



March 11, 1996

20319

Barney Chan
Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway,
Suite 250
Alameda, CA 94502-6577

Re: **Fourth Quarter 1995**
Former Shell Service Station
WIC #204-5508-2402
7915 East 14th Street
Oakland, California
WA Job #81-0424-105

Dear Mr. Chan:

This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Division 3, Chapter 16, Article 5, Section 2652.d.

Fourth Quarter 1995 Activities:

- Blaine Tech Services, Inc. (BTS) of San Jose, California collected ground water samples from the site wells. In addition to standard hydrocarbon analyses, BTS collected samples from all wells for analysis of BTEX-degrading units (BDU), total Kjeldahl nitrogen (TKN), potassium, phosphate and dissolved oxygen (DO).
- Weiss Associates (WA) compiled the ground water elevation and analytic data (Tables 1 and 2) and prepared a map showing ground water elevation contours and benzene concentrations in ground water (Figure 2).
- BTS measured 6.31 ppm DO in well MW-2 to verify the performance of the Oxygen Releasing Compound (ORC)TM. The ORC was installed in well MW-2 to supply oxygen to ground water, which should enhance hydrocarbon biodegradation.

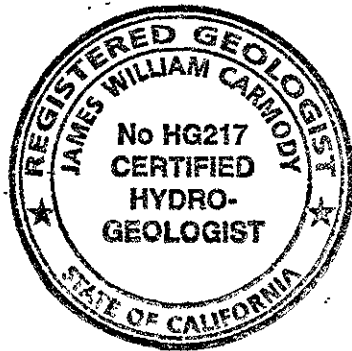
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MAR 13 1996
FBI - OAKLAND


Anticipated First Quarter 1996 Activities:

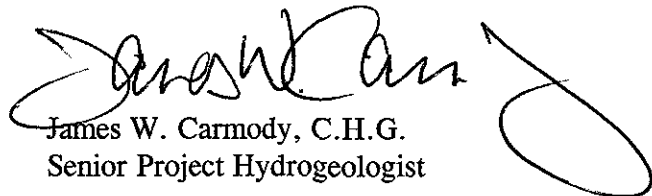
- WA will replenish the ORC in well MW-2 and will continue to monitor DO concentrations in all site wells.
- WA will submit a report presenting the results of the first quarter 1996 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, ground water elevation measurements and a map showing ground water elevation contours and benzene concentration in ground water. In addition, all wells will continue to be sampled for BDU, TKN, potassium and phosphate, and measured for DO.

Please call if you have any questions.

Sincerely,
Weiss Associates




Grady S. Glasser
Technical Assistant


James W. Carmody, C.H.G.
Senior Project Hydrogeologist

Attachment: A - BTS Ground Water Monitoring Report

cc: R. Jeff Granberry, Shell Oil Products Company, PO Box 4023, Concord, CA 94524

TMH/JWC:all
I:\SHELL\0424\QM\95Q4\95Q4R.DOC

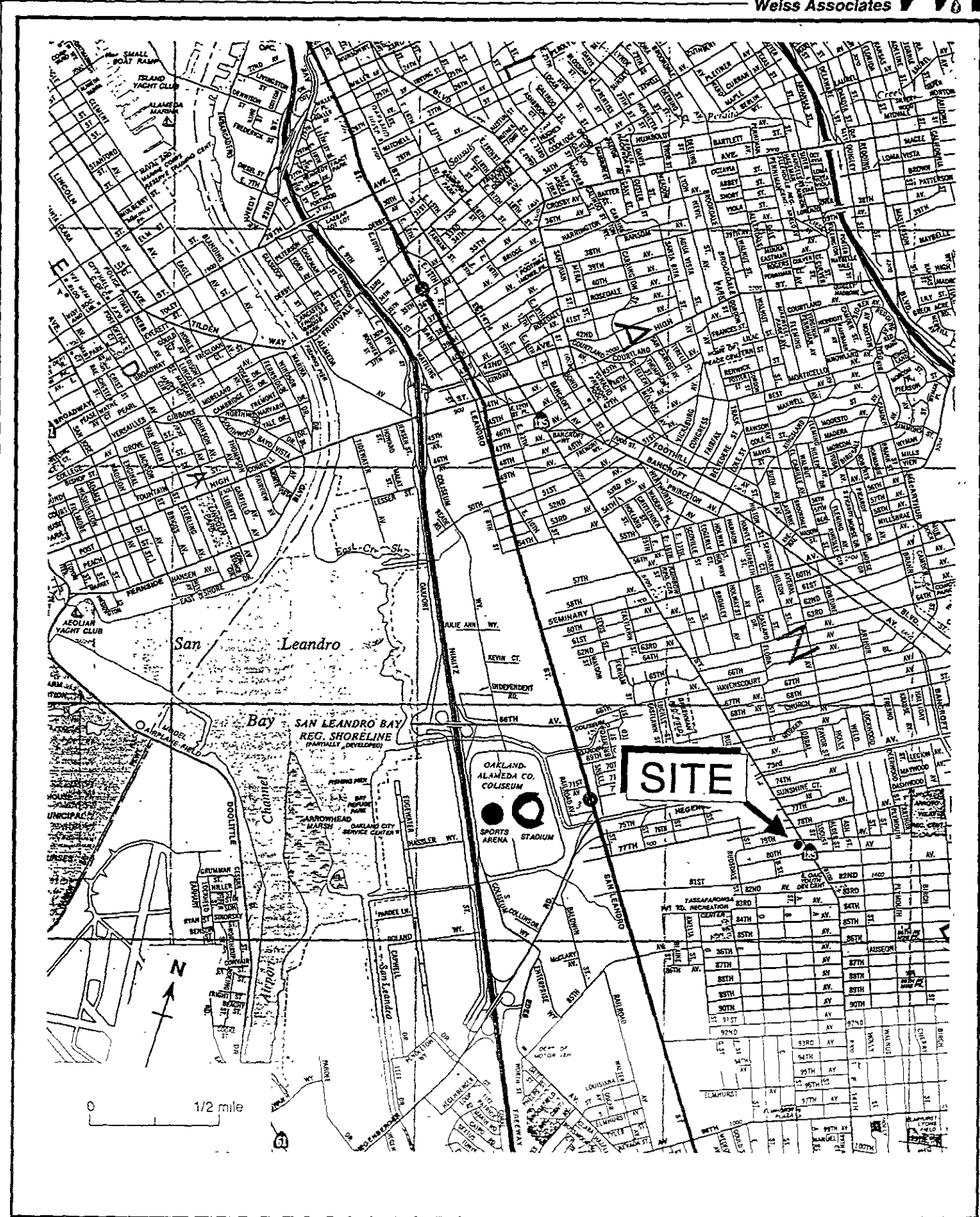


Figure 1. Site Location Map - Former Shell Service Station WIC #204-5508-2402, 7915 East 14th Street, Oakland, California

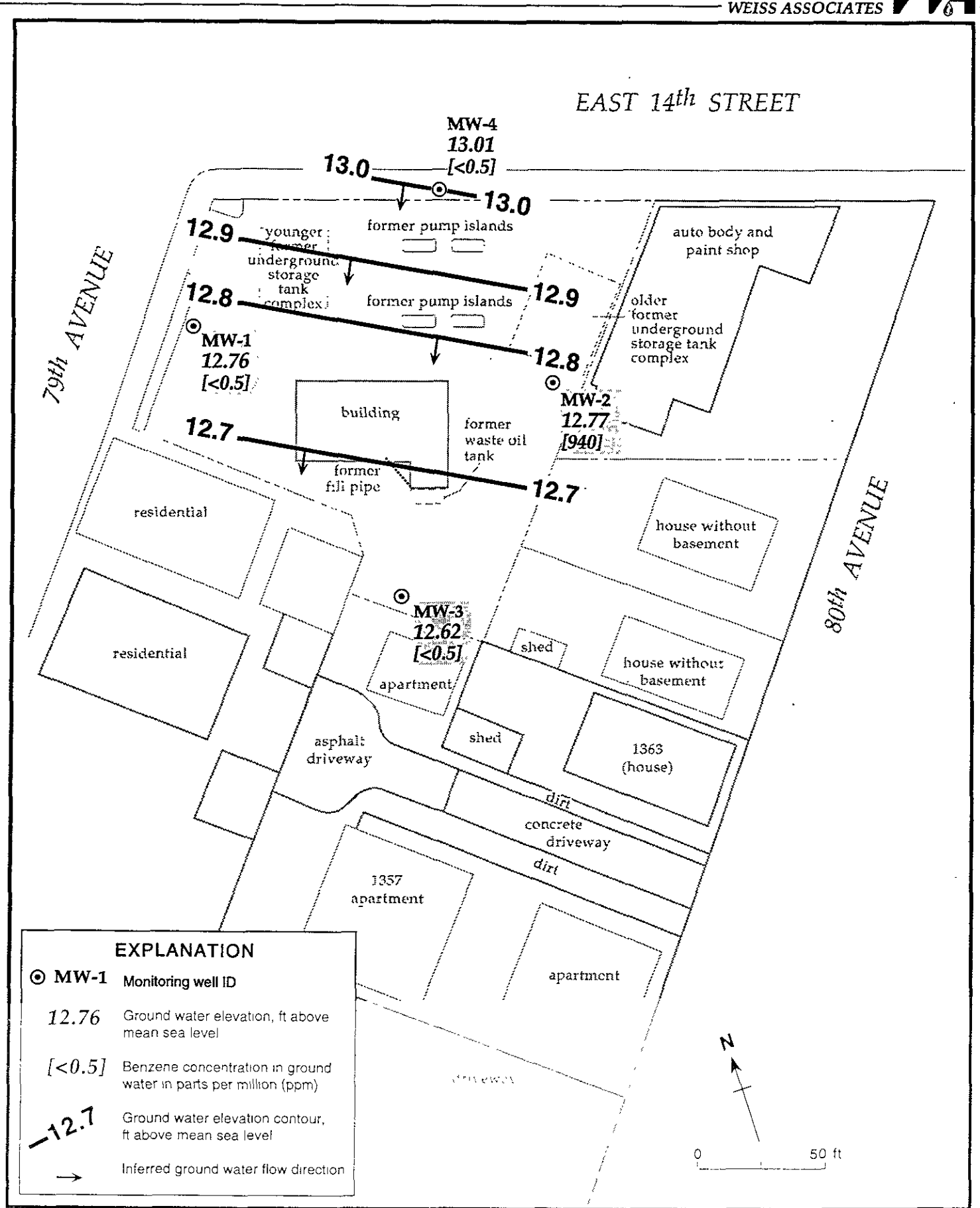


Figure 2. Monitoring Well Locations, Ground Water Elevation Contours, and Benzene Concentrations in Ground Water - November 28, 1995 - Former Shell Service Station WIC #204-5508-2402, 7915 East 14th Street, Oakland, California

Table 1. Ground Water Elevations - Former Shell Service Station WIC #204-5508-2402, 7915 East 14th Street, Oakland, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-1	02/02/94	22.84	9.51	13.33
	06/16/94		9.80	13.04
	08/04/94		9.61	13.23
	11/08/94		9.48	13.36
	02/28/95		9.18	13.66
	05/10/95		9.16	13.68
	06/28/95		9.44	13.40
	10/16/95		10.01	12.83
	11/28/95		10.08	12.76
MW-2	02/02/94	23.96	9.65	14.31
	06/16/94		9.82	14.14
	08/04/94		10.73	13.23
	11/08/94		9.68	14.28
	02/28/95		9.72	14.24
	05/10/95		9.70	14.26
	06/28/95		9.72	14.24
	10/16/95		10.93	13.03
	11/28/95		11.19	12.77
MW-3	02/02/94	24.43	10.79	13.64
	06/16/94		11.22	13.21
	08/04/94		11.54	12.89
	11/08/94		10.42	14.01
	02/28/95		10.60	13.83
	05/10/95		10.56	13.87
	06/28/95		10.76	13.67
	10/16/95		11.77	12.66
	11/28/95		11.81	12.62
MW-4	02/02/94	22.88	9.59	13.29
	06/16/94		9.18	13.70
	08/04/94		9.25	13.63
	11/08/94		9.10	13.78
	02/28/95		8.18	14.70
	05/10/95		8.56	14.32
	06/28/95		9.14	13.74
	10/16/95		9.68	13.20
	11/28/95		9.87	13.01

Table 2. Analytic Results for Ground Water - Former Shell Service Station, WIC #204-5508-2402, 7915 East 14th Street, Oakland, California

Sample	Date Sampled	Depth to Water (ft)	TPH-G B E T X					POG	BDU units/L	DO	TKN	PHOS	K
			←parts per billion (µg/L)→										
MW-1	02/02/94	9.51	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	06/16/94	9.80	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	08/04/94	9.61	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	11/08/94	9.48	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	02/28/95	9.18	<50	<0.5	<0.5	0.8 ^a	0.5 ^a	---	---	---	---	---	
	05/10/95	9.16	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	06/28/95	9.44	---	---	---	---	---	10 ³	3.6	5.3	---	---	
	09/06/95	9.28	<50	<0.3	<0.3	<0.3	<0.6	---	7.8	0.61	0.35	1.25	
	09/12/95	10.01	---	---	---	---	---	10 ³	3.2	---	---	---	
	11/28/95	10.08	<50	<0.5	<0.5	<0.5	<0.5	---	10 ²	4.4	0.17	0.10	<2
MW-2	02/02/94	9.65	25,000	3,800	990	560	5,300	---	---	---	---	---	
	06/16/94	9.82	24,000	4,900	1,200	250	4,800	---	---	---	---	---	
	08/04/94	10.73	27,000	4,300	1,200	260	4,000	---	---	---	---	---	
	08/04/94	10.73	31,000	4,700	1,300	300	4,500	---	---	---	---	---	
	11/08/94	9.68	29,000	7,400	2,100	340	5,700	---	---	---	---	---	
	11/08/94 ^{dup}	9.68	32,000	6,600	2,200	340	5,900	---	---	---	---	---	
	02/28/95	9.72	23,000	5,000	1,600	150	2,400	---	---	---	---	---	
	02/28/95 ^{dup}	9.72	23,000	5,100	1,600	150	2,400	---	---	---	---	---	
	05/10/95	9.70	26,000	3,600	1,500	110	1,200	---	---	---	---	---	
	05/10/95 ^{dup}	9.70	17,000	3,600	1,500	91	1,300	---	---	---	---	---	
	06/28/95 ^b	9.72	---	---	---	---	---	10 ¹	3.4	---	---	---	
	09/06/95	11.36	12,778	2,321	619	41.4	601	---	3.9	1.1	0.26	15.1	
	09/12/95	10.93	---	---	---	---	---	10 ⁶	8.0	---	---	---	
	11/28/95	11.19	4,500	940	220	20	270	10 ³	6.3	0.87	0.34	4.9	
	11/28/95 ^{dup}	11.19	4,400	880	220	16	260	---	6.3	0.76	0.33	5.0	
MW-3	02/02/94	10.79	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	06/16/94	11.22	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	06/16/94 ^{dup}	11.22	<50	<0.5	<0.5	<0.5	<0.5	<5,000	---	---	---	---	
	08/04/94	11.54	<50	<0.5	<0.5	<0.5	<0.5	<5,000	---	---	---	---	
	11/08/94	10.42	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	



Table 2. Analytic Results for Ground Water - Former Shell Service Station, WIC #204-5508-2402, 7915 East 14th Street, Oakland, California
(continued)

Sample	Date Sampled	Depth to Water (ft)	←parts per billion (µg/L)→					POG	BDU units/L	DO	←parts per million (mg/L)→		
			TPH-G	B	E	T	X				TKN	PHOS	K
	02/28/95	10.60	<50	<0.5	<0.5	<0.5	<0.5	<5,000	---	---	---	---	---
	05/10/95	10.56	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	06/28/95	10.76	---	---	---	---	---	---	10 ¹	3.2	3.2	---	---
	09/06/95	11.22	<50	<0.3	<0.3	<0.3	<0.6	<1.0	---	3.7	0.53	0.16	0.90
	09/12/95	11.77	---	---	---	---	---	---	10 ³	3.1	---	---	---
	11/28/95	11.81	<50	<0.5	<0.5	<0.5	<0.5	<5,000	10 ¹	3.9	0.35	0.04	<2
MW-4	02/02/94	9.59	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	06/16/94	9.18	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	08/04/94	9.25	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	11/08/94	9.10	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	02/28/95	8.18	<50	<0.5	<0.5	<0.5	0.8 ^b	---	---	---	---	---	---
	05/10/95	8.56	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	06/28/95 ^b	9.14	---	<10	<10	10 ¹	---	---	<10	3.2	5.6	---	---
	09/06/95	9.28	<50	<0.3	<0.3	<0.3	<0.6	---	---	6.7	0.41	0.23	0.42
	09/12/95	9.68	---	---	---	---	---	---	10 ²	2.0	---	---	---
	11/28/95	9.87	<50	<0.5	<0.5	<0.5	<0.5	---	10 ⁰	4.3	0.28	0.06	<2
Trip	02/02/94		<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
Blank	06/16/94		<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	08/04/94		<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	11/08/94		<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	02/28/95		<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	05/10/95		<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	11/28/95		<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
DTSC MCLs			NE	1.0	680	100 ^c	1,750	NE	NE	NE	NE	NE	NE

Table 2. Analytic Results for Ground Water - Former Shell Service Station, WIC #204-5508-2402, 7915 East 14th Street, Oakland, California
(continued)

Abbreviations.

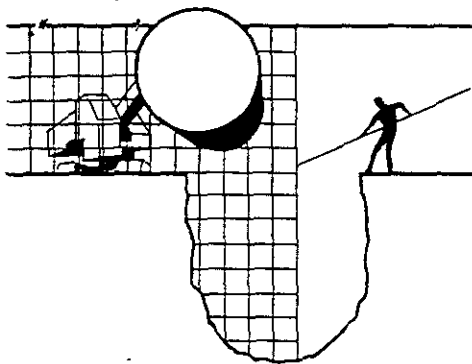
TPH G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
B = Benzene by EPA Method 602 or 8020
E = Ethylbenzene by EPA Method 602 or 8020
T = Toluene by EPA Method 602 or 8020
X = Xylenes by EPA Method 602 or 8020
POG = Polar oil and grease by APHA Method 5520 B/F or EPA Method 413.1
BDU = Estimated Benzene Degrading Units
DO = Dissolved oxygen by portable field meter
TKN = Total Kjeldahl nitrogen by EPA Method 351.3
K = Potassium by EPA Method 258.1
PHOS = Phosphate by EPA Method 365.2
DTSC MCLs = California Department of Toxic Substances Control maximum
contaminant levels for drinking water
NE = Not established
--- = Not analyzed
dup = Duplicate sample

Notes:

a = Confirmed suspected lab contamination; NET letter March 1, 1995
b = Analyzed for VOCs by EPA Method 8010; ND for all analytes
c = DTSC recommended action level for drinking water; MCL not established

ATTACHMENT A

**GROUND WATER MONITORING REPORT
AND
ANALYTIC REPORT**



BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

December 19, 1995

Shell Oil Company
P.O. Box 4023
Concord, CA 94524

Attn: R. Jeff Granberry

Shell WIC #204-5508-2402
7915 East 14th Street
Oakland, California

4th Quarter 1995

Quarterly Groundwater Monitoring Report 951128-K-2

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. Copies of our Sampling Report along with the laboratory's Certified Analytical Report are forwarded to the consultant overseeing work at this site. Submission of the assembled documents to interested regulatory agencies will be made by the designated consultant.

Groundwater monitoring at this site was performed in accordance with Standard Operating Procedures provided to the interested regulatory agencies. If you have any questions about the work performed at this site please call me at (408) 995-5535 ext. 201.

Yours truly,

Francis Thie

attachments: Table of Well Gauging Data
Chain of Custody
Field Data Sheets
Certified Analytical Report

cc. Weiss Associates
5500 Shellmound Street
Emeryville, CA 94608-2411
Attn: Grady Glasser

(Any professional evaluations or recommendations will be made by the consultant under separate cover.)

TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
MW-1	11/28/95	TOC	--	NONE	--	--	10.08	24.41
MW-2 *	11/28/95	TOC	ODOR	NONE	--	--	11.19	24.32
MW-3	11/28/95	TOC	--	NONE	--	--	11.81	23.66
MW-4	11/28/95	TOC	--	NONE	--	--	9.87	23.43

* Sample DUP was a duplicate sample taken from well MW-2.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 751128-12

Date: 11/28/95

Page 1 of 1

Site Address: 7915 East 14th Street, Oakland

WIC#: 204-5508-2402

Shell Engineer: Daniel T. Kirk
Phone No.: (510) 675-6168
Fax #: 675-6160

Consultant Name & Address:
Blaine Tech Services, Inc.
985 Timothy Dr., San Jose, CA 95133

Consultant Contact: Jim Keller
Phone No.: (408) 995-5535
Fax #: 293-8773

Comments:

Sampled by: KCB

Printed Name: Keith Brown

Analysis Required

LAB: Net

CHECK ONE (1) BOX ONLY	CT/DI	TURN AROUND TIME
Quality Monitoring <input type="checkbox"/>	6441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	6441	48 hours <input type="checkbox"/>
Soil Classfy/Disposal <input type="checkbox"/>	6442	15 days <input type="checkbox"/> (Holmat)
Water Classfy/Disposal <input type="checkbox"/>	6443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	6452	
Water Rem. or Sys. O & M <input type="checkbox"/>	6453	
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as possible of 24/48 hr. TAT.

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	TKA	Phosphate	Potassium	Oil & Grease	Preparation Used	Composite Y/N	
SW1	11/28			W		6						X	X	X	X	X			
SW2						6						X	X	X	X	X			
SW3 ³ 2+						7						X	X	X	X	X	X		
SW4						6						X	X	X	X	X			
DUP						6						X	X	X	X	X			
EB						6						X	X	X	X	X			
TB						2						X							

MATERIAL DESCRIPTION

SAMPLE CONDITION/ COMMENTS
Time

CUSTODY SEALED
Date: 11/28/95 Time: 6:50 Initials: [Signature]
SEAL INTACT?
Yes No Initials: [Signature]

Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>Keith Brown</u>	Date: <u>11/28/95</u> Time: <u>11:45</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>P. Smart</u>	Date: <u>11/28/95</u> Time: <u>16:50</u>
Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>P. Smart</u>	Date: <u>11/28/95</u> Time: <u>16:50</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>PAM GREENG</u>	Date: <u>11/30/95</u> Time: <u>08:00</u>
Relinquished By (signature):	Printed Name:	Date:	Received (signature):	Printed Name:	Date:



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Santa Rosa Division
3636 North Laughlin Road
Suite 110
Santa Rosa, CA 95403-8226
Tel: (707) 526-7200
Fax: (707) 541-2333

Jim Keller
Blaine Tech Services
985 Timothy Dr.
San Jose, CA 95133

Date: 12/14/1995
NET Client Acct. No: 1821
NET Job No: 95.04585
Received: 11/30/1995

Client Reference Information

Shell 7915 East 14th Street, Oakland, CA/951128-K2

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. All positive results have been confirmed as required. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2305.

Submitted by:

A handwritten signature in cursive script that reads "Ginger Brinlee".

Ginger Brinlee
Project Coordinator

Enclosure(s)





Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.04585

Date: 12/14/1995
ELAP Cert: 1386
Page: 2

Ref: Shell 7915 East 14th Street, Oakland, CA/951128-K2

SAMPLE DESCRIPTION: MW1

Date Taken: 11/28/1995

Time Taken: 09:50

NET Sample No: 256509

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
Total Kjeldahl Nitrogen	170		100	ug/L	351.2		12/04/1995	351
Total Phosphorus, as P	100		20	ug/L	365.2		12/05/1995	371
METHOD 6010 (LIQUID)	--						12/14/1995	978
Potassium (ICP)	ND		2,000	ug/L	EPA 6010	12/11/1995	12/14/1995	879
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						12/05/1995	3392
Purgeable TPH	ND		50	ug/L	5030/M8015		12/05/1995	3392
Carbon Range: C6 to C12	--						12/05/1995	3392
METHOD 8020 (GC, Liquid)	--						12/05/1995	3392
Benzene	ND		0.5	ug/L	8020		12/05/1995	3392
Toluene	ND		0.5	ug/L	8020		12/05/1995	3392
Ethylbenzene	ND		0.5	ug/L	8020		12/05/1995	3392
Xylenes (Total)	ND		0.5	ug/L	8020		12/05/1995	3392
SURROGATE RESULTS	--						12/05/1995	3392
Bromofluorobenzene (SURR)	102			% Rec.	8020		12/05/1995	3392

NOTE Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.04585

Date: 12/14/1995
ELAP Cert: 1386
Page: 3

Ref: Shell 7915 East 14th Street, Oakland, CA/951128-K2

SAMPLE DESCRIPTION: MW2

Date Taken: 11/28/1995

Time Taken: 10:40

NET Sample No: 256510

Parameter	Results	Flags	Reporting			Date	Date	Run
			Limit	Units	Method	Extracted	Analyzed	Batch
Total Kjeldahl Nitrogen	870		100	ug/L	351.2		12/04/1995	351
Total Phosphorus, as P	340		20	ug/L	365.2		12/05/1995	371
METHOD 6010 (LIQUID)	--						12/14/1995	978
Potassium (ICP)	4,900		2,000	ug/L	EPA 6010	12/11/1995	12/14/1995	879
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	10						12/06/1995	3396
Purgeable TPH	4,500		500	ug/L	5030/M8015		12/06/1995	3396
Carbon Range: C6 to C12	--						12/06/1995	3396
METHOD 8020 (GC, Liquid)	--						12/06/1995	3396
Benzene	940	FE	25	ug/L	8020		12/06/1995	3396
Toluene	20		5	ug/L	8020		12/06/1995	3396
Ethylbenzene	220		5	ug/L	8020		12/06/1995	3396
Xylenes (Total)	270		5	ug/L	8020		12/06/1995	3396
SURROGATE RESULTS	--						12/06/1995	3396
Bromofluorobenzene (SURR)	101			% Rec.	8020		12/06/1995	3396

FE Compound quantitated at a 50X dilution factor.

NOTE Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.04585

Date: 12/14/1995
ELAP Cert: 1386
Page: 4

Ref: Shell 7915 East 14th Street, Oakland, CA/951128-K2

SAMPLE DESCRIPTION: MW3

Date Taken: 11/28/1995

Time Taken: 10:00

NET Sample No: 256511

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
Total Kjeldahl Nitrogen	350		100	ug/L	351.2		12/04/1995	351
Total Phosphorus, as P	40		20	ug/L	365.2		12/05/1995	371
Oil & Grease (Total)	ND		5,000	ug/L	5520B		12/02/1995	365
Oil & Grease (Non-Polar)	ND		5,000	ug/L	5520B/F		12/02/1995	347
METHOD 6010 (LIQUID)	--						12/14/1995	978
Potassium (ICP)	ND		2,000	ug/L	EPA 6010	12/11/1995	12/14/1995	879
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						12/06/1995	3396
Purgeable TPH	ND		50	ug/L	5030/M8015		12/06/1995	3396
Carbon Range: C6 to C12	--						12/06/1995	3396
METHOD 8020 (GC, Liquid)	--						12/06/1995	3396
Benzene	ND		0.5	ug/L	8020		12/06/1995	3396
Toluene	ND		0.5	ug/L	8020		12/06/1995	3396
Ethylbenzene	ND		0.5	ug/L	8020		12/06/1995	3396
Xylenes (Total)	ND		0.5	ug/L	8020		12/06/1995	3396
SURROGATE RESULTS	--						12/06/1995	3396
Bromofluorobenzene (SURR)	99			% Rec.	8020		12/06/1995	3396



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.04585

Date: 12/14/1995
ELAP Cert: 1386
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Ref: Shell 7915 East 14th Street, Oakland, CA/951128-K2

SAMPLE DESCRIPTION: MW4

Date Taken: 11/28/1995

Time Taken: 09:30

NET Sample No: 256512

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
Total Kjeldahl Nitrogen	280		100	ug/L	351.2		12/04/1995	351
Total Phosphorus, as P	60		20	ug/L	365.2		12/05/1995	371
METHOD 6010 (LIQUID)	--						12/14/1995	978
Potassium (ICP)	ND		2,000	ug/L	EPA 6010	12/11/1995	12/14/1995	879
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						12/06/1995	3396
Purgeable TPH	ND		50	ug/L	5030/M8015		12/06/1995	3396
Carbon Range: C6 to C12	--						12/06/1995	3396
METHOD 8020 (GC, Liquid)	--						12/06/1995	3396
Benzene	ND		0.5	ug/L	8020		12/06/1995	3396
Toluene	ND		0.5	ug/L	8020		12/06/1995	3396
Ethylbenzene	ND		0.5	ug/L	8020		12/06/1995	3396
Xylenes (Total)	ND		0.5	ug/L	8020		12/06/1995	3396
SURROGATE RESULTS	--						12/06/1995	3396
Bromofluorobenzene (SURR)	100			% Rec.	8020		12/06/1995	3396



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.04585

Date: 12/14/1995
ELAP Cert: 1386
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Ref: Shell 7915 East 14th Street, Oakland, CA/951128-K2

SAMPLE DESCRIPTION: DUP

Date Taken: 11/28/1995

Time Taken:

NET Sample No: 256513

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
Total Kjeldahl Nitrogen	760		100	ug/L	351.2		12/04/1995	351
Total Phosphorus, as P	330		20	ug/L	365.2		12/05/1995	371
METHOD 6010 (LIQUID)	--						12/14/1995	978
Potassium (ICP)	5,000		2,000	ug/L	EPA 6010	12/11/1995	12/14/1995	879
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	20						12/06/1995	3396
Purgeable TPH	4,400		1,000	ug/L	5030/M8015		12/06/1995	3396
Carbon Range: C6 to C12	--						12/06/1995	3396
METHOD 8020 (GC, Liquid)	--						12/06/1995	3396
Benzene	880		10	ug/L	8020		12/06/1995	3396
Toluene	16		10	ug/L	8020		12/06/1995	3396
Ethylbenzene	220		10	ug/L	8020		12/06/1995	3396
Xylenes (Total)	260		10	ug/L	8020		12/06/1995	3396
SURROGATE RESULTS	--						12/06/1995	3396
Bromofluorobenzene (SURR)	102			% Rec.	8020		12/06/1995	3396

NOTE Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.04585

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Ref: Shell 7915 East 14th Street, Oakland, CA/951128-K2

SAMPLE DESCRIPTION: EB

Date Taken: 11/28/1995

Time Taken:

NET Sample No: 256514

Parameter	Results	Flags	Reporting			Date	Date	Run
			Limit	Units	Method	Extracted	Analyzed	Batch
Total Kjeldahl Nitrogen	ND		100	ug/L	351.2		12/04/1995	351
Total Phosphorus, as P	ND		20	ug/L	365.2		12/05/1995	371
METHOD 6010 (LIQUID)	--						12/14/1995	978
Potassium (ICP)	ND		2,000	ug/L	EPA 6010	12/11/1995	12/14/1995	879
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						12/06/1995	3396
Purgeable TPH	ND		50	ug/L	5030/M8015		12/06/1995	3396
Carbon Range: C6 to C12	--						12/06/1995	3396
METHOD 8020 (GC, Liquid)	--						12/06/1995	3396
Benzene	ND		0.5	ug/L	8020		12/06/1995	3396
Toluene	ND		0.5	ug/L	8020		12/06/1995	3396
Ethylbenzene	ND		0.5	ug/L	8020		12/06/1995	3396
Xylenes (Total)	ND		0.5	ug/L	8020		12/06/1995	3396
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	102			% Rec.	8020		12/06/1995	3396

NOTE Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.04585

Date: 12/14/1995
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Ref: Shell 7915 East 14th Street, Oakland, CA/951128-K2

SAMPLE DESCRIPTION: TB

Date Taken: 11/28/1995

Time Taken:

NET Sample No: 256515

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						12/06/1995	3396
Purgeable TPH	ND		50	ug/L	5030/M8015		12/06/1995	3396
Carbon Range: C6 to C12	--						12/06/1995	3396
METHOD 8020 (GC, Liquid)	--						12/06/1995	3396
Benzene	ND		0.5	ug/L	8020		12/06/1995	3396
Toluene	ND		0.5	ug/L	8020		12/06/1995	3396
Ethylbenzene	ND		0.5	ug/L	8020		12/06/1995	3396
Xylenes (Total)	ND		0.5	ug/L	8020		12/06/1995	3396
SURROGATE RESULTS	--						12/06/1995	3396
Bromofluorobenzene (SURR)	96			‡ Rec.	8020		12/06/1995	3396

NOTE Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
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Ref: Shell 7915 East 14th Street, Oakland, CA/951128-K2

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found	Standard Amount Expected				
Total Kjeldahl Nitrogen	90.5	3.6196	4.00	mg/L	12/04/1995	shr	351
Total Phosphorus, as P	100.8	0.0252	0.02500	mg/L	12/05/1995	pbg	371
METHOD 5030/8015-M (Shell)							
Purgeable TPH	100.0	0.50	0.50	mg/L	12/04/1995	dat3	3392
Benzene	94.6	4.73	5.00	ug/L	12/04/1995	dat3	3392
Toluene	93.2	4.66	5.00	ug/L	12/04/1995	dat3	3392
Ethylbenzene	95.6	4.78	5.00	ug/L	12/04/1995	dat3	3392
Xylenes (Total)	97.3	14.6	15.0	ug/L	12/04/1995	dat3	3392
Bromofluorobenzene (SURRE)	97.0	97	100	% Rec.	12/04/1995	dat3	3392
METHOD 5030/8015-M (Shell)							
Purgeable TPH	94.0	0.47	0.50	mg/L	12/06/1995	aal	3396
Benzene	111.8	5.59	5.00	ug/L	12/06/1995	aal	3396
Toluene	109.6	5.48	5.00	ug/L	12/06/1995	aal	3396
Ethylbenzene	110.2	5.51	5.00	ug/L	12/06/1995	aal	3396
Xylenes (Total)	111.3	16.7	15.0	ug/L	12/06/1995	aal	3396
Bromofluorobenzene (SURRE)	103.0	103	100	% Rec.	12/06/1995	aal	3396

NOTE Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
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METHOD BLANK REPORT

Parameter	Method	Reporting		Date	Analyst	Run
	Blank	Amount	Limit	Units	Initials	Batch
	Found			Analyzed		Number
Total Kjeldahl Nitrogen	ND	0.1	mg/L	12/04/1995	shr	351
Total Phosphorus, as P	ND	0.02	mg/L	12/05/1995	pbg	371
Oil & Grease (Total)	ND	5	mg/L	12/02/1995	shr	365
Oil & Grease (Non-Polar)	ND	5	mg/L	12/02/1995	shr	347
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	12/04/1995	dat3	3392
Benzene	ND	0.5	ug/L	12/04/1995	dat3	3392
Toluene	ND	0.5	ug/L	12/04/1995	dat3	3392
Ethylbenzene	ND	0.5	ug/L	12/04/1995	dat3	3392
Xylenes (Total)	ND	0.5	ug/L	12/04/1995	dat3	3392
Bromofluorobenzene (SURR)	104		% Rec.	12/04/1995	dat3	3392
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	12/06/1995	aal	3396
Benzene	ND	0.5	ug/L	12/06/1995	aal	3396
Toluene	ND	0.5	ug/L	12/06/1995	aal	3396
Ethylbenzene	ND	0.5	ug/L	12/06/1995	aal	3396
Xylenes (Total)	ND	0.5	ug/L	12/06/1995	aal	3396
Bromofluorobenzene (SURR)	99		% Rec.	12/06/1995	aal	3396

NOTE Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
 Client Acct: 1821
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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike			Spike Amount	Sample Conc.	Matrix Spike			Date Analyzed	Run Batch	Sample Spiked
	Spike % Rec.	Dup. % Rec.	RPD			Spike Conc.	Dup. Conc.	Units			
Total Kjeldahl Nitrogen	91.3	100.1	9.1	2.00	0.17			mg/L	12/04/1995	351	256509
Total Phosphorus, as P	102.5	101.9	0.6	0.500	1.0			mg/L	12/06/1995	371	256790
Oil & Grease (Total)	98.8	95.0	3.9	126.0	ND	124.5	127.9	mg/L	12/02/1995	365	256511
Oil & Grease (Non-Polar)	93.9	90.1	4.1	126.0	ND	118.3	121.3	mg/L	12/02/1995	347	256511
METHOD 5030/8015-M (Shell)											256549
Purgeable TPH	100.0	108.0	7.7	0.50	ND	0.50	0.54	mg/L	12/04/1995	3392	256549
Benzene	93.2	96.6	3.6	8.21	0.7	8.35	8.63	ug/L	12/04/1995	3392	256549
Toluene	91.7	95.7	4.3	27.6	3.3	28.6	29.7	ug/L	12/04/1995	3392	256549
METHOD 5030/8015-M (Shell)											256511
Purgeable TPH	96.0	96.0	0.0	0.5	ND	0.48	0.48	mg/L	12/06/1995	3396	256511
Benzene	100.9	100.3	0.6	5.74	ND	5.79	5.76	ug/L	12/06/1995	3396	256511
Toluene	101.0	100.3	0.7	29.6	ND	29.9	29.7	ug/L	12/06/1995	3396	256511

NOTE Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.04585

Date: 12/14/1995
ELAP Cert: 1386
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Ref: Shell 7915 East 14th Street, Oakland, CA/951128-K2

LABORATORY CONTROL SAMPLE REPORT

Parameter	Duplicate		LCS Amount Found	Duplicate		Units	Date Analyzed	Analyst Initials	Run Batch
	LCS % Recovery	LCS % Recovery		LCS Amount Found	LCS Amount Expected				
Total Phosphorus, as P	102.6		0.513	0.500		mg/L	12/05/1995	pbg	371
Oil & Grease (Total)	98.8		128.6	130.2		mg/L	12/02/1995	shr	365
Oil & Grease (Non-Polar)	93.4		121.6	130.2		mg/L	12/02/1995	shr	347

NOTE Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \text{ [Value 1 - Value 2] / mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

COOLER RECEIPT FORM

Project: 951128-K2 Log No: 0423
Cooler received on: 11/30/95 and checked on 11/30/95 by Tom Greene
(signature)

- Were custody papers present?..... YES NO
- Were custody papers properly filled out?..... YES NO
- Were the custody papers signed?..... YES NO
- Was sufficient ice used?..... YES NO
- Did all bottles arrive in good condition (unbroken)?..... YES NO
- Did bottle labels match COC?..... YES NO
- Were proper bottles used for analysis indicated?..... YES NO
- Correct preservatives used?..... YES NO
- VOA vials checked for headspace bubbles?..... YES NO

Temp 0°, 0°

Note which voas (if any) had bubbles:*

Sample descriptor:

Number of vials:

All VOAs with headspace bubbles have been set aside so they will not be used for analysis.....YES NO

List here all other jobs received in the same cooler:

Client Job #	NET log #

(coolerrec)

BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

LAB Wade Crosby DHS # _____

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- EPA RWQCB REGION _____
 LIA
 OTHER

CHAIN OF CUSTODY
 CLIENT Shell
 SITE 7915 E 14th St. Oakland

CONDUCT ANALYSIS TO DETECT									
C = COMPOSITE ALL CONTAINERS									

SAMPLE ID	MATRIX S = SOIL W = H2O	CONTAINERS		C = COMPOSITE ALL CONTAINERS
		TOTAL	USED	
R1-4				
9511138				
MW1 950	W	6		XXXX
MW2 1040	↓	↓	↓	XXXX
MW3 1000	↓	↓	↓	XXXX
MW4 930	↓	↓	↓	XXXX

SPECIAL INSTRUCTIONS

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			AA68829
			AA68830
			AA68831
			AA68832

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN	
	11/28/95	10:50	Keith Brown	As Contracted	
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>[Signature]</i>	11/28/95	10:50	<i>[Signature]</i>	11/28/95	10:50
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>[Signature]</i>	11/28/95	14:05	G.E. 1436	11-28-95	14:05
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
G.E. 1436	11-28-95	15:15	<i>[Signature]</i>	11/29/95	9:30
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #		

LAB RECEIVING #: 9511.138

REPORT DATE: 12/13/95

REPORTED TO: **BLAINE TECH SERVICES, INC.**
985 TIMOTHY DRIVE
SAN JOSE, CA 95133

ATTN.: **MR. KENT BROWN**

WIC #: NONE
PROJECT #: 951128-K2
PROJECT NAME: SHELL-7915 E 14TH ST., OAKLAND

DATE SAMPLED: 11/28/95
DATE RECEIVED: 11/29/95
OF SAMPLES: 4
SAMPLE MATRIX: LIQUID
SAMPLE ID: MW1
MW2
MW3
MW4

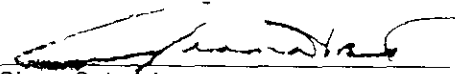
SAMPLE HANDLING & CONTROL STATEMENT

The above mentioned samples were received in appropriate containers accompanied by a fully signed and dated chain-of-custody record. The containers were assigned unique identification numbers and had sufficient amount for the test requested unless otherwise noted in the accompanying laboratory report. There were no site specific quality control requirements made at the time of sample submittal. Samples submitted did not exceed the holding time of the requested test parameters.

QUALITY CONTROL SUMMARY STATEMENT

Laboratory Quality Control parameters and results of instrument calibration standards were all within control limits and the analytical data hereby submitted falls within acceptable limits of accuracy and precision unless otherwise indicated. Please see the attached Quality Control Data for additional information.

SUBMITTED BY:


Girma Selassie
QA/QC Director



The information contained in this cover sheet is an integral part of the attached analytical report

DOHS Lab Certificate # 1552
Expiration Date Awaiting Renewal

A2LA Certificate # 0389 C1
Expiration Date September 30, 1996



Analytical Report

1101 South Richfield Road Placentia, California 92670 • 714-777-1425 • 1-800-3 CROSBY • FAX 714-777-3926

ENVIRONMENTAL • CHEMICAL • MICROBIOLOGICAL • TESTING SERVICES



CLIENT: BLAINE TECH SERVICES, INC.
ATTN.: MR. KENT BROWN

LAB RECEIVING#: **9511.138**

WIC #: NONE
PROJECT #: 951128-K2
PROJECT NAME: SHELL-7915 E 14TH ST., OAKLAND

MATRIX: LIQUID
UNIT: µg/l

Prepared: 11/30/95
Analyzed: 12/7-11/95
Analyst: CM/AR

Spl. Prep. Meth.: EPA 5030/SIMPLE METHOD

LAB ID: AA68829
SAMPLE DESCRIPTION: MW1

Liquid Dilution	Concentration of Hydrocarbon				
	Benzene	Toluene	Ethyl Benzene	p,m-Xylene	o-Xylene
10 ⁻¹	ND	ND	ND	ND	ND
10 ⁻²	ND	ND	ND	ND	ND
10 ⁻³	482	ND	21.7	ND	ND
10 ⁻⁴	490	469	460	832	480
10 ⁻⁵	490	467	462	837	480
10 ⁻⁶	523	507	507	979	516
Control (azide-inhibited)	592	588	617	1142	610
DETECTION LIMIT	0.5	0.5	0.5	0.5	0.5
BTEX-Degrading units/l (estimated)	10 ²	10 ³	10 ³	10 ³	10 ³

NOTES:

ND denotes Not Detected at the indicated detection limit.

This report is preceded by a cover sheet that contains vital information

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ENVIRONMENTAL • CHEMICAL • MICROBIOLOGICAL • TESTING SERVICES



CLIENT: BLAINE TECH SERVICES, INC.
ATTN.: MR. KENT BROWN

LAB RECEIVING#: **9511.138**

WIC #: NONE
PROJECT #: 951128-K2
PROJECT NAME: SHELL-7915 E 14TH ST., OAKLAND
Spl. Prep. Meth.: EPA 5030/SIMPLE METHOD

MATRIX: LIQUID
UNIT: µg/l

Prepared: 11/30/95
Analyzed: 12/7-11/95
Analyst: CM/AR

LAB ID: AA68830
SAMPLE DESCRIPTION: MW2

Liquid Dilution	Concentration of Hydrocarbon				
	Benzene	Toluene	Ethyl Benzene	p,m-Xylene	o-Xylene
10 ⁻¹	437	181	59.9	36.0	12.1
10 ⁻²	266	96.7	1.2	585	426
10 ⁻³	2.3	44.7	ND	1.4	0.8
10 ⁻⁴	473	348	279	55.6	239
10 ⁻⁵	473	440	418	579	428
10 ⁻⁶	585	572	571	1117	587
Control (azide-inhibited)	592	588	617	1142	610
DETECTION LIMIT	0.5	0.5	0.5	0.5	0.5
BTEX-Degrading units/l (estimated)	10 ³	10 ³	10 ³	10 ⁴	10 ³

NOTES:

ND denotes Not Detected at the indicated detection limit.

This report is preceded by a cover sheet that contains vital information

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ENVIRONMENTAL • CHEMICAL • MICROBIOLOGICAL • TESTING SERVICES



CLIENT: BLAINE TECH SERVICES, INC.
ATTN.: MR. KENT BROWN

LAB RECEIVING#: **9511.138**

WIC #: NONE
PROJECT #: 951128-K2
PROJECT NAME: SHELL-7915 E 14TH ST., OAKLAND

MATRIX: LIQUID
UNIT: µg/l

Prepared: 11/30/95
Analyzed: 12/7-11/95
Analyst: CM/AR

Spl. Prep. Meth.: EPA 5030/SIMPLE METHOD

LAB ID: AA68831
SAMPLE DESCRIPTION: MW3

Liquid Dilution	Concentration of Hydrocarbon				
	Benzene	Toluene	Ethyl Benzene	p,m-Xylene	o-Xylene
10 ⁻¹	ND	ND	ND	1.0	ND
10 ⁻²	339	ND	1.4	ND	ND
10 ⁻³	499	1.3	7.7	ND	28.8
10 ⁻⁴	514	477	443	906	517
10 ⁻⁵	496	12.3	461	ND	484
10 ⁻⁶	509	486	486	913	493
Control (azide-inhibited)	592	588	617	1142	610
DETECTION LIMIT	0.5	0.5	0.5	0.5	0.5
BTEX-Degrading units/l (estimated)	10 ¹	10 ²	10 ³	10 ³	10 ³

NOTES:

ND denotes Not Detected at the indicated detection limit.

This report is preceded by a cover sheet that contains vital information

Approved by the State of California, Department of Health Services

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Analytical Report

1101 South Richfield Road Placentia, California 92670 • 714-777-1425 • 1-800-3 CROSBY • FAX 714-777-3926

ENVIRONMENTAL • CHEMICAL • MICROBIOLOGICAL • TESTING SERVICES



CLIENT: BLAINE TECH SERVICES, INC.
ATTN.: MR. KENT BROWN

LAB RECEIVING#: 9511.138

WIC #: NONE
PROJECT #: 951128-K2
PROJECT NAME: SHELL-7915 E 14TH ST., OAKLAND
Spl. Prep. Meth.: EPA 5030/SIMPLE METHOD

MATRIX: LIQUID
UNIT: µg/l

Prepared: 11/30/95
Analyzed: 12/7-11/95
Analyst: CM/AR

LAB ID: AA68832
SAMPLE DESCRIPTION: MW4

Liquid Dilution	Concentration of Hydrocarbon				
	Benzene	Toluene	Ethyl Benzene	p,m-Xylene	o-Xylene
10 ⁻¹	501	0.8	1.4	0.8	616
10 ⁻²	387	ND	0.8	ND	417
10 ⁻³	556	1.1	397	ND	513
10 ⁻⁴	507	486	474	865	498
10 ⁻⁵	508	485	478	874	498
10 ⁻⁶	556	532	531	1014	535
Control (azide-inhibited)	592	588	617	1142	610
DETECTION LIMIT	0.5	0.5	0.5	0.5	0.5
BTEX-Degrading units/l (estimated)	10 ⁰	10 ³	10 ²	10 ³	10 ⁰

NOTES:

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