



Weiss Associates

5500 Shellmound Street, Emeryville, CA 94604

Environmental and Geologic Services

Fax: 510-547-5043 Phone: 510-450-6000

ALCO
PRZMAT
94 JAN 18 PM 2:42

January 13, 1994

Larry Olund
6023 College Avenue
Oakland, California 94618

Re: Analytical Data
Shell Service Station
6039 College Avenue
Oakland, California
81-618-07

Dear Mr. Olund:

Enclosed please find the analytical results for ground water and soil for boreholes BH-B, BH-C, BH-D that were drilled on your property. We have also included tabulated data and a site map showing the location of each borehole.

As you requested, on December 13, 1993 we re-rolled the areas around the three boreholes using a vibratory roller. Please call me at (510) 450-6108 if I can be of further assistance.

Sincerely,
Weiss Associates

David C. Elias
Staff Geologist

DCE/DHU:dhu
J:\HC_ENG\SHELL\OAK-618\618L1JA4.WP

cc: Gerard Glass, Attorney at Law, 201 D/A Financial Building, Three Altarinda Road,
Orinda, California 94563
Dan Kirk, Shell Oil Company, P.O. Box 5278, Concord, California 95450
Scott Seery, ACDEH, 80 Swan Way, Room 200, Oakland, California 94621

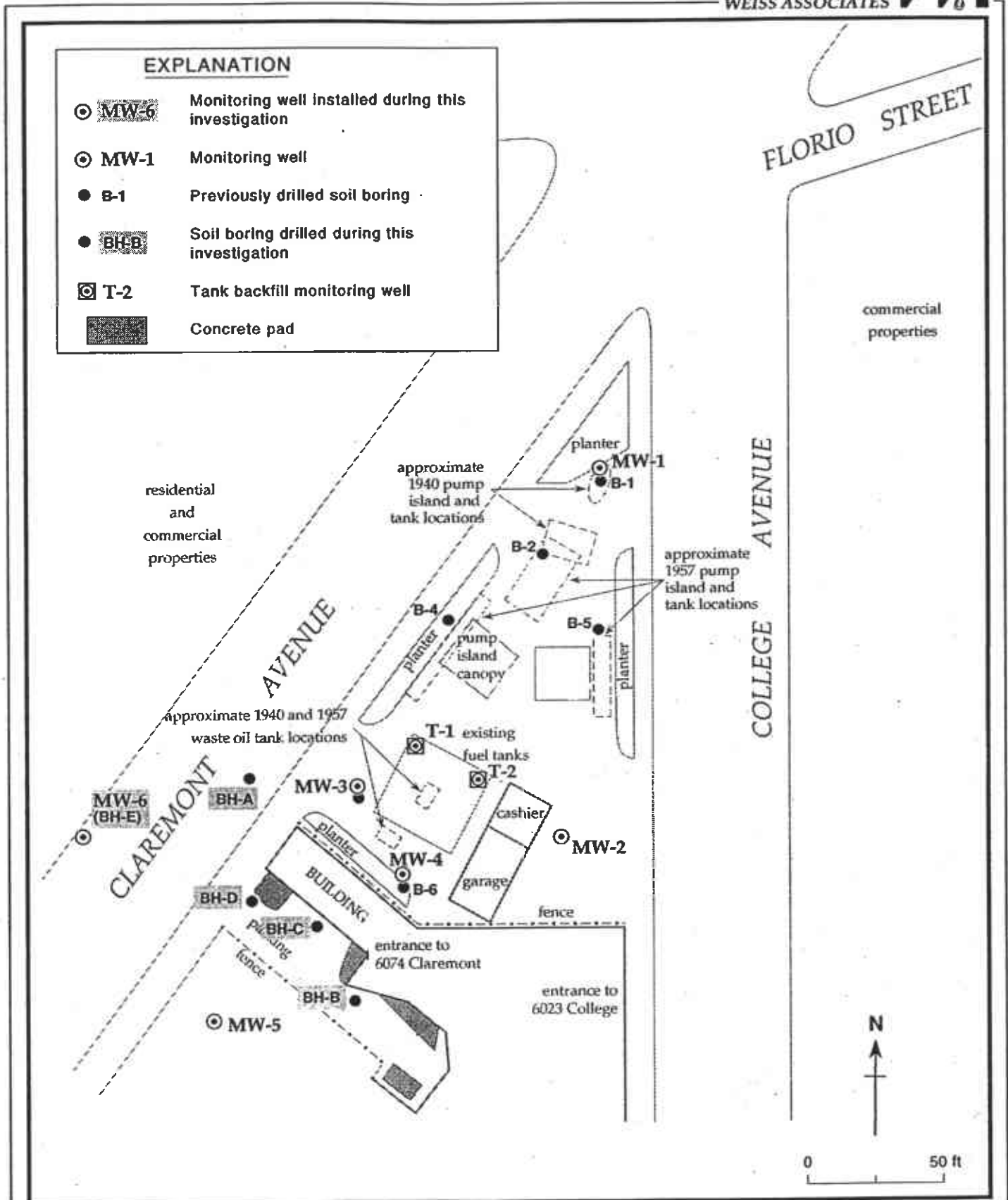


Figure 2. Monitoring Well and Soil Boring Locations - Shell Service Station WIC #204-5510-0303, 6039 College Avenue, Oakland, California

Table 1. Analytic Results for Soil - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California

Boring ID	Sample Depth	Approx. Ground Water Depth	Date Sampled	TPH-G	TPH-D	POG	B	E	T	X	HVOCs
				←-----parts per million (mg/L)-----→							
BH-B	11.0	15	09/09/93	<1	---	---	<0.0025	<0.0025	<0.0025	<0.0025	---
	15.7		09/09/93	<1	<1	<50	<0.0025	<0.0025	<0.0025	<0.0025	ND
BH-C	10.7	16	09/10/93	<1	---	---	<0.0025	<0.0025	<0.0025	<0.0025	---
	15.7		09/10/93	580 ^a	4,900 ^d	930	<0.125	<0.125	<0.125	<0.125	ND
	20.7		09/10/93	<1	---	---	<0.0025	<0.0025	<0.0025	<0.0025	---
BH-D	10.7	15	09/10/93	6.8 ^a	8.9 ^b	<50	<0.0025	<0.0025	<0.0025	<0.0025	ND
	15.7		09/10/93	150	59 ^c	69	0.42	<0.025	<0.025	<0.025	ND
	20.7		09/10/93	5.6	2.9 ^e	<50	<0.0025	0.011	0.0073	<0.0025	ND

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
 TPH-D = Total petroleum hydrocarbons as diesel by Modified EPA Method 8015
 POG = Petroleum oil and grease by EPA Method 5520F
 HVOCs = Halogenated volatile organic compounds by EPA Method 8270
 B = Benzene by EPA Method 8020
 E = Ethylbenzene by EPA Method 8020
 T = Toluene by EPA Method 8020
 X = Xylenes by EPA Method 8020
 --- = Not analyzed or measured
 <n = Not detected at detection limits of n ppm
 ND = No compounds detected

Notes:

a = Positive result for TPH-G has an atypical pattern for gasoline
 b = Positive result appears to be a lighter hydrocarbon than diesel
 c = 1.6 ppm diethylphthalate and 0.37 ppm dimethyl phthalate detected
 d = Positive result appears to be a heavier hydrocarbon than diesel
 e = Positive result for TPH-D has an atypical pattern for diesel

f = ???

Table 3. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California (continued)

Well/Boring ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	TPH-MO	POG	B	E	T	X	HVOCs
BH-B	09/09/93	15.85	<50	150	---	<5,000	<0.5	<0.5	<0.5	<0.5	ND
BH-C ^f	09/10/93	15.80	640 ^j	100	---	<5,000	3.5	0.6	<0.5	<0.5	ND
BH-D ^f	09/10/93	14.2	24,000 ^j	25,000 ^c	---	20,000	720	44	86	11	k

SEE next pg.

-- Table 3 continues on next page --



Table 3. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California (continued)

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
TPH-D = Total petroleum hydrocarbons as diesel by Modified EPA Method 8015
TPH-MO = Total petroleum hydrocarbons as motor oil by 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 8020
POG = Petroleum Oil & Grease by EPA Method 5520B/F
NE = Not established
DTSC MCLs = California Department of Toxic Substances Control maximum contaminant levels for drinking water
--- = Not analyzed or measured
<n = Not detected at detection limits of n ppb
ND = Not detected
FHC = Floating hydrocarbons in well, not sampled
dup = Duplicate sample

Notes:

c = Concentration reported as diesel is primarily due to the presence of a lighter petroleum product, possibly gasoline
i = Due to chain of custody mis-communication analyses run after holding time expiration
j = The positive result for TPH-G has an atypical pattern for gasoline
k = 75 ppb 2-methylnaphthalene and 18 ppb naphthalene detected



Client Acct: 1809
Client Name: Weiss Associates
NET Job No: 93.03974

Date: 09/22/1993
ELAP Certificate: 1386
Page: 16

Ref: SHELL, 6039 College Ave., Oakland, Job No. 81-618-07

SAMPLE DESCRIPTION: BH-B

Date Taken: 09/09/1993

Time Taken:

NET Sample No: 173337

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Oil & Grease (Total)	ND		5	mg/L	5520B		09/14/1993
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						09/15/1993
DILUTION FACTOR*	1						09/15/1993
as Gasoline	ND		0.05	mg/L	5030		09/15/1993
METHOD 8020 (GC,Liquid)	--						09/15/1993
Benzene	ND		0.0005	mg/L	8020		09/15/1993
Toluene	ND		0.0005	mg/L	8020		09/15/1993
Ethylbenzene	ND		0.0005	mg/L	8020		09/15/1993
Xylenes (Total)	ND		0.0005	mg/L	8020		09/15/1993
SURROGATE RESULTS	--						09/15/1993
Bromofluorobenzene (SURR)	87			% Rec.	5030		09/15/1993
METHOD 3510/M8015						09/14/1993	
DILUTION FACTOR*	1						09/16/1993
as Diesel	0.15		0.05	mg/L	3510		09/16/1993



Client Acct: 1809
Client Name: Weiss Associates
NET Job No: 93.03974

Date: 09/22/1993
ELAP Certificate: 1386
Page: 17

Ref: SHELL, 6039 College Ave., Oakland, Job No. 81-618-07

SAMPLE DESCRIPTION: BH-B

Date Taken: 09/09/1993

Time Taken:

NET Sample No: 173337

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
METHOD 8270 (GCMS, Liquid)						09/15/1993	
DILUTION FACTOR*	1						09/16/1993
Acenaphthene	ND		0.010	mg/L	8270		09/16/1993
Acenaphthylene	ND		0.010	mg/L	8270		09/16/1993
Aldrin	ND		0.050	mg/L	8270		09/16/1993
Anthracene	ND		0.010	mg/L	8270		09/16/1993
Benzidine	ND		0.044	mg/L	8270		09/16/1993
Benzo (a) anthracene	ND		0.010	mg/L	8270		09/16/1993
Benzo (b) fluoranthene	ND		0.010	mg/L	8270		09/16/1993
Benzo (k) fluoranthene	ND		0.010	mg/L	8270		09/16/1993
Benzo (a) pyrene	ND		0.010	mg/L	8270		09/16/1993
Benzo (g, h, i) perylene	ND		0.010	mg/L	8270		09/16/1993
Benzoic acid	ND		0.050	mg/L	8270		09/16/1993
Benzyl alcohol	ND		0.010	mg/L	8270		09/16/1993
Butyl benzyl phthalate	ND		0.010	mg/L	8270		09/16/1993
delta-BHC	ND		0.050	mg/L	8270		09/16/1993
gamma-BHC	ND		0.050	mg/L	8270		09/16/1993
bis (2-Chloroethyl) ether	ND		0.010	mg/L	8270		09/16/1993
bis (2-Chloroethoxy) methane	ND		0.010	mg/L	8270		09/16/1993
bis (2-Chloroisopropyl) ether	ND		0.010	mg/L	8270		09/16/1993
bis (2-Ethylhexyl) phthalate	ND		0.010	mg/L	8270		09/16/1993
4-Bromophenyl phenyl ether	ND		0.010	mg/L	8270		09/16/1993
4-Chloroaniline	ND		0.010	mg/L	8270		09/16/1993
2-Chloronaphthalene	ND		0.010	mg/L	8270		09/16/1993
4-Chlorophenyl phenyl ether	ND		0.010	mg/L	8270		09/16/1993
Chrysene	ND		0.010	mg/L	8270		09/16/1993
4,4'-DDD	ND		0.050	mg/L	8270		09/16/1993
4,4'-DDE	ND		0.050	mg/L	8270		09/16/1993
4,4'-DDT	ND		0.050	mg/L	8270		09/16/1993
Dibenzo (a, h) anthracene	ND		0.010	mg/L	8270		09/16/1993
Dibenzofuran	ND		0.010	mg/L	8270		09/16/1993
Di-n-butylphthalate	ND		0.010	mg/L	8270		09/16/1993
1,2-Dichlorobenzene	ND		0.010	mg/L	8270		09/16/1993
1,3-Dichlorobenzene	ND		0.010	mg/L	8270		09/16/1993
1,4-Dichlorobenzene	ND		0.010	mg/L	8270		09/16/1993
3,3'-Dichlorobenzidine	ND		0.020	mg/L	8270		09/16/1993
Dieldrin	ND		0.050	mg/L	8270		09/16/1993
Diethylphthalate	ND		0.010	mg/L	8270		09/16/1993
Dimethyl phthalate	ND		0.010	mg/L	8270		09/16/1993
2,4-Dinitrotoluene	ND		0.010	mg/L	8270		09/16/1993
2,6-Dinitrotoluene	ND		0.010	mg/L	8270		09/16/1993
Di-n-octyl phthalate	ND		0.010	mg/L	8270		09/16/1993
Endrin aldehyde	ND		0.050	mg/L	8270		09/16/1993
Fluoranthene	ND		0.010	mg/L	8270		09/16/1993
Fluorene	ND		0.010	mg/L	8270		09/16/1993



Client Acct: 1809
 Client Name: Weiss Associates
 NET Job No: 93.03974

Date: 09/22/1993
 ELAP Certificate: 1386
 Page: 18

Ref: SHELL, 6039 College Ave., Oakland, Job No. 81-618-07

SAMPLE DESCRIPTION: BH-B
 Date Taken: 09/09/1993
 Time Taken:
 NET Sample No: 173337

Parameter	Results	Flags	Reporting			Date	
			Limit	Units	Method	Extracted	Analyzed
Heptachlor	ND		0.050	mg/L	8270		09/16/1993
Heptachlor epoxide	ND		0.050	mg/L	8270		09/16/1993
Hexachlorobenzene	ND		0.010	mg/L	8270		09/16/1993
Hexachlorobutadiene	ND		0.010	mg/L	8270		09/16/1993
Hexachlorocyclopentadiene	ND		0.010	mg/L	8270		09/16/1993
Hexachloroethane	ND		0.010	mg/L	8270		09/16/1993
Indeno(1,2,3-cd)pyrene	ND		0.010	mg/L	8270		09/16/1993
Isophorone	ND		0.010	mg/L	8270		09/16/1993
2-Methylnaphthalene	ND		0.010	mg/L	8270		09/16/1993
Naphthalene	ND		0.010	mg/L	8270		09/16/1993
2-Nitroaniline	ND		0.050	mg/L	8270		09/16/1993
3-Nitroaniline	ND		0.050	mg/L	8270		09/16/1993
4-Nitroaniline	ND		0.050	mg/L	8270		09/16/1993
Nitrobenzene	ND		0.010	mg/L	8270		09/16/1993
N-Nitroso-Di-N-propylamine	ND		0.010	mg/L	8270		09/16/1993
N-Nitrosodiphenylamine	ND		0.010	mg/L	8270		09/16/1993
Phenanthrene	ND		0.010	mg/L	8270		09/16/1993
Pyrene	ND		0.010	mg/L	8270		09/16/1993
1,2,4-Trichlorobenzene	ND		0.010	mg/L	8270		09/16/1993
ACID EXTRACTABLES	--						09/16/1993
4-Chloro-3-methylphenol	ND		0.010	mg/L	8270		09/16/1993
2-Chlorophenol	ND		0.010	mg/L	8270		09/16/1993
2,4-Dichlorophenol	ND		0.010	mg/L	8270		09/16/1993
2,4-Dimethylphenol	ND		0.010	mg/L	8270		09/16/1993
2,4-Dinitrophenol	ND		0.050	mg/L	8270		09/16/1993
4,6-Dinitro-2-methylphenol	ND		0.050	mg/L	8270		09/16/1993
2-Nitrophenol	ND		0.010	mg/L	8270		09/16/1993
4-Nitrophenol	ND		0.050	mg/L	8270		09/16/1993
Pentachlorophenol	ND		0.050	mg/L	8270		09/16/1993
Phenol	ND		0.010	mg/L	8270		09/16/1993
2,4,6-Trichlorophenol	ND		0.010	mg/L	8270		09/16/1993
2-Methylphenol	ND		0.010	mg/L	8270		09/16/1993
4-Methylphenol	ND		0.010	mg/L	8270		09/16/1993
2,4,5-Trichlorophenol	ND		0.050	mg/L	8270		09/16/1993
SURROGATE RESULTS	--						09/16/1993
Nitrobenzene-d5 (SURR)	79			µ Rec.	8270		09/16/1993
2-Fluorobiphenyl (SURR)	79			µ Rec.	8270		09/16/1993
p-Terphenyl-d14 (SURR)	68			µ Rec.	8270		09/16/1993
Phenol-d5 (SURR)	38			µ Rec.	8270		09/16/1993
2-Fluorophenol (SURR)	55			µ Rec.	8270		09/16/1993
2,4,6-Tribromophenol (SURR)	74			µ Rec.	8270		09/16/1993



Client Acct: 1809
Client Name: Weiss Associates
NET Job No: 93.03974

Date: 09/22/1993
ELAP Certificate: 1386
Page: 9

Ref: SHELL, 6039 College Ave., Oakland, Job No. 81-618-07

SAMPLE DESCRIPTION: BH-B-11.0
Date Taken: 09/09/1993
Time Taken:
NET Sample No: 173332

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
TPH (Gas/BTXE,Solid)	--						09/15/1993
METHOD 5030/M8015	--						09/15/1993
DILUTION FACTOR*	1						09/15/1993
as Gasoline	ND		1	mg/kg	5030		09/15/1993
METHOD 8020 (GC,Solid)	--						09/15/1993
Benzene	ND		0.0025	mg/kg	8020		09/15/1993
Toluene	ND		0.0025	mg/kg	8020		09/15/1993
Ethylbenzene	ND		0.0025	mg/kg	8020		09/15/1993
Xylenes (Total)	ND		0.0025	mg/kg	8020		09/15/1993
SURROGATE RESULTS	--						09/15/1993
Bromofluorobenzene (SURR)	101			% Rec.	5030		09/15/1993



Client Acct: 1809
 Client Name: Weiss Associates
 NET Job No: 93.03974

Date: 09/22/1993
 ELAP Certificate: 1386
 Page: 10

Ref: SHELL, 6039 College Ave., Oakland; Job No. 81-618-07

SAMPLE DESCRIPTION: BH-B-15.7
 Date Taken: 09/09/1993
 Time Taken:
 NET Sample No: 173333

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Oil & Grease (Total)	ND		50	mg/kg	5520E		09/16/1993
TPH (Gas/BTEXE,Solid)							
METHOD 5030/M8015	--						09/15/1993
DILUTION FACTOR*	1						09/15/1993
as Gasoline	ND		1	mg/kg	5030		09/15/1993
METHOD 8020 (GC,Solid)	--						09/15/1993
Benzene	ND		0.0025	mg/kg	8020		09/15/1993
Toluene	ND		0.0025	mg/kg	8020		09/15/1993
Ethylbenzene	ND		0.0025	mg/kg	8020		09/15/1993
Xylenes (Total)	ND		0.0025	mg/kg	8020		09/15/1993
SURROGATE RESULTS	--						09/15/1993
Bromofluorobenzene (SURR)	92			µ Rec.	5030		09/15/1993
METHOD 3550/M8015						09/16/1993	
DILUTION FACTOR*	1						09/16/1993
as Diesel	ND		1	mg/kg	3550		09/16/1993



Client Acct: 1809
Client Name: Weiss Associates
NET Job No: 93.03974

Date: 09/22/1993
ELAP Certificate: 1386
Page: 11

Ref: SHELL, 6039 College Ave., Oakland, Job No. 81-618-07

SAMPLE DESCRIPTION: BH-B-15.7
Date Taken: 09/09/1993
Time Taken:
NET Sample No: 173333

Parameter	Results	Flags	Reporting			Date	Date
			Limit	Units	Method	Extracted	Analyzed
METHOD 8270 (GCMS,Solid)						09/15/1993	
DILUTION FACTOR*	1						09/16/1993
Acenaphthene	ND		0.33	mg/kg	8270		09/16/1993
Acenaphthylene	ND		0.33	mg/kg	8270		09/16/1993
Aldrin	ND		1.6	mg/kg	8270		09/16/1993
Anthracene	ND		0.33	mg/kg	8270		09/16/1993
Benzidine	ND		1.6	mg/kg	8270		09/16/1993
Benzo(a)anthracene	ND		0.33	mg/kg	8270		09/16/1993
Benzo(b)fluoranthene	ND		0.33	mg/kg	8270		09/16/1993
Benzo(k)fluoranthene	ND		0.33	mg/kg	8270		09/16/1993
Benzo(a)pyrene	ND		0.33	mg/kg	8270		09/16/1993
Benzo(g,h,i)perylene	ND		0.33	mg/kg	8270		09/16/1993
Benzoic acid	ND		1.6	mg/kg	8270		09/16/1993
Benzyl alcohol	ND		0.33	mg/kg	8270		09/16/1993
Butyl benzyl phthalate	ND		0.33	mg/kg	8270		09/16/1993
delta-BHC	ND		1.6	mg/kg	8270		09/16/1993
gamma-BHC	ND		1.6	mg/kg	8270		09/16/1993
bis(2-Chloroethyl)ether	ND		0.33	mg/kg	8270		09/16/1993
bis(2-Chloroethoxy)methane	ND		0.33	mg/kg	8270		09/16/1993
bis(2-Chloroisopropyl)ether	ND		0.33	mg/kg	8270		09/16/1993
bis(2-Ethylhexyl)phthalate	ND		0.33	mg/kg	8270		09/16/1993
4-Bromophenyl phenyl ether	ND		0.33	mg/kg	8270		09/16/1993
4-Chloroaniline	ND		0.33	mg/kg	8270		09/16/1993
2-Chloronaphthalene	ND		0.33	mg/kg	8270		09/16/1993
4-Chlorophenyl phenyl ether	ND		0.33	mg/kg	8270		09/16/1993
Chrysene	ND		0.33	mg/kg	8270		09/16/1993
4,4'-DDD	ND		1.6	mg/kg	8270		09/16/1993
4,4'-DDE	ND		1.6	mg/kg	8270		09/16/1993
4,4'-DDT	ND		1.6	mg/kg	8270		09/16/1993
Dibenzo(a,h)anthracene	ND		0.33	mg/kg	8270		09/16/1993
Dibenzofuran	ND		0.33	mg/kg	8270		09/16/1993
Di-n-butylphthalate	ND		0.33	mg/kg	8270		09/16/1993
1,2-Dichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
1,3-Dichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
1,4-Dichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
3,3'-Dichlorobenzidine	ND		0.66	mg/kg	8270		09/16/1993
Dieldrin	ND		1.6	mg/kg	8270		09/16/1993
Diethylphthalate	ND		0.33	mg/kg	8270		09/16/1993
Dimethyl phthalate	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dinitrotoluene	ND		0.33	mg/kg	8270		09/16/1993
2,6-Dinitrotoluene	ND		0.33	mg/kg	8270		09/16/1993
Di-n-octyl phthalate	ND		0.33	mg/kg	8270		09/16/1993
Endrin aldehyde	ND		1.6	mg/kg	8270		09/16/1993
Fluoranthene	ND		0.33	mg/kg	8270		09/16/1993
Fluorene	ND		0.33	mg/kg	8270		09/16/1993



Client Acct: 1809
Client Name: Weiss Associates
NET Job No: 93.03974

Date: 09/22/1993
ELAP Certificate: 1386
Page: 12

Ref: SHELL, 6039 College Ave., Oakland, Job No. 81-618-07

SAMPLE DESCRIPTION: BH-B-15.7
Date Taken: 09/09/1993
Time Taken:
NET Sample No: 173333

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Heptachlor	ND		1.6	mg/kg	8270		09/16/1993
Heptachlor epoxide	ND		1.6	mg/kg	8270		09/16/1993
Hexachlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
Hexachlorobutadiene	ND		0.33	mg/kg	8270		09/16/1993
Hexachlorocyclopentadiene	ND		0.33	mg/kg	8270		09/16/1993
Hexachloroethane	ND		0.33	mg/kg	8270		09/16/1993
Indeno (1,2,3-cd)pyrene	ND		0.33	mg/kg	8270		09/16/1993
Isophorone	ND		0.33	mg/kg	8270		09/16/1993
2-Methylnaphthalene	ND		0.33	mg/kg	8270		09/16/1993
Naphthalene	ND		0.33	mg/kg	8270		09/16/1993
2-Nitroaniline	ND		1.6	mg/kg	8270		09/16/1993
3-Nitroaniline	ND		1.6	mg/kg	8270		09/16/1993
4-Nitroaniline	ND		1.6	mg/kg	8270		09/16/1993
Nitrobenzene	ND		0.33	mg/kg	8270		09/16/1993
N-Nitroso-Di-N-propylamine	ND		0.33	mg/kg	8270		09/16/1993
N-Nitrosodiphenylamine	ND		0.33	mg/kg	8270		09/16/1993
Phenanthrene	ND		0.33	mg/kg	8270		09/16/1993
Pyrene	ND		0.33	mg/kg	8270		09/16/1993
1,2,4-Trichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
ACID EXTRACTABLES	--						09/16/1993
4-Chloro-3-methylphenol	ND		0.33	mg/kg	8270		09/16/1993
2-Chlorophenol	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dichlorophenol	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dimethylphenol	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dinitrophenol	ND		1.6	mg/kg	8270		09/16/1993
4,6-Dinitro-2-methylphenol	ND		1.6	mg/kg	8270		09/16/1993
2-Nitrophenol	ND		0.33	mg/kg	8270		09/16/1993
4-Nitrophenol	ND		1.6	mg/kg	8270		09/16/1993
Pentachlorophenol	ND		1.6	mg/kg	8270		09/16/1993
Phenol	ND		0.33	mg/kg	8270		09/16/1993
2,4,6-Trichlorophenol	ND		0.33	mg/kg	8270		09/16/1993
2-Methylphenol	ND		0.33	mg/kg	8270		09/16/1993
4-Methylphenol	ND		0.33	mg/kg	8270		09/16/1993
2,4,5-Trichlorophenol	ND		1.6	mg/kg	8270		09/16/1993
SURROGATE RESULTS	--						09/16/1993
Nitrobenzene-d5 (SURR)	61			% Rec.	8270		09/16/1993
2-Fluorobiphenyl (SURR)	59			% Rec.	8270		09/16/1993
p-Terphenyl-d14 (SURR)	80			% Rec.	8270		09/16/1993
Phenol-d5 (SURR)	76			% Rec.	8270		09/16/1993
2-Fluorophenol (SURR)	67			% Rec.	8270		09/16/1993
2,4,6-Tribromophenol (SURR)	80			% Rec.	8270		09/16/1993



Client Acct: 1809
Client Name: Weiss Associates
NET Job No: 93.04764

Date: 11/05/1993
ELAP Certificate: 1386
Page: 2

Ref: SHELL 6039 College Ave., Oakland, WA Job:81-618-07

SAMPLE DESCRIPTION: BH-C

Date Taken: 09/10/1993

Time Taken:

NET Sample No: 177280

Parameter	Results	Flags	Reporting			Date	Date
			Limit	Units	Method	Extracted	Analyzed
Oil & Grease (Total)	ND		5	mg/L	5520B		10/29/1993
Oil & Grease (Non-Polar)	ND		5	mg/L	5520B/F		10/29/1993
TPH (Gas/BTEX, Liquid)							
METHOD 5030/M8015	--						10/29/1993
DILUTION FACTOR*	1						10/29/1993
as Gasoline	0.64	G-	0.05	mg/L	5030		10/29/1993
METHOD 8020 (GC, Liquid)	--						10/29/1993
Benzene	0.0035	C	0.0005	mg/L	8020		10/29/1993
Toluene	ND		0.0005	mg/L	8020		10/29/1993
Ethylbenzene	0.0006	C	0.0005	mg/L	8020		10/29/1993
Xylenes (Total)	ND		0.0005	mg/L	8020		10/29/1993
SURROGATE RESULTS							
Bromofluorobenzene (SURR)	117			% Rec.	5030		10/29/1993
METHOD 3510/M8015							
DILUTION FACTOR*	1					10/28/1993	10/30/1993
as Diesel	0.1		0.05	mg/L	3510		10/30/1993

C : Positive result confirmed by secondary column or GC/MS analysis.

G- : The positive result has an atypical pattern for Gasoline analysis.



Client Acct: 1809
Client Name: Weiss Associates
NET Job No: 93.04764

Date: 11/05/1993
ELAP Certificate: 1386
Page: 3

Ref: SHELL 6039 College Ave., Oakland, WA Job:81-618-07

SAMPLE DESCRIPTION: BH-C

Date Taken: 09/10/1993

Time Taken:

NET Sample No: 177280

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
METHOD 8270 (GCMS, Liquid)						10/30/1993	
DILUTION FACTOR*	1						11/01/1993
Acenaphthene	ND		0.010	mg/L	8270		11/01/1993
Acenaphthylene	ND		0.010	mg/L	8270		11/01/1993
Aldrin	ND		0.050	mg/L	8270		11/01/1993
Anthracene	ND		0.010	mg/L	8270		11/01/1993
Benzidine	ND		0.044	mg/L	8270		11/01/1993
Benzo(a)anthracene	ND		0.010	mg/L	8270		11/01/1993
Benzo(b)fluoranthene	ND		0.010	mg/L	8270		11/01/1993
Benzo(k)fluoranthene	ND		0.010	mg/L	8270		11/01/1993
Benzo(a)pyrene	ND		0.010	mg/L	8270		11/01/1993
Benzo(g,h,i)perylene	ND		0.010	mg/L	8270		11/01/1993
Benzoic acid	ND		0.050	mg/L	8270		11/01/1993
Benzyl alcohol	ND		0.010	mg/L	8270		11/01/1993
Butyl benzyl phthalate	ND		0.010	mg/L	8270		11/01/1993
delta-BHC	ND		0.050	mg/L	8270		11/01/1993
gamma-BHC	ND		0.050	mg/L	8270		11/01/1993
bis(2-Chloroethyl)ether	ND		0.010	mg/L	8270		11/01/1993
bis(2-Chloroethoxy)methane	ND		0.010	mg/L	8270		11/01/1993
bis(2-Chloroisopropyl)ether	ND		0.010	mg/L	8270		11/01/1993
bis(2-Ethylhexyl)phthalate	ND		0.010	mg/L	8270		11/01/1993
4-Bromophenyl phenyl ether	ND		0.010	mg/L	8270		11/01/1993
4-Chloroaniline	ND		0.010	mg/L	8270		11/01/1993
2-Chloronaphthalene	ND		0.010	mg/L	8270		11/01/1993
4-Chlorophenyl phenyl ether	ND		0.010	mg/L	8270		11/01/1993
Chrysene	ND		0.010	mg/L	8270		11/01/1993
4,4'-DDD	ND		0.050	mg/L	8270		11/01/1993
4,4'-DDE	ND		0.050	mg/L	8270		11/01/1993
4,4'-DDT	ND		0.050	mg/L	8270		11/01/1993
Dibenzo(a,h)anthracene	ND		0.010	mg/L	8270		11/01/1993
Dibenzofuran	ND		0.010	mg/L	8270		11/01/1993
Di-n-butylphthalate	ND		0.010	mg/L	8270		11/01/1993
1,2-Dichlorobenzene	ND		0.010	mg/L	8270		11/01/1993
1,3-Dichlorobenzene	ND		0.010	mg/L	8270		11/01/1993
1,4-Dichlorobenzene	ND		0.010	mg/L	8270		11/01/1993
3,3'-Dichlorobenzidine	ND		0.020	mg/L	8270		11/01/1993
Dieldrin	ND		0.050	mg/L	8270		11/01/1993
Diethylphthalate	ND		0.010	mg/L	8270		11/01/1993
Dimethyl phthalate	ND		0.010	mg/L	8270		11/01/1993
2,4-Dinitrotoluene	ND		0.010	mg/L	8270		11/01/1993
2,6-Dinitrotoluene	ND		0.010	mg/L	8270		11/01/1993
Di-n-octyl phthalate	ND		0.010	mg/L	8270		11/01/1993
Endrin aldehyde	ND		0.050	mg/L	8270		11/01/1993
Fluoranthene	ND		0.010	mg/L	8270		11/01/1993
Fluorene	ND		0.010	mg/L	8270		11/01/1993



Client Acct: 1809
Client Name: Weiss Associates
NET Job No: 93.04764

Date: 11/05/1993
ELAP Certificate: 1386
Page: 4

Ref: SHELL 6039 College Ave., Oakland, WA Job:81-618-07

SAMPLE DESCRIPTION: BH-C

Date Taken: 09/10/1993

Time Taken:

NET Sample No: 177280

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Heptachlor	ND		0.050	mg/L	8270		11/01/1993
Heptachlor epoxide	ND		0.050	mg/L	8270		11/01/1993
Hexachlorobenzene	ND		0.010	mg/L	8270		11/01/1993
Hexachlorobutadiene	ND		0.010	mg/L	8270		11/01/1993
Hexachlorocyclopentadiene	ND		0.010	mg/L	8270		11/01/1993
Hexachloroethane	ND		0.010	mg/L	8270		11/01/1993
Indeno(1,2,3-cd)pyrene	ND		0.010	mg/L	8270		11/01/1993
Isophorone	ND		0.010	mg/L	8270		11/01/1993
2-Methylnaphthalene	ND		0.010	mg/L	8270		11/01/1993
Naphthalene	ND		0.010	mg/L	8270		11/01/1993
2-Nitroaniline	ND		0.050	mg/L	8270		11/01/1993
3-Nitroaniline	ND		0.050	mg/L	8270		11/01/1993
4-Nitroaniline	ND		0.050	mg/L	8270		11/01/1993
Nitrobenzene	ND		0.010	mg/L	8270		11/01/1993
N-Nitroso-Di-N-propylamine	ND		0.010	mg/L	8270		11/01/1993
N-Nitrosodiphenylamine	ND		0.010	mg/L	8270		11/01/1993
Phenanthrene	ND		0.010	mg/L	8270		11/01/1993
Pyrene	ND		0.010	mg/L	8270		11/01/1993
1,2,4-Trichlorobenzene	ND		0.010	mg/L	8270		11/01/1993
ACID EXTRACTABLES	--						
4-Chloro-3-methylphenol	ND		0.010	mg/L	8270		11/01/1993
2-Chlorophenol	ND		0.010	mg/L	8270		11/01/1993
2,4-Dichlorophenol	ND		0.010	mg/L	8270		11/01/1993
2,4-Dimethylphenol	ND		0.010	mg/L	8270		11/01/1993
2,4-Dinitrophenol	ND		0.050	mg/L	8270		11/01/1993
4,6-Dinitro-2-methylphenol	ND		0.050	mg/L	8270		11/01/1993
2-Nitrophenol	ND		0.010	mg/L	8270		11/01/1993
4-Nitrophenol	ND		0.050	mg/L	8270		11/01/1993
Pentachlorophenol	ND		0.050	mg/L	8270		11/01/1993
Phenol	ND		0.010	mg/L	8270		11/01/1993
2,4,6-Trichlorophenol	ND		0.010	mg/L	8270		11/01/1993
2-Methylphenol	ND		0.010	mg/L	8270		11/01/1993
4-Methylphenol	ND		0.010	mg/L	8270		11/01/1993
2,4,5-Trichlorophenol	ND		0.050	mg/L	8270		11/01/1993
SURROGATE RESULTS	--						
Nitrobenzene-d5 (SURR)	67			‡ Rec.	8270		11/01/1993
2-Fluorobiphenyl (SURR)	63			‡ Rec.	8270		11/01/1993
p-Terphenyl-d14 (SURR)	60			‡ Rec.	8270		11/01/1993
Phenol-d5 (SURR)	12			‡ Rec.	8270		11/01/1993
2-Fluorophenol (SURR)	16			‡ Rec.	8270		11/01/1993
2,4,6-Tribromophenol (SURR)	34			‡ Rec.	8270		11/01/1993



Client Acct: 1809
Client Name: Weiss Associates
NET Job No: 93.04010

Date: 09/22/1993
ELAP Certificate: 1386
Page: 3

Ref: SHELL, 6039 College Ave., Oakland, WA Job No: 81-618-07

SAMPLE DESCRIPTION: BH-C-10.7
Date Taken: 09/10/1993
Time Taken:
NET Sample No: 173538

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
TPH (Gas/BTEX,Solid)							09/15/1993
METHOD 5030/M8015	--						09/15/1993
DILUTION FACTOR*	1						09/15/1993
as Gasoline	ND		1	mg/kg	5030		09/15/1993
METHOD 8020 (GC,Solid)	--						09/15/1993
Benzene	ND		0.0025	mg/kg	8020		09/15/1993
Toluene	ND		0.0025	mg/kg	8020		09/15/1993
Ethylbenzene	ND		0.0025	mg/kg	8020		09/15/1993
Xylenes (Total)	ND		0.0025	mg/kg	8020		09/15/1993
SURROGATE RESULTS	--						09/15/1993
Bromofluorobenzene (SURR)	85			µ Rec.	5030		09/15/1993



Client Acct: 1809
Client Name: Weiss Associates
NET Job No: 93.04010

Date: 09/22/1993
ELAP Certificate: 1386
Page: 4

Ref: SHELL, 6039 College Ave., Oakland, WA Job No: 81-618-07

SAMPLE DESCRIPTION: BH-C-20.7
Date Taken: 09/10/1993
Time Taken:
NET Sample No: 173539

Parameter	Results	Flags	Reporting			Date	Date
			Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						09/15/1993
DILUTION FACTOR*	1						09/15/1993
as Gasoline	ND		1	mg/kg	5030		09/15/1993
METHOD 8020 (GC,Solid)	--						09/15/1993
Benzene	ND		0.0025	mg/kg	8020		09/15/1993
Toluene	ND		0.0025	mg/kg	8020		09/15/1993
Ethylbenzene	ND		0.0025	mg/kg	8020		09/15/1993
Xylenes (Total)	ND		0.0025	mg/kg	8020		09/15/1993
SURROGATE RESULTS	--						09/15/1993
Bromofluorobenzene (SURR)	88			% Rec.	5030		09/15/1993



Client Acct: 1809
 Client Name: Weiss Associates
 NET Job No: 93.04010

Date: 09/22/1993
 ELAP Certificate: 1386
 Page: 8

Ref: SHELL, 6039 College Ave., Oakland, WA Job No: 81-618-07

SAMPLE DESCRIPTION: BH-C-15.7
 Date Taken: 09/10/1993
 Time Taken:
 NET Sample No: 173541

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Oil & Grease (Total)	1,200		50	mg/kg	5520E		09/16/1993
Oil & Grease (Non-Polar)	930		50	mg/kg	5520E/F		09/16/1993
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						09/18/1993
DILUTION FACTOR*	50						09/18/1993
as Gasoline	580	G-	50	mg/kg	5030		09/18/1993
METHOD 8020 (GC,Solid)							
Benzene	ND		0.125	mg/kg	8020		09/18/1993
Toluene	ND		0.125	mg/kg	8020		09/18/1993
Ethylbenzene	ND		0.125	mg/kg	8020		09/18/1993
Xylenes (Total)	ND		0.125	mg/kg	8020		09/18/1993
SURROGATE RESULTS							
Bromofluorobenzene (SURR)	167	MI		‡ Rec.	5030		09/18/1993
METHOD 3550/M8015							
DILUTION FACTOR*	100						09/16/1993
as Diesel	4,900	DH	100	mg/kg	3550		09/16/1993

DH : The positive result appears to be a heavier hydrocarbon than Diesel.
 G- : The positive result has an atypical pattern for Gasoline analysis.
 MI : Matrix Interference



Client Acct: 1809
 Client Name: Weiss Associates
 NET Job No: 93.04010

Date: 09/22/1993
 ELAP Certificate: 1386
 Page: 9

Ref: SHELL, 6039 College Ave., Oakland, WA Job No: 81-618-07

SAMPLE DESCRIPTION: BH-C-15.7
 Date Taken: 09/10/1993
 Time Taken:
 NET Sample No: 173541

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
METHOD 8270 (GCMS, Solid)						09/15/1993	
DILUTION FACTOR*	1						09/16/1993
Acenaphthene	ND		0.33	mg/kg	8270		09/16/1993
Acenaphthylene	ND		0.33	mg/kg	8270		09/16/1993
Aldrin	ND		1.6	mg/kg	8270		09/16/1993
Anthracene	ND		0.33	mg/kg	8270		09/16/1993
Benzidine	ND		1.6	mg/kg	8270		09/16/1993
Benzo(a)anthracene	ND		0.33	mg/kg	8270		09/16/1993
Benzo(b)fluoranthene	ND		0.33	mg/kg	8270		09/16/1993
Benzo(k)fluoranthene	ND		0.33	mg/kg	8270		09/16/1993
Benzo(a)pyrene	ND		0.33	mg/kg	8270		09/16/1993
Benzo(g,h,i)perylene	ND		0.33	mg/kg	8270		09/16/1993
Benzoic acid	ND		1.6	mg/kg	8270		09/16/1993
Benzyl alcohol	ND		0.33	mg/kg	8270		09/16/1993
Butyl benzyl phthalate	ND		0.33	mg/kg	8270		09/16/1993
delta-BHC	ND		1.6	mg/kg	8270		09/16/1993
gamma-BHC	ND		1.6	mg/kg	8270		09/16/1993
bis(2-Chloroethyl)ether	ND		0.33	mg/kg	8270		09/16/1993
bis(2-Chloroethoxy)methane	ND		0.33	mg/kg	8270		09/16/1993
bis(2-Chloroisopropyl)ether	ND		0.33	mg/kg	8270		09/16/1993
bis(2-Ethylhexyl)phthalate	ND		0.33	mg/kg	8270		09/16/1993
4-Bromophenyl phenyl ether	ND		0.33	mg/kg	8270		09/16/1993
4-Chloroaniline	ND		0.33	mg/kg	8270		09/16/1993
2-Chloronaphthalene	ND		0.33	mg/kg	8270		09/16/1993
4-Chlorophenyl phenyl ether	ND		0.33	mg/kg	8270		09/16/1993
Chrysene	ND		0.33	mg/kg	8270		09/16/1993
4,4'-DDD	ND		1.6	mg/kg	8270		09/16/1993
4,4'-DDE	ND		1.6	mg/kg	8270		09/16/1993
4,4'-DDT	ND		1.6	mg/kg	8270		09/16/1993
Dibenzo(a,h)anthracene	ND		0.33	mg/kg	8270		09/16/1993
Dibenzofuran	ND		0.33	mg/kg	8270		09/16/1993
Di-n-butylphthalate	ND		0.33	mg/kg	8270		09/16/1993
1,2-Dichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
1,3-Dichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
1,4-Dichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
3,3'-Dichlorobenzidine	ND		0.66	mg/kg	8270		09/16/1993
Dieldrin	ND		1.6	mg/kg	8270		09/16/1993
Diethylphthalate	ND		0.33	mg/kg	8270		09/16/1993
Dimethyl phthalate	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dinitrotoluene	ND		0.33	mg/kg	8270		09/16/1993
2,6-Dinitrotoluene	ND		0.33	mg/kg	8270		09/16/1993
Di-n-octyl phthalate	ND		0.33	mg/kg	8270		09/16/1993
Endrin aldehyde	ND		1.6	mg/kg	8270		09/16/1993
Fluoranthene	ND		0.33	mg/kg	8270		09/16/1993
Fluorene	ND		0.33	mg/kg	8270		09/16/1993



Client Acct: 1809
Client Name: Weiss Associates
NET Job No: 93.04010

Date: 09/22/1993
ELAP Certificate: 1386
Page: 10

Ref: SHELL, 6039 College Ave., Oakland, WA Job No: 81-618-07

SAMPLE DESCRIPTION: BH-C-15.7
Date Taken: 09/10/1993
Time Taken:
NET Sample No: 173541

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Heptachlor	ND		1.6	mg/kg	8270		09/16/1993
Heptachlor epoxide	ND		1.6	mg/kg	8270		09/16/1993
Hexachlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
Hexachlorobutadiene	ND		0.33	mg/kg	8270		09/16/1993
Hexachlorocyclopentadiene	ND		0.33	mg/kg	8270		09/16/1993
Hexachloroethane	ND		0.33	mg/kg	8270		09/16/1993
Indeno(1,2,3-cd)pyrene	ND		0.33	mg/kg	8270		09/16/1993
Isophorone	ND		0.33	mg/kg	8270		09/16/1993
2-Methylnaphthalene	ND		0.33	mg/kg	8270		09/16/1993
Naphthalene	ND		0.33	mg/kg	8270		09/16/1993
2-Nitroaniline	ND		1.6	mg/kg	8270		09/16/1993
3-Nitroaniline	ND		1.6	mg/kg	8270		09/16/1993
4-Nitroaniline	ND		1.6	mg/kg	8270		09/16/1993
Nitrobenzene	ND		0.33	mg/kg	8270		09/16/1993
N-Nitroso-Di-N-propylamine	ND		0.33	mg/kg	8270		09/16/1993
N-Nitrosodiphenylamine	ND		0.33	mg/kg	8270		09/16/1993
Phenanthrene	ND		0.33	mg/kg	8270		09/16/1993
Pyrene	ND		0.33	mg/kg	8270		09/16/1993
1,2,4-Trichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
ACID EXTRACTABLES	--						09/16/1993
4-Chloro-3-methylphenol	ND		0.33	mg/kg	8270		09/16/1993
2-Chlorophenol	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dichlorophenol	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dimethylphenol	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dinitrophenol	ND		1.6	mg/kg	8270		09/16/1993
4,6-Dinitro-2-methylphenol	ND		1.6	mg/kg	8270		09/16/1993
2-Nitrophenol	ND		0.33	mg/kg	8270		09/16/1993
4-Nitrophenol	ND		1.6	mg/kg	8270		09/16/1993
Pentachlorophenol	ND		1.6	mg/kg	8270		09/16/1993
Phenol	ND		0.33	mg/kg	8270		09/16/1993
2,4,6-Trichlorophenol	ND		0.33	mg/kg	8270		09/16/1993
2-Methylphenol	ND		0.33	mg/kg	8270		09/16/1993
4-Methylphenol	ND		0.33	mg/kg	8270		09/16/1993
2,4,5-Trichlorophenol	ND		1.6	mg/kg	8270		09/16/1993
SURROGATE RESULTS	--						09/16/1993
Nitrobenzene-d5 (SURR)	61			‡ Rec.	8270		09/16/1993
2-Fluorobiphenyl (SURR)	64			‡ Rec.	8270		09/16/1993
p-Terphenyl-d14 (SURR)	79			‡ Rec.	8270		09/16/1993
Phenol-d5 (SURR)	73			‡ Rec.	8270		09/16/1993
2-Fluorophenol (SURR)	63			‡ Rec.	8270		09/16/1993
2,4,6-Tribromophenol (SURR)	77			‡ Rec.	8270		09/16/1993



Client Acct: 1809
 Client Name: Weiss Associates
 NET Job No: 93.04764

Date: 11/05/1993
 ELAP Certificate: 1386
 Page: 5

Ref: SHELL 6039 College Ave., Oakland, WA Job:81-618-07

SAMPLE DESCRIPTION: BH-D
 Date Taken: 09/10/1993
 Time Taken:
 NET Sample No: 177281

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Oil & Grease (Total)	24		5	mg/L	5520B		10/29/1993
Oil & Grease (Non-Polar)	20		5	mg/L	5520B/F		10/29/1993
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						10/30/1993
DILUTION FACTOR*	10						10/30/1993
as Gasoline	24	G-	0.5	mg/L	5030		10/30/1993
METHOD 8020 (GC,Liquid)							
Benzene	0.72	C	0.005	mg/L	8020		10/30/1993
Toluene	0.086	C	0.005	mg/L	8020		10/30/1993
Ethylbenzene	0.044	C	0.005	mg/L	8020		10/30/1993
Xylenes (Total)	0.011	C	0.005	mg/L	8020		10/30/1993
SURROGATE RESULTS							
Bromofluorobenzene (SURR)	136	MI		† Rec.	5030		10/30/1993
METHOD 3510/M8015							
DILUTION FACTOR*	50					10/28/1993	11/01/1993
as Diesel	25	DL	2	mg/l	3510		11/01/1993

C : Positive result confirmed by secondary column or GC/MS analysis.
 DL : The positive result appears to be a lighter hydrocarbon than Diesel.
 G- : The positive result has an atypical pattern for Gasoline analysis.
 MI: Matrix interference.



Client Acct: 1809
 Client Name: Weiss Associates
 NET Job No: 93.04764

Date: 11/05/1993
 ELAP Certificate: 1386
 Page: 6

Ref: SHELL 6039 College Ave., Oakland, WA Job:81-618-07

SAMPLE DESCRIPTION: BH-D
 Date Taken: 09/10/1993
 Time Taken:
 NET Sample No: 177281

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
METHOD 8270 (GCMS, Liquid)						10/30/1993	
DILUTION FACTOR*	1						11/03/1993
Acenaphthene	ND		0.010	mg/L	8270		11/03/1993
Acenaphthylene	ND		0.010	mg/L	8270		11/03/1993
Aldrin	ND		0.050	mg/L	8270		11/03/1993
Anthracene	ND		0.010	mg/L	8270		11/03/1993
Benzidine	ND		0.044	mg/L	8270		11/03/1993
Benzo(a)anthracene	ND		0.010	mg/L	8270		11/03/1993
Benzo(b)fluoranthene	ND		0.010	mg/L	8270		11/03/1993
Benzo(k)fluoranthene	ND		0.010	mg/L	8270		11/03/1993
Benzo(a)pyrene	ND		0.010	mg/L	8270		11/03/1993
Benzo(g,h,i)perylene	ND		0.010	mg/L	8270		11/03/1993
Benzoic acid	ND		0.050	mg/L	8270		11/03/1993
Benzyl alcohol	ND		0.010	mg/L	8270		11/03/1993
Butyl benzyl phthalate	ND		0.010	mg/L	8270		11/03/1993
delta-BHC	ND		0.050	mg/L	8270		11/03/1993
gamma-BHC	ND		0.050	mg/L	8270		11/03/1993
bis(2-Chloroethyl) ether	ND		0.010	mg/L	8270		11/03/1993
bis(2-Chloroethoxy)methane	ND		0.010	mg/L	8270		11/03/1993
bis(2-Chloroisopropyl) ether	ND		0.010	mg/L	8270		11/03/1993
bis(2-Ethylhexyl)phthalate	ND		0.010	mg/L	8270		11/03/1993
4-Bromophenyl phenyl ether	ND		0.010	mg/L	8270		11/03/1993
4-Chloroaniline	ND		0.010	mg/L	8270		11/03/1993
2-Chloronaphthalene	ND		0.010	mg/L	8270		11/03/1993
4-Chlorophenyl phenyl ether	ND		0.010	mg/L	8270		11/03/1993
Chrysene	ND		0.010	mg/L	8270		11/03/1993
4,4'-DDD	ND		0.050	mg/L	8270		11/03/1993
4,4'-DDE	ND		0.050	mg/L	8270		11/03/1993
4,4'-DDT	ND		0.050	mg/L	8270		11/03/1993
Dibenzo(a,h)anthracene	ND		0.010	mg/L	8270		11/03/1993
Dibenzofuran	ND		0.010	mg/L	8270		11/03/1993
Di-n-butylphthalate	ND		0.010	mg/L	8270		11/03/1993
1,2-Dichlorobenzene	ND		0.010	mg/L	8270		11/03/1993
1,3-Dichlorobenzene	ND		0.010	mg/L	8270		11/03/1993
1,4-Dichlorobenzene	ND		0.010	mg/L	8270		11/03/1993
3,3'-Dichlorobenzidine	ND		0.020	mg/L	8270		11/03/1993
Dieldrin	ND		0.050	mg/L	8270		11/03/1993
Diethylphthalate	ND		0.010	mg/L	8270		11/03/1993
Dimethyl phthalate	ND		0.010	mg/L	8270		11/03/1993
2,4-Dinitrotoluene	ND		0.010	mg/L	8270		11/03/1993
2,6-Dinitrotoluene	ND		0.010	mg/L	8270		11/03/1993
Di-n-octyl phthalate	ND		0.010	mg/L	8270		11/03/1993
Endrin aldehyde	ND		0.050	mg/L	8270		11/03/1993
Fluoranthene	ND		0.010	mg/L	8270		11/03/1993
Fluorene	ND		0.010	mg/L	8270		11/03/1993



Client Acct: 1809
 Client Name: Weiss Associates
 NET Job No: 93.04764

Date: 11/05/1993
 ELAP Certificate: 1386
 Page: 7

Ref: SHELL 6039 College Ave., Oakland, WA Job:81-618-07

SAMPLE DESCRIPTION: BH-D
 Date Taken: 09/10/1993
 Time Taken:
 NET Sample No: 177281

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Heptachlor	ND		0.050	mg/L	8270		11/03/1993
Heptachlor epoxide	ND		0.050	mg/L	8270		11/03/1993
Hexachlorobenzene	ND		0.010	mg/L	8270		11/03/1993
Hexachlorobutadiene	ND		0.010	mg/L	8270		11/03/1993
Hexachlorocyclopentadiene	ND		0.010	mg/L	8270		11/03/1993
Hexachloroethane	ND		0.010	mg/L	8270		11/03/1993
Indeno(1,2,3-cd)pyrene	ND		0.010	mg/L	8270		11/03/1993
Isophorone	ND		0.010	mg/L	8270		11/03/1993
2-Methylnaphthalene	0.075		0.010	mg/L	8270		11/03/1993
Naphthalene	0.018		0.010	mg/L	8270		11/03/1993
2-Nitroaniline	ND		0.050	mg/L	8270		11/03/1993
3-Nitroaniline	ND		0.050	mg/L	8270		11/03/1993
4-Nitroaniline	ND		0.050	mg/L	8270		11/03/1993
Nitrobenzene	ND		0.010	mg/L	8270		11/03/1993
N-Nitroso-Di-N-propylamine	ND		0.010	mg/L	8270		11/03/1993
N-Nitrosodiphenylamine	ND		0.010	mg/L	8270		11/03/1993
Phenanthrene	ND		0.010	mg/L	8270		11/03/1993
Pyrene	ND		0.010	mg/L	8270		11/03/1993
1,2,4-Trichlorobenzene	ND		0.010	mg/L	8270		11/03/1993
ACID EXTRACTABLES	--						11/03/1993
4-Chloro-3-methylphenol	ND		0.010	mg/L	8270		11/03/1993
2-Chlorophenol	ND		0.010	mg/L	8270		11/03/1993
2,4-Dichlorophenol	ND		0.010	mg/L	8270		11/03/1993
2,4-Dimethylphenol	ND		0.010	mg/L	8270		11/03/1993
2,4-Dinitrophenol	ND		0.050	mg/L	8270		11/03/1993
4,6-Dinitro-2-methylphenol	ND		0.050	mg/L	8270		11/03/1993
2-Nitrophenol	ND		0.010	mg/L	8270		11/03/1993
4-Nitrophenol	ND		0.050	mg/L	8270		11/03/1993
Pentachlorophenol	ND		0.050	mg/L	8270		11/03/1993
Phenol	ND		0.010	mg/L	8270		11/03/1993
2,4,6-Trichlorophenol	ND		0.010	mg/L	8270		11/03/1993
2-Methylphenol	ND		0.010	mg/L	8270		11/03/1993
4-Methylphenol	ND		0.010	mg/L	8270		11/03/1993
2,4,5-Trichlorophenol	ND		0.050	mg/L	8270		11/03/1993
SURROGATE RESULTS	--						11/03/1993
Nitrobenzene-d5 (SURR)	67			† Rec.	8270		11/03/1993
2-Fluorobiphenyl (SURR)	66			† Rec.	8270		11/03/1993
p-Terphenyl-d14 (SURR)	57			† Rec.	8270		11/03/1993
Phenol-d5 (SURR)	31			† Rec.	8270		11/03/1993
2-Fluorophenol (SURR)	43			† Rec.	8270		11/03/1993
2,4,6-Tribromophenol (SURR)	80			† Rec.	8270		11/03/1993



Client Acct: 1809
 Client Name: Weiss Associates
 NET Job No: 93.04010

Date: 09/22/1993
 ELAP Certificate: 1386
 Page: 11

Ref: SHELL, 6039 College Ave., Oakland, WA Job No: 81-618-07

SAMPLE DESCRIPTION: BH-D-10.7
 Date Taken: 09/10/1993
 Time Taken:
 NET Sample No: 173542

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Oil & Grease (Total)	ND		50	mg/kg	5520E		09/16/1993
Oil & Grease (Non-Polar)	ND		50	mg/kg	5520E/F		09/16/1993
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						09/16/1993
DILUTION FACTOR*	1						09/16/1993
as Gasoline	6.8	G-	1	mg/kg	5030		09/16/1993
METHOD 8020 (GC,Solid)							
Benzene	ND		0.0025	mg/kg	8020		09/16/1993
Toluene	ND		0.0025	mg/kg	8020		09/16/1993
Ethylbenzene	ND		0.0025	mg/kg	8020		09/16/1993
Xylenes (Total)	ND		0.0025	mg/kg	8020		09/16/1993
SURROGATE RESULTS							
Bromofluorobenzene (SURR)	112			µ Rec.	5030		09/16/1993
METHOD 3550/M8015							
DILUTION FACTOR*	1					09/16/1993	09/16/1993
as Diesel	8.9	DL	1	mg/kg	3550		09/16/1993

DL : The positive result appears to be a lighter hydrocarbon than Diesel.
 G- : The positive result has an atypical pattern for Gasoline analysis.



Client Acct: 1809
Client Name: Weiss Associates
NET Job No: 93.04010

Date: 09/22/1993
ELAP Certificate: 1386
Page: 12

Ref: SHELL, 6039 College Ave., Oakland, WA Job No: 81-618-07

SAMPLE DESCRIPTION: BH-D-10.7
Date Taken: 09/10/1993
Time Taken:
NET Sample No: 173542

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
METHOD 8270 (GCMS, Solid)						09/15/1993	
DILUTION FACTOR*	1						09/16/1993
Acenaphthene	ND		0.33	mg/kg	8270		09/16/1993
Acenaphthylene	ND		0.33	mg/kg	8270		09/16/1993
Aldrin	ND		1.6	mg/kg	8270		09/16/1993
Anthracene	ND		0.33	mg/kg	8270		09/16/1993
Benzidine	ND		1.6	mg/kg	8270		09/16/1993
Benzo(a)anthracene	ND		0.33	mg/kg	8270		09/16/1993
Benzo(b)fluoranthene	ND		0.33	mg/kg	8270		09/16/1993
Benzo(k)fluoranthene	ND		0.33	mg/kg	8270		09/16/1993
Benzo(a)pyrene	ND		0.33	mg/kg	8270		09/16/1993
Benzo(g,h,i)perylene	ND		0.33	mg/kg	8270		09/16/1993
Benzoic acid	ND		1.6	mg/kg	8270		09/16/1993
Benzyl alcohol	ND		0.33	mg/kg	8270		09/16/1993
Butyl benzyl phthalate	ND		0.33	mg/kg	8270		09/16/1993
delta-BHC	ND		1.6	mg/kg	8270		09/16/1993
gamma-BHC	ND		1.6	mg/kg	8270		09/16/1993
bis(2-Chloroethyl)ether	ND		0.33	mg/kg	8270		09/16/1993
bis(2-Chloroethoxy)methane	ND		0.33	mg/kg	8270		09/16/1993
bis(2-Chloroisopropyl)ether	ND		0.33	mg/kg	8270		09/16/1993
bis(2-Ethylhexyl)phthalate	ND		0.33	mg/kg	8270		09/16/1993
4-Bromophenyl phenyl ether	ND		0.33	mg/kg	8270		09/16/1993
4-Chloroaniline	ND		0.33	mg/kg	8270		09/16/1993
2-Chloronaphthalene	ND		0.33	mg/kg	8270		09/16/1993
4-Chlorophenyl phenyl ether	ND		0.33	mg/kg	8270		09/16/1993
Chrysene	ND		0.33	mg/kg	8270		09/16/1993
4,4'-DDD	ND		1.6	mg/kg	8270		09/16/1993
4,4'-DDE	ND		1.6	mg/kg	8270		09/16/1993
4,4'-DDT	ND		1.6	mg/kg	8270		09/16/1993
Dibenzo(a,h)anthracene	ND		0.33	mg/kg	8270		09/16/1993
Dibenzofuran	ND		0.33	mg/kg	8270		09/16/1993
Di-n-butylphthalate	ND		0.33	mg/kg	8270		09/16/1993
1,2-Dichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
1,3-Dichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
1,4-Dichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
3,3'-Dichlorobenzidine	ND		0.66	mg/kg	8270		09/16/1993
Dieldrin	ND		1.6	mg/kg	8270		09/16/1993
Diethylphthalate	ND		0.33	mg/kg	8270		09/16/1993
Dimethyl phthalate	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dinitrotoluene	ND		0.33	mg/kg	8270		09/16/1993
2,6-Dinitrotoluene	ND		0.33	mg/kg	8270		09/16/1993
Di-n-octyl phthalate	ND		0.33	mg/kg	8270		09/16/1993
Endrin aldehyde	ND		1.6	mg/kg	8270		09/16/1993
Fluoranthene	ND		0.33	mg/kg	8270		09/16/1993
Fluorene	ND		0.33	mg/kg	8270		09/16/1993



Client Acct: 1809
Client Name: Weiss Associates
NET Job No: 93.04010

Date: 09/22/1993
ELAP Certificate: 1386
Page: 13

Ref: SHELL, 6039 College Ave., Oakland, WA Job No: 81-618-07

SAMPLE DESCRIPTION: BH-D-10.7
Date Taken: 09/10/1993
Time Taken:
NET Sample No: 173542

Parameter	Results	Flags	Reporting			Date	Date
			Limit	Units	Method	Extracted	Analyzed
Heptachlor	ND		1.6	mg/kg	8270		09/16/1993
Heptachlor epoxide	ND		1.6	mg/kg	8270		09/16/1993
Hexachlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
Hexachlorobutadiene	ND		0.33	mg/kg	8270		09/16/1993
Hexachlorocyclopentadiene	ND		0.33	mg/kg	8270		09/16/1993
Hexachloroethane	ND		0.33	mg/kg	8270		09/16/1993
Indeno (1,2,3-cd) pyrene	ND		0.33	mg/kg	8270		09/16/1993
Isophorone	ND		0.33	mg/kg	8270		09/16/1993
2-Methylnaphthalene	ND		0.33	mg/kg	8270		09/16/1993
Naphthalene	ND		0.33	mg/kg	8270		09/16/1993
2-Nitroaniline	ND		1.6	mg/kg	8270		09/16/1993
3-Nitroaniline	ND		1.6	mg/kg	8270		09/16/1993
4-Nitroaniline	ND		1.6	mg/kg	8270		09/16/1993
Nitrobenzene	ND		0.33	mg/kg	8270		09/16/1993
N-Nitroso-Di-N-propylamine	ND		0.33	mg/kg	8270		09/16/1993
N-Nitrosodiphenylamine	ND		0.33	mg/kg	8270		09/16/1993
Phenanthrene	ND		0.33	mg/kg	8270		09/16/1993
Pyrene	ND		0.33	mg/kg	8270		09/16/1993
1,2,4-Trichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
ACID EXTRACTABLES	--						
4-Chloro-3-methylphenol	ND		0.33	mg/kg	8270		09/16/1993
2-Chlorophenol	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dichlorophenol	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dimethylphenol	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dinitrophenol	ND		1.6	mg/kg	8270		09/16/1993
4,6-Dinitro-2-methylphenol	ND		1.6	mg/kg	8270		09/16/1993
2-Nitrophenol	ND		0.33	mg/kg	8270		09/16/1993
4-Nitrophenol	ND		1.6	mg/kg	8270		09/16/1993
Pentachlorophenol	ND		1.6	mg/kg	8270		09/16/1993
Phenol	ND		0.33	mg/kg	8270		09/16/1993
2,4,6-Trichlorophenol	ND		0.33	mg/kg	8270		09/16/1993
2-Methylphenol	ND		0.33	mg/kg	8270		09/16/1993
4-Methylphenol	ND		0.33	mg/kg	8270		09/16/1993
2,4,5-Trichlorophenol	ND		1.6	mg/kg	8270		09/16/1993
SURROGATE RESULTS	--						
Nitrobenzene-d5 (SURR)	59			‡ Rec.	8270		09/16/1993
2-Fluorobiphenyl (SURR)	54			‡ Rec.	8270		09/16/1993
p-Terphenyl-d14 (SURR)	81			‡ Rec.	8270		09/16/1993
Phenol-d5 (SURR)	73			‡ Rec.	8270		09/16/1993
2-Fluorophenol (SURR)	64			‡ Rec.	8270		09/16/1993
2,4,6-Tribromophenol (SURR)	74			‡ Rec.	8270		09/16/1993



Client Acct: 1809
 Client Name: Weiss Associates
 NET Job No: 93.04010

Date: 09/22/1993
 ELAP Certificate: 1386
 Page: 14

Ref: SHELL, 6039 College Ave., Oakland, WA Job No: 81-618-07

SAMPLE DESCRIPTION: BH-D-15.7
 Date Taken: 09/10/1993
 Time Taken:
 NET Sample No: 173543

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Oil & Grease (Total)	97		50	mg/kg	5520E		09/16/1993
Oil & Grease (Non-Polar)	69		50	mg/kg	5520E/F		09/16/1993
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						09/15/1993
DILUTION FACTOR*	10						09/15/1993
as Gasoline	150		1	mg/kg	5030		09/15/1993
METHOD 8020 (GC,Solid)	--						09/15/1993
Benzene	0.42		0.025	mg/kg	8020		09/16/1993
Toluene	ND		0.025	mg/kg	8020		09/16/1993
Ethylbenzene	ND		0.025	mg/kg	8020		09/16/1993
Xylenes (Total)	ND		0.025	mg/kg	8020		09/15/1993
SURROGATE RESULTS	--						09/15/1993
Bromofluorobenzene (SURR)	116			* Rec.	5030		09/15/1993
METHOD 3550/M8015						09/16/1993	
DILUTION FACTOR*	1						09/16/1993
as Diesel	55	D-	1	mg/kg	3550		09/16/1993

D- : The positive result has an atypical pattern for Diesel analysis.



Client Acct: 1809
Client Name: Weiss Associates
NET Job No: 93.04010

Date: 09/22/1993
ELAP Certificate: 1386
Page: 15

Ref: SHELL, 6039 College Ave., Oakland, WA, Job No: 81-618-07

SAMPLE DESCRIPTION: BH-D-15.7
Date Taken: 09/10/1993
Time Taken:
NET Sample No: 173543

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
METHOD 8270 (GCMS, Solid)						09/15/1993	
DILUTION FACTOR*	1						09/16/1993
Acenaphthene	ND		0.33	mg/kg	8270		09/16/1993
Acenaphthylene	ND		0.33	mg/kg	8270		09/16/1993
Aldrin	ND		1.6	mg/kg	8270		09/16/1993
Anthracene	ND		0.33	mg/kg	8270		09/16/1993
Benzidine	ND		1.6	mg/kg	8270		09/16/1993
Benzo (a) anthracene	ND		0.33	mg/kg	8270		09/16/1993
Benzo (b) fluoranthene	ND		0.33	mg/kg	8270		09/16/1993
Benzo (k) fluoranthene	ND		0.33	mg/kg	8270		09/16/1993
Benzo (a) pyrene	ND		0.33	mg/kg	8270		09/16/1993
Benzo (g, h, i) perylene	ND		0.33	mg/kg	8270		09/16/1993
Benzoic acid	ND		1.6	mg/kg	8270		09/16/1993
Benzyl alcohol	ND		0.33	mg/kg	8270		09/16/1993
Butyl benzyl phthalate	ND		0.33	mg/kg	8270		09/16/1993
delta-BHC	ND		1.6	mg/kg	8270		09/16/1993
gamma-BHC	ND		1.6	mg/kg	8270		09/16/1993
bis (2-Chloroethyl) ether	ND		0.33	mg/kg	8270		09/16/1993
bis (2-Chloroethoxy) methane	ND		0.33	mg/kg	8270		09/16/1993
bis (2-Chloroisopropyl) ether	ND		0.33	mg/kg	8270		09/16/1993
bis (2-Ethylhexyl) phthalate	ND		0.33	mg/kg	8270		09/16/1993
4-Bromophenyl phenyl ether	ND		0.33	mg/kg	8270		09/16/1993
4-Chloroaniline	ND		0.33	mg/kg	8270		09/16/1993
2-Chloronaphthalene	ND		0.33	mg/kg	8270		09/16/1993
4-Chlorophenyl phenyl ether	ND		0.33	mg/kg	8270		09/16/1993
Chrysene	ND		0.33	mg/kg	8270		09/16/1993
4,4'-DDD	ND		1.6	mg/kg	8270		09/16/1993
4,4'-DDE	ND		1.6	mg/kg	8270		09/16/1993
4,4'-DDT	ND		1.6	mg/kg	8270		09/16/1993
Dibenzo (a, h) anthracene	ND		0.33	mg/kg	8270		09/16/1993
Dibenzofuran	ND		0.33	mg/kg	8270		09/16/1993
Di-n-butylphthalate	ND		0.33	mg/kg	8270		09/16/1993
1,2-Dichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
1,3-Dichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
1,4-Dichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
3,3'-Dichlorobenzidine	ND		0.66	mg/kg	8270		09/16/1993
Dieldrin	ND		1.6	mg/kg	8270		09/16/1993
Diethylphthalate	ND		0.33	mg/kg	8270		09/16/1993
Dimethyl phthalate	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dinitrotoluene	ND		0.33	mg/kg	8270		09/16/1993
2,6-Dinitrotoluene	ND		0.33	mg/kg	8270		09/16/1993
Di-n-octyl phthalate	ND		0.33	mg/kg	8270		09/16/1993
Endrin aldehyde	ND		1.6	mg/kg	8270		09/16/1993
Fluoranthene	ND		0.33	mg/kg	8270		09/16/1993
Fluorene	ND		0.33	mg/kg	8270		09/16/1993



Client Acct: 1809
 Client Name: Weiss Associates
 NET Job No: 93.04010

Date: 09/22/1993
 ELAP Certificate: 1386
 Page: 16

Ref: SHELL, 6039 College Ave., Oakland, WA Job No: 81-618-07

SAMPLE DESCRIPTION: BH-D-15.7
 Date Taken: 09/10/1993
 Time Taken:
 NET Sample No: 173543

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
Heptachlor	ND		1.6	mg/kg	8270		09/16/1993
Heptachlor epoxide	ND		1.6	mg/kg	8270		09/16/1993
Hexachlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
Hexachlorobutadiene	ND		0.33	mg/kg	8270		09/16/1993
Hexachlorocyclopentadiene	ND		0.33	mg/kg	8270		09/16/1993
Hexachloroethane	ND		0.33	mg/kg	8270		09/16/1993
Indeno(1,2,3-cd)pyrene	ND		0.33	mg/kg	8270		09/16/1993
Isophorone	ND		0.33	mg/kg	8270		09/16/1993
2-Methylnaphthalene	ND		0.33	mg/kg	8270		09/16/1993
Naphthalene	ND		0.33	mg/kg	8270		09/16/1993
2-Nitroaniline	ND		1.6	mg/kg	8270		09/16/1993
3-Nitroaniline	ND		1.6	mg/kg	8270		09/16/1993
4-Nitroaniline	ND		1.6	mg/kg	8270		09/16/1993
Nitrobenzene	ND		0.33	mg/kg	8270		09/16/1993
N-Nitroso-Di-N-propylamine	ND		0.33	mg/kg	8270		09/16/1993
N-Nitrosodiphenylamine	ND		0.33	mg/kg	8270		09/16/1993
Phenanthrene	ND		0.33	mg/kg	8270		09/16/1993
Pyrene	ND		0.33	mg/kg	8270		09/16/1993
1,2,4-Trichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
ACID EXTRACTABLES	--						
4-Chloro-3-methylphenol	ND		0.33	mg/kg	8270		09/16/1993
2-Chlorophenol	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dichlorophenol	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dimethylphenol	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dinitrophenol	ND		1.6	mg/kg	8270		09/16/1993
4,6-Dinitro-2-methylphenol	ND		1.6	mg/kg	8270		09/16/1993
2-Nitrophenol	ND		0.33	mg/kg	8270		09/16/1993
4-Nitrophenol	ND		1.6	mg/kg	8270		09/16/1993
Pentachlorophenol	ND		1.6	mg/kg	8270		09/16/1993
Phenol	ND		0.33	mg/kg	8270		09/16/1993
2,4,6-Trichlorophenol	ND		0.33	mg/kg	8270		09/16/1993
2-Methylphenol	ND		0.33	mg/kg	8270		09/16/1993
4-Methylphenol	ND		0.33	mg/kg	8270		09/16/1993
2,4,5-Trichlorophenol	ND		1.6	mg/kg	8270		09/16/1993
SURROGATE RESULTS	--						
Nitrobenzene-d5 (SURR)	55			‡ Rec.	8270		09/16/1993
2-Fluorobiphenyl (SURR)	48			‡ Rec.	8270		09/16/1993
p-Terphenyl-d14 (SURR)	79			‡ Rec.	8270		09/16/1993
Phenol-d5 (SURR)	70			‡ Rec.	8270		09/16/1993
2-Fluorophenol (SURR)	57			‡ Rec.	8270		09/16/1993
2,4,6-Tribromophenol (SURR)	73			‡ Rec.	8270		09/16/1993



Client Acct: 1809
 Client Name: Weiss Associates
 NET Job No: 93.04010

Date: 09/22/1993
 ELAP Certificate: 1386
 Page: 17

Ref: SHELL, 6039 College Ave., Oakland, WA Job No: 81-618-07

SAMPLE DESCRIPTION: BH-D-20.7
 Date Taken: 09/10/1993
 Time Taken:
 NET Sample No: 173544

Parameter	Results	Flags	Reporting			Date	
			Limit	Units	Method	Extracted	Analyzed
Oil & Grease (Total)	ND		50	mg/kg	5520E		09/16/1993
Oil & Grease (Non-Polar)	ND		50	mg/kg	5520E/F		09/16/1993
TPH (Gas/BTEX,Solid)							
METHOD 5030/M8015	--						09/15/1993
DILUTION FACTOR*	1						09/15/1993
as Gasoline	5.6		1	mg/kg	5030		09/15/1993
METHOD 8020 (GC,Solid)							
Benzene	ND		0.0025	mg/kg	8020		09/15/1993
Toluene	0.0073		0.0025	mg/kg	8020		09/15/1993
Ethylbenzene	0.011		0.0025	mg/kg	8020		09/15/1993
Xylenes (Total)	ND		0.0025	mg/kg	8020		09/15/1993
SURROGATE RESULTS							
Bromofluorobenzene (SURR)	108			% Rec.	5030		09/15/1993
						09/16/1993	
METHOD 3550/M8015							
DILUTION FACTOR*	1						09/16/1993
as Diesel	2.9	D-	1	mg/kg	3550		09/16/1993

D- : The positive result has an atypical pattern for Diesel analysis.



Client Acct: 1809
 Client Name: Weiss Associates
 NET Job No: 93.04010

Date: 09/22/1993
 ELAP Certificate: 1386
 Page: 18

Ref: SHELL, 6039 College Ave., Oakland, WA Job No: 81-618-07

SAMPLE DESCRIPTION: BH-D-20.7
 Date Taken: 09/10/1993
 Time Taken:
 NET Sample No: 173544

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
METHOD 8270 (GCMS, Solid)						09/15/1993	
DILUTION FACTOR*	1						09/16/1993
Acenaphthene	ND		0.33	mg/kg	8270		09/16/1993
Acenaphthylene	ND		0.33	mg/kg	8270		09/16/1993
Aldrin	ND		1.6	mg/kg	8270		09/16/1993
Anthracene	ND		0.33	mg/kg	8270		09/16/1993
Benzidine	ND		1.6	mg/kg	8270		09/16/1993
Benzo(a)anthracene	ND		0.33	mg/kg	8270		09/16/1993
Benzo(b)fluoranthene	ND		0.33	mg/kg	8270		09/16/1993
Benzo(k)fluoranthene	ND		0.33	mg/kg	8270		09/16/1993
Benzo(a)pyrene	ND		0.33	mg/kg	8270		09/16/1993
Benzo(g,h,i)perylene	ND		0.33	mg/kg	8270		09/16/1993
Benzoic acid	ND		1.6	mg/kg	8270		09/16/1993
Benzyl alcohol	ND		0.33	mg/kg	8270		09/16/1993
Butyl benzyl phthalate	ND		0.33	mg/kg	8270		09/16/1993
delta-BHC	ND		1.6	mg/kg	8270		09/16/1993
gamma-BHC	ND		1.6	mg/kg	8270		09/16/1993
bis(2-Chloroethyl)ether	ND		0.33	mg/kg	8270		09/16/1993
bis(2-Chloroethoxy)methane	ND		0.33	mg/kg	8270		09/16/1993
bis(2-Chloroisopropyl)ether	ND		0.33	mg/kg	8270		09/16/1993
bis(2-Ethylhexyl)phthalate	ND		0.33	mg/kg	8270		09/16/1993
4-Bromophenyl phenyl ether	ND		0.33	mg/kg	8270		09/16/1993
4-Chloroaniline	ND		0.33	mg/kg	8270		09/16/1993
2-Chloronaphthalene	ND		0.33	mg/kg	8270		09/16/1993
4-Chlorophenyl phenyl ether	ND		0.33	mg/kg	8270		09/16/1993
Chrysene	ND		0.33	mg/kg	8270		09/16/1993
4,4'-DDD	ND		1.6	mg/kg	8270		09/16/1993
4,4'-DDE	ND		1.6	mg/kg	8270		09/16/1993
4,4'-DDT	ND		1.6	mg/kg	8270		09/16/1993
Dibenzo(a,h)anthracene	ND		0.33	mg/kg	8270		09/16/1993
Dibenzofuran	ND		0.33	mg/kg	8270		09/16/1993
Di-n-butylphthalate	ND		0.33	mg/kg	8270		09/16/1993
1,2-Dichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
1,3-Dichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
1,4-Dichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
3,3'-Dichlorobenzidine	ND		0.66	mg/kg	8270		09/16/1993
Dieldrin	ND		1.6	mg/kg	8270		09/16/1993
Diethylphthalate	ND		0.33	mg/kg	8270		09/16/1993
Dimethyl phthalate	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dinitrotoluene	ND		0.33	mg/kg	8270		09/16/1993
2,6-Dinitrotoluene	ND		0.33	mg/kg	8270		09/16/1993
Di-n-octyl phthalate	ND		0.33	mg/kg	8270		09/16/1993
Endrin aldehyde	ND		1.6	mg/kg	8270		09/16/1993
Fluoranthene	ND		0.33	mg/kg	8270		09/16/1993
Fluorene	ND		0.33	mg/kg	8270		09/16/1993



Client Acct: 1809
 Client Name: Weiss Associates
 NET Job No: 93.04010

Date: 09/22/1993
 ELAP Certificate: 1386
 Page: 19

Ref: SHELL, 6039 College Ave., Oakland, WA Job No: 81-618-07

SAMPLE DESCRIPTION: BH-D-20.7

Date Taken: 09/10/1993

Time Taken:

NET Sample No: 173544

Parameter	Results	Flags	Reporting			Date	Date
			Limit	Units	Method	Extracted	Analyzed
Heptachlor	ND		1.6	mg/kg	8270		09/16/1993
Heptachlor epoxide	ND		1.6	mg/kg	8270		09/16/1993
Hexachlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
Hexachlorobutadiene	ND		0.33	mg/kg	8270		09/16/1993
Hexachlorocyclopentadiene	ND		0.33	mg/kg	8270		09/16/1993
Hexachloroethane	ND		0.33	mg/kg	8270		09/16/1993
Indeno(1,2,3-cd)pyrene	ND		0.33	mg/kg	8270		09/16/1993
Isophorone	ND		0.33	mg/kg	8270		09/16/1993
2-Methylnaphthalene	ND		0.33	mg/kg	8270		09/16/1993
Naphthalene	ND		0.33	mg/kg	8270		09/16/1993
2-Nitroaniline	ND		1.6	mg/kg	8270		09/16/1993
3-Nitroaniline	ND		1.6	mg/kg	8270		09/16/1993
4-Nitroaniline	ND		1.6	mg/kg	8270		09/16/1993
Nitrobenzene	ND		0.33	mg/kg	8270		09/16/1993
N-Nitroso-Di-N-propylamine	ND		0.33	mg/kg	8270		09/16/1993
N-Nitrosodiphenylamine	ND		0.33	mg/kg	8270		09/16/1993
Phenanthrene	ND		0.33	mg/kg	8270		09/16/1993
Pyrene	ND		0.33	mg/kg	8270		09/16/1993
1,2,4-Trichlorobenzene	ND		0.33	mg/kg	8270		09/16/1993
ACID EXTRACTABLES	--						09/16/1993
4-Chloro-3-methylphenol	ND		0.33	mg/kg	8270		09/16/1993
2-Chlorophenol	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dichlorophenol	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dimethylphenol	ND		0.33	mg/kg	8270		09/16/1993
2,4-Dinitrophenol	ND		1.6	mg/kg	8270		09/16/1993
4,6-Dinitro-2-methylphenol	ND		1.6	mg/kg	8270		09/16/1993
2-Nitrophenol	ND		0.33	mg/kg	8270		09/16/1993
4-Nitrophenol	ND		1.6	mg/kg	8270		09/16/1993
Pentachlorophenol	ND		1.6	mg/kg	8270		09/16/1993
Phenol	ND		0.33	mg/kg	8270		09/16/1993
2,4,6-Trichlorophenol	ND		0.33	mg/kg	8270		09/16/1993
2-Methylphenol	ND		0.33	mg/kg	8270		09/16/1993
4-Methylphenol	ND		0.33	mg/kg	8270		09/16/1993
2,4,5-Trichlorophenol	ND		1.6	mg/kg	8270		09/16/1993
SURROGATE RESULTS	--						09/16/1993
Nitrobenzene-d5 (SURR)	58			% Rec.	8270		09/16/1993
2-Fluorobiphenyl (SURR)	53			% Rec.	8270		09/16/1993
p-Terphenyl-d14 (SURR)	78			% Rec.	8270		09/16/1993
Phenol-d5 (SURR)	72			% Rec.	8270		09/16/1993
2-Fluorophenol (SURR)	62			% Rec.	8270		09/16/1993
2,4,6-Tribromophenol (SURR)	73			% Rec.	8270		09/16/1993



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. Actual reporting limits and results have been multiplied by the listed dilution factor. Do not multiply the reporting limits or reported values by the dilution factor.
- dw : Result expressed as dry weight.
- 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 the 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., Rev. 1, December 1987.

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