA	NA	NA	NA	12.76	10.02	2.74	NA
S-8	12/08/1995	740	NA	230	6.9	0.7	15	NA	NA	NA	NA	NA	NA	12.76	10.65	2.11	NA
S-8	02/29/1996	740	NA	260	8.1	<5.0	19	58	NA	NA	NA	NA	NA	12.76	9.10	3.66	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
1800 Powell Street
Emeryville, CA

Well ID	Date	TPPH (ug/L)	TEPH (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)	SPH Thickness (ft.)
S-8	05/22/1996	1,200	NA	350	10	<5.0	23	74	NA	NA	NA	NA	NA	12.76	10.14	2.62	NA
S-8	07/30/1996	530	NA	220	20	6.3	36	69	NA	NA	NA	NA	NA	12.76	10.51	2.25	NA
S-8	11/11/1996	540	NA	140	3.7	<2.0	17	42	NA	NA	NA	NA	NA	12.76	10.23	2.53	NA
S-8	11/03/1997	480	NA	54	3.5	<0.50	12	40	NA	NA	NA	NA	NA	12.76	9.40	3.36	NA
S-8	11/06/1998	740	NA	110	10	2.8	26	31	NA	NA	NA	NA	NA	12.76	9.78	2.98	NA
S-8	12/07/1999	770	NA	270	16	<2.0	33	75	NA	NA	NA	NA	NA	12.76	10.14	2.62	NA
S-8	11/02/2000	436	NA	75.8	6.18	0.549	14.9	81.5	NA	NA	NA	NA	NA	12.76	9.45	3.31	NA
S-8	12/27/2001	1,300	NA	62	11	1.8	31	NA	86	NA	NA	NA	NA	12.76	9.19	3.57	NA
S-8	11/26/2002	970	NA	58	3.8	0.51	15	NA	35	NA	NA	NA	NA	15.00	10.10	4.90	NA
S-8	11/25/2003	400	NA	19	4.4	<0.50	15	NA	34	NA	NA	NA	NA	15.00	10.49	4.51	NA
S-8	11/10/2004	430	NA	28	3.4	<0.50	11	NA	25	NA	NA	NA	NA	15.00	10.45	4.55	NA
S-8	11/23/2005	476	NA	8.72	3.15	1.03	12.6	NA	35.2	<0.500	<0.500	<0.500	20.1	15.00	10.46	4.54	NA
S-8	11/21/2006	280	NA	5.9	1.9	4.9	7.9	NA	27	<2.0	<2.0	<2.0	47	15.00	10.61	4.39	NA
S-8	11/14/2007	520 t	NA	2.2	0.66 u	<1.0	4.9	NA	29	<2.0	<2.0	<2.0	38	15.00	10.01	4.99	NA
S-8	11/17/2008	550	NA	6.9	1.8	<1.0	8.0	NA	36	<2.0	<2.0	<2.0	23	15.00	9.64	5.36	NA
S-8	**11/12/2009**	**640**	**NA**	**8.1**	**3.5**	**<1.0**	**9.8**	**NA**	**72**	**<2.0**	**<2.0**	**<2.0**	**23**	**15.00**	**10.00**	**5.00**	**NA**
S-9	10/26/1984	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	SPH
S-9	02/09/1985	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	1.30
S-9	04/27/1985	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	1.25
S-9	07/06/1985	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	1.20
S-9	10/24/1985	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	SPH
S-9	01/03/1986	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	SPH
S-9	04/11/1986	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	SPH
S-9	07/05/1986	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	9.67	3.08	SPH
S-9	10/18/1986	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	SPH
S-9	01/13/1987	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	SPH
S-9	04/22/1987	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	SPH
S-9	07/07/1987	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	SPH
S-9	10/10/1987	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	22.30	-9.55	SPH
S-9	02/24/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	SPH

WELL CONCENTRATIONS
Shell-Branded Service Station
1800 Powell Street
Emeryville, CA

Well ID	Date	TPPH (ug/L)	TEPH (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)	SPH Thickness (ft.)
S-9	05/16/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	1.50
S-9	08/09/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	11.80	NA	2.00
S-9	11/09/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	SPH
S-9	02/22/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	11.40	NA	2.38
S-9	05/02/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	11.83	NA	2.12
S-9	12/08/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	11.92	NA	1.06
S-9	02/29/1996 a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	12.10	2.88	2.79
S-9	05/22/1996 a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	11.71	2.44	1.75
S-9	07/30/1996 a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	SPH
S-9	11/11/1996 a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	9.00
S-9	11/03/1997 a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	SPH
S-9	11/06/1998 a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	SPH
S-9	12/07/1999 a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	NA
S-9	11/02/2000 a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	NA
S-9	12/27/2001 a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.75	NA	NA	NA
S-9	11/26/2002 a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.83	NA	NA	NA
S-9	11/25/2003 a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.83	NA	NA	NA
S-9	11/25/2003 a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.98 n	NA	NA	NA
S-9	11/23/2005 a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.98	NA	NA	NA
S-9	11/21/2006 a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.98	NA	NA	NA
S-9	11/14/2007 a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.98	NA	NA	NA
S-9	11/17/2008 a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.98	NA	NA	NA
S-9	**11/12/2009**	**Dry**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**14.98**	**NA**	**NA**	**NA**
S-10	10/26/1984	700,000	NA	37,000	100,000	20,000	110,000	NA	NA	NA	NA	NA	NA	12.58	NA	NA	NA
S-10	02/09/1985	6,500	NA	480	700	100	1,800	NA	NA	NA	NA	NA	NA	12.58	NA	NA	NA
S-10	04/27/1985	13,000	NA	1,300	500	600	3,700	NA	NA	NA	NA	NA	NA	12.58	NA	NA	NA
S-10	07/06/1985	14,000	NA	1,300	310	270	2,400	NA	NA	NA	NA	NA	NA	12.58	NA	NA	NA
S-10	10/24/1985	4,200	NA	580	34	4	440	NA	NA	NA	NA	NA	NA	12.58	NA	NA	NA
S-10	01/03/1986	1,700	NA	360	10	7.8	170	NA	NA	NA	NA	NA	NA	12.58	NA	NA	NA
S-10	04/11/1986	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.58	NA	NA	0.01

WELL CONCENTRATIONS
Shell-Branded Service Station
1800 Powell Street
Emeryville, CA

Well ID	Date	TPPH (ug/L)	TEPH (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)	SPH Thickness (ft.)
S-10	07/05/1986	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.58	9.16	3.42	0.01
S-10	10/18/1986	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.58	NA	NA	0.03
S-10	01/13/1987	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.58	NA	NA	0.03
S-10	04/22/1987	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.58	NA	NA	0.01
S-10	07/07/1987	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.58	9.41	3.17	0.03
S-10	10/10/1987	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.58	7.77	4.81	SPH
S-10	02/11/1988	1,200	NA	470	16	<5	14	NA	NA	NA	NA	NA	NA	12.58	6.41	6.17	NA
S-10	05/10/1988	1,100	NA	100	6	4	19	NA	NA	NA	NA	NA	NA	12.58	9.04	3.54	NA
S-10	08/31/1988	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.58	9.38	3.20	0.01
S-10	12/03/1988	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.58	6.89	5.69	SPH
S-10	02/16/1989	530	NA	89	8.5	1.6	4.5	NA	NA	NA	NA	NA	NA	12.58	7.34	5.24	NA
S-10	05/28/1989	240	NA	65	3.8	2.2	8.6	NA	NA	NA	NA	NA	NA	12.58	6.60	5.98	NA
S-10	08/10/1989	250	NA	23	4.1	<1	6.4	NA	NA	NA	NA	NA	NA	12.58	9.09	3.49	NA
S-10	11/11/1989	320	NA	1.6	1.3	1.4	6.2	NA	NA	NA	NA	NA	NA	12.58	6.58	6.00	NA
S-10	02/21/1994	1,400	NA	190	9.9	<2.5	19	NA	NA	NA	NA	NA	NA	12.58	8.32	4.26	NA
S-10	05/16/1994	300	NA	45	8.6	6.2	19	NA	NA	NA	NA	NA	NA	12.58	8.35	4.23	NA
S-10	08/08/1994	700	NA	57	14	<0.5	9.3	NA	NA	NA	NA	NA	NA	12.58	8.66	3.92	NA
S-10	11/09/1994	640	NA	130	2	1.6	4.1	NA	NA	NA	NA	NA	NA	12.58	6.68	5.90	NA
S-10	02/22/1995	500	NA	65	5.9	1	8.2	NA	NA	NA	NA	NA	NA	12.58	9.12	3.46	NA
S-10	05/02/1995	530	NA	59	2.3	0.8	8.2	NA	NA	NA	NA	NA	NA	12.58	9.50	3.08	NA
S-10	08/24/1995	350	NA	35	4.6	<0.5	6.7	NA	NA	NA	NA	NA	NA	12.58	10.06	2.52	NA
S-10	12/08/1995	690	NA	28	4.6	0.9	8.6	NA	NA	NA	NA	NA	NA	12.58	10.08	2.50	NA
S-10	02/29/1996	430	NA	32	1.8	0.5	5.8	16	NA	NA	NA	NA	NA	12.58	5.32	7.26	NA
S-10	05/22/1996	100	1,200	19	0.63	<0.5	1.4	5.3	NA	NA	NA	NA	NA	12.58	6.04	6.54	NA
S-10	07/30/1996	240	13,000	17	<1.2	<1.2	7.8	11	NA	NA	NA	NA	NA	12.58	10.48	2.10	NA
S-10	11/11/1996	370	4,800	16	1.1	<0.5	7	94	NA	NA	NA	NA	NA	12.58	10.31	2.27	NA
S-10	11/03/1997	340	1,100	6.7	2.1	<0.50	3.3	19	NA	NA	NA	NA	NA	12.58	9.53	3.05	NA
S-10 (D)	11/03/1997	310	1,100	7.8	1.3	<0.50	3.1	19	NA	NA	NA	NA	NA	12.58	9.53	3.05	NA
S-10	11/06/1998	<250	2,000	<2.5	<2.5	<2.5	6.5	900	NA	NA	NA	NA	NA	12.58	5.12	7.46	NA
S-10	12/07/1999	400	2,230	47	33	10	29	90	NA	NA	NA	NA	NA	12.58	7.95	4.63	NA
S-10	11/02/2000	536	14,500	32.0	3.08	<0.500	2.98	42.3	NA	NA	NA	NA	NA	12.58	7.05	5.53	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
1800 Powell Street
Emeryville, CA

Well ID	Date	TPPH (ug/L)	TEPH (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)	SPH Thickness (ft.)
S-10	12/27/2001	870	6,600	61	4.9	2.5	15	NA	26	NA	NA	NA	NA	12.58	7.43	5.15	NA
S-10	11/26/2002	720	9,800	56	3.5	<0.50	8.4	NA	52	NA	NA	NA	NA	15.11	9.75	5.36	NA
S-10	11/25/2003	550	530 m	29	2.7	<0.50	8.4	NA	49	NA	NA	NA	NA	15.11	9.00	6.11	NA
S-10	11/10/2004	660	1,500 m	64	5.0	0.61	14	NA	54	NA	NA	NA	NA	14.93 o	9.50	5.43	NA
S-10	11/23/2005	866	NA	47.0	3.44	0.600	12.6	NA	61.9	<0.500	<0.500	<0.500	<10.0	14.93	10.23	4.70	NA
S-10	11/21/2006	490	12,000 l	21	2.3	5.8	9.6	NA	48	<2.0	<2.0	<2.0	34	14.93	10.04	4.89	NA
S-10	11/14/2007	740 t	1,300 r,s	19	2.1	<1.0	8.0	NA	44	<2.0	<2.0	<2.0	20	14.93	9.49	5.44	NA
S-10	11/17/2008	630	2,000 s	7.3	1.0	<1.0	7.0	NA	32	<2.0	<2.0	<2.0	11	14.93	10.03	4.90	NA
S-10	**11/12/2009**	**600**	**2,100 s**	**7.9**	**1.1**	**<1.0**	**5.7**	**NA**	**23**	**<2.0**	**<2.0**	**<2.0**	**12**	**14.93**	**10.31**	**4.62**	**NA**
S-12	07/06/1985	<250	2,200	0.71	<0.5	<0.5	<3.6	NA	NA	NA	NA	NA	NA	12.84	8.22	NA	NA
S-12	11/16/1985	<250	1,400	18	<2	<2	<5	NA	NA	NA	NA	NA	NA	12.84	NA	NA	NA
S-12	01/03/1986	<250	NA	24	2	<2	<5	NA	NA	NA	NA	NA	NA	12.84	NA	NA	NA
S-12	07/05/1986	80	NA	15	0.7	<0.5	2	NA	NA	NA	NA	NA	NA	12.84	8.27	4.57	NA
S-12	10/18/1986	150	NA	12	9	<0.5	3.6	NA	NA	NA	NA	NA	NA	12.84	NA	NA	NA
S-12	01/13/1987	120	1,000	3.6	0.8	<0.5	2.9	NA	NA	NA	NA	NA	NA	12.84	NA	NA	NA
S-12	04/22/1987	100	820	3.7	3.8	0.8	11	NA	NA	NA	NA	NA	NA	12.84	NA	NA	NA
S-12	07/07/1987	70	NA	2.5	0.8	<0.5	2.4	NA	NA	NA	NA	NA	NA	12.84	9.50	3.34	NA
S-12	10/10/1987	220	2,500	2.1	0.7	<0.5	1.2	NA	NA	NA	NA	NA	NA	12.84	9.90	2.94	NA
S-12	02/11/1988	110	2,500	0.8	<0.5	<0.5	1.3	NA	NA	NA	NA	NA	NA	12.84	9.43	3.41	NA
S-12	05/10/1988	140	3,800 b	0.8	0.8	<0.5	2.5	NA	NA	NA	NA	NA	NA	12.84	8.65	4.19	NA
S-12	08/31/1988	190	2,600 b	3	15	0.5	4.5	NA	NA	NA	NA	NA	NA	12.84	9.86	2.98	NA
S-12	12/03/1988	180	3,900 b	1.2	1	1	7.7	NA	NA	NA	NA	NA	NA	12.84	9.93	2.91	NA
S-12	02/16/1989	350c	2,100 b	0.6	<0.5	0.5	5.5	NA	NA	NA	NA	NA	NA	12.84	8.08	4.76	NA
S-12	05/28/1989	290	2,200	2	1.6	4.4	6	NA	NA	NA	NA	NA	NA	12.84	9.08	3.76	NA
S-12	08/10/1989	240	720	0.7	<0.5	<0.5	1.1	NA	NA	NA	NA	NA	NA	12.84	9.35	3.49	NA
S-12	11/11/1989	210c	4,100	0.7	0.5	<0.5	3.4	NA	NA	NA	NA	NA	NA	12.84	9.28	3.56	NA
S-12	02/21/1994	240d	2,200 e	0.7	<0.5	<0.5	3.6	NA	NA	NA	NA	NA	NA	12.84	8.22	4.62	NA
S-12	05/16/1994	96	2,200	1.5	<0.5	<0.5	2	NA	NA	NA	NA	NA	NA	12.84	8.92	3.92	NA
S-12	08/08/1994	110f	3,500 g	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	12.84	NA	0.00	NA
S-12	11/09/1994	80	5,400 g	80	<0.5	<0.5	0.6	NA	NA	NA	NA	NA	NA	12.84	7.56	5.28	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
1800 Powell Street
Emeryville, CA

Well ID	Date	TPPH (ug/L)	TEPH (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)	SPH Thickness (ft.)
S-12	02/22/1995	110	2,900 g,h	0.7	<0.5	<0.5	3.7	NA	NA	NA	NA	NA	NA	12.84	7.98	4.86	NA
S-12 (D)	02/22/1995	110	3,400 g,h	4.8	7.1	<0.5	2.1	NA	NA	NA	NA	NA	NA	12.84	7.98	4.86	NA
S-12	05/02/1995	140	2,800	2.4	1.1	0.8	4.3	NA	NA	NA	NA	NA	NA	12.84	8.44	4.40	NA
S-12	08/24/1995	200	1,600	19	12	5.6	24	NA	NA	NA	NA	NA	NA	12.84	9.00	3.84	NA
S-12	12/08/1995	170	2,700	2.2	0.7	0.9	3.6	NA	NA	NA	NA	NA	NA	12.84	9.62	3.22	NA
S-12	02/29/1996	1,700	2,200	<5.0	<5.0	<5.0	<5.0	5,600	NA	NA	NA	NA	NA	12.84	7.64	5.20	NA
S-12	05/22/1996	<1,000	5,700	<10	<10	<10	<10	2,400	NA	NA	NA	NA	NA	12.84	8.94	3.90	NA
S-12	07/30/1996	<500	3,200	<5.0	<5.0	<5.0	<5.0	1,500	NA	NA	NA	NA	NA	12.84	9.71	3.13	NA
S-12 (D)	07/30/1996	<500	2,900	<5.0	<5.0	<5.0	<5.0	NA	2,000	NA	NA	NA	NA	12.84	9.71	3.13	NA
S-12	11/11/1996	<500	6,900	<5.0	<5.0	<5.0	<5.0	1,400	NA	NA	NA	NA	NA	12.84	9.65	3.19	NA
S-12	11/03/1997	110	2,800	2.1	<0.50	<0.50	1.3	NA	NA	NA	NA	NA	NA	12.84	8.73	4.11	NA
S-12	11/06/1998	<500	2,900	<5.0	<5.0	<5.0	<5.0	2,700	NA	NA	NA	NA	NA	12.84	8.85	3.99	NA
S-12	12/07/1999	<500	2,800	<5.0	<5.0	<5.0	<5.0	1,900	NA	NA	NA	NA	NA	12.84	8.32	4.52	NA
S-12	11/02/2000	132	4,000	0.642	<0.500	<0.500	1.07	1,900	2,230 k	NA	NA	NA	NA	12.84	7.50	5.34	NA
S-12	12/27/2001	230	2,700	<2.0	<2.0	<2.0	<2.0	NA	760	NA	NA	NA	NA	12.84	7.00	5.84	NA
S-12	11/26/2002	180	540	<1.0	<1.0	<1.0	1.7	NA	390	NA	NA	NA	NA	14.87	8.35	6.52	NA
S-12	11/25/2003	<250	2,600 m	<2.5	<2.5	<2.5	<5.0	NA	310	NA	NA	NA	NA	14.87	6.04	8.83	NA
S-12	11/10/2004	290	1,000 m	<1.0	1.2	<1.0	5.0	NA	140	NA	NA	NA	NA	14.87	7.80	7.07	NA
S-12	11/23/2005	<50.0	NA	<0.500	<0.500	<0.500	2.63	NA	93.3	<0.500	<0.500	<0.500	398	14.87	7.22	7.65	NA
S-12	11/21/2006	280	220	<1.0	<1.0	<1.0	<2.0	NA	110	<4.0	<4.0	<4.0	600	14.87	8.53	6.34	NA
S-12	11/14/2007	360 t	660 r,s	0.23 u	<1.0	<1.0	0.51 u	NA	83	<2.0	<2.0	<2.0	830	14.87	7.40	7.47	NA
S-12	11/17/2008	390	2,600 s	<0.50	<1.0	<1.0	<1.0	NA	44	<2.0	<2.0	<2.0	350	14.87	6.80	8.07	NA
S-12	**11/12/2009**	**200**	**690 s**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**61**	**<2.0**	**<2.0**	**<2.0**	**370**	**14.87**	**8.00**	**6.87**	**NA**
S-13	07/06/1985	700	3,600	200	<5	<5	45	NA	NA	NA	NA	NA	NA	12.59	9.26	NA	NA
S-13	11/16/1985	1,900	2,000	700	160	70	340	NA	NA	NA	NA	NA	NA	12.59	NA	NA	NA
S-13	01/03/1986	2,800	NA	1,400	130	10	500	NA	NA	NA	NA	NA	NA	12.59	NA	NA	NA
S-13	07/05/1986	3,100	NA	1,800	60	40	270	NA	NA	NA	NA	NA	NA	12.59	9.47	3.12	NA
S-13	10/23/1986	3,400	NA	1,500	28	28	250	NA	NA	NA	NA	NA	NA	12.59	NA	NA	NA
S-13	01/13/1987	1,900	900	830	15	<10	99	NA	NA	NA	NA	NA	NA	12.59	NA	NA	NA
S-13	04/22/1987	2,900 c	770 h	1,100	20	30	140	NA	NA	NA	NA	NA	NA	12.59	NA	NA	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
1800 Powell Street
Emeryville, CA

Well ID	Date	TPPH (ug/L)	TEPH (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)	SPH Thickness (ft.)
S-13	07/07/1987	1,500	NA	880	10	6	160	NA	NA	NA	NA	NA	NA	12.59	10.38	2.21	NA
S-13	10/10/1987	480	2,400	830	15	<0.5	120	NA	NA	NA	NA	NA	NA	12.59	10.78	1.81	NA
S-13	02/11/1988	1,300	1,300	510	<10	<10	86	NA	NA	NA	NA	NA	NA	12.59	10.48	2.11	NA
S-13	05/10/1988	1,000	1,300 b	470	<0.5	<5	50	NA	NA	NA	NA	NA	NA	12.59	9.48	3.11	NA
S-13	08/31/1988	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.59	10.74	1.85	SPH
S-13	12/03/1988	900	2,400 b	290	4.6	<2.5	20	NA	NA	NA	NA	NA	NA	12.59	10.30	2.29	NA
S-13	02/16/1989	840 c	1,200 b	310	3.5	<2.5	27	NA	NA	NA	NA	NA	NA	12.59	7.60	4.99	NA
S-13	05/28/1989	2,100	4,600	1,100	19	50	350	NA	NA	NA	NA	NA	NA	12.59	10.60	1.99	NA
S-13	08/10/1989	900	2,300	230	16	6.9	65	NA	NA	NA	NA	NA	NA	12.59	10.58	2.01	NA
S-13	11/11/1989	2,800	2,800	200	15	8.6	58	NA	NA	NA	NA	NA	NA	12.59	9.84	2.75	NA
S-13	02/21/1994	700	1,800 d	200	<5	<5	45	NA	NA	NA	NA	NA	NA	12.59	9.26	3.33	NA
S-13	05/16/1994	650	1,700	180	2.5	<2.5	21	NA	NA	NA	NA	NA	NA	12.59	9.62	2.97	NA
S-13	08/08/1994	470	2,600 g	12	1.5	0.5	14	NA	NA	NA	NA	NA	NA	12.59	10.32	2.27	NA
S-13	11/09/1994	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.59	NA	NA	NA
S-13	02/22/1995	550	2,400 g,h	190	4	<0.5	17	NA	NA	NA	NA	NA	NA	12.59	8.92	3.67	NA
S-13	05/02/1995	790	2,100	250	6.9	1.2	22	NA	NA	NA	NA	NA	NA	12.59	9.52	3.07	NA
S-13	08/24/1995	330	1,500	93	<0.5	<0.5	2	NA	NA	NA	NA	NA	NA	12.59	10.02	2.57	NA
S-13	12/08/1995	440	2,400	110	2.2	0.8	23	NA	NA	NA	NA	NA	NA	12.59	10.75	1.84	NA
S-13	02/29/1996	560	2,500	130	<5.0	<5.0	30	30	NA	NA	NA	NA	NA	12.59	9.02	3.57	NA
S-13	05/22/1996	430	3,700	55	1.6	310	27	<5.0	NA	NA	NA	NA	NA	12.59	10.20	2.39	NA
S-13	07/30/1996	230	1,600	30	2	1.4	17	15	NA	NA	NA	NA	NA	12.59	10.42	2.17	NA
S-13	11/11/1996	320	2,700	19	1.1	<0.5	14	3.5	NA	NA	NA	NA	NA	12.59	10.28	2.31	NA
S-13 (D)	11/11/1996	360	2,400	24	1.3	<0.5	15	4.5	NA	NA	NA	NA	NA	12.59	10.28	2.31	NA
S-13	11/03/1997	300	1,900	25	1.4	0.63	12	5.0	NA	NA	NA	NA	NA	12.59	9.36	3.23	NA
S-13	11/06/1998	390	1,300	53	2.9	1.1	13	17	NA	NA	NA	NA	NA	12.59	9.85	2.74	NA
S-13	12/07/1999	420	1,430	15	6.2	2.6	15	42	NA	NA	NA	NA	NA	12.59	9.72	2.87	NA
S-13	11/02/2000	257	4,240	4.89	1.92	<0.500	5.17	45.1	NA	NA	NA	NA	NA	12.59	7.15	5.44	NA
S-13	12/27/2001	300	6,400	7.2	0.84	<0.50	6.0	NA	34	NA	NA	NA	NA	12.59	9.35	3.24	NA
S-13	11/26/2002	160	850	<0.50	<0.50	<0.50	2.6	NA	23	NA	NA	NA	NA	14.47	9.80	4.67	NA
S-13	11/25/2003	180	5,100 m	0.57	0.55	<0.50	3.0	NA	26	NA	NA	NA	NA	14.47	9.94	4.53	NA
S-13	11/10/2004	220	1,900 m	<0.50	0.71	<0.50	2.8	NA	26	NA	NA	NA	NA	14.47	10.05	4.42	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
1800 Powell Street
Emeryville, CA

Well ID	Date	TPPH (ug/L)	TEPH (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)	SPH Thickness (ft.)
S-13	11/23/2005	<50.0	NA	4.33	1.24	0.700	5.40	NA	27.2	<0.500	<0.500	<0.500	30.3	14.47	10.02	4.45	NA
S-13	11/21/2006	370	840	19	2.3	0.60	4.9	NA	77	<2.0	<2.0	5.1	73	14.47	10.30	4.17	NA
S-13	11/14/2007	650 t	590 r,s	8.0	1.8	<1.0	4.7	NA	32	<2.0	<2.0	1.8 u	13	14.47	9.60	4.87	NA
S-13	11/17/2008	510	1,500 s	3.0	1.1	<1.0	4.2	NA	25	<2.0	<2.0	<2.0	13	14.47	9.24	5.23	NA
S-13	**11/12/2009**	**410**	**1,000 s**	**2.6**	**1.0**	**<1.0**	**2.1**	**NA**	**32**	**<2.0**	**<2.0**	**<2.0**	**17**	**14.47**	**9.82**	**4.65**	**NA**
S-14	11/16/1985	<250	400	3	<2	<2	<5	NA	NA	NA	NA	NA	NA	12.69	NA	NA	NA
S-14	01/03/1986	<250	NA	3	2	<2	<5	NA	NA	NA	NA	NA	NA	12.69	NA	NA	NA
S-14	04/22/1987	1,200	18,000	7.4	2.7	15	110	NA	NA	NA	NA	NA	NA	12.69	NA	NA	NA
S-14	07/07/1987	190	NA	6.5	0.6	1.9	26	NA	NA	NA	NA	NA	NA	12.69	10.32	2.37	NA
S-14	10/10/1987	4,900	21,000	7	1.2	<0.5	25	NA	NA	NA	NA	NA	NA	12.69	10.77	1.92	NA
S-14	02/11/1988	370	12,000 c	4.6	<2.5	<2.5	26	NA	NA	NA	NA	NA	NA	12.69	10.40	2.29	NA
S-14	05/10/1988	660	2,200 b	2.9	<2.5	<2.5	24	NA	NA	NA	NA	NA	NA	12.69	9.66	3.03	NA
S-14	08/31/1988	700	7,900	3.2	<2.5	<2.5	15	NA	NA	NA	NA	NA	NA	12.69	10.74	1.95	NA
S-14	12/03/1988	210	11,000 b	<0.5	<0.5	0.8	6.8	NA	NA	NA	NA	NA	NA	12.69	10.69	2.00	NA
S-14	02/16/1989	130 c	5,700 b	<0.5	<0.5	<0.5	4.4	NA	NA	NA	NA	NA	NA	12.69	9.69	3.00	NA
S-14	05/28/1989	770	5,200	<0.5	<0.5	<0.5	4.5	NA	NA	NA	NA	NA	NA	12.69	10.42	2.27	NA
S-14	08/10/1989	920	8,800	<1	<1	1.6	17	NA	NA	NA	NA	NA	NA	12.69	10.54	2.15	NA
S-14	11/11/1989	710	28,000	20	57	25	69	NA	NA	NA	NA	NA	NA	12.69	9.91	2.78	NA
S-14	02/21/1994	2,800	3,600	<5	<5	<5	14	NA	NA	NA	NA	NA	NA	12.69	9.30	3.09	NA
S-14	02/21/1994	2,300 d	3,600 e	<5.0	<5	<5	14	NA	NA	NA	NA	NA	NA	12.69	9.30	3.39	NA
S-14	05/16/1994	310	6,700	<2.5	<2.5	<2.5	3.1	NA	NA	NA	NA	NA	NA	12.69	9.54	3.15	NA
S-14	08/08/1994	480l	2,900	<0.5	0.6	<0.5	0.8	NA	NA	NA	NA	NA	NA	12.69	10.29	2.40	NA
S-14 (D)	08/08/1994	590l	2,900	<0.5	0.6	<0.5	1.5	NA	NA	NA	NA	NA	NA	12.69	10.29	2.40	NA
S-14	11/09/1994	170 i	6,400 g	0.7	<0.5	<0.5	2.7	NA	NA	NA	NA	NA	NA	12.69	9.52	3.07	NA
S-14	02/22/1995	550	7,000 g,h	<0.5	<0.5	<0.5	1.6	NA	NA	NA	NA	NA	NA	12.69	9.18	3.51	NA
S-14	05/02/1995	210	2,300	1	0.9	1.1	6.3	NA	NA	NA	NA	NA	NA	12.69	9.49	3.20	NA
S-14 (D)	05/02/1995	160	2,600	0.6	0.6	0.7	3.8	NA	NA	NA	NA	NA	NA	12.69	9.49	3.20	NA
S-14	08/24/1995	180	3,700	0.5	<0.5	<0.5	1.3	NA	NA	NA	NA	NA	NA	12.69	9.94	2.75	NA
S-14	12/08/1995	190	4,900	1	<0.5	0.6	4.6	NA	NA	NA	NA	NA	NA	12.69	10.65	2.04	NA
S-14	02/29/1996	200	11,000	<0.5	<0.5	<0.5	2	3	NA	NA	NA	NA	NA	12.69	8.90	3.79	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
1800 Powell Street
Emeryville, CA

Well ID	Date	TPPH (ug/L)	TEPH (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)	SPH Thickness (ft.)
S-14	05/22/1996	93	3,800	<0.5	<0.5	<0.5	1.6	<2.5	NA	NA	NA	NA	NA	12.69	10.10	2.59	NA
S-14 (D)	05/22/1996	150	3,900	<0.5	<0.5	<0.5	1.8	<2.5	NA	NA	NA	NA	NA	12.69	10.10	2.59	NA
S-14	07/30/1996	<50	2,500	<0.5	<0.5	<0.5	0.89	<2.5	NA	NA	NA	NA	NA	12.69	10.37	2.32	NA
S-14	11/11/1996	2,600	27,000	<2.5	<2.5	<2.5	3.9	<12	NA	NA	NA	NA	NA	12.69	10.29	2.40	NA
S-14	11/03/1997	430	1,800	<0.50	<0.50	<0.50	1.7	<2.5	NA	NA	NA	NA	NA	12.69	9.52	3.17	NA
S-14	11/06/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.69	NA	NA	NA
S-14	12/07/1999	970	5,920	1.0	1.1	0.59	3.5	2.6	NA	NA	NA	NA	NA	12.69	9.73	2.96	NA
S-14	11/02/2000	273	535,000	<0.500	<0.500	<0.500	1.59	<2.50	NA	NA	NA	NA	NA	12.69	9.98	2.71	NA
S-14	12/27/2001	68	20,000	<0.50	<0.50	<0.50	1.3	NA	<5.0	NA	NA	NA	NA	12.69	9.33	3.36	NA
S-14	11/26/2002	<50	2,400	<0.50	<0.50	<0.50	0.91	NA	<5.0	NA	NA	NA	NA	14.51	9.70	4.81	NA
S-14	11/25/2003	78 m	4,400 m	<0.50	<0.50	<0.50	1.2	NA	1.6	NA	NA	NA	NA	14.51	9.99	4.52	NA
S-14	11/10/2004	74 p	2,500 m	<0.50	<0.50	<0.50	<1.0	NA	1.9	NA	NA	NA	NA	14.51	10.05	4.46	NA
S-14	11/23/2005	<50.0	NA	<0.500	<0.500	<0.500	<0.500	NA	1.02	<0.500	<0.500	<0.500	<10.0	14.51	9.92	4.59	NA
S-14	11/21/2006	62 q	5,000	<0.50 q	<0.50 q	<0.50 q	<1.0 q	NA	1.9 q	<2.0 q	<2.0 q	<2.0 q	<5.0 q	14.51	10.26	4.25	NA
S-14	11/14/2007	120 t	550 r,s	0.98	<1.0	<1.0	0.23 u	NA	2.2	<2.0	<2.0	<2.0	<10	14.51	9.63	4.88	NA
S-14	11/17/2008	<50	1,700 s	<0.50	<1.0	<1.0	<1.0	NA	1.4	<2.0	<2.0	<2.0	<10	14.51	9.25	5.26	NA
S-14	**11/12/2009**	**<50**	**1,200 s**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**1.2**	**<2.0**	**<2.0**	**<2.0**	**<10**	**14.51**	**9.67**	**4.84**	**NA**

WELL CONCENTRATIONS
Shell-Branded Service Station
1800 Powell Street
Emeryville, CA

Well ID	Date	TPPH (ug/L)	TEPH (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)	SPH Thickness (ft.)

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B, prior to December 27, 2001, by EPA Method 8015.
TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to December 27, 2001, by EPA Method 8020.
MTBE = Methyl tertiary butyl ether
TOB = Top of Wellbox Elevation
TOC = Top of Casing Elevation
SPH = Separate-Phase Hydrocarbons
GW = Groundwater
ug/L = parts per billion
MSL = Mean sea level
ft. = Feet
<n = Below detection limit
(D) = Duplicate sample
NA = Not applicable

WELL CONCENTRATIONS
Shell-Branded Service Station
1800 Powell Street
Emeryville, CA

Well ID	Date	TPPH (ug/L)	TEPH (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)	SPH Thickness (ft.)

Notes:

a = Tar-like substance in well, probably from previous landfill activities; not gasoline.

b = Compounds detected within the chromatographic range appear to be weathered diesel.

c = Compounds detected within the chromatographic range of gasoline but not characteristic of the standard gasoline pattern.

d = The concentrations reported as gasoline for samples S-12 and S-14 are primarily due to the presence of a discrete peak.

e = The concentrations reported as diesel for samples S-12, S-13, and S-14 are due to the presence of a combination of diesel and a heavier petroleum product of hydrocarbon range C18 - C36, possibly motor oil.

f = The result for gasoline is an unknown hydrocarbon which consists of several peaks.

g = The positive result appears to be a heavier hydrocarbon than diesel.

h = Compounds detected within the chromatographic range of diesel appears to include gasoline compounds.

i = The positive result appears to be a heavier hydrocarbon than gasoline.

j = No MTBE could be determined due to co-elution with early eluting compounds.

k = This sample analyzed outside of EPA recommended holding time.

l = Reporting limit raised due to insufficient sample volume.

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

n = Top of casing altered +0.15 feet on August 2, 2004 due to wellhead maintenance.

o = Top of casing altered -0.18 feet on August 2, 2004 due to wellhead maintenance.

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

q = The sample, as received, was not preserved in accordance to the referenced analytical method.

r = 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.

s = The sample extract was subjected to Silica Gel treatment prior to analysis.

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

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

Beginning November 26, 2002, depth to water referenced to Top of Casing Elevation.

Active wells surveyed February 12, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

Calscience
Environmental
Laboratories, Inc.

November 30, 2009

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

Subject: **Calscience Work Order No.: 09-11-1227**
Client Reference: 1800 Powell St., Emeryville, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/14/2009 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 Sanelle for

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 11/14/09
Work Order No: 09-11-1227
Preparation: EPA 3510C
Method: EPA 8015B

Project: 1800 Powell St., Emeryville, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-14	09-11-1227-1-E	11/12/09 13:20	Aqueous	GC 45	11/16/09	11/18/09 17:00	091116B12

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	1200	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	85	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12	09-11-1227-2-E	11/12/09 11:10	Aqueous	GC 45	11/16/09	11/18/09 17:16	091116B12

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	690	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	79	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-13	09-11-1227-4-E	11/12/09 12:00	Aqueous	GC 45	11/16/09	11/18/09 17:31	091116B12

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	1000	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10	09-11-1227-6-E	11/12/09 14:25	Aqueous	GC 45	11/16/09	11/18/09 17:47	091116B12

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	2100	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	91	68-140	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	11/14/09
1680 Rogers Avenue	Work Order No:	09-11-1227
San Jose, CA 95112-1105	Preparation:	EPA 3510C
	Method:	EPA 8015B

Project: 1800 Powell St., Emeryville, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-211-1,426**	**N/A**	**Aqueous**	**GC 45**	**11/16/09**	**11/18/09 13:55**	**091116B12**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
Decachlorobiphenyl	87	68-140			

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 11/14/09
Work Order No: 09-11-1227
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 1800 Powell St., Emeryville, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-14	09-11-1227-1-A	11/12/09 13:20	Aqueous	GC/MS RR	11/16/09	11/17/09 01:42	091116L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	1.2	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	112	80-132			1,2-Dichloroethane-d4	105	80-141		
Toluene-d8	99	80-120			Toluene-d8-TPPH	96	88-112		
1,4-Bromofluorobenzene	91	76-120							

S-12	09-11-1227-2-A	11/12/09 11:10	Aqueous	GC/MS RR	11/16/09	11/17/09 03:04	091116L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	370	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	61	1.0	1		TPPH	200	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	103	80-132			1,2-Dichloroethane-d4	95	80-141		
Toluene-d8	100	80-120			Toluene-d8-TPPH	96	88-112		
1,4-Bromofluorobenzene	91	76-120							

S-5	09-11-1227-3-A	11/12/09 10:35	Aqueous	GC/MS RR	11/16/09	11/17/09 03:31	091116L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	24	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	1.5	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	3.8	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		TPPH	1000	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	99	80-132			1,2-Dichloroethane-d4	93	80-141		
Toluene-d8	103	80-120			Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	93	76-120							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 11/14/09
Work Order No: 09-11-1227
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 1800 Powell St., Emeryville, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-13	09-11-1227-4-A	11/12/09 12:00	Aqueous	GC/MS RR	11/16/09	11/16/09 20:15	091116L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2.6	0.50	1		Tert-Butyl Alcohol (TBA)	17	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	1.0	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	2.1	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	32	1.0	1		TPPH	410	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	102	80-132			1,2-Dichloroethane-d4	92	80-141		
Toluene-d8	103	80-120			Toluene-d8-TPPH	99	88-112		
1,4-Bromofluorobenzene	91	76-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8	09-11-1227-5-A	11/12/09 12:40	Aqueous	GC/MS RR	11/16/09	11/16/09 20:42	091116L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	8.1	0.50	1		Tert-Butyl Alcohol (TBA)	23	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	3.5	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	9.8	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	72	1.0	1		TPPH	640	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	98	80-132			1,2-Dichloroethane-d4	90	80-141		
Toluene-d8	104	80-120			Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	91	76-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10	09-11-1227-6-A	11/12/09 14:25	Aqueous	GC/MS RR	11/16/09	11/16/09 21:09	091116L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	7.9	0.50	1		Tert-Butyl Alcohol (TBA)	12	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	1.1	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	5.7	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	23	1.0	1		TPPH	600	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	97	80-132			1,2-Dichloroethane-d4	89	80-141		
Toluene-d8	104	80-120			Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	91	76-120							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	11/14/09
1680 Rogers Avenue	Work Order No:	09-11-1227
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	LUFT GC/MS / EPA 8260B
	Units:	ug/L

Project: 1800 Powell St., Emeryville, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-2,856	N/A	Aqueous	GC/MS RR	11/16/09	11/16/09 13:25	091116L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	107	80-132			1,2-Dichloroethane-d4	99	80-141		
Toluene-d8	99	80-120			Toluene-d8-TPPH	96	88-112		
1,4-Bromofluorobenzene	84	76-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-2,863	N/A	Aqueous	GC/MS RR	11/16/09	11/17/09 01:15	091116L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	110	80-132			1,2-Dichloroethane-d4	105	80-141		
Toluene-d8	98	80-120			Toluene-d8-TPPH	95	88-112		
1,4-Bromofluorobenzene	88	76-120							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.	Date Received: 11/14/09
1680 Rogers Avenue	Work Order No: 09-11-1227
San Jose, CA 95112-1105	Preparation: EPA 5030B
	Method: LUFT GC/MS / EPA 8260B

Project 1800 Powell St., Emeryville, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-11-0778-7	Aqueous	GC/MS RR	11/16/09	11/16/09	091116S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	102	72-120	1	0-20	
Carbon Tetrachloride	101	102	63-135	1	0-20	
Chlorobenzene	96	95	80-120	1	0-20	
1,2-Dibromoethane	100	101	80-120	1	0-20	
1,2-Dichlorobenzene	97	97	80-120	0	0-20	
1,1-Dichloroethene	100	100	60-132	0	0-24	
Ethylbenzene	103	101	78-120	2	0-20	
Toluene	100	99	74-122	1	0-20	
Trichloroethene	96	95	69-120	0	0-20	
Vinyl Chloride	93	96	58-130	4	0-20	
Methyl-t-Butyl Ether (MTBE)	103	108	72-126	5	0-21	
Tert-Butyl Alcohol (TBA)	117	104	72-126	4	0-20	
Diisopropyl Ether (DIPE)	107	112	71-137	4	0-23	
Ethyl-t-Butyl Ether (ETBE)	103	110	74-128	7	0-20	
Tert-Amyl-Methyl Ether (TAME)	92	97	76-124	4	0-20	
Ethanol	88	83	35-167	6	0-48	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.	Date Received: 11/14/09
1680 Rogers Avenue	Work Order No: 09-11-1227
San Jose, CA 95112-1105	Preparation: EPA 5030B
	Method: LUFT GC/MS / EPA 8260B

Project 1800 Powell St., Emeryville, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-14	Aqueous	GC/MS RR	11/16/09	11/17/09	091116S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	97	99	72-120	2	0-20	
Carbon Tetrachloride	92	96	63-135	4	0-20	
Chlorobenzene	91	92	80-120	1	0-20	
1,2-Dibromoethane	99	102	80-120	3	0-20	
1,2-Dichlorobenzene	94	92	80-120	1	0-20	
1,1-Dichloroethene	91	96	60-132	5	0-24	
Ethylbenzene	95	96	78-120	2	0-20	
Toluene	94	96	74-122	2	0-20	
Trichloroethene	92	95	69-120	4	0-20	
Vinyl Chloride	88	92	58-130	5	0-20	
Methyl-t-Butyl Ether (MTBE)	101	107	72-126	6	0-21	
Tert-Butyl Alcohol (TBA)	101	102	72-126	1	0-20	
Diisopropyl Ether (DIPE)	107	111	71-137	4	0-23	
Ethyl-t-Butyl Ether (ETBE)	102	109	74-128	6	0-20	
Tert-Amyl-Methyl Ether (TAME)	90	95	76-124	5	0-20	
Ethanol	86	85	35-167	2	0-48	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.		Date Received:	N/A
1680 Rogers Avenue		Work Order No:	09-11-1227
San Jose, CA 95112-1105		Preparation:	EPA 3510C
		Method:	EPA 8015B

Project: 1800 Powell St., Emeryville, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-211-1,426	Aqueous	GC 45	11/16/09	11/18/09	091116B12

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	115	116	75-117	1	0-13	

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: 09-11-1227
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 1800 Powell St., Emeryville, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-2,856	Aqueous	GC/MS RR	11/16/09	11/16/09	091116L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	97	98	80-122	73-129	1	0-20	
Carbon Tetrachloride	95	95	68-140	56-152	0	0-20	
Chlorobenzene	92	93	80-120	73-127	1	0-20	
1,2-Dibromoethane	100	100	80-121	73-128	1	0-20	
1,2-Dichlorobenzene	95	96	80-120	73-127	1	0-20	
1,1-Dichloroethene	91	93	72-132	62-142	1	0-25	
Ethylbenzene	97	98	80-126	72-134	1	0-20	
Toluene	95	95	80-121	73-128	0	0-20	
Trichloroethene	92	91	80-123	73-130	0	0-20	
Vinyl Chloride	94	95	67-133	56-144	1	0-20	
Methyl-t-Butyl Ether (MTBE)	103	105	75-123	67-131	2	0-20	
Tert-Butyl Alcohol (TBA)	99	95	75-123	67-131	4	0-20	
Diisopropyl Ether (DIPE)	105	108	71-131	61-141	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	103	106	76-124	68-132	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	95	96	80-123	73-130	1	0-20	
Ethanol	86	77	61-139	48-152	11	0-27	
TPPH	85	82	65-135	53-147	4	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: 09-11-1227
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 1800 Powell St., Emeryville, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-2,863	Aqueous	GC/MS RR	11/16/09	11/16/09	091116L02

Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	94	95	80-122	73-129	1	0-20	
Carbon Tetrachloride	91	92	68-140	56-152	2	0-20	
Chlorobenzene	89	89	80-120	73-127	0	0-20	
1,2-Dibromoethane	96	96	80-121	73-128	0	0-20	
1,2-Dichlorobenzene	89	86	80-120	73-127	4	0-20	
1,1-Dichloroethene	89	91	72-132	62-142	1	0-25	
Ethylbenzene	93	92	80-126	72-134	1	0-20	
Toluene	91	92	80-121	73-128	1	0-20	
Trichloroethene	89	89	80-123	73-130	1	0-20	
Vinyl Chloride	93	96	67-133	56-144	3	0-20	
Methyl-t-Butyl Ether (MTBE)	99	101	75-123	67-131	2	0-20	
Tert-Butyl Alcohol (TBA)	96	99	75-123	67-131	2	0-20	
Diisopropyl Ether (DIPE)	104	106	71-131	61-141	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	100	102	76-124	68-132	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	88	90	80-123	73-130	1	0-20	
Ethanol	82	89	61-139	48-152	8	0-27	
TPPH	80	79	65-135	53-147	1	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: 09-11-1227

Qualifier	Definition
*	See applicable analysis comment.
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 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 with no further corrective action required.
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.
H	Sample received and/or analyzed past the recommended holding time.
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: Peter Schaefer 240894
INCIDENT # (ENV SERVICES): 98995374 ☐ CHECK IF NO INCIDENT # APPLIES
PO # / SAP #
DATE: 11-12-09
PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services	LOG CODE: BTSS	SITE ADDRESS: Street and City: 1800 Powell St., Emeryville	State: CA
ADDRESS: 1680 Rogers Ave, San Jose, CA 95112		GLOBAL ID NO: T0600101231	
PROJECT CONTACT (Hardcopy or PDF Report to): Michael Ninokata Copy to Shell.Lab.Billing@craworld.com		EDF DELIVERABLE TO (Name, Company, Office Location): Anni Kreml, CRA, Emeryville	PHONE NO: (510) 420-3335
TELEPHONE: (408)573-0555	FAX: (408)573-7771	E-MAIL: mninokata@blainetech.com	E-MAIL: Shelledf@craworld.com
SAMPLER NAME(S) (Print): AK		CONSULTANT PROJECT NO: 091112-AK-1	BTS #: 09-11-1227

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:
S-12 - REACTION W/ HCL. NON-PRESERVE. (S-10, S-8, S-14, S-13) TO VOAS
Run TPH-d w/silica Gel Clean Up AK

☐ 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 (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	S-14	11/12	1320	W	X			X		5	X	X	X	X										
2	S-12		1110					X		5	X	X	X	X										
3	S-5		1035		X					3	X		X	X										
4	S-13		1200					X		5	X	X	X	X										
5	S-8		1240					X		3	X		X	X										
6	S-10		1425					X		5	X	X	X	X										

Relinquished by: (Signature)	Received by: (Signature)	Date: 11-12-09	Time: 1615
Relinquished by: (Signature) (Sample Custody Seal) -0- 11-13-09	Received by: (Signature) CEL	Date: 11/13/09	Time: 1235
Relinquished by: (Signature) GSD 1730 ($130259564)	Received by: (Signature) CEL	Date: 11/14/09	Time: 1030

05/2/06 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-11-1227

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: BTS DATE: 11/14/09

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

Temperature 4.5 °C - 0.8 °C (CF) = 3.7 °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:** _____

CUSTODY SEALS INTACT:

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

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

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.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and 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 3 ☑VOAh 3 ☐VOA**na**$_2$ ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na**$_2$ ☐1AGB**s**

☐500AGB ☑500AGJ 2 ☐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:** WSC

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

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:** _____

WELL GAUGING DATA

Project # 091112AK1 Date 11-12-09 Client SHELL

Site 1800 POWELL ST, EMERYVILLE

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
S-5	1013	8					8.52	12.70		6
S-8	956	3					10.00	17.84		3
S-9	952	3	ODOR				* DRY	—		G/O w/ BA
S-10	1007	6					10.31	19.30		5
S-12	949	3					8.00	23.88		2
S-13	1001	3	ODOR				9.82	18.76		4
S-14	945	3					9.67	22.93	↓	1
			* Noted tar on bailer when removed							
			during check. Well dry.							

SHELL WELL MONITORING DATA SHEET

BTS #: 091112AK1	Site: 98995349
Sampler: AK	Date: 11-12-09
Well I.D.: S-5	Well Diameter: 2 3 4 6 (8) ___
Total Well Depth (TD): 12.70	Depth to Water (DTW): 8.52
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]: 9.35	

Purge Method: Bailer, Disposable Bailer, Middleburg, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other: _____

4.18

10.8 (Gals.) X 3 = 32.6 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 8 =	radius² * 0.163 2.60

Time	Temp (°F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	Gals. Removed	Observations
1026	68.6	7.1	1956	53	11.0	ODOR
1028	69.5	7.0	1957	9	22.0	ODOR
1030	69.9	6.9	1933	4	33.0	ODOR
PURGED OUT OF ORDER - ACCESS						

Did well dewater? Yes (No) Gallons actually evacuated: 33.0

Sampling Date: 11-12-09 Sampling Time: 1035 Depth to Water: 8.92

Sample I.D.: S-5 Laboratory: (Calscience) Other_____

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

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

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

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

3 VOA

SHELL WELL MONITORING DATA SHEET

BTS #: 091112AK1	Site: 98995349
Sampler: AK	Date: 11-12-09
Well I.D.: S-8	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): 17.84	Depth to Water (DTW): 10.00
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]: 11.56	

Purge Method: (Bailer) Disposable Bailer; Middleburg; Electric Submersible; Waterra Peristaltic; Extraction Pump; Other_____

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

7.84

2.9 (Gals.) X 3 = 8.7 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/cm or (µS/cm))	Turbidity (NTUs)	Gals. Removed	Observations
1228	70.3	7.1	3014	476	3.0	
1234	71.6	6.8	2593	471	6.0	
1239	72.4	6.9	2689	376	9.0	
REACTION W/ HCL – NON PRESERVE VOAs						

Did well dewater? Yes (No) Gallons actually evacuated: 9.0

Sampling Date: 11-12-09 Sampling Time: 1240 Depth to Water: 10.05

Sample I.D.: S-8 Laboratory: (Calscience) Other_____

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

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

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

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

3 VOA

SHELL WELL MONITORING DATA SHEET

BTS #: 091112AC1	Site: 9899534g
Sampler: AE	Date: 11-12-09
Well I.D.: S-10	Well Diameter: 2 3 4 (6) 8 ____
Total Well Depth (TD): 19.30	Depth to Water (DTW): 10.31
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]: 12.10	

Purge Method: Bailer / Disposable Bailer / Middleburg / (Electric Submersible) / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: (Bailer) / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: _____

8.99

13.2 (Gals.) X 3 = 39.6 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Gals. Removed	Observations
1135	70.8	6.8	1569	17	13.5	
DEWATERED	@		15.0	GALLONS	DTW:	17.00
1425	70.4	7.2	8675	>1000	* REACTION TO HCL – VOAS NON PRESERVE:	
* NOT @	80%	–	2+	hour recharge		
PURGED	OUT	OF	ORDER –	ACCESS		

Did well dewater? (Yes) No Gallons actually evacuated: 15.0

Sampling Date: 11-12-09 Sampling Time: 1425 Depth to Water: 17.02

Sample I.D.: S-10 Laboratory: (Calscience) Other_____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 091112AK1	Site: 9899 5349
Sampler: AF	Date: 11-12-09
Well I.D.: S-12	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth (TD): 23.88	Depth to Water (DTW): 8.00
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]: 11.17	

Purge Method: Bailer, Disposable Bailer, Middleburg, ~~Electric Submersible~~, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: ~~Bailer~~, Disposable Bailer, Extraction Port, Dedicated Tubing, Other: _____

15.88

5.8 (Gals.) X 3 = 17.6 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS/cm or ~~µS/cm~~)	Turbidity (NTUs)	Gals. Removed	Observations
1101	66.7	7.1	1855	15	6.0	ODOR
1102	69.4	6.6	2177	8	12.0	ODOR
1103	69.0	6.6	2142	7	18.0	ODOR
BRIEFLY WAITED FOR 80%						
* REACTION W/ HCL - NO PRESERVATIVE IN VOA'S						

Did well dewater? Yes (No) Gallons actually evacuated: 18.0

Sampling Date: 11-12-09 Sampling Time: 1110 Depth to Water: 11.10

Sample I.D.: S-12 Laboratory: (Calscience) Other_____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 091112AKC1	Site: 98995349
Sampler: AK	Date: 11/12/09
Well I.D.: S-13	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth (TD): 18.76	Depth to Water (DTW): 9.82
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]: 11.60	

Purge Method: (Bailer) Waterra Sampling Method: (Bailer)
Disposable Bailer Peristaltic Disposable Bailer
Middleburg Extraction Pump Extraction Port
Electric Submersible Other_____ Dedicated Tubing
Other: _____

8.94

3.3 (Gals.) X 3 = 9.9 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/cm or (µS/cm))	Turbidity (NTUs)	Gals. Removed	Observations
1146	69.2	6.9	10070	487	3.5	
1152	69.5	6.9	9164	>1000	7.0	
1158	69.8	7.0	9056	>1000	10.5	
REACTION W/ HCL - NON PRESERVE VOAs						

Did well dewater? Yes (No) Gallons actually evacuated: 10.5

Sampling Date: 11-12-09 Sampling Time: 1200 Depth to Water: 9.95

Sample I.D.: S-13 Laboratory: (Calscience) Other_____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 091112AKC1	Site: 98995349
Sampler: AK	Date: 11-12-09
Well I.D.: S-14	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth (TD): 22.93	Depth to Water (DTW): 9.67
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]: 12.32	

Purge Method: ~~Bailer~~ / Disposable Bailer / Middleburg / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: ~~Bailer~~ / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: _____

13.26

4.9 (Gals.) X 3 = 14.7 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/cm or ~~µS/cm~~)	Turbidity (NTUs)	Gals. Removed	Observations
1300	70.0	6.9	4136	156	5.0	
1308	70.8	6.9	4708	158	10.0	
1316	69.8	6.8	4857	185	15.0	
REACTION	W/ HCL -	VOAS	NON	PRESERVED		
PURGED	OUT	OF	ORDER-	ACCESS		

Did well dewater? Yes (No) Gallons actually evacuated: 15.0

Sampling Date: 11-12-09 Sampling Time: 1320 Depth to Water: 9.69

Sample I.D.: S-14 Laboratory: (Calscience) Other_____

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

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

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

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

SHELL SITE INSPECTION CHECKLIST

Client Shell Date 8/12/09

Site Address 1800 Powell Emeryville

Job Number 090812-BW2 Technician BW

Site Status Shell Branded Station Vacant Lot Other

Inspected / Labeled / Cleaned - all wells on Scope Of Work	☒	
Inspected / Cleaned Components - all other identifiable wells	☒	N/A
Inspected site for site investigation & site remediation related trip hazards	☒	
Completed all outstanding *BLAINE Wellhead Repair Order(s)*	½	N/A
Completed *Shell Wellhead Repair Form(s)*	☒	N/A
Inspected treatment / remediation system compound for security, cleanliness and appearance	☐	N/A
Inspected vacant lot for signs of habitation, hazardous materials or terrain, overgrown vegetation and security	☐	N/A
Visually inspected site drums for condition and proper labeling	☐	N/A
Unresolved deficiencies identified - *"Notice of Deficient Condition"* form(s) completed	☐	N/A

Notes

PROJECT MANAGER ONLY

Checklist Reviewed mrd 8/19 Notes

Initial/Date

SHELL WELLHEAD REPAIR FORM

(FOR REPAIR TECHNICIAN)

Site Address 1800 Powell Emeryville Date 8/12/09

Job Number 090812-BW2 Technician BW Page 1 of

Inspection Point (Well ID or description of location)	Well Inspected, Cleaned, Labeled - No Further Corrective Action Required	Replaced Cap	Replaced Lock	Replaced Lid Seal	Check Indicates deficiency: Casing	Annular Seal	Tabs / Bolts	Box Structure	Apron	Trip Hazard	Below Grade	Not Securable by Design (12" diameter or less)	Lid not marked with words "MONITORING WELL"	Other Deficiency	Not Securable by Design (greater than 12" diameter)	Well Not Inspected (explain in notes)	All Repairs Completed	Remaining Deficiencies Logged onto *BLAINE Repair Order*	Remaining Deficiencies Logged onto *Notice of Deficient Condition* - BLAINE Unable to Repair
S-5							X										X		
	Notes: Retapped 1/2 Tabs																		
	Well box type / size: 12" Emco													Materials used: 2 bolts					
S-8		X/4	X				X										X		
	Notes: Heli-Coil 1/2 Tabs Retapped 1/2 Tabs																		
	Well box type / size: 12" Emco													Materials used: 2 bolts					
S-9							X		X									X	
	Notes: Retapped 1/2 Tabs																		
	Well box type / size: 12" Emco													Materials used: 2 bolts					
S-10			X	X			X										X		
	Notes: Retapped 1/2 Tabs																		
	Well box type / size: 12" Emco													Materials used: 2 bolts					
S-12							X										X		
	Notes: Retapped 1/2 Tabs																		
	Well box type / size: 12" Morrison													Materials used: 2 bolts					
S-13			X				X										X		
	Notes: Retapped 1/2 Tabs																		
	Well box type / size: 12" Emco													Materials used: 2 bolts					
S-14		X/4	X				X										X		
	Notes: Retapped 1/2 Tabs																		
	Well box type / size: 8" Emco													Materials used: 2 bolts					

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 1900 POWELL ST, EMERYVILLE Date 11-12-09

Job Number 091112AK1 Technician AK 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
S-5	✓	✓							
S-8	✓	✓							
S-9	✓	✓							
S-10	✓	✓							
S-12	✓	✓							
S-13	✓	✓							
S-14	✓	✓							

*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: