



April 9, 1996

LOP 3618

Susan Hugo
Alameda County Department of
Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway,
Suite 250
Alameda, CA 94502-6577

Re: **First Quarter 1996**
Shell Service Station
WIC #204-5510-0303
5755 Broadway
Oakland, California 94606
WA Job #81-0619-206

Dear Ms. Hugo:

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

HYDROCARBON AND GROUND WATER REMOVAL SUMMARY		
<i>Fluid</i>	<i>Removed this Quarter</i>	<i>Total Removed</i>
Separate Phase	0.0 (lbs)	0.55 (lbs)
Ground Water with Dissolved Hydrocarbons	8,000 (gals)	283,238 (gals)

First Quarter 1996 Activities:

- Blaine Tech Services, Inc. (BTS) of San Jose, California measured ground water depths and collected ground water samples from the site wells. BTS' report describing these activities and the analytic report for the ground water samples are included as Attachment A.
- WA calculated ground water elevations, compiled the analytic data (Tables 1 through 3) and prepared a ground water elevation contour and benzene concentrations in ground water map (Figure 2).

APR 15 1996
ENVIRONMENTAL PROTECTION

Anticipated Second Quarter 1996 Activities:

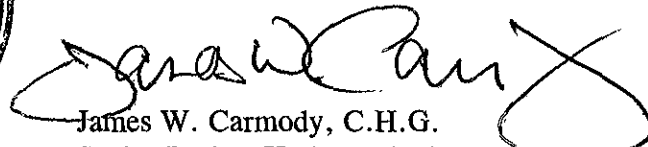
- WA will continue to monitor water levels and arrange dewatering of the tankpit when necessary. Ground water will be pumped from the tank pit and its volume reported.
- WA will submit a report presenting the results of the second quarter 1996 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, ground water elevations and a ground water elevation contour map.

Please call if you have any questions.

Sincerely,
Weiss Associates




Grady S. Glasser
Technical Assistant


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

Attachments: A - Blaine Tech's Ground Water Monitoring Report

cc: R. Jeff Granberry, Shell Oil Products Company, P.O. Box 4023, Concord, California 94524

GSG/JWC:all
1311121306190519021196Q1R.DOC

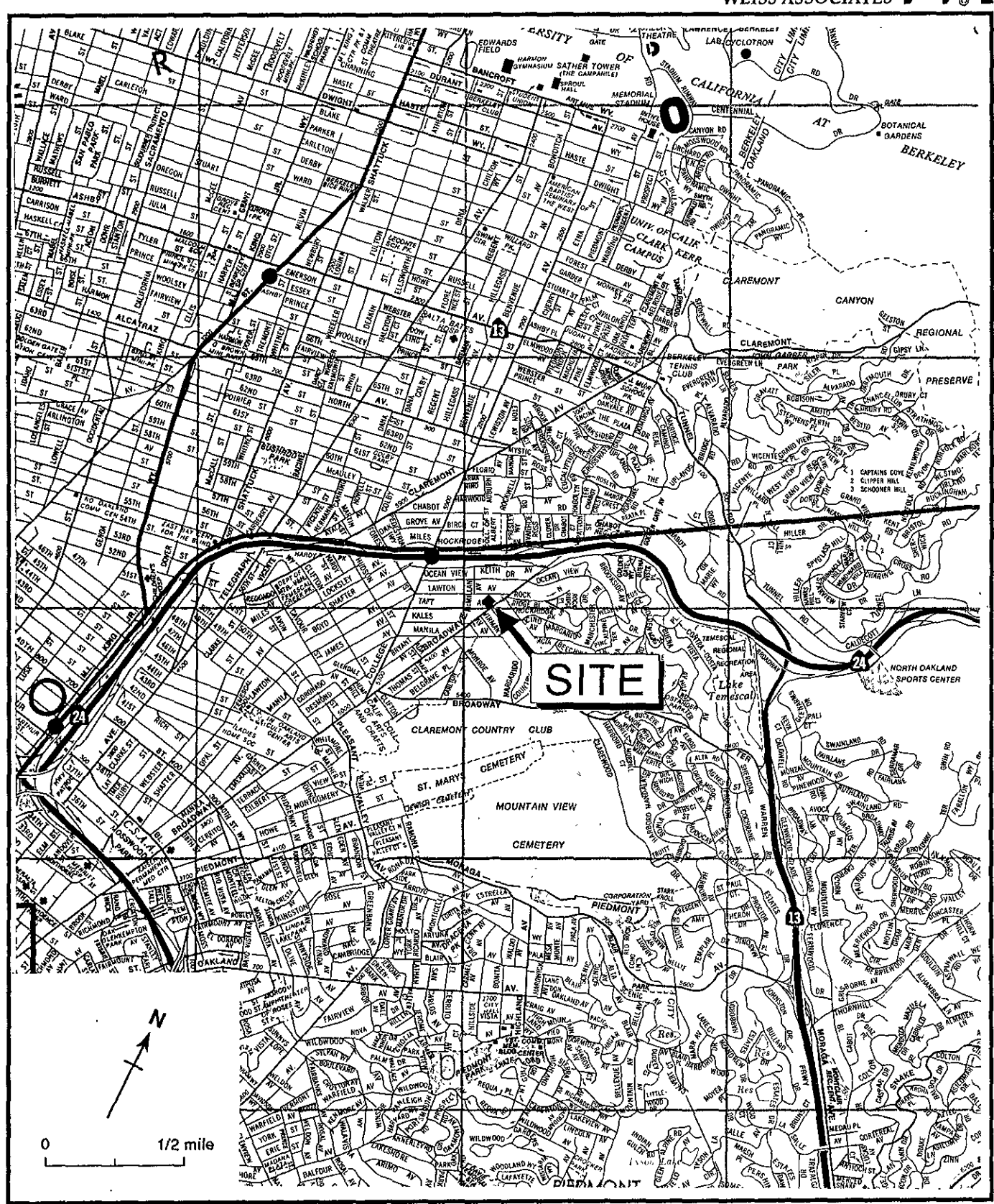


Figure 1. Site Location Map - Shell Service Station WIC #204-5510-0303, 5755 Broadway, Oakland, California

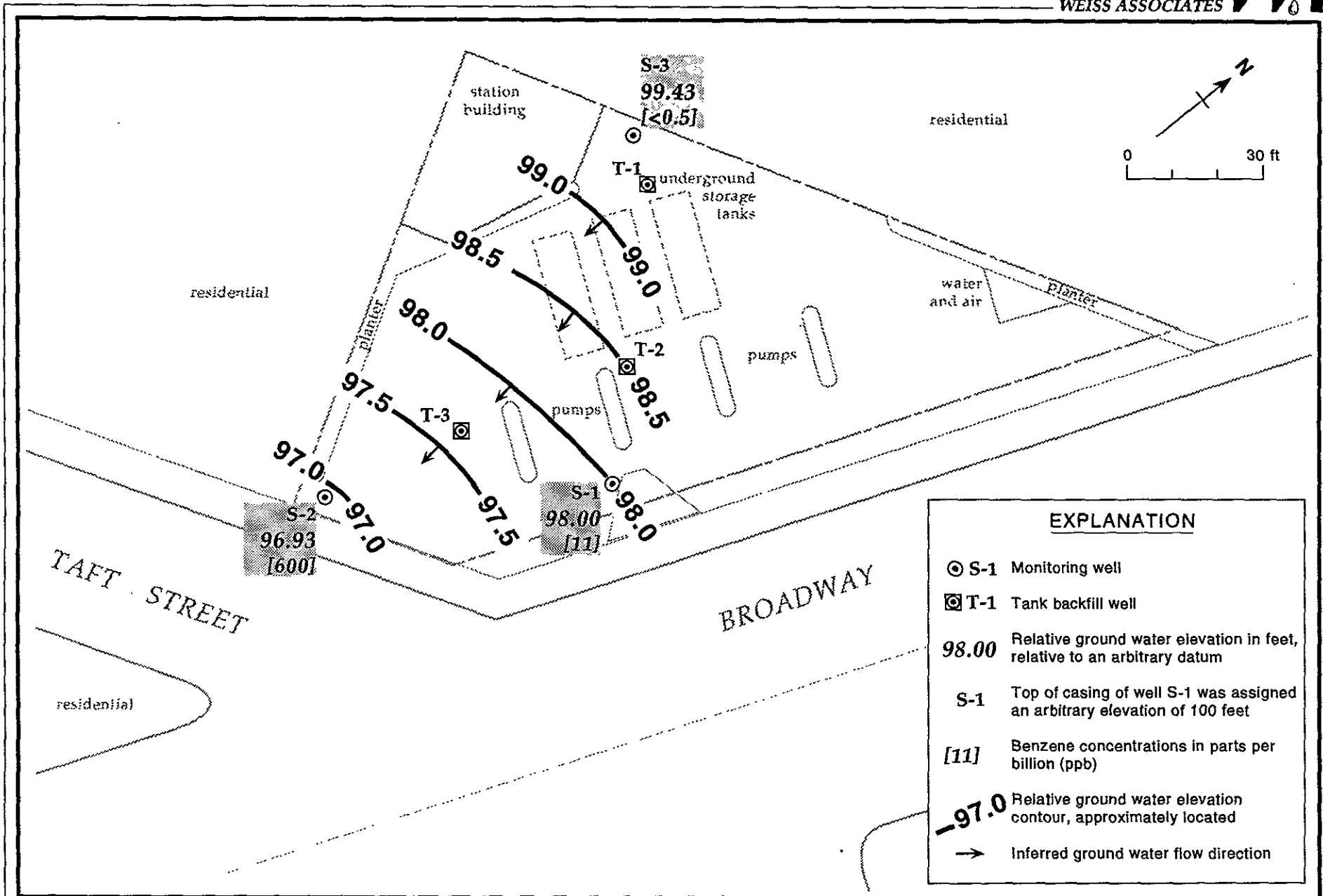


Figure 2. Monitoring Well Locations, Ground Water Elevation Contours, and Benzene Concentrations in Ground Water - February 2, 1996 - Shell Service Station WIC#204-2004-0204, 5755 Broadway, Oakland, California

Table 1. Ground Water Elevations - Shell Service Station WIC #504-5510-0303, 5755 Broadway, Oakland, California

Well ID	Date	Top-of-Casing Elevation*	Depth to Water (ft)	Ground Water Elevation (ft)
S-1	01/25/91	100.00	3.88	96.12
	06/03/91		3.51	96.49
	08/30/91		4.24	95.76
	11/22/91		4.29	95.71
	03/13/92		2.87	97.13
	05/28/92		3.79	96.21
	08/19/92		4.43	95.57
	11/18/92		4.34	95.66
	02/10/93		4.20	95.80
	06/11/93		3.39	96.61
	08/03/93		3.69	96.31
	11/02/93		4.26	95.74
	12/16/93		2.73	97.27
	02/01/94		3.38	96.62
	05/04/94		3.00	97.00
	08/18/94		3.70	96.30
	11/09/94		2.52	97.48
	02/22/95		4.08	95.92
	05/02/95		2.58	97.42
	08/30/95		3.48	96.52
11/28/95	3.99	96.01		
02/02/96	2.00	98.00		
S-2	01/25/91	98.92	4.52	94.40
	06/03/91		4.02	94.90
	08/30/91		4.70	94.22
	11/22/91		4.72	94.20
	03/13/92		3.47	95.45
	05/28/92		4.45	94.45
	08/19/92		4.84	94.08
	11/18/92		4.73	94.19
	02/10/93		4.83	94.09
	06/11/93		3.74	95.18
	08/03/93		4.23	94.69
	11/02/93		4.72	94.20
	12/16/93		3.00	95.92
	02/01/94		3.48	95.44
	05/04/94		3.26	95.66
	08/18/94		3.98	94.94
	11/09/94		3.10	95.82
	02/22/95		4.02	94.90
05/02/95	2.86	96.06		

Table 2. Analytic Results for Ground Water, Shell Service Station, WIC #204-5510-0303, 5755 Broadway, Oakland, California

Sample ID	Date	Depth to Water (ft)	TPH-G	parts per billion (µg/L)			
				B	E	T	X
S-1	01/25/91	3.88	<30	<0.3	<0.3	<0.3	<0.3
	06/03/91	3.51	<30	<0.3	<0.3	<0.3	<0.3
	08/30/91	4.24	<30	<0.3	<0.3	<0.3	<0.3
	11/22/91	4.29	<30	2.3	0.3	<0.46	<0.65
	03/13/92	2.87	<30	<0.52	<0.3	<0.3	<0.3
	05/28/92	3.79	<50	<0.5	<0.5	<0.5	<0.5
	08/19/92	4.43	<50	<0.5	<0.5	<0.5	<0.5
	11/18/92	4.34	<50	<0.5	<0.5	<0.5	<0.5
	02/10/93	4.20	51	1.4	<0.5	<0.5	<0.5
	02/10/93 ^{dup}	4.20	<50	1.2	<0.5	<0.5	<0.5
	06/11/93	3.39	<50	<0.5	<0.5	<0.5	<0.5
	08/03/93	3.69	<50	<0.5	<0.5	<0.5	<0.5
	11/02/93	4.26	70 ^a	<0.5	<0.5	<0.5	<0.5
	02/01/94	3.38	60 ^a	<0.5	<0.5	<0.5	<0.5
	05/04/94	3.00	<50	1.1	<0.5	<0.5	<0.5
	08/18/94	3.70	<50	0.6	<0.5	<0.5	<0.5
	08/18/94 ^{dup}	3.70	60 ^b	0.5	<0.5	<0.5	<0.5
	11/09/94	2.52	<50	4.0	<0.5	<0.5	<0.5
	02/22/95	4.08	50	0.8	<0.5	0.7	1.3
	05/02/95	2.58	<50	<0.5	<0.5	<0.5	<0.5
	08/30/95	3.48	<50	1.7	<0.5	<0.5	<0.5
11/28/95	3.99	<50	<0.5	<0.5	<0.5	<0.5	
02/02/96	2.00	<50	11	0.9	<0.5	<0.5	
S-2	01/25/91	4.52	450	140	6.2	1.8	15
	06/03/91	4.02	490	150	8.2	2.7	7
	08/30/91	4.70	70	0.37	<0.3	<0.3	<0.3
	11/22/91	4.72	1,600	110	29	9.3	150
	03/13/92	3.47	1,300	210	34	5.7	79
	05/28/92	4.45	100	28	<0.5	<0.5	<0.5

Table 2. Analytic Results for Ground Water, Shell Service Station, WIC #204-5510-0303, 5755 Broadway, Oakland, California (continued)

Sample ID	Date	Depth to Water (ft)	TPH-G	B	E	T	X
			←————— parts per billion (µg/L) —————→				
	08/19/92	4.84	470	42	8.3	<0.5	4.0
	11/18/92	4.73	490	43	17	39	29
	02/10/93	4.83	19,000	710	80	760	370
	06/11/93	3.74	33,000	3,100	370	1,600	1,100
	08/03/93	4.23	18,000	1,400	81	130	130
	08/03/93 ^{dup}	4.23	19,000	1,400	86	140	150
	11/02/93	4.72	12,000 ^a	470	31	47	92
	11/02/93 ^{dup}	4.72	13,000 ^a	530	35	47	96
	02/01/94	3.48	31,000 ^a	430	50	46	130
	02/01/94 ^{dup}	3.48	31,000 ^a	300	30	33	100
	05/04/94	3.26	3,900	1,200	53	31	71
	05/04/94 ^{dup}	3.26	4,500	1,200	57	37	110
	08/18/94	3.98	24,000	600	15	8.3	27
	11/09/94	3.10	1,400 ^a	240	13	9.3	20
	11/09/94 ^{dup}	3.10	1,800	260	13	8.5	21
	02/22/95	4.02	29,000	550	12	18	63
	02/22/95 ^{dup}	4.02	28,000	530	10	17	60
	05/02/95	2.86	4,400	1,000	38	25	77
	05/02/95 ^{dup}	2.86	4,400	1,000	41	26	83
	08/30/95	4.06	800	350	6.7	20	16
	08/30/95 ^{dup}	4.06	960	220	12	22	48
	11/28/95	4.48	2,000	230	50	220	230
	11/28/95 ^{dup}	4.48	2,100	240	51	230	230
	02/02/96	2.00	18,000	540	12	18	22
	02/02/96 ^{dup}	2.00	11,000	600	13	18	28
S-3	01/25/91	NA	<30	<0.3	<0.3	<0.3	<0.3
	06/03/91	3.25	<30	<0.3	0.3	0.3	0.3
	08/30/91	4.73	<30	<0.3	<0.3	<0.3	<0.3
	11/22/91	4.81	<30	<0.3	<0.3	<0.3	<0.3



Table 2. Analytic Results for Ground Water, Shell Service Station, WIC #204-5510-0303, 5755 Broadway, Oakland, California (continued)

Sample ID	Date	Depth to Water (ft)	TPH-G	parts per billion (µg/L)			
				B	E	T	X
	03/13/92	2.29	<30	<0.3	0.3	0.3	0.3
	05/28/92	3.62	<50	<0.5	<0.5	<0.5	<0.5
	08/19/92	4.66	<50	<0.5	<0.5	<0.5	0.5
	11/18/92	4.51	<50	<0.5	<0.5	<0.5	<0.5
	02/10/93	4.36	30	1.9	2.4	3.2	5.6
	06/11/93	2.91	<50	<0.5	<0.5	<0.5	<0.5
	06/11/93 ^{dup}	2.91	<50	<0.5	<0.5	<0.5	<0.5
	08/03/93	3.70	<50	<0.5	<0.5	<0.5	<0.5
	11/02/93 ^c	---	---	---	---	---	---
	02/01/94	2.90	<50	<0.5	<0.5	<0.5	<0.5
	05/04/94	2.54	<50	<0.5	<0.5	<0.5	<0.5
	08/18/94	3.51	<50	<0.5	<0.5	<0.5	<0.5
	11/09/94	2.44	<50	<0.5	<0.5	<0.5	<0.5
	02/22/95	4.12	80	<0.5	<0.5	0.5	0.5
	05/02/95	2.83	<50	<0.5	<0.5	<0.5	<0.5
	08/30/95	3.16	<50	0.5	<0.5	<0.5	<0.5
	11/28/95	3.87	<50	<0.5	<0.5	<0.5	<0.5
	02/02/96	2.24	<50	<0.5	<0.5	<0.5	<0.5
Bailer	08/19/92		<50	<0.5	<0.5	<0.5	<0.5
Blank	11/22/91		<50	<0.5	<0.5	<0.5	<0.5
	02/22/95		<50	<0.5	<0.5	<0.5	<0.5
Trip	03/13/92		<50	<0.3	<0.3	<0.3	<0.3
Blank	05/28/92		<50	<0.5	<0.5	<0.5	<0.5
	08/19/92		<50	<0.5	<0.5	<0.5	<0.5
	11/18/92		<50	<0.5	<0.5	<0.5	<0.5
	02/10/93		<50	<0.5	<0.5	<0.5	<0.5
	08/03/93		<50	<0.5	<0.5	<0.5	<0.5
	11/02/93		<50	<0.5	<0.5	<0.5	<0.5

Table 2. Analytic Results for Ground Water, Shell Service Station, WIC #204-5510-0303, 5755 Broadway, Oakland, California (continued)

Sample ID	Date	Depth to Water (ft)	parts per billion (µg/L)				X
			TPH-G	B	E	T	
	02/01/94		<50	<0.5	<0.5	<0.5	<0.5
	05/04/94		<50	<0.5	<0.5	<0.5	<0.5
	11/09/94		<50	<0.5	<0.5	<0.5	<0.5
	02/22/95		<50	<0.5	1.0 ^c	<0.5	<0.5
	05/02/95		<50	<0.5	<0.5	<0.5	<0.5
	08/30/95		<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	680	100 ^d	1,750

Abbreviations:

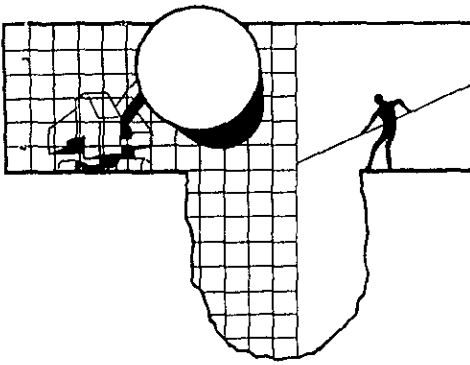
TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
 B = Benzene by EPA Method 8020
 E = Ethylbenzene by EPA Method 8020
 T = Toluene by EPA Method 8020
 X = Xylenes by EPA Method 602 or 8020
 --- = Not analyzed
 DTSC MCLs = California Department of Toxic Substances Control maximum contaminant levels for drinking water
 NA = Not available
 NE = Not established
 <n = Not detected at detection limits of n ppb
 dup = Duplicate sample

Notes:

a = Concentrations reported as gasoline are primarily due to presence of a discrete peak not indicative of gasoline.
 b = This positive result has an atypical pattern for gasoline
 c = Well inaccessible.
 d = DTSC recommended action level for drinking water; MCL not established
 e = Positive result confirmed by secondary column or GC/MS analysis.

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

February 26, 1996

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

Attn: R. Jeff Granberry

Shell WIC #204-5510-0303
5755 Broadway
Oakland, California

1st Quarter 1996

Quarterly Groundwater Monitoring Report 960202-K-3

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,

A handwritten signature in cursive script, appearing to read "Francis Thie".

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)
S-1	2/2/96	TOC	ODOR	NONE	--	--	2.00	11.50
S-2 *	2/2/96	TOC	ODOR	NONE	--	--	1.99	9.43
S-3	2/2/96	TOC	--	NONE	--	--	2.24	9.49
T-1	2/2/96	TOC	--	NONE	--	--	1.51	13.66
T-2	2/2/96	TOC	SHEEN/ODOR	--	--	--	0.74	12.87
T-3	2/2/96	INACCESSIBLE						

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



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: 02/22/1996
NET Client Acct. No: 1821
NET Job No: 96.00443
Received: 02/06/1996

Client Reference Information

Shell 5755 Broadway, Oakland, CA/960202-K3

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: 96.00443

Date: 02/22/1996
ELAP Cert: 1386
Page: 2

Ref: Shell 5755 Broadway, Oakland, CA/960202-K3

SAMPLE DESCRIPTION: S-1
NET SAMPLE NUMBER: 259994

DATE TAKEN: 02/02/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Batch
			Limit				Extracted	Analyzed	
5030/8015-M/8020 (Shell)									
DILUTION FACTOR*	1							02/09/1996	3531
Purgeable TPH	ND		50		ug/L	5030/M8015		02/09/1996	3531
Carbon Range: C6 to C12	--							02/09/1996	3531
8020 (GC, Liquid)									
Benzene	11		0.5		ug/L	8020		02/09/1996	3531
Toluene	ND		0.5		ug/L	8020		02/09/1996	3531
Ethylbenzene	0.9		0.5		ug/L	8020		02/09/1996	3531
Xylenes (Total)	ND		0.5		ug/L	8020		02/09/1996	3531
SURROGATE RESULTS									
Bromofluorobenzene (SURR)	94				% Rec.	8020		02/09/1996	3531

SAMPLE DESCRIPTION: S-2
NET SAMPLE NUMBER: 259995

DATE TAKEN: 02/02/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Batch
			Limit				Extracted	Analyzed	
5030/8015-M/8020 (Shell)									
DILUTION FACTOR*	10							02/07/1996	3525
Purgeable TPH	18,000		500		ug/L	5030/M8015		02/07/1996	3525
Carbon Range: C6 to C12	--							02/07/1996	3525
8020 (GC, Liquid)									
Benzene	540	PF	50		ug/L	8020		02/09/1996	3531
Toluene	18		5		ug/L	8020		02/07/1996	3525
Ethylbenzene	12		5		ug/L	8020		02/07/1996	3525
Xylenes (Total)	22		5		ug/L	8020		02/07/1996	3525
SURROGATE RESULTS									
Bromofluorobenzene (SURR)	86				% Rec.	8020		02/07/1996	3525

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: 96.00443

Date: 02/22/1996
ELAP Cert: 1386
Page: 3

Ref: Shell 5755 Broadway, Oakland, CA/960202-K3

SAMPLE DESCRIPTION: S-3
NET SAMPLE NUMBER: 259996

DATE TAKEN: 02/02/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Batch No.
			Limit				Extracted	Analyzed	
5030/8015-M/8020 (Shell)									
DILUTION FACTOR*	1						02/07/1996		3525
Purgeable TPH	ND		50		ug/L	5030/M8015	02/07/1996		3525
Carbon Range: C6 to C12	--						02/07/1996		3525
8020 (GC, Liquid)									
Benzene	ND		0.5		ug/L	8020	02/07/1996		3525
Toluene	ND		0.5		ug/L	8020	02/07/1996		3525
Ethylbenzene	ND		0.5		ug/L	8020	02/07/1996		3525
Xylenes (Total)	ND		0.5		ug/L	8020	02/07/1996		3525
SURROGATE RESULTS									
Bromofluorobenzene (SURR)	81				% Rec.	8020	02/07/1996		3525

SAMPLE DESCRIPTION: DUP
NET SAMPLE NUMBER: 259997

DATE TAKEN: 02/02/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Batch No.
			Limit				Extracted	Analyzed	
5030/8015-M/8020 (Shell)									
DILUTION FACTOR*	10						02/20/1996		3546
Purgeable TPH	11,000	FE	2,000		ug/L	5030/M8015	02/09/1996		3531
Carbon Range: C6 to C12	--						02/09/1996		3531
8020 (GC, Liquid)									
Benzene	600	FE	20		ug/L	8020	02/09/1996		3531
Toluene	18		5		ug/L	8020	02/20/1996		3546
Ethylbenzene	13		5		ug/L	8020	02/20/1996		3546
Xylenes (Total)	28		5		ug/L	8020	02/20/1996		3546
SURROGATE RESULTS									
Bromofluorobenzene (SURR)	89				% Rec.	8020	02/09/1996		3531

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

Client Name: Elaine Tech Services
Client Acct: 1821
NET Job No: 96.00443

Date: 02/22/1996
ELAP Cert: 1386
Page: 4

Ref: Shell 5755 Broadway, Oakland, CA/960202-K3

SAMPLE DESCRIPTION: EB
NET SAMPLE NUMBER: 259998

DATE TAKEN: 02/02/1996
TIME TAKEN:

<u>Parameter</u>	<u>Results</u>	<u>Flags</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Method</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Batch No.</u>
5030/8015-M/8020 (Shell)								
DILUTION FACTOR*	1						02/09/1996	3531
Purgeable TPH	ND		50	ug/L	5030/M8015		02/09/1996	3531
Carbon Range: C6 to C12	--						02/09/1996	3531
8020 (GC, Liquid)	--						02/09/1996	3531
Benzene	ND		0.5	ug/L	8020		02/09/1996	3531
Toluene	ND		0.5	ug/L	8020		02/09/1996	3531
Ethylbenzene	ND		0.5	ug/L	8020		02/09/1996	3531
Xylenes (Total)	ND		0.5	ug/L	8020		02/09/1996	3531
SURROGATE RESULTS	--						02/09/1996	3531
Bromofluorobenzene (SURR)	97			% Rec.	8020		02/09/1996	3531

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: 96.00443

Date: 02/22/1996
 ELAP Cert: 1386
 Page: 5

Ref: Shell 5755 Broadway, Oakland, CA/960202-K3

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found					
5030/8015-M/8020 (Shell)							
Purgeable TPH	106.0	0.53	0.50	mg/L	02/07/1996	aal	3525
Benzene	104.6	5.23	5.00	ug/L	02/07/1996	aal	3525
Toluene	109.8	5.49	5.00	ug/L	02/07/1996	aal	3525
Ethylbenzene	107.0	5.35	5.00	ug/L	02/07/1996	aal	3525
Xylenes (Total)	107.3	16.1	15.0	ug/L	02/07/1996	aal	3525
Bromofluorobenzene (SURR)	101.0	101	100	% Rec.	02/07/1996	aal	3525
5030/8015-M/8020 (Shell)							
Purgeable TPH	90.0	0.45	0.50	mg/L	02/09/1996	dld	3531
Benzene	99.2	4.96	5.00	ug/L	02/09/1996	dld	3531
Toluene	95.2	4.76	5.00	ug/L	02/09/1996	dld	3531
Ethylbenzene	100.4	5.02	5.00	ug/L	02/09/1996	dld	3531
Xylenes (Total)	100.0	15.0	15.0	ug/L	02/09/1996	dld	3531
Bromofluorobenzene (SURR)	97.0	97	100	% Rec.	02/09/1996	dld	3531
5030/8015-M/8020 (Shell)							
Purgeable TPH	96.0	0.48	0.50	mg/L	02/20/1996	aal	3546
Benzene	95.8	4.79	5.00	ug/L	02/20/1996	aal	3546
Toluene	93.8	4.69	5.00	ug/L	02/20/1996	aal	3546
Ethylbenzene	94.4	4.72	5.00	ug/L	02/20/1996	aal	3546
Xylenes (Total)	96.0	14.4	15.0	ug/L	02/20/1996	aal	3546
Bromofluorobenzene (SURR)	106.0	106	100	% Rec.	02/20/1996	aal	3546

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: 96.00443

Date: 02/22/1996
ELAP Cert: 1386
Page: 6

Ref: Shell 5755 Broadway, Oakland, CA/960202-K3

METHOD BLANK REPORT

Parameter	Method	Reporting	Flags	Units	Date	Analyst	Run
	Blank						
5030/8015-M/8020 (Shell)							
Purgeable TPH	ND	0.05		mg/L	02/07/1996	aal	3525
Benzene	ND	0.5		ug/L	02/07/1996	aal	3525
Toluene	ND	0.5		ug/L	02/07/1996	aal	3525
Ethylbenzene	ND	0.5		ug/L	02/07/1996	aal	3525
Xylenes (Total)	ND	0.5		ug/L	02/07/1996	aal	3525
Bromofluorobenzene (SURR)	95			% Rec.	02/07/1996	aal	3525
5030/8015-M/8020 (Shell)							
Purgeable TPH	ND	0.05		mg/L	02/09/1996	dld	3531
Benzene	ND	0.5		ug/L	02/09/1996	dld	3531
Toluene	ND	0.5		ug/L	02/09/1996	dld	3531
Ethylbenzene	ND	0.5		ug/L	02/09/1996	dld	3531
Xylenes (Total)	ND	0.5		ug/L	02/09/1996	dld	3531
Bromofluorobenzene (SURR)	97			% Rec.	02/09/1996	dld	3531
5030/8015-M/8020 (Shell)							
Purgeable TPH	ND	0.05		mg/L	02/20/1996	aal	3546
Benzene	ND	0.5		ug/L	02/20/1996	aal	3546
Toluene	ND	0.5		ug/L	02/20/1996	aal	3546
Ethylbenzene	ND	0.5		ug/L	02/20/1996	aal	3546
Xylenes (Total)	ND	0.5		ug/L	02/20/1996	aal	3546
Bromofluorobenzene (SURR)	103			% Rec.	02/20/1996	aal	3546

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: 96.00443

Date: 02/22/1996
 ELAP Cert: 1386
 Page: 7

Ref: Shell 5755 Broadway, Oakland, CA/960202-K3

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike		Matrix Spike		Matrix Spike		Matrix Spike		Flags	Units	Date Analyzed	Run Batch	Sample Spiked
	% Rec.	% Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Matrix Spike Dup. Conc.					
5030/8015-M/8020 (Shell)													259988
Purgeable TPH	100.0	90.0	10.4	0.5	0.48	0.98	0.93			mg/L	02/07/1996	3525	259988
Benzene	95.8	84.1	13.0	5.46	2.2	7.43	6.79			ug/L	02/07/1996	3525	259988
Toluene	95.6	88.6	7.6	29.7	2.4	30.8	28.7			ug/L	02/07/1996	3525	259988
Bromofluorobenzene (SURR)	102.0	99.0	2.9	100	104	102	99			% Rec.	02/07/1996	3525	259988
5030/8015-M/8020 Shell+MTBE													26009
Purgeable TPH	94.0	50.0	61.1	0.50	1.6	2.07	1.85			mg/L	02/09/1996	3531	26009
Benzene										ug/L	02/09/1996	3531	26009
Toluene	107.8	110.7	2.7	24.3	2.3	28.5	29.2			ug/L	02/09/1996	3531	26009
Bromofluorobenzene (SURR)	127.0	126.0	0.8	100	118	127	126	MI		% Rec.	02/09/1996	3531	26009
5030/8015-M/8020 (Shell)													26
Purgeable TPH	98.0	90.0	8.5	0.5	0.07	0.56	0.52			mg/L	02/20/1996	3546	26035
Benzene	97.6	96.9	0.7	7.37	0.6	7.79	7.74			ug/L	02/20/1996	3546	26035
Toluene	100.8	99.6	1.1	25.3	ND	25.5	25.2			ug/L	02/20/1996	3546	26035
Bromofluorobenzene (SURR)	118.0	116.0	1.7	100.0	114	118	116			% Rec.	02/20/1996	3546	26035

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

4090



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 960202-K3

Date: 2/2/96

Page 1 of 1

Site Address: 5755 Broadway, Oakland

WIC#: 204-5510-0303

Shell Engineer: R. Jeff Granberry
Phone No.: (510) 675-6168
Fax #: 675-6160

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

Consultant Contact: Fran Thie
Phone No.: (408) 995-5535 ext 201
Fax #: 293-8773

Comments:

Sampled by: KCB

Printed Name: Keir Brown

Analysis Required

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	Asbestos	Container Size	Preparation Used	Composite Y/N

LAB: Net

CHECK ONE (1) BOX ONLY	CT/DI	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/> 6441		24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/> 6443		48 hours <input type="checkbox"/>
Soil Classfy/Dkposal <input type="checkbox"/> 6442		16 days <input checked="" type="checkbox"/> (Normal)
Water Classfy/Dkposal <input type="checkbox"/> 6443		Other <input type="checkbox"/>
Soil/Air Rem. of Sys. O & M <input type="checkbox"/> 6452		
Water Rem. of Sys. O & M <input type="checkbox"/> 6453		
Other <input type="checkbox"/>		

NOTE: Holby Lab as soon as possible of 24/48 hrs. TAT.

Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.	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	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS	
S-1	2/2			X		3						X							
S-2												X							
S-3												X							
DUP												X							
EB												X							

CUSTODY SEALED
Date: 2/5/96 Time: 1600 Initials: OS
SEAL INTACT?
Yes No Initials: OS

Relinquished by (signature): <u>[Signature]</u>	Printed Name: <u>Keir Brown</u>	Date: <u>2/5/96</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>P. Smart</u>	Date: <u>2/5/96</u>
Relinquished by (signature): <u>[Signature]</u>	Printed Name: <u>P. Smart</u>	Date: <u>2/5/96</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>PAM GREENE</u>	Date: <u>2/6/96</u>
Relinquished by (signature):	Printed Name:	Date:	Received (signature):	Printed Name:	Date:

COOLER RECEIPT FORM

Project: 960202-K3 Log No: 0190
Cooler received on: 2/16/96 and checked on 2/16/96 by Tom Greene
(signature) [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 Temp 0°
- 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

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)



KEY TO RESULT FLAGS

* : RPD between sample duplicates exceeds 30%.
*M : RPD between sample duplicates or MS/MSD exceeds 20%.
+ : Correlation coefficient for the Method of Standard Additions is less than 0.995.
< : Sample result is less than reported value.
B-I : Value is between Method Detection Limit and Reporting Limit.
B-0 : Analyte found in blank and sample.
C : The result confirmed by secondary column or GC/MS analysis.
CNA : Cr+6 not analyzed; Total Chromium concentration below Cr+6 regulatory level.
COMP : Sample composited by equal volume prior to analysis.
D- : The result has an atypical pattern for Diesel analysis.
D1 : The result for Diesel is an unknown hydrocarbon which consists of a single peak.
DH : The result appears to be a heavier hydrocarbon than Diesel.
DL : The result appears to be a lighter hydrocarbon than Diesel.
DR : Elevated Reporting Limit due to Matrix.
DS : Surrogate diluted out of range.
DX : The result for Diesel is an unknown hydrocarbon which consists of several peaks.
FA : Compound quantitated at a 2X dilution factor.
FB : Compound quantitated at a 5X dilution factor.
FC : Compound quantitated at a 10X dilution factor.
FD : Compound quantitated at a 20X dilution factor.
FE : Compound quantitated at a 50X dilution factor.
FF : Compound quantitated at a 100X dilution factor.
FG : Compound quantitated at a 200X dilution factor.
FH : Compound quantitated at a 500X dilution factor.
FI : Compound quantitated at a 1000X dilution factor.
FJ : Compound quantitated at a greater than 1000x dilution factor.
FK : Compound quantitated at a 25X dilution factor.
FL : Compound quantitated at a 250X dilution factor.
G- : The result has an atypical pattern for Gasoline.
G1 : The result for Gasoline is an unknown hydrocarbon which consists of a single peak.
GH : The result appears to be a heavier hydrocarbon than Gasoline.
GL : The result appears to be a lighter hydrocarbon than Gasoline.
GX : The result for Gasoline is an unknown hydrocarbon which consists of several peaks.
HX : Peaks detected within the quantitation range do not match standard used.
J : Value is estimated.
MI : Matrix Interference Suspected.
MSA : Value determined by Method of Standard Additions.
MSA* : Value obtained by Method of Standard Additions; Correlation coefficient is <0.995.
NI1 : Sample spikes outside of QC limits; matrix interference suspected.
NI2 : Sample concentration is greater than 4X the spiked value; the spiked value is considered insignificant.
NI3 : Matrix Spike values exceed established QC limits, post digestion spike is in control.
P7 : pH of sample > 2; sample analyzed past 7 days.
RSC : Refer to subcontract laboratory report for QC data.
S2 : Matrix interference confirmed by repeat analysis.
SCN : Thiocyanate not analyzed separately; total value is below the Reporting Limit for Free Cyanide.
UMDL : Undetected at the Method Detection Limit.

KEY TO ABBREVIATIONS

ICVS	: Initial Calibration Verification Standard (External Standard).
mean	: Average; sum of measurements divided by number of measurements.
mg/Kg	: Concentration in units of milligrams of analyte per kilogram of sample.
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.
NTU	: Nephelometric turbidity units.
RPD	: Relative percent difference.
SNA	: Standard not available.
ug/Kg	: Concentration in units of micrograms of analyte per kilogram of sample.
ug/L	: Concentration in units of micrograms of analyte per liter of sample.
umhos/cm	: Micromhos per centimeter.