Weiss Associates Environmental and Geologic Services

5500 Shellmound Street, Emeryville, CA 94608-2411 Fax: 510-547-5043 Phone: **510-450-6000**

November 2, 1995

STID 4017

Brian Oliva
Hazardous Materials Specialist
Alemada County Health Agency
Department of Environmental Health
Alameda, California 94502

RE: **Dispenser Replacement Sampling**
Shell Service Station
WIC #204-5508-5702
610 Market Street 94607
Oakland, California
WA Job #81-1103-09

Dear Mr. Oliva:

On behalf of Shell Oil Products Company (Shell), Weiss Associates (WA) submits this report documenting soil sampling and overexcavation activities for the recent fuel dispenser replacements and product piping removal at the above referenced Shell service station (Figure 1). The former dispensers were used to supply gasoline pumped from the underground storage tanks. The objective of this sampling was to assess whether hydrocarbons are in soil beneath the former dispensers and product piping. The objective of the overexcavation was to remove encountered stained soil as directed by Alameda County Health Agency (ACHA) personnel. WA's scope of work, the site background, and the soil sampling results are presented below.

SCOPE OF WORK

WA's scope of work for this investigation was to:

- Collect soil samples from beneath the former dispensers and the removed product piping according to local and state regulatory guidelines;
- Analyze collected soil samples for petroleum hydrocarbons;
- Overexcavate stained soil as directed by ACHA personnel;
- Sample and dispose of the excavated soil; and
- Report the results.

SITE BACKGROUND

Location: The operating Shell service station is located at the southeast corner of Market and 7th Streets in Oakland, California (Figures 1 and 2).

Surroundings: Commercial and residential development.

Local Topography: The site is about 20 ft above mean sea level.

Nearest Surface Water: Oakland Inner Harbor is located about 1/2-mile southwest of the site.

Ground Water Depth: According to Alameda County Department of Public Works, ground water is about 10 ft below ground surface.

Soil Sampling Results

Parties Present: WA Environmental Technician Herb Toor and WA Geologist Faith Daverin collected the soil samples. Alameda County Health Agency (ACHA) Inspector Brian Oliva observed and directed the soil sampling. Paradiso Construction of San Leandro, California excavated the trenches, removed the product lines, assisted the sampling and replaced the dispensers.

Sampling Dates: August 3 and 7, 1995.

Number of Samples: 12 initial samples and 6 confirmation samples: The initial sampling consisted of collecting one sample from beneath each of the eight removed dispensers and four samples total from beneath the removed product lines. Confirmation samples were collected from two areas where stained soil was observed and overexcavated. All soil samples were collected at the request of ACHA Inspector Brian Oliva. Sample locations are presented on Figure 3.

Soil Sampling Method: Soil samples were collected by driving clean brass tubes into undisturbed soil, either from a backhoe bucket or directly from the open trenches or excavation. Product line samples were collected from 2.5 feet below ground surface (bgs).

Confirmation overexcavation samples were collected from up to 5 ft below ground surface. All sample tubes were immediately sealed with Teflon sheeting and plastic caps and placed in an iced cooler for transport to the state-certified analytical laboratory.

Analytical Laboratory: Sequoia Analytical in Redwood City, California.

Analytical Methods: All initial soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) by modified EPA Method 8015 and benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020. The confirmation samples were also analyzed for non-polar petroleum oil and grease by American Public Health Association Standard Method 5520 E&F, volatile organic compounds (VOCs) by EPA Method 8240, semivolatile organic compounds (SVOCs) by EPA Method 8270 and the metals cadmium, chromium, lead, nickel and zinc because a former waste oil tank may have been located between the middle and eastern dispenser islands. The certified analytical reports and chain-of-custody forms are included in Attachment A.

Soil Sample Observations: Stained soil was observed near soil samples D-4, L-2, L-3 and L-4. ACHA Inspector Brian Oliva directed WA to overexcavate additional soil from these areas and collect confirmational soil samples. On August 7th, soil was overexcavated from these areas until no stained soil was observed. Soil samples SS-1 through SS-6 were then collected as confirmation samples. Based on overexcavating the stained soil observed near original samples D-4, L-2, L-3 and L-4, the trenches and the overexcavated areas were backfilled and a new concrete center drive was poured.

Analytic Results: TPH-G greater than 1,000 parts per million (ppm) were detected in initial sample D-1 from beneath the former dispenser at the northern end of the middle dispenser island and in samples D-6 and D-7 from the center of the eastern dispenser island. However, no benzene was detected in any of these samples. Of the four samples collected beneath the removed product piping, only 2.2 ppm TPH-G was detected in sample L-2. No benzene was detected in any of the samples collected beneath the product piping. The analytic results are summarized in Table 1.

In the six confirmation soil samples, up to 28 ppm TPH-G but no benzene was detected in the area west of the eastern pump island. Non-polar POG was detected at up to 260 ppm in this same area. However, no VOCs or SVOCs were detected in any of the confirmation samples. All analyzed metals were below their respective total threshold limit concentrations. These analytic results are summarized in Tables 1 and 2.

Excavated Soil Volume: A total of about 48 cubic yards of soil were excavated as shown in Figure 3. About 33 cubic yards of soil were removed in association with the dispenser and piping replacements. Approximately 15 cubic yards of hydrocarbon-bearing soil were overexcavated as shown in Figure 3.

Maximum Excavation Depth: 5 ft below ground surface.

Lithology Encountered: Silty sand to about 5 ft depth.

Ground Water Depth: No ground water was encountered.

Soil Disposal

Stockpile Sampling: The soil stockpile was sampled by driving clean brass tubes at least 12 inches below the stockpile surface. The tubes were immediately capped and sealed with Teflon tape and refrigerated for transport to the analytical laboratory. The laboratory composited and analyzed the samples for TPH-G, BTEX, and organic lead, POG, pH, polychlorinated byphenyls by EPA Method 8080, reactivity, total characteristic leaching potential (TCLP) for metals by EPA Method 6010, TCLP for SVOCs by EPA Method 8270, TCLP for VOCs by EPA Method 8240, Static Acute Hazardous Waste Bioassay and Toxicity Extraction for Lead. The certified analytic report and chain-of custody form are included in Attachment B.

Soil Transport and Disposal: On October 11, 1995, Manley and Sons Trucking, Inc., in Sacramento, California transported about 48 cubic yards of soil to Laidlaw Environmental in Buttonwillow, California for disposal. The soil disposal confirmation is presented in Attachment B.

CONCLUSIONS

Based on the sampling results, WA concludes that:

- No TPH-G was detected greater than 76 ppm in initial soil samples D-2, D-3, D-4, D-5, and D-8. However, up to 2,700 ppm TPH-G were detected in samples D-1 from the center dispenser island, and D-6 and D-7 from the western dispenser island. Except for 0.70 ppm benzene in sample D-3, benzene was below laboratory method detection limits in all of these samples.

- The area beneath sample D-4 (southern end of middle fuel island) was overexcavated based on field observations and as directed by ACHA Inspector Brian Oliva. No TPH-G, BTEX, POG, VOCs or SVOCs were detected in confirmation samples collected below this area.

- According to ACHA Inspector Brian Oliva, the area between the middle and eastern dispenser islands may have been impacted by a former waste oil tank. Confirmation samples collected from beneath samples L-2, L-3 and L-4 detected up to 260 ppm POG and up to 28 ppm TPH-G. However, no benzene, VOCs or SVOCs were detected in these samples.

- Due to construction activities, up to 2,700 ppm TPH-G was left in place beneath samples D-1, D-6 and D-7. The new fuel dispenser islands were constructed before the initial analytical results were received, preventing further overexcavation.

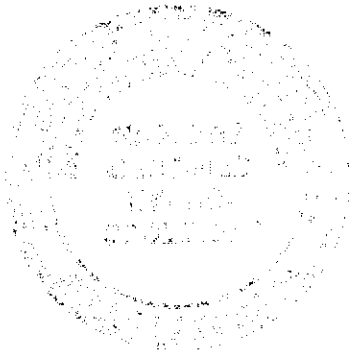
- Only the product piping located adjacent to the eastern dispenser island was removed and sampled. All other product piping remained in place and was reattached to the new dispensers.

- The dispensers removed from the eastern dispenser island were not upgraded or replaced, nor was the dispenser island removed. Poor access prevented soil samples from being collected beneath the actual dispenser. As directed by ACHD Inspector Brian Oliva, soil samples L-1 through L-4 collected beneath the former product piping, also satisfy the requirement for sampling below the former dispensers along the eastern dispenser.

- A total of 33 cubic yards of soil were removed during the dispenser upgrade. An additional 15 cubic yards of soil were removed during overexcavation activities.

WA trusts that this submittal meets your needs. Please call if you have any questions.

Sincerely,
Weiss Associates



Faith Morris Daverin
Staff Geologist

James W. Carmody, CHG
Senior Project Hydrogeologist

FMD/JWC:fmd

I:\SHELL\1103\REPORTS\DISPENS.DOC

Attachments: Figures
Tables
A - Certified Analytical Reports and Chain-of-Custody Forms for Soil
B - Soil Disposal Confirmation and Certified Analytical Report for Stockpile Samples

cc: R. Jeff Granberry, Shell Oil Products Company, PO Box 4023, Concord, CA 94524
Jeff Byram, Shell Oil Products Company, PO Box 4023, Concord, CA 94524
Kevin Graves, Regional Water Quality Control Board - San Francisco Bay, 2101 Webster Street, Suite 500, Oakland, CA 94612
Tom Fojut, Weiss Associates

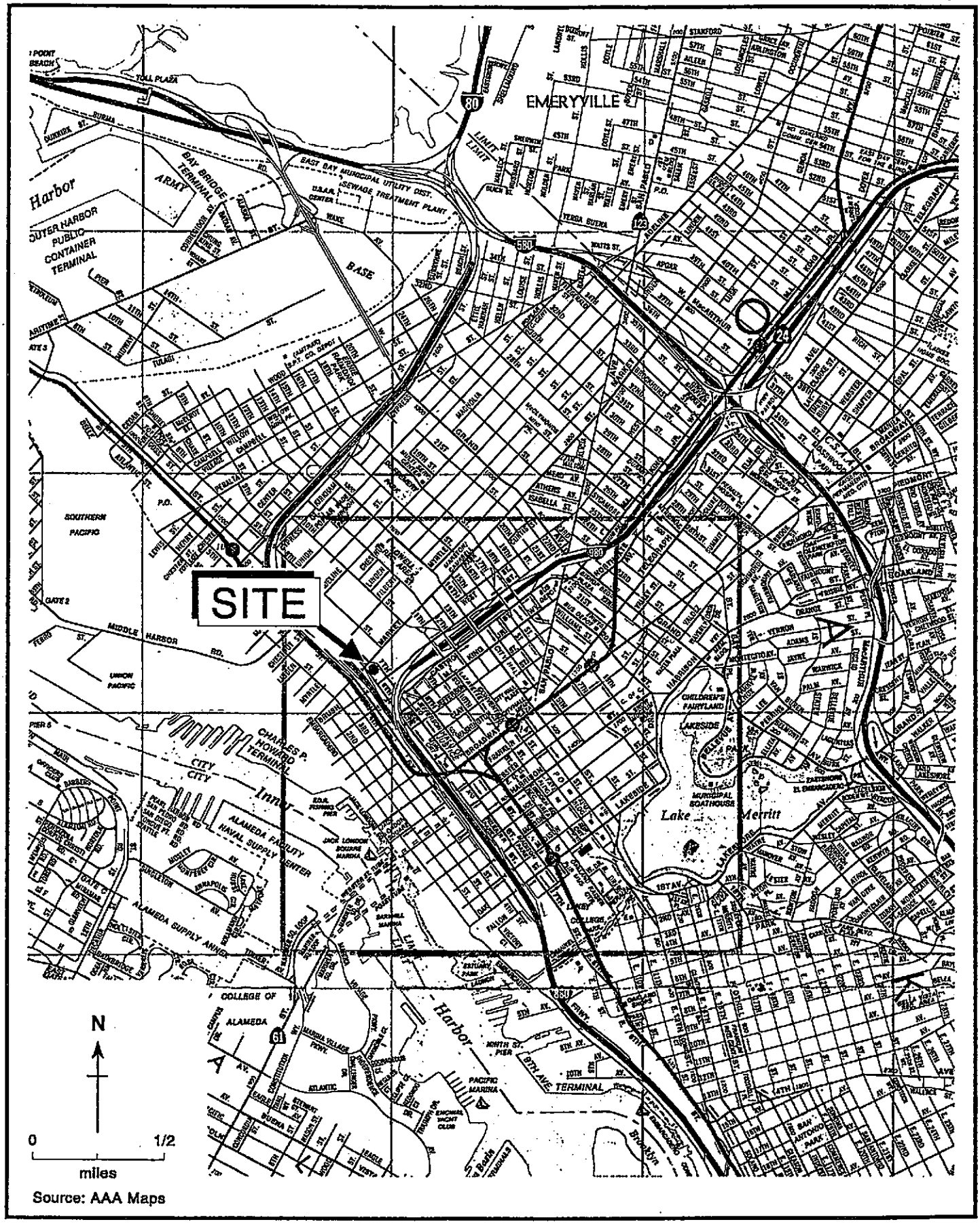


Figure 1. Site Location Map - Shell Service Station WIC# 204-5508-5702 - 610 Market Street, Oakland, California

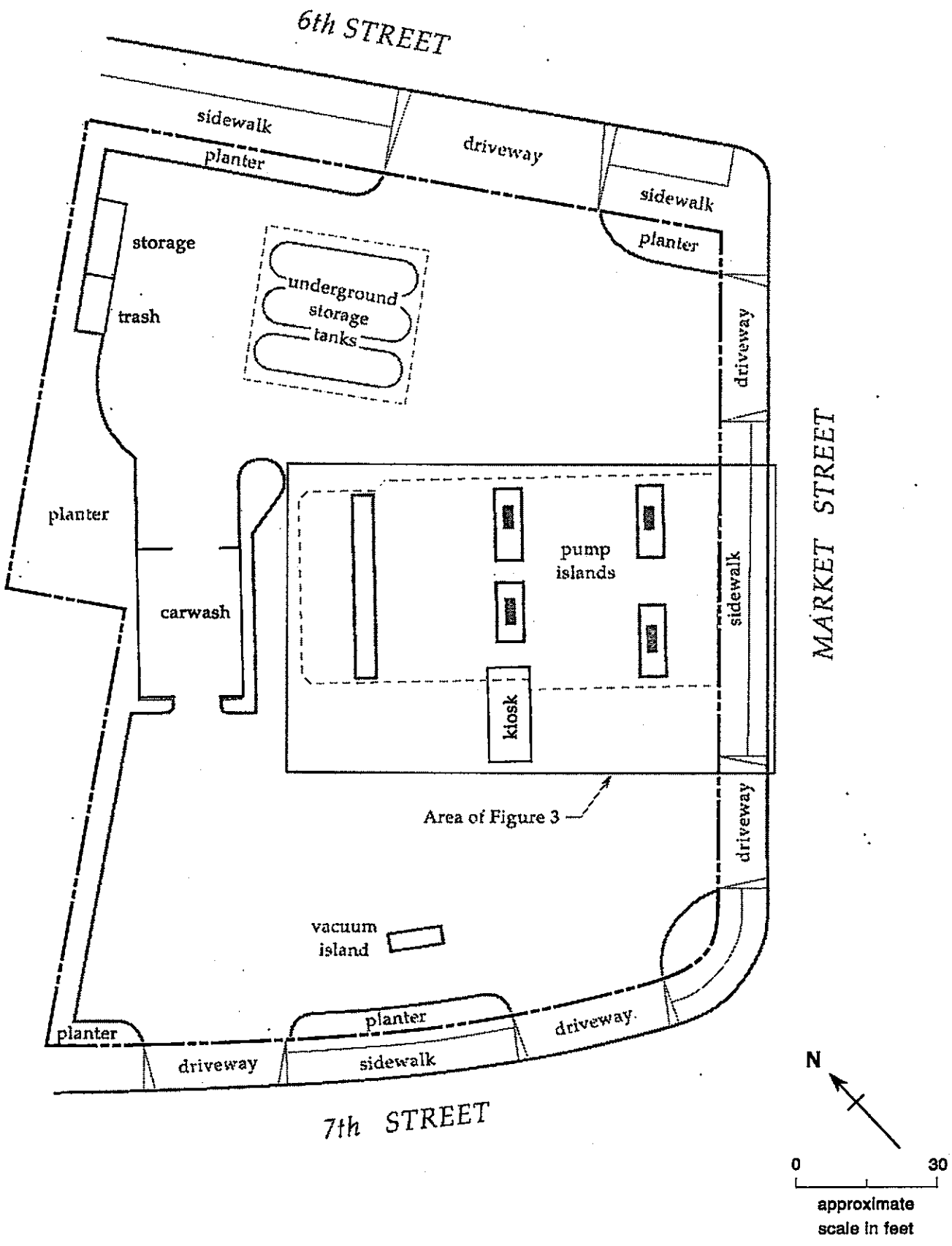


Figure 2. Site Layout - Shell Service Station WIC# 204-5508-5702, 610 Market Street, Oakland, California

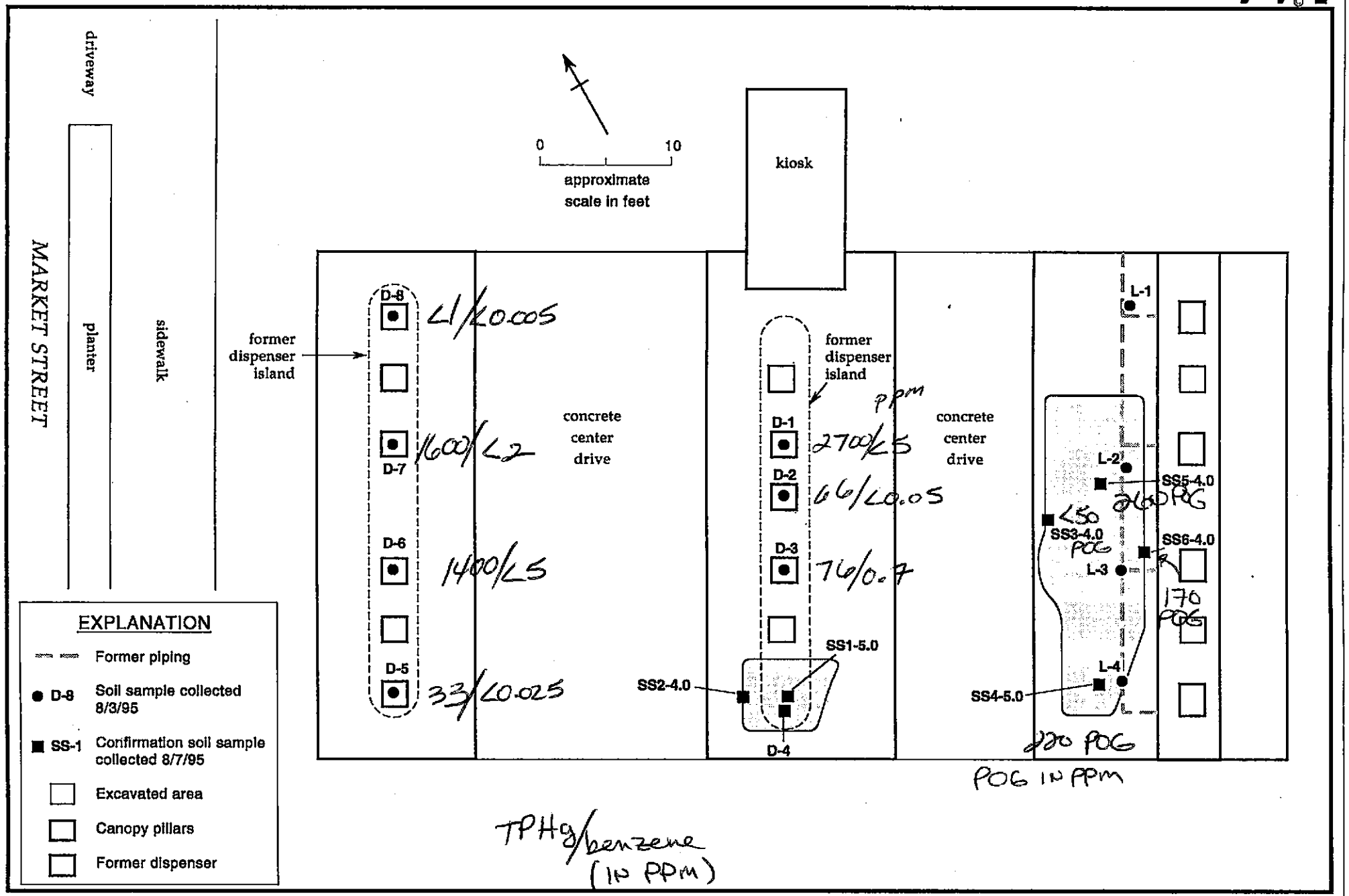


Figure 3. Soil Sample Locations - August 3 and 7, 1995 - Shell Service Station WIC# 204-5508-5702 - 610 Market Street, Oakland, California

Table 1. Analytic Results for Soil - Petroleum Hydrocarbons - Shell Service Station, WIC #204-5508-5702, 610 Market Street, Oakland, California

Sample ID	Date Sampled	Sample Depth (ft)	TPH-G	POG	B	T	E	X
			<---------- parts per million (ppm) ---------->					
Initial Soil Samples:								
D-1	08/03/95	2.5	2,700	---	<5.0	130	46	320
D-2	08/03/95	2.5	66	---	<0.050	0.11	0.36	1.9
D-3	08/03/95	2.5	76	---	0.70	4.7	0.79	8.7
D-4	08/03/95	2.5	7.7	---	<0.010	0.017	0.043	0.082
D-5	08/03/95	2.5	33	---	<0.025	0.16	0.10	3.0
D-6	08/03/95	2.5	1,400	---	<5.0	<5.0	<5.0	4.2
D-7	08/03/95	2.5	1,600	---	<2.0	<2.0	3.4	25
D-8	08/03/95	2.5	<1.0	---	<0.005	<0.0072	<0.005	<0.025
L-1	08/03/95	2.5	<1.0	---	<0.005	<0.005	<0.005	<0.005
L-2	08/03/95	2.5	2.2	---	<0.005	0.036	0.0068	<0.064
L-3	08/03/95	2.5	<1.0	---	<0.005	<0.005	<0.005	<0.005
L-4	08/03/95	2.5	<1.0	---	<0.005	<0.005	<0.005	<0.005
Confirmation Soil Samples:								
SS-1	08/07/95	5.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005
SS-2	08/07/95	4.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005
SS-3	08/07/95	4.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005
SS-4	08/07/95	5.0	2.0	220	<0.005	0.0057	0.0076	0.019
SS-5	08/07/95	5.0	10	260	<0.005	<0.005	0.034	0.086
SS-6	08/07/95	4.0	28	170	<0.012	<0.012	<0.029	<0.084

Abbreviations

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
POG = Non-Polar Petroleum Oil and Grease by EPA Method 5520 E&F
B = Benzene by EPA Method 8020
T = Toluene by EPA Method 8020
E = Ethylbenzene by EPA Method 8020
X = Xylenes by EPA Method 8020
--- = Not Analyzed
--- = not analyzed

Analytical Laboratory:

Sequoia Analytical of Redwood City, California

j:\shell\1103\reports\analanal.doc

Table 2. Analytic Results for Soil VOCs, SVOCs, and Various Metals - Shell Service Station, WIC #204-5508-5702, 610 Market Street, Oakland, California

Sample ID	Date Sampled	Sample Depth (ft)	VOCs	SVOCs	Cd	Cr	Pb	Ni	Zn
			< parts per million (ppm) >						
Confirmation Soil Samples:									
SS-1	08/07/95	5.0	ND	ND	<0.050	52	<5.0	39	26
SS-2	08/07/95	4.0	ND	ND	<0.050	36	<5.0	16	11
SS-3	08/07/95	4.0	ND	ND	<0.050	36	10	24	31
SS-4	08/07/95	5.0	ND	ND	<0.050	34	110	21	110
SS-5	08/07/95	5.0	ND	ND	2.9	38	290	25	320
SS-6	08/07/95	4.0	ND	ND	0.86	35	400	22	260

Abbreviations

VOCs = Volatile Organic Compounds by EPA Method 8240
SVOCs = Semi-Volatile Organic Compounds by EPA Method 8240
Cd = Cadmium by EPA Method 6010
Cr = Chromium by EPA Method 6010
Pb = Lead by EPA Method 6010
Ni = Nickel by EPA Method 6010
Zn = Zinc by EPA Method 6010
ND = Not detected between detection limit of 0.02 and 0.05 ppm
<n = Not detected at laboratory detection limit of n ppm

Analytical Laboratory:

Sequoia Analytical of Redwood City, California

j:\shell\1103\reports\soiltsa2.doc

ATTACHMENT A

CERTIFIED ANALYTICAL REPORTS AND
CHAIN OF CUSTODY FORMS FOR SOIL

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue; Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Faith Daverin

Project: Shell 610 Market St, Oakland

Enclosed are the results from samples received at Sequoia Analytical on August 7, 1995. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9508446 -01	SOLID, D-1	08/03/95	TPHGBS Purgeable TPH/BTEX
9508446 -02	SOLID, D-2	08/03/95	TPHGBS Purgeable TPH/BTEX
9508446 -03	SOLID, D-3	08/03/95	TPHGBS Purgeable TPH/BTEX
9508446 -04	SOLID, D-4	08/03/95	TPHGBS Purgeable TPH/BTEX
9508446 -05	SOLID, D-5	08/03/95	TPHGBS Purgeable TPH/BTEX
9508446 -06	SOLID, D-6	08/03/95	TPHGBS Purgeable TPH/BTEX
9508446 -07	SOLID, D-7	08/03/95	TPHGBS Purgeable TPH/BTEX
9508446 -08	SOLID, D-8	08/03/95	TPHGBS Purgeable TPH/BTEX
9508446 -09	SOLID, L-1	08/03/95	TPHGBS Purgeable TPH/BTEX
9508446 -10	SOLID, L-2	08/03/95	TPHGBS Purgeable TPH/BTEX
9508446 -11	SOLID, L-3	08/03/95	TPHGBS Purgeable TPH/BTEX
9508446 -12	SOLID, L-4	08/03/95	TPHGBS Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market St, Oakland	Sampled: 08/03/95
5500 Shellmound	Sample Descript: D-1	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/09/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/09/95
Attention: Faith Daverin	Lab Number: 9508446-01	Reported: 08/14/95

QC Batch Number: GC080995BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1000**	**2700**
Benzene	5.0	N.D.
Toluene	**5.0**	**130**
Ethyl Benzene	**5.0**	**46**
Xylenes (Total)	**5.0**	**320**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	107

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market St, Oakland	Sampled: 08/03/95
5500 Shellmound	Sample Descript: D-2	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/09/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/09/95
Attention: Faith Daverin	Lab Number: 9508446-02	Reported: 08/14/95

QC Batch Number: GC080995BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**10**	**66**
Benzene	0.050	N.D.
Toluene	**0.050**	**0.11**
Ethyl Benzene	**0.050**	**0.36**
Xylenes (Total)	**0.050**	**1.9**
Chromatogram Pattern:		
Unidentified HC		**>C10**
Weathered Gas		**C8-C10**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	97

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market St, Oakland	Sampled: 08/03/95
5500 Shellmound	Sample Descript: D-3	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/09/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/10/95
Attention: Faith Daverin	Lab Number: 9508446-03	Reported: 08/14/95

QC Batch Number: GC080995BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	10	76
Benzene	0.050	0.70
Toluene	0.050	4.7
Ethyl Benzene	0.050	0.79
Xylenes (Total)	0.050	8.7
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	125

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market St, Oakland	Sampled: 08/03/95
5500 Shellmound	Sample Descript: D-4	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/09/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/10/95
Attention: Faith Daverin	Lab Number: 9508446-04	Reported: 08/14/95

QC Batch Number: GC080995BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**2.0**	**7.7**
Benzene	0.010	N.D.
Toluene	**0.010**	**0.017**
Ethyl Benzene	**0.010**	**0.043**
Xylenes (Total)	**0.010**	**0.082**
Chromatogram Pattern:		
Weathered Gas		**C7-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	96

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market St, Oakland	Sampled: 08/03/95
5500 Shellmound	Sample Descript: D-5	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/09/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/10/95
Attention: Faith Daverin	Lab Number: 9508446-05	Reported: 08/14/95

QC Batch Number: GC080995BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**5.0**	**33**
Benzene	0.025	N.D.
Toluene	**0.025**	**0.16**
Ethyl Benzene	**0.025**	**0.10**
Xylenes (Total)	**0.025**	**3.0**
Chromatogram Pattern:		
Weathered Gas		**C7-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	122

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market St, Oakland	Sampled: 08/03/95
5500 Shellmound	Sample Descript: D-6	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/09/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/10/95
Attention: Faith Daverin	Lab Number: 9508446-06	Reported: 08/14/95

QC Batch Number: GC080995BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1000**	**1400**
Benzene	5.0	N.D.
Toluene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Xylenes (Total)	**5.0**	**42**
Chromatogram Pattern:		
Weathered Gas		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market St, Oakland	Sampled: 08/03/95
5500 Shellmound	Sample Descript: D-7	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/09/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/10/95
Attention: Faith Daverin	Lab Number: 9508446-07	Reported: 08/14/95

QC Batch Number: GC080995BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**400**	**1600**
Benzene	2.0	N.D.
Toluene	2.0	N.D.
Ethyl Benzene	**2.0**	**3.4**
Xylenes (Total)	**2.0**	**25**
Chromatogram Pattern:		
Unidentified HC		**>C10**
Weathered Gas		**C8-C10**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	94

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market St, Oakland	Sampled: 08/03/95
5500 Shellmound	Sample Descript: D-8	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/09/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/10/95
Attention: Faith Daverin	Lab Number: 9508446-08	Reported: 08/14/95

QC Batch Number: GC080995BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	**0.0050**	**0.0072**
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	**0.0050**	**0.025**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	93

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market St, Oakland	Sampled: 08/03/95
5500 Shellmound	Sample Descript: L-1	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/09/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/09/95
Attention: Faith Daverin	Lab Number: 9508446-09	Reported: 08/14/95

QC Batch Number: GC080995BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	106

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market St, Oakland	Sampled: 08/03/95
5500 Shellmound	Sample Descript: L-2	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/09/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/10/95
Attention: Faith Daverin	Lab Number: 9508446-10	Reported: 08/14/95

QC Batch Number: GC080995BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**2.2**
Benzene	0.0050	N.D.
Toluene	**0.0050**	**0.036**
Ethyl Benzene	**0.0050**	**0.0068**
Xylenes (Total)	**0.0050**	**0.064**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market St, Oakland	Sampled: 08/03/95
5500 Shellmound	Sample Descript: L-3	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/09/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/09/95
Attention: Faith Daverin	Lab Number: 9508446-11	Reported: 08/14/95

QC Batch Number: GC080995BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market St, Oakland	Sampled: 08/03/95
5500 Shellmound	Sample Descript: L-4	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/09/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/09/95
Attention: Faith Daverin	Lab Number: 9508446-12	Reported: 08/14/95

QC Batch Number: GC080995BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	107

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates	Client Project ID:	Shell 610 Market St., Oakland	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9508446 01-10	Reported: Aug 15, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC080995BTEXEXB	GC080995BTEXEXB	GC080995BTEXEXB	GC080995BTEXEXB
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	R. Geckler	R. Geckler	R. Geckler	R. Geckler
MS/MSD #:	950804131	950804131	950804131	950804131
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/9/95	8/9/95	8/9/95	8/9/95
Analyzed Date:	8/9/95	8/9/95	8/9/95	8/9/95
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/Kg
Result:	0.14	0.14	0.15	0.44
MS % Recovery:	70	70	75	73
Dup. Result:	0.15	0.15	0.15	0.45
MSD % Recov.:	75	75	75	75
RPD:	6.9	6.9	0.0	2.2
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:				
Prepared Date:				
Analyzed Date:				
Instrument I.D.#:				
Conc. Spiked:				
LCS Result:				
LCS % Recov.:				

MS/MSD LCS Control Limits	55-145	47-149	47-155	56-140

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Faith Daverin

Client Project ID: Shell 610 Market St., Oakland
Matrix: Solid
Work Order #: 9508446 11-12

Reported: Aug 15, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC080995BTEXEXA	GC080995BTEXEXA	GC080995BTEXEXA	GC080995BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	G. Garcia	G. Garcia	G. Garcia	G. Garcia
MS/MSD #:	950804125	950804125	950804125	950804125
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/9/95	8/9/95	8/9/95	8/9/95
Analyzed Date:	8/9/95	8/9/95	8/9/95	8/9/95
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/Kg
Result:	0.14	0.15	0.14	0.43
MS % Recovery:	70	75	70	72
Dup. Result:	0.17	0.18	0.18	0.53
MSD % Recov.:	85	90	90	88
RPD:	19	18	25	21
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:				
Prepared Date:				
Analyzed Date:				
Instrument I.D.#:				
Conc. Spiked:				
LCS Result:				
LCS % Recov.:				

MS/MSD LCS Control Limits	55-145	47-149	47-155	56-140

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 950844A6

Date: 8/4/95
Page 1 of 2

Site Address: 610 Market Street, Oakland, CA

WIC#: 204-5508-5702

Shell Engineer: Jeff Bryam
Phone No.:
Fax #:

Consultant Name & Address: WEISS ASSOCIATES 5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: Faith Daverin
Phone No.: (510) 547-5420
Fax #: 547-5043
WA JOB #81-1103-9

Comments: Soil sampling - Dispensers

Sampled by: Herb Toor

Printed Name: Herb Toor

LAB: Sequoia

Analysis Required

CHECK ONE (1) BOX ONLY	CT/DT
G.W. Monitoring	4461
Site Investigation	X 4441
Soil Classify/Disposal	4442
Water Classify/Disposal	4443
Soil/Air Rem. or Sys. O & M	4452
Water Rem. or Sys. O & M	4453
Other	

TURN AROUND TIME
- 24 hours
- 48 hours
- 15 days (Normal)
- Other X 5-Day

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY:

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			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
D-1	8/3/95		X			1						X								01
D-2			X			1						X								02
D-3			X			1						X								03
D-4			X			1						X								04
D-5			X			1						X								05
D-6			X			1						X								06
D-7			X			1						X								07
D-8	↓		X			1						X								08

	Printed Name:	Date: / Time:	Received (signature):	Printed Name:	Date: / Time:
Relinquished By (signature): Herb Toor	Herb Toor	Date: 8/4/95 Time: 1345			
Relinquished By (signature):	Printed Name:	Date: 8/4/95 Time: 1545	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: M-Yonics	Date: 8/7/95 Time: 1545

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 7/12/93

Shell Oil Chn. of Custody

* Samples stored in a locked, secured area over weekend

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 9508449

Date: 8/4/95
Page 2 of 2

Site Address: 610 Market Street, Oakland, CA

WIC#: 204-5508-5702

Shell Engineer: Jeff Bryam
Phone No.:
Fax #:

Consultant Name & Address: WEISS ASSOCIATES 5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: Faith Doverin
Phone No.: (510) 547-5420
Fax #: 547-5043
WA JOB # 81-1103-9

Comments: Soil Sampling - Dispensers

Sampled by: Herb Toor

Printed Name: Herb Toor

LAB: Sequoia

Analysis Required

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			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
L-1	8/3/95		X			1						X								9
L-2	"		X			1						X								10
L-3	"		X			1						X								11
L-4	↓		X			1						X								12

CHECK ONE (1) BOX ONLY | CT/DT | TURN AROUND TIME

- G.W. Monitoring ☐ 4461
- Site Investigation ☒ 4441
- Soil Classify/Disposal ☐ 4442
- Water Classify/Disposal ☐ 4443
- Soil/Air Rem. or Sys. O & M ☐ 4452
- Water Rem. or Sys. O & M ☐ 4453
- Other ☐

TURN AROUND TIME
- 24 hours ☐
- 48 hours ☐
- 15 days ☐ (Normal)
- Other ☒ 5 Days

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: _____

	Printed Name	Date/Time		Printed Name	Date/Time
Relinquished By (signature): Herb Toor	Herb Toor	Date: 8/4/95 Time: 1347	Received (signature):	N. Jones	Date: 8/4/95 Time: 1545
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: M. Yong	Date: 8/7/95 Time: 1545

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 1/12/93

Shell Oil Chn. of Custody

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates
550u Shellmound
Emeryville, CA 94608
Attention: Faith Daverin

Project: Shell, 610 Market St., Oakland

Enclosed are the results from samples received at Sequoia Analytical on August 7, 1995. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
950844801	SOLID, SS1-5.0	8/7/95	TPHGB Purgeable TPH/BTEX
950844802	SOLID, SS2-4.0	8/7/95	TPHGB Purgeable TPH/BTEX
950844803	SOLID, SS3-4.0	8/7/95	TPHGB Purgeable TPH/BTEX
950844804	SOLID, SS4-5.0	8/7/95	TPHGB Purgeable TPH/BTEX
950844805	SOLID, SS5-5.0	8/7/95	TPHGB Purgeable TPH/BTEX
950844806	SOLID, SS6-4.0	8/7/95	TPHGB Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 204-5508-5702/Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS1-5.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/09/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/10/95
Attention: Faith Daverin	Lab Number: 9508448-01	Reported: 08/11/95

QC Batch Number: GC080995BTEXEXC
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	85

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 204-5508-5702/Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS2-4.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/09/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/10/95
Attention: Faith Daverin	Lab Number: 9508448-02	Reported: 08/11/95

QC Batch Number: GC080995BTEXEXC
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	95

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 204-5508-5702/Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS3-4.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/09/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/10/95
Attention: Faith Daverin	Lab Number: 9508448-03	Reported: 08/11/95

QC Batch Number: GC080995BTEXEXC
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	109

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 204-5508-5702/Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS4-5.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/09/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/10/95
Attention: Faith Daverin	Lab Number: 9508448-04	Reported: 08/11/95

QC Batch Number: GC080995BTEXEXC
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**2.0**
Benzene	0.0050	N.D.
Toluene	**0.0050**	**0.0057**
Ethyl Benzene	**0.0050**	**0.0076**
Xylenes (Total)	**0.0050**	**0.019**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 204-5508-5702/Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS5-5.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/09/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/10/95
Attention: Faith Daverin	Lab Number: 9508448-05	Reported: 08/11/95

QC Batch Number: GC080995BTEXEXC
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**10**
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	**0.0050**	**0.034**
Xylenes (Total)	**0.0050**	**0.086**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	131 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 204-5508-5702/Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS6-4.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/09/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/10/95
Attention: Faith Daverin	Lab Number: 9508448-06	Reported: 08/11/95

QC Batch Number: GC080995BTEXEXC
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**2.5**	**28**
Benzene	0.012	N.D.
Toluene	0.012	N.D.
Ethyl Benzene	**0.012**	**0.029**
Xylenes (Total)	**0.012**	**0.084**
Chromatogram Pattern:		**Gas**
Gas & Unidentified HC		**>C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	123

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 204-5508-5702/Oakland	Received: 08/07/95
5500 Shellmound		
Emeryville, CA 94608	Lab Proj. ID: 9508448	Reported: 08/11/95
Attention: Faith Daverin		

LABORATORY NARRATIVE

Q = High surrogate recovery due to coelution.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates	Client Project ID:	Shell, 610 Market St., Oakland	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9508448 01-06	Reported: Aug 14, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC080995BTEXEXC	GC080995BTEXEXC	GC080995BTEXEXC	GC080995BTEXEXC
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	R. Geckler	R. Geckler	R. Geckler	R. Geckler
MS/MSD #:	950804106	950804106	950804106	950804106
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/9/95	8/9/95	8/9/95	8/9/95
Analyzed Date:	8/9/95	8/9/95	8/9/95	8/9/95
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
Result:	0.15	0.15	0.15	0.46
MS % Recovery:	75	75	75	77
Dup. Result:	0.15	0.15	0.15	0.44
MSD % Recov.:	75	75	75	73
RPD:	0.0	0.0	0.0	4.4
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:				
Prepared Date:				
Analyzed Date:				
Instrument I.D.#:				
Conc. Spiked:				
LCS Result:				
LCS % Recov.:				

MS/MSD LCS Control Limits	55-145	47-149	47-155	56-140

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 9508448

Date: 8/7/95
Page 1 of

Site Address: 610 Market Street, Oakland, CA

WIC#: 204-5508-5702

Shell Engineer: Dan Kirk | Phone No.: | Fax #:

Consultant Name & Address: WEISS ASSOCIATES 5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: Faith Daverin | Phone No.: (510) 547-5420 | Fax #: 547-5043

WA JOB # 81-1103-9

Comments: Confirmation Soil Samples

Sampled by: Faith Daverin

Printed Name: Faith Daverin

LAB: Sequoia

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			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SS1-5.0	8/7/95		X			1						X						N		01
SS2-4.0			X			1						X						N		02
SS3-4.0			X			1						X						N		03
SS4-5.0			X			1						X						N		04
SS5-5.0			X			1						X						N		05
SS6-4.0			X			1						X						N		06

Analysis Required

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring	4461	24 hours
Site Investigation	X 4441	48 hours
Soil Classify/Disposal	4442	15 days (Normal)
Water Classify/Disposal	4443	Other X 5-day
Soil/Air Rem. or Sys. O & M	4452	
Water Rem. or Sys. O & M	4453	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Other		

UST AGENCY:

	Printed Name	Date / Time		Printed Name	Date / Time
Relinquished By (signature): Faith Daverin	Faith Daverin	Date: 8/7/95 Time: 1349	Received (signature):	W. Jones	Date: 8/8 Time: 7:55
Relinquished By (signature):	W. Jones	Date: Time:	Received (signature):		Date: Time:
Relinquished By (signature):		Date: Time:	Received (signature):	M. Yang	Date: 8/7/95 Time: 1514

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 7/1/93

Shell Oil Chain of Custody

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Faith Daverin

Project: Shell 610 Market, Oakland

Enclosed are the results from samples received at Sequoia Analytical on August 7, 1995. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9508815 -01	SOLID, SS1-5.0	08/07/95	TRPH (SM 5520 E&F Mod.)
9508815 -01	SOLID, SS1-5.0	08/07/95	8240_S Volatile Organic Co
9508815 -01	SOLID, SS1-5.0	08/07/95	8270_S SemiVolatile Organi
9508815 -01	SOLID, SS1-5.0	08/07/95	Cadmium
9508815 -01	SOLID, SS1-5.0	08/07/95	Chromium
9508815 -01	SOLID, SS1-5.0	08/07/95	Nickel
9508815 -01	SOLID, SS1-5.0	08/07/95	Lead
9508815 -01	SOLID, SS1-5.0	08/07/95	Zinc
9508815 -02	SOLID, SS2-4.0	08/07/95	TRPH (SM 5520 E&F Mod.)
9508815 -02	SOLID, SS2-4.0	08/07/95	8240_S Volatile Organic Co
9508815 -02	SOLID, SS2-4.0	08/07/95	8270_S SemiVolatile Organi
9508815 -02	SOLID, SS2-4.0	08/07/95	Cadmium
9508815 -02	SOLID, SS2-4.0	08/07/95	Chromium
9508815 -02	SOLID, SS2-4.0	08/07/95	Nickel
9508815 -02	SOLID, SS2-4.0	08/07/95	Lead
9508815 -02	SOLID, SS2-4.0	08/07/95	Zinc
9508815 -03	SOLID, SS3-4.0	08/07/95	TRPH (SM 5520 E&F Mod.)
9508815 -03	SOLID, SS3-4.0	08/07/95	8240_S Volatile Organic Co
9508815 -03	SOLID, SS3-4.0	08/07/95	8270_S SemiVolatile Organi
9508815 -03	SOLID, SS3-4.0	08/07/95	Cadmium
9508815 -03	SOLID, SS3-4.0	08/07/95	Chromium

SEQUOIA ANALYTICAL

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9508815 -03	SOLID, SS3-4.0	08/07/95	Nickel
9508815 -03	SOLID, SS3-4.0	08/07/95	Lead
9508815 -03	SOLID, SS3-4.0	08/07/95	Zinc
9508815 -04	SOLID, SS4-5.0	08/07/95	TRPH (SM 5520 E&F Mod.)
9508815 -04	SOLID, SS4-5.0	08/07/95	8240_S Volatile Organic Co
9508815 -04	SOLID, SS4-5.0	08/07/95	8270_S SemiVolatile Organi
9508815 -04	SOLID, SS4-5.0	08/07/95	Cadmium
9508815 -04	SOLID, SS4-5.0	08/07/95	Chromium
9508815 -04	SOLID, SS4-5.0	08/07/95	Nickel
9508815 -04	SOLID, SS4-5.0	08/07/95	Lead
9508815 -04	SOLID, SS4-5.0	08/07/95	Zinc
9508815 -05	SOLID, SS5-5.0	08/07/95	TRPH (SM 5520 E&F Mod.)
9508815 -05	SOLID, SS5-5.0	08/07/95	8240_S Volatile Organic Co
9508815 -05	SOLID, SS5-5.0	08/07/95	8270_S SemiVolatile Organi
9508815 -05	SOLID, SS5-5.0	08/07/95	Cadmium
9508815 -05	SOLID, SS5-5.0	08/07/95	Chromium
9508815 -05	SOLID, SS5-5.0	08/07/95	Nickel
9508815 -05	SOLID, SS5-5.0	08/07/95	Lead
9508815 -05	SOLID, SS5-5.0	08/07/95	Zinc
9508815 -06	SOLID, SS6-4.0	08/07/95	TRPH (SM 5520 E&F Mod.)
9508815 -06	SOLID, SS6-4.0	08/07/95	8240_S Volatile Organic Co
9508815 -06	SOLID, SS6-4.0	08/07/95	8270_S SemiVolatile Organi
9508815 -06	SOLID, SS6-4.0	08/07/95	Cadmium
9508815 -06	SOLID, SS6-4.0	08/07/95	Chromium
9508815 -06	SOLID, SS6-4.0	08/07/95	Nickel

SEQUOIA ANALYTICAL

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9508815 -06	SOLID, SS6-4.0	08/07/95	Lead
9508815 -06	SOLID, SS6-4.0	08/07/95	Zinc

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Attention: Faith Daverin

Client Proj. ID: Shell 610 Market, Oakland

Lab Proj. ID: 9508815

Sampled: 08/07/95
Received: 08/07/95
Analyzed: see below

Reported: 08/22/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9508815-01				
Sample Desc : **SOLID,SS1-5.0**				
Cadmium	mg/Kg	08/16/95	0.50	N.D.
Chromium	**mg/Kg**	**08/16/95**	**0.50**	**52**
Lead	mg/Kg	08/16/95	5.0	N.D.
Nickel	**mg/Kg**	**08/16/95**	**2.5**	**39**
TRPH (SM 5520 E&F Mod.)	mg/Kg	08/18/95	50	N.D.
Zinc	**mg/Kg**	**08/16/95**	**0.50**	**26**
Lab No: 9508815-02				
Sample Desc : **SOLID,SS2-4.0**				
Cadmium	mg/Kg	08/18/95	0.50	N.D.
Chromium	**mg/Kg**	**08/18/95**	**0.50**	**36**
Lead	mg/Kg	08/18/95	5.0	N.D.
Nickel	**mg/Kg**	**08/18/95**	**2.5**	**16**
TRPH (SM 5520 E&F Mod.)	mg/Kg	08/18/95	50	N.D.
Zinc	**mg/Kg**	**08/18/95**	**0.50**	**11**
Lab No: 9508815-03				
Sample Desc : **SOLID,SS3-4.0**				
Cadmium	mg/Kg	08/18/95	0.50	N.D.
Chromium	**mg/Kg**	**08/18/95**	**0.50**	**36**
Lead	**mg/Kg**	**08/18/95**	**5.0**	**10**
Nickel	**mg/Kg**	**08/18/95**	**2.5**	**24**
TRPH (SM 5520 E&F Mod.)	mg/Kg	08/18/95	50	N.D.
Zinc	**mg/Kg**	**08/18/95**	**0.50**	**31**
Lab No: 9508815-04				
Sample Desc : **SOLID,SS4-5.0**				
Cadmium	mg/Kg	08/18/95	0.50	N.D.
Chromium	**mg/Kg**	**08/18/95**	**0.50**	**34**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Client Proj. ID: Shell 610 Market, Oakland
Lab Proj. ID: 9508815

Sampled: 08/07/95
Received: 08/07/95
Analyzed: see below

Attention: Faith Daverin

Reported: 08/22/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lead	mg/Kg	08/18/95	5.0	110
Nickel	mg/Kg	08/18/95	2.5	21
TRPH (SM 5520 E&F Mod.)	mg/Kg	08/18/95	50	220
Zinc	mg/Kg	08/18/95	0.50	110
Lab No: 9508815-05				
Sample Desc : **SOLID,SS5-5.0**				
Cadmium	mg/Kg	08/18/95	0.50	2.9
Chromium	mg/Kg	08/18/95	0.50	38
Lead	mg/Kg	08/18/95	5.0	290
Nickel	mg/Kg	08/18/95	2.5	25
TRPH (SM 5520 E&F Mod.)	mg/Kg	08/18/95	50	260
Zinc	mg/Kg	08/18/95	0.50	320
Lab No: 9508815-06				
Sample Desc : **SOLID,SS6-4.0**				
Cadmium	mg/Kg	08/18/95	0.50	0.86
Chromium	mg/Kg	08/18/95	0.50	35
Lead	mg/Kg	08/18/95	5.0	400
Nickel	mg/Kg	08/18/95	2.5	22
TRPH (SM 5520 E&F Mod.)	mg/Kg	08/18/95	50	170
Zinc	mg/Kg	08/18/95	0.50	260

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS1-5.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/15/95
	Analysis Method: EPA 8240	Analyzed: 08/15/95
Attention: Faith Daverin	Lab Number: 9508815-01	Reported: 08/22/95

QC Batch Number: MS0815958240EXA
Instrument ID: F3

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acetone	500	N.D.
Benzene	100	N.D.
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Ethylbenzene	100	N.D.
2-Hexanone	500	N.D.
Methylene chloride	250	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Vinyl acetate	250	N.D.
Vinyl chloride	100	N.D.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS1-5.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/15/95
	Analysis Method: EPA 8240	Analyzed: 08/15/95
Attention: Faith Daverin	Lab Number: 9508815-01	Reported: 08/22/95

QC Batch Number: MS0815958240EXA
Instrument ID: F3

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Total Xylenes	100	N.D.

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	70	121	91
Toluene-d8	81	117	98
4-Bromofluorobenzene	74	121	98

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS1-5.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/16/95
	Analysis Method: EPA 8270	Analyzed: 08/17/95
Attention: Faith Daverin	Lab Number: 9508815-01	Reported: 08/22/95

QC Batch Number: MS0814958270EXA
Instrument ID: H5

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	250	N.D.
Acenaphthylene	250	N.D.
Anthracene	250	N.D.
Benzoic Acid	500	N.D.
Benzo(a)anthracene	250	N.D.
Benzo(b)fluoranthene	250	N.D.
Benzo(k)fluoranthene	250	N.D.
Benzo(g,h,i)perylene	250	N.D.
Benzo(a)pyrene	250	N.D.
Benzyl alcohol	250	N.D.
Bis(2-chloroethoxy)methane	250	N.D.
Bis(2-chloroethyl)ether	250	N.D.
Bis(2-chloroisopropyl)ether	250	N.D.
Bis(2-ethylhexyl)phthalate	500	N.D.
4-Bromophenyl phenyl ether	250	N.D.
Butyl benzyl phthalate	250	N.D.
4-Chloroaniline	500	N.D.
2-Chloronaphthalene	250	N.D.
4-Chloro-3-methylphenol	250	N.D.
2-Chlorophenol	250	N.D.
4-Chlorophenyl phenyl ether	250	N.D.
Chrysene	250	N.D.
Dibenzo(a,h)anthracene	250	N.D.
Dibenzofuran	250	N.D.
Di-n-butyl phthalate	500	N.D.
1,2-Dichlorobenzene	250	N.D.
1,3-Dichlorobenzene	250	N.D.
1,4-Dichlorobenzene	250	N.D.
3,3-Dichlorobenzidine	500	N.D.
2,4-Dichlorophenol	250	N.D.
Diethyl phthalate	250	N.D.
2,4-Dimethylphenol	250	N.D.
Dimethyl phthalate	250	N.D.
4,6-Dinitro-2-methylphenol	500	N.D.
2,4-Dinitrophenol	500	N.D.
2,4-Dinitrotoluene	250	N.D.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS1-5.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/16/95
	Analysis Method: EPA 8270	Analyzed: 08/17/95
Attention: Faith Daverin	Lab Number: 9508815-01	Reported: 08/22/95

QC Batch Number: MS0814958270EXA
Instrument ID: H5

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
2,6-Dinitrotoluene	250	N.D.
Di-n-octyl phthalate	250	N.D.
Fluoranthene	250	N.D.
Fluorene	250	N.D.
Hexachlorobenzene	250	N.D.
Hexachlorobutadiene	250	N.D.
Hexachlorocyclopentadiene	500	N.D.
Hexachloroethane	250	N.D.
Indeno(1,2,3-cd)pyrene	250	N.D.
Isophorone	250	N.D.
2-Methylnaphthalene	250	N.D.
2-Methylphenol	250	N.D.
4-Methylphenol	250	N.D.
Naphthalene	250	N.D.
2-Nitroaniline	500	N.D.
3-Nitroaniline	500	N.D.
4-Nitroaniline	500	N.D.
Nitrobenzene	250	N.D.
2-Nitrophenol	250	N.D.
4-Nitrophenol	500	N.D.
N-Nitrosodiphenylamine	250	N.D.
N-Nitroso-di-n-propylamine	250	N.D.
Pentachlorophenol	500	N.D.
Phenanthrene	250	N.D.
Phenol	250	N.D.
Pyrene	250	N.D.
1,2,4-Trichlorobenzene	250	N.D.
2,4,5-Trichlorophenol	500	N.D.
2,4,6-Trichlorophenol	250	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	25	121	60
Phenol-d5	24	113	64
Nitrobenzene-d5	23	120	57
2-Fluorobiphenyl	30	115	61
2,4,6-Tribromophenol	19	122	57
p-Terphenyl-d14	18	137	56

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS2-4.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/15/95
	Analysis Method: EPA 8240	Analyzed: 08/15/95
Attention: Faith Daverin	Lab Number: 9508815-02	Reported: 08/22/95

QC Batch Number: SM0815958240EXA
Instrument ID: F3

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acetone	500	N.D.
Benzene	100	N.D.
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Ethylbenzene	100	N.D.
2-Hexanone	500	N.D.
Methylene chloride	250	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Vinyl acetate	250	N.D.
Vinyl chloride	100	N.D.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS2-4.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/15/95
	Analysis Method: EPA 8240	Analyzed: 08/15/95
Attention: Faith Daverin	Lab Number: 9508815-02	Reported: 08/22/95

QC Batch Number: SM0815958240EXA
Instrument ID: F3

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Total Xylenes	100	N.D.

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	70	121	92
Toluene-d8	81	117	100
4-Bromofluorobenzene	74	121	93

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS2-4.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/16/95
	Analysis Method: EPA 8270	Analyzed: 08/17/95
Attention: Faith Daverin	Lab Number: 9508815-02	Reported: 08/22/95

QC Batch Number: MS0814958270EXA
Instrument ID: H5

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	250	N.D.
Acenaphthylene	250	N.D.
Anthracene	250	N.D.
Benzoic Acid	500	N.D.
Benzo(a)anthracene	250	N.D.
Benzo(b)fluoranthene	250	N.D.
Benzo(k)fluoranthene	250	N.D.
Benzo(g,h,i)perylene	250	N.D.
Benzo(a)pyrene	250	N.D.
Benzyl alcohol	250	N.D.
Bis(2-chloroethoxy)methane	250	N.D.
Bis(2-chloroethyl)ether	250	N.D.
Bis(2-chloroisopropyl)ether	250	N.D.
Bis(2-ethylhexyl)phthalate	500	N.D.
4-Bromophenyl phenyl ether	250	N.D.
Butyl benzyl phthalate	250	N.D.
4-Chloroaniline	500	N.D.
2-Chloronaphthalene	250	N.D.
4-Chloro-3-methylphenol	250	N.D.
2-Chlorophenol	250	N.D.
4-Chlorophenyl phenyl ether	250	N.D.
Chrysene	250	N.D.
Dibenzo(a,h)anthracene	250	N.D.
Dibenzofuran	250	N.D.
Di-n-butyl phthalate	500	N.D.
1,2-Dichlorobenzene	250	N.D.
1,3-Dichlorobenzene	250	N.D.
1,4-Dichlorobenzene	250	N.D.
3,3-Dichlorobenzidine	500	N.D.
2,4-Dichlorophenol	250	N.D.
Diethyl phthalate	250	N.D.
2,4-Dimethylphenol	250	N.D.
Dimethyl phthalate	250	N.D.
4,6-Dinitro-2-methylphenol	500	N.D.
2,4-Dinitrophenol	500	N.D.
2,4-Dinitrotoluene	250	N.D.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS2-4.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/16/95
	Analysis Method: EPA 8270	Analyzed: 08/17/95
Attention: Faith Daverin	Lab Number: 9508815-02	Reported: 08/22/95

QC Batch Number: MS0814958270EXA
Instrument ID: H5

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
2,6-Dinitrotoluene	250	N.D.
Di-n-octyl phthalate	250	N.D.
Fluoranthene	250	N.D.
Fluorene	250	N.D.
Hexachlorobenzene	250	N.D.
Hexachlorobutadiene	250	N.D.
Hexachlorocyclopentadiene	500	N.D.
Hexachloroethane	250	N.D.
Indeno(1,2,3-cd)pyrene	250	N.D.
Isophorone	250	N.D.
2-Methylnaphthalene	250	N.D.
2-Methylphenol	250	N.D.
4-Methylphenol	250	N.D.
Naphthalene	250	N.D.
2-Nitroaniline	500	N.D.
3-Nitroaniline	500	N.D.
4-Nitroaniline	500	N.D.
Nitrobenzene	250	N.D.
2-Nitrophenol	250	N.D.
4-Nitrophenol	500	N.D.
N-Nitrosodiphenylamine	250	N.D.
N-Nitroso-di-n-propylamine	250	N.D.
Pentachlorophenol	500	N.D.
Phenanthrene	250	N.D.
Phenol	250	N.D.
Pyrene	250	N.D.
1,2,4-Trichlorobenzene	250	N.D.
2,4,5-Trichlorophenol	500	N.D.
2,4,6-Trichlorophenol	250	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	25	121	62
Phenol-d5	24	113	67
Nitrobenzene-d5	23	120	61
2-Fluorobiphenyl	30	115	65
2,4,6-Tribromophenol	19	122	60
p-Terphenyl-d14	18	137	50

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS3-4.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/15/95
	Analysis Method: EPA 8240	Analyzed: 08/15/95
Attention: Faith Daverin	Lab Number: 9508815-03	Reported: 08/22/95

QC Batch Number: MS0815958240EXA
Instrument ID: F3

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acetone	500	N.D.
Benzene	100	N.D.
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Ethylbenzene	100	N.D.
2-Hexanone	500	N.D.
Methylene chloride	250	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Vinyl acetate	250	N.D.
Vinyl chloride	100	N.D.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS3-4.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/15/95
	Analysis Method: EPA 8240	Analyzed: 08/15/95
Attention: Faith Daverin	Lab Number: 9508815-03	Reported: 08/22/95

QC Batch Number: MS0815958240EXA
Instrument ID: F3

Analyte	Detection Limit ug/Kg		Sample Results ug/Kg
Total Xylenes	100		N.D.
Surrogates	**Control Limits %**		**% Recovery**
1,2-Dichloroethane-d4	70	121	93
Toluene-d8	81	117	97
4-Bromofluorobenzene	74	121	96

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS3-4.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/16/95
	Analysis Method: EPA 8270	Analyzed: 08/17/95
Attention: Faith Daverin	Lab Number: 9508815-03	Reported: 08/22/95

QC Batch Number: MS0814958270EXA
Instrument ID: H5

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	250	N.D.
Acenaphthylene	250	N.D.
Anthracene	250	N.D.
Benzoic Acid	500	N.D.
Benzo(a)anthracene	250	N.D.
Benzo(b)fluoranthene	250	N.D.
Benzo(k)fluoranthene	250	N.D.
Benzo(g,h,i)perylene	250	N.D.
Benzo(a)pyrene	250	N.D.
Benzyl alcohol	250	N.D.
Bis(2-chloroethoxy)methane	250	N.D.
Bis(2-chloroethyl)ether	250	N.D.
Bis(2-chloroisopropyl)ether	250	N.D.
Bis(2-ethylhexyl)phthalate	500	N.D.
4-Bromophenyl phenyl ether	250	N.D.
Butyl benzyl phthalate	250	N.D.
4-Chloroaniline	500	N.D.
2-Chloronaphthalene	250	N.D.
4-Chloro-3-methylphenol	250	N.D.
2-Chlorophenol	250	N.D.
4-Chlorophenyl phenyl ether	250	N.D.
Chrysene	250	N.D.
Dibenzo(a,h)anthracene	250	N.D.
Dibenzofuran	250	N.D.
Di-n-butyl phthalate	500	N.D.
1,2-Dichlorobenzene	250	N.D.
1,3-Dichlorobenzene	250	N.D.
1,4-Dichlorobenzene	250	N.D.
3,3-Dichlorobenzidine	500	N.D.
2,4-Dichlorophenol	250	N.D.
Diethyl phthalate	250	N.D.
2,4-Dimethylphenol	250	N.D.
Dimethyl phthalate	250	N.D.
4,6-Dinitro-2-methylphenol	500	N.D.
2,4-Dinitrophenol	500	N.D.
2,4-Dinitrotoluene	250	N.D.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS3-4.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/16/95
	Analysis Method: EPA 8270	Analyzed: 08/17/95
Attention: Faith Daverin	Lab Number: 9508815-03	Reported: 08/22/95

QC Batch Number: MS0814958270EXA
Instrument ID: H5

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
2,6-Dinitrotoluene	250	N.D.
Di-n-octyl phthalate	250	N.D.
Fluoranthene	250	N.D.
Fluorene	250	N.D.
Hexachlorobenzene	250	N.D.
Hexachlorobutadiene	250	N.D.
Hexachlorocyclopentadiene	500	N.D.
Hexachloroethane	250	N.D.
Indeno(1,2,3-cd)pyrene	250	N.D.
Isophorone	250	N.D.
2-Methylnaphthalene	250	N.D.
2-Methylphenol	250	N.D.
4-Methylphenol	250	N.D.
Naphthalene	250	N.D.
2-Nitroaniline	500	N.D.
3-Nitroaniline	500	N.D.
4-Nitroaniline	500	N.D.
Nitrobenzene	250	N.D.
2-Nitrophenol	250	N.D.
4-Nitrophenol	500	N.D.
N-Nitrosodiphenylamine	250	N.D.
N-Nitroso-di-n-propylamine	250	N.D.
Pentachlorophenol	500	N.D.
Phenanthrene	250	N.D.
Phenol	250	N.D.
Pyrene	250	N.D.
1,2,4-Trichlorobenzene	250	N.D.
2,4,5-Trichlorophenol	500	N.D.
2,4,6-Trichlorophenol	250	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	25	121	68
Phenol-d5	24	113	72
Nitrobenzene-d5	23	120	66
2-Fluorobiphenyl	30	115	71
2,4,6-Tribromophenol	19	122	67
p-Terphenyl-d14	18	137	72

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS4-5.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/15/95
	Analysis Method: EPA 8240	Analyzed: 08/15/95
Attention: Faith Daverin	Lab Number: 9508815-04	Reported: 08/22/95

QC Batch Number: MS0815958240EXA
Instrument ID: F3

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acetone	500	N.D.
Benzene	100	N.D.
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Ethylbenzene	100	N.D.
2-Hexanone	500	N.D.
Methylene chloride	250	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Vinyl acetate	250	N.D.
Vinyl chloride	100	N.D.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS4-5.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/15/95
	Analysis Method: EPA 8240	Analyzed: 08/15/95
Attention: Faith Daverin	Lab Number: 9508815-04	Reported: 08/22/95

QC Batch Number: MS0815958240EXA
Instrument ID: F3

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Total Xylenes	100	N.D.

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	70	121	94
Toluene-d8	81	117	102
4-Bromofluorobenzene	74	121	98

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS4-5.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/16/95
	Analysis Method: EPA 8270	Analyzed: 08/17/95
Attention: Faith Daverin	Lab Number: 9508815-04	Reported: 08/22/95

QC Batch Number: MS0814958270EXA
Instrument ID: H5

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	250	N.D.
Acenaphthylene	250	N.D.
Anthracene	250	N.D.
Benzoic Acid	500	N.D.
Benzo(a)anthracene	250	N.D.
Benzo(b)fluoranthene	250	N.D.
Benzo(k)fluoranthene	250	N.D.
Benzo(g,h,i)perylene	250	N.D.
Benzo(a)pyrene	250	N.D.
Benzyl alcohol	250	N.D.
Bis(2-chloroethoxy)methane	250	N.D.
Bis(2-chloroethyl)ether	250	N.D.
Bis(2-chloroisopropyl)ether	250	N.D.
Bis(2-ethylhexyl)phthalate	500	N.D.
4-Bromophenyl phenyl ether	250	N.D.
Butyl benzyl phthalate	250	N.D.
4-Chloroaniline	500	N.D.
2-Chloronaphthalene	250	N.D.
4-Chloro-3-methylphenol	250	N.D.
2-Chlorophenol	250	N.D.
4-Chlorophenyl phenyl ether	250	N.D.
Chrysene	250	N.D.
Dibenzo(a,h)anthracene	250	N.D.
Dibenzofuran	250	N.D.
Di-n-butyl phthalate	500	N.D.
1,2-Dichlorobenzene	250	N.D.
1,3-Dichlorobenzene	250	N.D.
1,4-Dichlorobenzene	250	N.D.
3,3-Dichlorobenzidine	500	N.D.
2,4-Dichlorophenol	250	N.D.
Diethyl phthalate	250	N.D.
2,4-Dimethylphenol	250	N.D.
Dimethyl phthalate	250	N.D.
4,6-Dinitro-2-methylphenol	500	N.D.
2,4-Dinitrophenol	500	N.D.
2,4-Dinitrotoluene	250	N.D.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS4-5.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/16/95
	Analysis Method: EPA 8270	Analyzed: 08/17/95
Attention: Faith Daverin	Lab Number: 9508815-04	Reported: 08/22/95

QC Batch Number: MS0814958270EXA
Instrument ID: H5

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
2,6-Dinitrotoluene	250	N.D.
Di-n-octyl phthalate	250	N.D.
Fluoranthene	250	N.D.
Fluorene	250	N.D.
Hexachlorobenzene	250	N.D.
Hexachlorobutadiene	250	N.D.
Hexachlorocyclopentadiene	500	N.D.
Hexachloroethane	250	N.D.
Indeno(1,2,3-cd)pyrene	250	N.D.
Isophorone	250	N.D.
2-Methylnaphthalene	250	N.D.
2-Methylphenol	250	N.D.
4-Methylphenol	250	N.D.
Naphthalene	250	N.D.
2-Nitroaniline	500	N.D.
3-Nitroaniline	500	N.D.
4-Nitroaniline	500	N.D.
Nitrobenzene	250	N.D.
2-Nitrophenol	250	N.D.
4-Nitrophenol	500	N.D.
N-Nitrosodiphenylamine	250	N.D.
N-Nitroso-di-n-propylamine	250	N.D.
Pentachlorophenol	500	N.D.
Phenanthrene	250	N.D.
Phenol	250	N.D.
Pyrene	250	N.D.
1,2,4-Trichlorobenzene	250	N.D.
2,4,5-Trichlorophenol	500	N.D.
2,4,6-Trichlorophenol	250	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	25	121	61
Phenol-d5	24	113	63
Nitrobenzene-d5	23	120	58
2-Fluorobiphenyl	30	115	63
2,4,6-Tribromophenol	19	122	56
p-Terphenyl-d14	18	137	52

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS5-5.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/15/95
	Analysis Method: EPA 8240	Analyzed: 08/15/95
Attention: Faith Daverin	Lab Number: 9508815-05	Reported: 08/22/95

QC Batch Number: MS0815958240EXa
Instrument ID: F3

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acetone	500	N.D.
Benzene	100	N.D.
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Ethylbenzene	100	N.D.
2-Hexanone	500	N.D.
Methylene chloride	250	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Vinyl acetate	250	N.D.
Vinyl chloride	100	N.D.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS5-5.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/15/95
	Analysis Method: EPA 8240	Analyzed: 08/15/95
Attention: Faith Daverin	Lab Number: 9508815-05	Reported: 08/22/95

QC Batch Number: MS0815958240EXa
Instrument ID: F3

Analyte	Detection Limit ug/Kg		Sample Results ug/Kg
Total Xylenes	100		N.D.
Surrogates	**Control Limits %**		**% Recovery**
1,2-Dichloroethane-d4	70	121	90
Toluene-d8	81	117	99
4-Bromofluorobenzene	74	121	95

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS5-5.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/16/95
	Analysis Method: EPA 8270	Analyzed: 08/17/95
Attention: Faith Daverin	Lab Number: 9508815-05	Reported: 08/22/95

QC Batch Number: MS0814958270EXA
Instrument ID: H5

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	1250	N.D.
Acenaphthylene	1250	N.D.
Anthracene	1250	N.D.
Benzoic Acid	2500	N.D.
Benzo(a)anthracene	1250	N.D.
Benzo(b)fluoranthene	1250	N.D.
Benzo(k)fluoranthene	1250	N.D.
Benzo(g,h,i)perylene	1250	N.D.
Benzo(a)pyrene	1250	N.D.
Benzyl alcohol	1250	N.D.
Bis(2-chloroethoxy)methane	1250	N.D.
Bis(2-chloroethyl)ether	1250	N.D.
Bis(2-chloroisopropyl)ether	1250	N.D.
Bis(2-ethylhexyl)phthalate	2500	N.D.
4-Bromophenyl phenyl ether	1250	N.D.
Butyl benzyl phthalate	1250	N.D.
4-Chloroaniline	2500	N.D.
2-Chloronaphthalene	1250	N.D.
4-Chloro-3-methylphenol	1250	N.D.
2-Chlorophenol	1250	N.D.
4-Chlorophenyl phenyl ether	1250	N.D.
Chrysene	1250	N.D.
Dibenzo(a,h)anthracene	1250	N.D.
Dibenzofuran	1250	N.D.
Di-n-butyl phthalate	2500	N.D.
1,2-Dichlorobenzene	1250	N.D.
1,3-Dichlorobenzene	1250	N.D.
1,4-Dichlorobenzene	1250	N.D.
3,3-Dichlorobenzidine	2500	N.D.
2,4-Dichlorophenol	1250	N.D.
Diethyl phthalate	1250	N.D.
2,4-Dimethylphenol	1250	N.D.
Dimethyl phthalate	1250	N.D.
4,6-Dinitro-2-methylphenol	2500	N.D.
2,4-Dinitrophenol	2500	N.D.
2,4-Dinitrotoluene	1250	N.D.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Attention: Faith Daverin

Client Proj. ID: Shell 610 Market, Oakland
Sample Descript: SS5-5.0
Matrix: SOLID
Analysis Method: EPA 8270
Lab Number: 9508815-05

Sampled: 08/07/95
Received: 08/07/95
Extracted: 08/16/95
Analyzed: 08/17/95
Reported: 08/22/95

QC Batch Number: MS0814958270EXA
Instrument ID: H5

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
2,6-Dinitrotoluene	1250	N.D.
Di-n-octyl phthalate	1250	N.D.
Fluoranthene	1250	N.D.
Fluorene	1250	N.D.
Hexachlorobenzene	1250	N.D.
Hexachlorobutadiene	1250	N.D.
Hexachlorocyclopentadiene	2500	N.D.
Hexachloroethane	1250	N.D.
Indeno(1,2,3-cd)pyrene	1250	N.D.
Isophorone	1250	N.D.
2-Methylnaphthalene	1250	N.D.
2-Methylphenol	1250	N.D.
4-Methylphenol	1250	N.D.
Naphthalene	1250	N.D.
2-Nitroaniline	2500	N.D.
3-Nitroaniline	2500	N.D.
4-Nitroaniline	2500	N.D.
Nitrobenzene	1250	N.D.
2-Nitrophenol	1250	N.D.
4-Nitrophenol	2500	N.D.
N-Nitrosodiphenylamine	1250	N.D.
N-Nitroso-di-n-propylamine	1250	N.D.
Pentachlorophenol	2500	N.D.
Phenanthrene	1250	N.D.
Phenol	1250	N.D.
Pyrene	1250	N.D.
1,2,4-Trichlorobenzene	1250	N.D.
2,4,5-Trichlorophenol	2500	N.D.
2,4,6-Trichlorophenol	1250	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	25	121	80
Phenol-d5	24	113	82
Nitrobenzene-d5	23	120	75
2-Fluorobiphenyl	30	115	79
2,4,6-Tribromophenol	19	122	63
p-Terphenyl-d14	18	137	43

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS6-4.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/15/95
	Analysis Method: EPA 8240	Analyzed: 08/15/95
Attention: Faith Daverin	Lab Number: 9508815-06	Reported: 08/22/95

QC Batch Number: MS0815958240EXA
Instrument ID: F3

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acetone	500	N.D.
Benzene	100	N.D.
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Ethylbenzene	100	N.D.
2-Hexanone	500	N.D.
Methylene chloride	250	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Vinyl acetate	250	N.D.
Vinyl chloride	100	N.D.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS6-4.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/15/95
	Analysis Method: EPA 8240	Analyzed: 08/15/95
Attention: Faith Daverin	Lab Number: 9508815-06	Reported: 08/22/95

QC Batch Number: MS0815958240EXA
Instrument ID: F3

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Total Xylenes	100	N.D.

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	70	121	94
Toluene-d8	81	117	103
4-Bromofluorobenzene	74	121	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS6-4.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/16/95
	Analysis Method: EPA 8270	Analyzed: 08/17/95
Attention: Faith Daverin	Lab Number: 9508815-06	Reported: 08/22/95

QC Batch Number: MS0814958270EXA
Instrument ID: H5

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	1250	N.D.
Acenaphthylene	1250	N.D.
Anthracene	1250	N.D.
Benzoic Acid	2500	N.D.
Benzo(a)anthracene	1250	N.D.
Benzo(b)fluoranthene	1250	N.D.
Benzo(k)fluoranthene	1250	N.D.
Benzo(g,h,i)perylene	1250	N.D.
Benzo(a)pyrene	1250	N.D.
Benzyl alcohol	1250	N.D.
Bis(2-chloroethoxy)methane	1250	N.D.
Bis(2-chloroethyl)ether	1250	N.D.
Bis(2-chloroisopropyl)ether	1250	N.D.
Bis(2-ethylhexyl)phthalate	2500	N.D.
4-Bromophenyl phenyl ether	1250	N.D.
Butyl benzyl phthalate	1250	N.D.
4-Chloroaniline	2500	N.D.
2-Chloronaphthalene	1250	N.D.
4-Chloro-3-methylphenol	1250	N.D.
2-Chlorophenol	1250	N.D.
4-Chlorophenyl phenyl ether	1250	N.D.
Chrysene	1250	N.D.
Dibenzo(a,h)anthracene	1250	N.D.
Dibenzofuran	1250	N.D.
Di-n-butyl phthalate	2500	N.D.
1,2-Dichlorobenzene	1250	N.D.
1,3-Dichlorobenzene	1250	N.D.
1,4-Dichlorobenzene	1250	N.D.
3,3-Dichlorobenzidine	2500	N.D.
2,4-Dichlorophenol	1250	N.D.
Diethyl phthalate	1250	N.D.
2,4-Dimethylphenol	1250	N.D.
Dimethyl phthalate	1250	N.D.
4,6-Dinitro-2-methylphenol	2500	N.D.
2,4-Dinitrophenol	2500	N.D.
2,4-Dinitrotoluene	1250	N.D.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market, Oakland	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SS6-4.0	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/16/95
	Analysis Method: EPA 8270	Analyzed: 08/17/95
Attention: Faith Daverin	Lab Number: 9508815-06	Reported: 08/22/95

QC Batch Number: MS0814958270EXA
Instrument ID: H5

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
2,6-Dinitrotoluene	1250	N.D.
Di-n-octyl phthalate	1250	N.D.
Fluoranthene	1250	N.D.
Fluorene	1250	N.D.
Hexachlorobenzene	1250	N.D.
Hexachlorobutadiene	1250	N.D.
Hexachlorocyclopentadiene	2500	N.D.
Hexachloroethane	1250	N.D.
Indeno(1,2,3-cd)pyrene	1250	N.D.
Isophorone	1250	N.D.
2-Methylnaphthalene	1250	N.D.
2-Methylphenol	1250	N.D.
4-Methylphenol	1250	N.D.
Naphthalene	1250	N.D.
2-Nitroaniline	2500	N.D.
3-Nitroaniline	2500	N.D.
4-Nitroaniline	2500	N.D.
Nitrobenzene	1250	N.D.
2-Nitrophenol	1250	N.D.
4-Nitrophenol	2500	N.D.
N-Nitrosodiphenylamine	1250	N.D.
N-Nitroso-di-n-propylamine	1250	N.D.
Pentachlorophenol	2500	N.D.
Phenanthrene	1250	N.D.
Phenol	1250	N.D.
Pyrene	1250	N.D.
1,2,4-Trichlorobenzene	1250	N.D.
2,4,5-Trichlorophenol	2500	N.D.
2,4,6-Trichlorophenol	1250	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	25	121	82
Phenol-d5	24	113	81
Nitrobenzene-d5	23	120	82
2-Fluorobiphenyl	30	115	75
2,4,6-Tribromophenol	19	122	62
p-Terphenyl-d14	18	137	42

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Faith Daverin

Client Project ID: Shell 610 Market, Oakland
Matrix: Solid
Work Order #: 9508815 -01- 06

Reported: Aug 22, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Phenol	2-Chlorophenol	1,4-Dichloro benzene	N-Nitroso-Di-N-propylamine
QC Batch#:	MS0814958270EXA	MS0814958270EXA	MS0814958270EXA	MS0814958270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Analyst:	E. Manuel	E. Manuel	E. Manuel	E. Manuel
MS/MSD #:	950857209	950857209	950857209	950857209
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/14/95	8/14/95	8/14/95	8/14/95
Analyzed Date:	8/17/95	8/17/95	8/17/95	8/17/95
Instrument I.D.#:	F4	F4	F4	F4
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
Result:	2600	2500	2200	2700
MS % Recovery:	79	76	67	82
Dup. Result:	2800	2700	2400	2900
MSD % Recov.:	85	82	73	88
RPD:	7.4	7.7	8.7	7.1
RPD Limit:	0-50	0-50	0-50	0-50
LCS #:	BLK081495	BLK081495	BLK081495	BLK081495
Prepared Date:	8/14/95	8/14/95	8/14/95	8/14/95
Analyzed Date:	8/17/95	8/17/95	8/17/95	8/17/95
Instrument I.D.#:	F4	F4	F4	F4
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
LCS Result:	2400	2300	2200	2500
LCS % Recov.:	73	70	67	76
MS/MSD LCS Control Limits	5-112	23-134	20-124	DL-230

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Project ID:	Shell 610 Market, Oakland	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9508815-01-06	Reported: Aug 22, 1995

QUALITY CONTROL DATA REPORT

Analyte:	1,2,4-Trichloro benzene	4-Chloro-3 Methylphenol	Acenaphthene	4-Nitrophenol
QC Batch#:	MS0814958270EXA	MS0814958270EXA	MS0814958270EXA	MS0814958270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Analyst:	E. Manuel	E. Manuel	E. Manuel	E. Manuel
MS/MSD #:	950857209	950857209	950857209	950857209
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/14/95	8/14/95	8/14/95	8/14/95
Analyzed Date:	8/17/95	8/17/95	8/17/95	8/17/95
Instrument I.D.#:	F4	F4	F4	F4
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
Result:	2500	2500	2400	2400
MS % Recovery:	76	76	73	73
Dup. Result:	2600	2700	2500	2500
MSD % Recov.:	79	82	76	76
RPD:	3.9	7.7	4.1	4.1
RPD Limit:	0-50	0-50	0-50	0-50
LCS #:	BLK081495	BLK081495	BLK081495	BLK081495
Prepared Date:	8/14/95	8/14/95	8/14/95	8/14/95
Analyzed Date:	8/17/95	8/17/95	8/17/95	8/17/95
Instrument I.D.#:	F4	F4	F4	F4
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
LCS Result:	2400	2300	2300	1900
LCS % Recov.:	73	70	70	58
MS/MSD LCS Control Limits	44-142	22-147	47-145	DL-132

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Project ID:	Shell 610 Market, Oakland	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9508815-01-06	Reported: Aug 22, 1995

QUALITY CONTROL DATA REPORT

Analyte:	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
QC Batch#:	MS0814958270EXA	MS0814958270EXA	MS0814958270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550
Analyst:	E. Manuel	E. Manuel	E. Manuel
MS/MSD #:	950857209	950857209	950857209
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	8/14/95	8/14/95	8/14/95
Analyzed Date:	8/17/95	8/17/95	8/17/95
Instrument I.D.#:	F4	F4	F4
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
Result:	2300	1000	2100
MS % Recovery:	70	30	64
Dup. Result:	2400	1100	2200
MSD % Recov.:	73	33	67
RPD:	4.3	10	4.7
RPD Limit:	0-50	0-50	0-50

LCS #:	BLK081495	BLK081495	BLK081495
Prepared Date:	8/14/95	8/14/95	8/14/95
Analyzed Date:	8/17/95	8/17/95	8/17/95
Instrument I.D.#:	F4	F4	F4
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
LCS Result:	2200	2100	1700
LCS % Recov.:	67	64	52

MS/MSD LCS Control Limits	39-139	14-176	52-115

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Project ID:	Shell 610 Market, Oakland	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9508815-01-06	Reported: Aug 22, 1995

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	MS0815958240EXA	MS0815958240EXA	MS0815958240EXA	MS0815958240EXA	MS0815958240EXA
Analy. Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Prep. Method:	N.A.	N.A.	N.A.	N.A.	N.A.
Analyst:	M. Williams	M. Williams	M. Williams	M. Williams	M. Williams
MS/MSD #:	950881501	950881501	950881501	950881501	950881501
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	N.A.	N.A.	N.A.	N.A.	N.A.
Analyzed Date:	8/15/95	8/15/95	8/15/95	8/15/95	8/15/95
Instrument I.D.#:	MSF3	MSF3	MSF3	MSF3	MSF3
Conc. Spiked:	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg
Result:	2200	2300	2400	2400	2400
MS % Recovery:	88	92	96	96	96
Dup. Result:	2400	2500	2600	2700	2600
MSD % Recov.:	96	100	104	108	104
RPD:	8.7	8.3	8.0	12	8.0
RPD Limit:	0-50	0-50	0-50	0-50	0-50

LCS #:					
Prepared Date:					
Analyzed Date:					
Instrument I.D.#:					
Conc. Spiked:					
LCS Result:					
LCS % Recov.:					

MS/MSD LCS Control Limits	DL-234	71-157	37-151	47-150	37-160

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Project ID:	Shell 610 Market, Oakland	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9508815-01- 06	Reported: Aug 22, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0815956010MDA	ME0815956010MDA	ME0815956010MDA	ME0815956010MDA
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
MS/MSD #:	950881501	950881501	950881501	950881501
Sample Conc.:	0.53	N.D.	52	39
Prepared Date:	8/15/95	8/15/95	8/15/95	8/15/95
Analyzed Date:	8/15/95	8/15/95	8/15/95	8/15/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
Result:	110	100	150	140
MS % Recovery:	109	100	98	101
Dup. Result:	110	100	140	140
MSD % Recov.:	109	100	88	101
RPD:	0.0	0.0	6.9	0.0
RPD Limit:	0-30	0-30	0-30	0-30
LCS #:	BLK081595	BLK081595	BLK081595	BLK081595
Prepared Date:	8/15/95	8/15/95	8/15/95	8/15/95
Analyzed Date:	8/15/95	8/15/95	8/15/95	8/15/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
LCS Result:	110	110	110	110
LCS % Recov.:	110	110	110	110
MS/MSD LCS Control Limits	75-125	75-125	75-125	75-125

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Project ID:	Shell 610 Market, Oakland	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9508815-01-06	Reported: Aug 22, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Total Recoverable Petroleum Hydrocabons
QC Batch#:	OP0817955520EXA
Analy. Method:	SM 5520EF MOD
Prep. Method:	EPA 3550

Analyst:	C. Garde
MS/MSD #:	950881504
Sample Conc.:	220
Prepared Date:	8/17/95
Analyzed Date:	8/18/95
Instrument I.D.#:	MANUAL
Conc. Spiked:	500 mg/Kg
Result:	560
MS % Recovery:	68
Dup. Result:	630
MSD % Recov.:	82
RPD:	12
RPD Limit:	0-50

LCS #:	BLK081795
Prepared Date:	8/17/95
Analyzed Date:	8/18/95
Instrument I.D.#:	MANUAL
Conc. Spiked:	500 mg/Kg
LCS Result:	430
LCS % Recov.:	86

MS/MSD LCS Control Limits	60-140 / 70-110

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No:_____

Date: 8/7/95
Page 1 of

Site Address: 610 Market Street, Oakland, CA
WIC#: 204-5508-5702
Shell Engineer: Dan Kirk
Phone No.: Fax #:
Consultant Name & Address: WEISS ASSOCIATES 5500 SHELLMOUND ST EMERYVILLE CA 94608
Consultant Contact: Faith Daveen
Phone No.: (510) 547-5420 Fax #: 547-5043
WA JOB # 81-1103-9
Comments: Confirmation Soil Samples
Sampled by: Faith Daveen
Printed Name: Faith Daveen

LAB: Sequoia

CHECK ONE (1) BOX ONLY — CT/DI — TURN AROUND TIME

	CT/DI	TURN AROUND TIME
G.W. Monitoring	4461	24 hours
Site Investigation	4441	48 hours
Soil Classify/Disposal	4462	15 days (Normal)
Water Classify/Disposal	4463	Other 5-Day
Soil/Air Rem. or Sys. O & M	4452	
Water Rem. or Sys. O & M	4453	
Other		

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

UST AGENCY: _____

Analysis Required

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	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SS1-5.0	8/7/95		X			1						X				N		
SS2-4.0	"		X			1						X				N		
SS3-4.0	"		X			1						X				N		
SS4-5.0	"		X			1						X				N		
SS5-5.0	"		X			1						X				N		
SS6-4.0	"		X			1						X				N		

	Printed Name:	Date:	Time:	Received (signature):	Printed Name:	Date:	Time:
Relinquished By (signature): Faith Daveen	Faith Daveen	8/7/95	1345		W. Jones		
Relinquished By (signature):	Printed Name:	Date:	Time:	Received (signature):	Printed Name:	Date:	Time:
Relinquished By (signature):	Printed Name:	Date:	Time:	Received (signature):	Printed Name:	Date:	Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

ATTACHMENT B

SOIL DISPOSAL CONFIRMATION AND CERTIFIED ANALYTICAL REPORT FOR STOCKPILE SAMPLES

DISPOSAL CONFIRMATION

Consultant:	WEISS ASSOCIATES
Contact:	FAITH DAVERIN
Phone/Fax:	(510) 547-5420 FAX (510) 547-5043
Client:	SHELL OIL CO. - JEFF BYRAM
Station #/Wic #:	204-5508-5702+4442
Site Address:	610 NMARKET STREET
City/State:	OAKLAND, CA
Estimated YD/Ton:	2-3 LOADS
Actual YD/Ton:	34.32 TONS
Disposal Facility:	LAIDLAW ENVIRONMENTAL
Disposal Date:	OCTOBER 11, 1995
Contact:	CHARLES
Phone #:	(805) 762-7372
Hauler:	MANLEY & SONS TRUCKING, INC.
Contact:	TIM A. MANLEY
Phone #:	(916) 381-6864
Fax #:	(916) 381-1573

Date & Time Faxed

3657

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Faith Daverin

Project: Shell 81-1103-9

Enclosed are the results from samples received at Sequoia Analytical on August 7, 1995. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
950842901	SOLID, SP-1	8/3/95	TPHGB Purgeable TPH/BTEX
950842902	SOLID, SP-2	8/3/95	TPHGB Purgeable TPH/BTEX
950842903	SOLID, SP-3	8/3/95	TPHGB Purgeable TPH/BTEX
950842904	SOLID, SP-4	8/3/95	Organic Lead TTLC Metals TPHGB Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

for

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Attention: Faith Daverin

Client Proj. ID: Shell 81-1103-9
Lab Proj. ID: 9508429

Sampled: 08/03/95
Received: 08/07/95
Analyzed: see below

Reported: 08/15/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9508429-04 Sample Desc : **SOLID,SP-4**				
Organic Lead	mg/Kg	08/15/95	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 81-1103-9	Sampled: 08/03/95
5500 Shellmound	Sample Descript: SP-1	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/08/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/08/95
Attention: Faith Daverin	Lab Number: 9508429-01	Reported: 08/15/95

QC Batch Number: GC080895BTEXEXC
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**20**	**51**
Benzene	0.10	N.D.
Toluene	0.10	N.D.
Ethyl Benzene	0.10	N.D.
Xylenes (Total)	**0.10**	**4.7**
Chromatogram Pattern:		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	114

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 81-1103-9	Sampled: 08/03/95
5500 Shellmound	Sample Descript: SP-2	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/08/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/08/95
Attention: Faith Daverin	Lab Number: 9508429-02	Reported: 08/15/95

QC Batch Number: GC080895BTEXEXC
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**1.3**
Benzene	0.0050	N.D.
Toluene	**0.0050**	**0.011**
Ethyl Benzene	**0.0050**	**0.0070**
Xylenes (Total)	**0.0050**	**0.17**
Chromatogram Pattern:		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	112

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 81-1103-9	Sampled: 08/03/95
5500 Shellmound	Sample Descript: SP-3	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/08/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/08/95
Attention: Faith Daverin	Lab Number: 9508429-03	Reported: 08/15/95

QC Batch Number: GC080895BTEXEXC
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**10**	**44**
Benzene	0.050	N.D.
Toluene	**0.050**	**0.10**
Ethyl Benzene	**0.050**	**0.16**
Xylenes (Total)	**0.050**	**3.9**
Chromatogram Pattern:		**C7-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	107

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 81-1103-9	Sampled: 08/03/95
5500 Shellmound	Sample Descript: SP-4	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	
	Analysis Method: Title 22	Analyzed:
Attention: Faith Daverin	Lab Number: 9508429-04	Reported: 08/15/95

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	5.0	N.D.
Arsenic, As	500	5.0	N.D.
Barium, Ba	**10000**	**5.0**	**50**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**29**
Cobalt, Co	**8000**	**2.5**	**6.7**
Copper, Cu	**2500**	**0.50**	**20**
Lead, Pb	**1000**	**5.0**	**16**
Mercury, Hg	**20**	**0.020**	**0.050**
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**48**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**17**
Zinc, Zn	**5000**	**0.50**	**45**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

for

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 81-1103-9	Sampled: 08/03/95
5500 Shellmound	Sample Descript: SP-4	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/08/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/08/95
Attention: Faith Daverin	Lab Number: 9508429-04	Reported: 08/15/95

QC Batch Number: GC080895BTEXEXC
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**2.0**	**19**
Benzene	0.010	N.D.
Toluene	**0.010**	**0.11**
Ethyl Benzene	**0.010**	**0.074**
Xylenes (Total)	**0.010**	**2.3**
Chromatogram Pattern:		**C7-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	115

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Faith Daverin

Client Project ID: Shell 81-1103-9
Matrix: SOLID
Work Order #: 9508429 04

Reported: Aug 16, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Organic Lead
QC Batch#:	ME0811957000MDA
Analy. Method:	LUFT
Prep. Method:	LUFT
Analyst:	R. Butler
MS/MSD #:	950875701
Sample Conc.:	N.D.
Prepared Date:	8/11/95
Analyzed Date:	8/15/95
Instrument I.D.#:	MV2
Conc. Spiked:	0.50 mg/Kg
Result:	0.49
MS % Recovery:	98
Dup. Result:	0.51
MSD % Recov.:	102
RPD:	6.0
RPD Limit:	0-30

LCS #:	BLK081195
Prepared Date:	8/11/95
Analyzed Date:	8/15/95
Instrument I.D.#:	MV2
Conc. Spiked:	0.50 mg/Kg
LCS Result:	0.50
LCS % Recov.:	100

MS/MSD LCS Control Limits	75-125

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates	Client Project ID:	Shell 81-1103-9	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9508429 04	Reported: Aug 16, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0809956010MDE	ME0809956010MDE	ME0809956010MDE	ME0809956010MDE
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser
MS/MSD #:	950847901	950847901	950847901	950847901
Sample Conc.:	N.D.	N.D.	24	29
Prepared Date:	8/9/95	8/9/95	8/9/95	8/9/95
Analyzed Date:	8/10/95	8/10/95	8/10/95	8/10/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
Result:	100	96	120	130
MS % Recovery:	100	96	120	130
Dup. Result:	100	93	120	120
MSD % Recov.:	100	93	120	120
RPD:	0.0	3.2	0.0	8.0
RPD Limit:	0-30	0-30	0-30	0-30
LCS #:	BLK080995	BLK080995	BLK080995	BLK080995
Prepared Date:	8/9/95	8/9/95	8/9/95	8/9/95
Analyzed Date:	8/10/95	8/10/95	8/10/95	8/10/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
LCS Result:	100	96	99	99
LCS % Recov.:	100	96	99	99
MS/MSD LCS Control Limits	75-125	75-125	75-125	75-125

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates	Client Project ID:	Shell 81-1103-9	
5500 Shellmound	Matrix:	Liquid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9508429 04	Reported: Aug 16, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0809956010MDB	ME0809956010MDB	ME0809956010MDB	ME0809956010MDB
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser
MS/MSD #:	950805301	950805301	950805301	950805301
Sample Conc.:	N.D.	N.D.	0.030	0.081
Prepared Date:	8/9/95	8/9/95	8/9/95	8/9/95
Analyzed Date:	8/9/95	8/9/95	8/9/95	8/9/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	1.0	0.95	0.99	1.0
MS % Recovery:	100	95	96	92
Dup. Result:	1.1	0.99	1.0	1.1
MSD % Recov.:	110	99	97	102
RPD:	9.5	4.1	1.0	9.5
RPD Limit:	0-30	0-30	0-30	0-30
LCS #:	BLK080995	BLK080995	BLK080995	BLK080995
Prepared Date:	8/9/95	8/9/95	8/9/95	8/9/95
Analyzed Date:	8/9/95	8/9/95	8/9/95	8/9/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	1.1	0.97	0.99	1.0
LCS % Recov.:	110	97	99	100
MS/MSD LCS Control Limits	75-125	75-125	75-125	75-125

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates	Client Project ID:	Shell 81-1103-9	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9508429 04	Reported: Aug 16, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Mercury
QC Batch#:	ME080895747 1M4B
Analy. Method:	EPA 7471
Prep. Method:	EPA 7471
Analyst:	T. Hua
MS/MSD #:	950842901
Sample Conc.:	0.050
Prepared Date:	8/8/95
Analyzed Date:	8/8/95
Instrument I.D.#:	MPE4
Conc. Spiked:	0.20 mg/Kg
Result:	0.23
MS % Recovery:	90
Dup. Result:	0.26
MSD % Recov.:	95
RPD:	4.3
RPD Limit:	0-30

LCS #:	BLK080895
Prepared Date:	8/8/95
Analyzed Date:	8/8/95
Instrument I.D.#:	MPE4
Conc. Spiked:	0.20 mg/Kg
LCS Result:	0.17
LCS % Recov.:	85

MS/MSD LCS Control Limits	75-125

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates	Client Project ID:	Shell 81-1103-9	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9508429 01-04	Reported: Aug 16, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC080895BTEXEXC	GC080895BTEXEXC	GC080895BTEXEXC	GC080895BTEXEXC
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	R. Geckler	R. Geckler	R. Geckler	R. Geckler
MS/MSD #:	950804115	950804115	950804115	950804115
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/8/95	8/8/95	8/8/95	8/8/95
Analyzed Date:	8/8/95	8/8/95	8/8/95	8/8/95
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
Result:	0.17	0.18	0.18	0.54
MS % Recovery:	85	90	90	90
Dup. Result:	0.18	0.18	0.18	0.54
MSD % Recov.:	90	90	90	90
RPD:	5.7	0.0	0.0	0.0
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:				
Prepared Date:				
Analyzed Date:				
Instrument I.D.#:				
Conc. Spiked:				
LCS Result:				
LCS % Recov.:				

MS/MSD LCS Control Limits	55-145	47-149	47-155	56-140

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 8/4/95
Page 1 of 1

Site Address: 610 Market Street, Oakland, CA

WIC#: 204-5503-5702

Shell Engineer: Jeff Bryam — Phone No.: — Fax #:

Consultant Name & Address: WEISS ASSOCIATES 5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: Faith Danerin — Phone No.: (510) 547-5420 — Fax #: 547-5043

WA JOB # 81-1603-9

Comments: Soil Disposal

Sampled by: Herb Toor

Printed Name: Herb Toor

LAB: Sequoia

Analysis Required

CHECK ONE (1) BOX ONLY	CT/DT
G.W. Monitoring	4461
Site Investigation	4441
Soil Classify/Disposal	X 4442
Water Classify/Disposal	4443
Soil/Air Rem. or Sys. O & M	4452
Water Rem. or Sys. O & M	4453
Other	

TURN AROUND TIME: 24 hours ☐ — 48 hours ☒ — 15 days ☐ (Normal) — Other ☐ ____

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: _____

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	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SP-1	8/3/95		X			1					X					Y		Please composite
SP-2	"		X			1					X					Y		and analyze
SP-3	"		X			1					X					Y	9508429	per Shells
SP-4	↓		X			1					X					Y		~~minimum requirements~~ for soil with
																		petroleum hydrocarbons
																		as gasoline -
																		UST related.
								8/7/95										

Relinquished By (signature): Herb Toor	Printed Name: Herb Toor	Date: 8/7/95 Time: 1345	Received (signature):	Printed Name: W. JONES	Date: 8/7/95 Time: 1545
Relinquished By (signature):	Printed Name: W. Flores	Date: 8/7/95 Time: 3:40	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: M. YORG	Date: 8/7/95 Time: 1545

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Shell Oil Chn. of Custody

samples stored in a locked, secured area overnight.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Faith Daverin

Project: Shell 81-1103-9

Enclosed are the results from samples received at Sequoia Analytical on August 7, 1995. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9508431 -01	SOLID, SP-1A	08/07/95	TPHGBS Purgeable TPH/BTEX
9508431 -02	SOLID, SP-2A	08/07/95	TPHGBS Purgeable TPH/BTEX
9508431 -03	SOLID, SP-3A	08/07/95	TPHGBS Purgeable TPH/BTEX
9508431 -04	SOLID, SP-4A	08/07/95	Lead: TCLP Extraction
9508431 -04	SOLID, SP-4A	08/07/95	ISTLCS Title 22: Metals, S
9508431 -04	SOLID, SP-4A	08/07/95	ITTLCS Title 22: Metals, T
9508431 -04	SOLID, SP-4A	08/07/95	Organic Lead
9508431 -04	SOLID, SP-4A	08/07/95	TPHGBS Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Attention: Faith Daverin

Client Proj. ID: Shell 81-1103-9

Lab Proj. ID: 9508431

Sampled: 08/07/95
Received: 08/07/95
Analyzed: see below

Reported: 08/16/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9508431-04				
Sample Desc : **SOLID,SP-4A**				
Lead: TCLP Extraction	**mg/L**	**08/16/95**	**0.10**	**0.45**
Organic Lead	mg/Kg	08/15/95	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 81-1103-9	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SP-1A	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/08/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/08/95
Attention: Faith Daverin	Lab Number: 9508431-01	Reported: 08/16/95

QC Batch Number: GC080895BTEXEXF
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	**0.0050**	**0.0064**
Ethyl Benzene	**0.0050**	**0.0094**
Xylenes (Total)	**0.0050**	**0.019**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	124

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 81-1103-9	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SP-2A	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/08/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/08/95
Attention: Faith Daverin	Lab Number: 9508431-02	Reported: 08/16/95

QC Batch Number: GC080895BTEXEXF
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**14**
Benzene	0.0050	N.D.
Toluene	**0.0050**	**0.085**
Ethyl Benzene	**0.0050**	**0.040**
Xylenes (Total)	**0.0050**	**0.090**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	206 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 81-1103-9	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SP-3A	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/08/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/08/95
Attention: Faith Daverin	Lab Number: 9508431-03	Reported: 08/16/95

QC Batch Number: GC080895BTEXEXC
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**13**
Benzene	0.0050	N.D.
Toluene	**0.0050**	**0.081**
Ethyl Benzene	**0.0050**	**0.044**
Xylenes (Total)	**0.0050**	**0.085**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	228 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 81-1103-9	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SP-4A	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	
	Analysis Method: Title 22	Analyzed:
Attention: Faith Daverin	Lab Number: 9508431-04	Reported: 08/16/95

Inorganic Persistent and Bioaccumulative Toxic Substances : STLC

Analyte	Max. Limit mg/L	Detection Limit mg/L	Sample Results mg/L
Lead, Pb	5.0	0.10	6.2

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 81-1103-9	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SP-4A	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	
	Analysis Method: Title 22	Analyzed:
Attention: Faith Daverin	Lab Number: 9508431-04	Reported: 08/16/95

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	5.0	N.D.
Arsenic, As	500	5.0	N.D.
Barium, Ba	**10000**	**5.0**	**130**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	**100**	**0.50**	**0.81**
Chromium, Cr	**2500**	**0.50**	**31**
Cobalt, Co	**8000**	**2.5**	**5.5**
Copper, Cu	**2500**	**0.50**	**32**
Lead, Pb	**1000**	**5.0**	**160**
Mercury, Hg	**20**	**0.020**	**0.21**
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**21**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**21**
Zinc, Zn	**5000**	**0.50**	**170**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 81-1103-9	Sampled: 08/07/95
5500 Shellmound	Sample Descript: SP-4A	Received: 08/07/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 08/08/95
	Analysis Method: 8015Mod/8020	Analyzed: 08/08/95
Attention: Faith Daverin	Lab Number: 9508431-04	Reported: 08/16/95

QC Batch Number: GC080895BTEXEXF
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	112

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates	Client Project ID:	Shell 81-1103-9	
5500 Shellmound	Matrix:	Liquid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9508431 -04	Reported: Aug 16, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium TCLP	Cadmium TCLP	Chromium TCLP	Nickel TCLP	Mercury STLC
QC Batch#:	ME0815956010MDC	ME0815956010MDC	ME0815956010MDC	ME0815956010MDC	ME0809952451M4A
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 245.1
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010	EPA 245.1
Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell	N. Rocklein
MS/MSD #:	9508493-01	9508493-01	9508493-01	9508493-01	9508542-01K
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/16/95	8/16/95	8/16/95	8/16/95	8/9/95
Analyzed Date:	8/16/95	8/16/95	8/16/95	8/16/95	8/9/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2	MPE4
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L	0.0040 mg/L
Result:	1.1	1.0	1.0	1.1	0.0038
MS % Recovery:	110	100	100	110	95
Dup. Result:	1.1	1.0	1.0	1.1	0.0038
MSD % Recov.:	110	100	100	110	95
RPD:	0.0	0.0	0.0	0.0	0.0
RPD Limit:	0-30	0-30	0-30	0-30	0-30
LCS #:	BLK081695	BLK081695	BLK081695	BLK081695	BLK080995B
Prepared Date:	8/16/95	8/16/95	8/16/95	8/16/95	8/9/95
Analyzed Date:	8/16/95	8/16/95	8/16/95	8/16/95	8/9/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2	MPE4
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L	0.0040 mg/L
LCS Result:	1.1	1.0	1.0	1.0	0.0038
LCS % Recov.:	110	100	100	100	95
MS/MSD Control Limits	75-125	75-125	75-125	75-125	75-125
LCS Control Limits	75-125	75-125	75-125	75-125	75-125

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Faith Daverin

Client Project ID: Shell 81-1103-9
Matrix: Solid
Work Order #: 9508431 -04

Reported: Aug 16, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0809956010MDF	ME0809956010MDF	ME0809956010MDF	ME0809956010MDF
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser
MS/MSD #:	9508412-09	9508412-09	9508412-09	9508412-09
Sample Conc.:	N.D.	N.D.	28	26
Prepared Date:	8/9/95	8/9/95	8/9/95	8/9/95
Analyzed Date:	8/10/95	8/10/95	8/10/95	8/10/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
Result:	100	91	120	120
MS % Recovery:	100	91	92	94
Dup. Result:	1.1	1.0	1.0	1.1
MSD % Recov.:	110	100	100	110
RPD:	1.0	1.1	0.0	0.0
RPD Limit:	0-30	0-30	0-30	0-30
LCS #:	BLK080995	BLK080995	BLK080995	BLK080995
Prepared Date:	8/9/95	8/9/95	8/9/95	8/9/95
Analyzed Date:	8/10/95	8/10/95	8/10/95	8/10/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg
LCS Result:	100	98	100	100
LCS % Recov.:	100	98	100	100
MS/MSD Control Limits	75-125	75-125	75-125	75-125
LCS Control Limits	75-125	75-125	75-125	75-125

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates	Client Project ID:	Shell 81-1103-9	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9508431 -01 - 04	Reported: Aug 16, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC080895BTEXEXF	GC080895BTEXEXF	GC080895BTEXEXF	GC080895BTEXEXF
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	R. Geckler	R. Geckler	R. Geckler	R. Geckler
MS/MSD #:	9508041-30	9508041-30	9508041-30	9508041-30
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/8/95	8/8/95	8/8/95	8/8/95
Analyzed Date:	8/8/95	8/8/95	8/8/95	8/8/95
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg
Result:	0.18	0.17	0.17	0.52
MS % Recovery:	90	85	85	87
Dup. Result:	0.17	0.17	0.17	0.47
MSD % Recov.:	85	85	80	78
RPD:	5.7	0.0	6.1	10
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:				
Prepared Date:				
Analyzed Date:				
Instrument I.D.#:				
Conc. Spiked:				
LCS Result:				
LCS % Recov.:				

MS/MSD LCS Control Limits	55-145	47-149	47-155	56-140

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 8/7/95
Page 1 of 1

Site Address: 610 market Street, Oakland, CA

WIC#: 204-5508-5702

Shell Engineer: Dan Kirk
Phone No.:
Fax #:

Consultant Name & Address: WEISS ASSOCIATES 5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: Faith Daverin
Phone No.: (510) 547-5420
Fax #: 547-5043
WA JOB #81-1103-9

Comments: Soil Disposal

Sampled by: Faith Daverin

Printed Name: Faith Daverin

LAB: Segudo

CHECK ONE (1) BOX ONLY		CT/DT
G.W. Monitoring	☐	4461
Site Investigation	☐	4441
Soil Classify/Disposal	☒	4442
Water Classify/Disposal	☐	4443
Soil/Air Rem. or Sys. O & M	☐	4452
Water Rem. or Sys. O & M	☐	4453
Other	☐	

TURN AROUND TIME
- 24 hours ☐
- 48 hours ☒
- 15 days ☐ (Normal)
- Other ☐ ____

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: _____

Analysis Required

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			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SP-1A	8/7/95		X			1					X							Y		Please Composite
SP-2A	↓		X			1					X							Y	9508431	and analyze
SP-3A	↓		X			1					X							Y		per Shells Minimum requirements
SP-4A	↓		X			1					X							Y		for soil with
																				gasoline - UST related

Relinquished By (signature): Faith Daverin	Printed Name: Faith Daverin	Date: 8/7/95 Time: 1347	Received (signature):	Printed Name: W. Jones	Date: 8/7 Time: 1345
Relinquished By (signature):	Printed Name: W. Jones	Date: 8/7 Time: 1345	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: M. Yong	Date: 8/7/95 Time: 1515

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 11/1/93

Shell Oil Chn. of Custody

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Faith Daverin

Project: Shell 610 Market St., Oakland

Enclosed are the results from samples received at Sequoia Analytical on August 28, 1995. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9508K22 -01	SOLID, SP-B4 (a-d) comp	08/28/95	TRPH (EPA 418.1)
9508K22 -01	SOLID, SP-B4 (a-d) comp	08/28/95	Bioassay
9508K22 -01	SOLID, SP-B4 (a-d) comp	08/28/95	PCB_S Polychlorinated Biph
9508K22 -01	SOLID, SP-B4 (a-d) comp	08/28/95	pH
9508K22 -01	SOLID, SP-B4 (a-d) comp	08/28/95	S_REAC Reactivity
9508K22 -01	SOLID, SP-B4 (a-d) comp	08/28/95	TCLPMS Metals
9508K22 -01	SOLID, SP-B4 (a-d) comp	08/28/95	TCLPSS SemiVolatile
9508K22 -01	SOLID, SP-B4 (a-d) comp	08/28/95	TCLPVS Volatiles
9508K22 -02	SOLID, SP-B1	08/28/95	TRPH (EPA 418.1)
9508K22 -03	SOLID, SP-B2	08/28/95	TRPH (EPA 418.1)
9508K22 -04	SOLID, SP-B3	08/28/95	TRPH (EPA 418.1)

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Attention: Faith Daverin

Client Proj. ID: Shell 610 Market St., Oakland

Lab Proj. ID: 9508K22

Sampled: 08/28/95
Received: 08/28/95
Analyzed: see below

Reported: 09/06/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9508K22-01				
Sample Desc : **SOLID,SP-B4 (a-d) comp**				
pH	**pH Units**	**08/29/95**	**N/A**	**8.6**
TRPH (EPA 418.1)	**mg/Kg**	**08/30/95**	**15**	**260**
Lab No: 9508K22-02				
Sample Desc : **SOLID,SP-B1**				
TRPH (EPA 418.1)	**mg/Kg**	**08/30/95**	**15**	**330**
Lab No: 9508K22-03				
Sample Desc : **SOLID,SP-B2**				
TRPH (EPA 418.1)	**mg/Kg**	**08/30/95**	**15**	**240**
Lab No: 9508K22-04				
Sample Desc : **SOLID,SP-B3**				
TRPH (EPA 418.1)	**mg/Kg**	**08/30/95**	**15**	**180**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market St., Oakland	Sampled: 08/28/95
5500 Shellmound	Sample Descript: SP-B4 (a-d) comp	Received: 08/28/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 09/01/95
	Analysis Method: EPA 8080	Analyzed: 09/01/95
Attention: Faith Daverin	Lab Number: 9508K22-01	Reported: 09/06/95

QC Batch Number: GC0831950PCBEXA
Instrument ID: GCHP23

Polychlorinated Biphenyls (EPA 8080)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
PCB-1016	20	N.D.
PCB-1221	80	N.D.
PCB-1232	20	N.D.
PCB-1242	20	N.D.
PCB-1248	20	N.D.
PCB-1254	20	N.D.
PCB-1260	20	N.D.

Surrogates	Control Limits %		% Recovery
Dibutylchlorendate	30	150	27 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market St., Oakland	Sampled: 08/28/95
5500 Shellmound	Sample Descript: SP-B4 (a-d) comp	Received: 08/28/95
Emeryville, CA 94608	Matrix: SOLID	
	Analysis Method: Comb	Analyzed: 08/29/95
Attention: Faith Daverin	Lab Number: 9508K22-01	Reported: 09/06/95

QC Batch Number: IN082995084600A

Reactivity

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Reactivity:		
Sulfide	13	N.D.
Cyanide	0.50	N.D.
Reaction with Water		N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market St., Oakland	Sampled: 08/28/95
5500 Shellmound	Sample Descript: SP-B4 (a-d) comp	Received: 08/28/95
Emeryville, CA 94608	Matrix: SOLID	
	Analysis Method: EPA6010/7470	Analyzed:
Attention: Faith Daverin	Lab Number: 9508K22-01	Reported: 09/06/95

TCLP Metals

Analyte	Max. Limit mg/L	Detection Limit mg/L	Sample Results mg/L
Arsenic, As	5.0	0.10	N.D.
Barium,Ba	**100**	**0.10**	**2.0**
Cadmium, Cd	**1.0**	**0.010**	**0.011**
Chromium, Cr	**5.0**	**0.010**	**0.013**
Lead, Pb	**5.0**	**0.10**	**0.51**
Mercury,Hg	0.2	0.00020	N.D.
Selenium, Se	1.0	0.10	N.D.
Silver, Ag	5.0	0.010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 610 Market St., Oakland	Sampled: 08/28/95
5500 Shellmound	Sample Descript: SP-B4 (a-d) comp	Received: 08/28/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 09/05/95
	Analysis Method: EPA 8270	Analyzed: 09/06/95
Attention: Faith Daverin	Lab Number: 9508K22-01	Reported: 09/06/95

QC Batch Number: MS0824958270EXA
Instrument ID: F4

TCLP Semivolatiles (EPA 8270)

Analyte	Max. Limit mg/L	Detection Limit mg/L	Sample Results mg/L
Total Cresol	200	0.0080	N.D.
1,4-Dichlorobenzene	7.5	0.0080	N.D.
2,4-Dinitrotoluene	0.13	0.0080	N.D.
Hexachlorobenzene	0.13	0.0080	N.D.
Hexachloro-1,3-butadiene	0.5	0.0080	N.D.
Hexachloroethane	3.0	0.0080	N.D.
Nitrobenzene	2.0	0.0080	N.D.
Pentachlorophenol	100	0.040	N.D.
Pyridine	5.0	0.040	N.D.
2,4,5-Trichlorophenol	400	0.040	N.D.
2,4,6-Trichlorophenol	2.0	0.0080	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	21	110	10 Q
Phenol-d6	10	110	4 Q
Nitrobenzene-d5	35	114	82
2-Fluorobiphenyl	43	116	77
2,4,6-Tribromophenol	10	123	48

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Attention: Faith Daverin

Client Proj. ID: Shell 610 Market St., Oakland
Sample Descript: SP-B4 (a-d) comp
Matrix: SOLID
Analysis Method: EPA 8240
Lab Number: 9508K22-01

Sampled: 08/28/95
Received: 08/28/95
Extracted: 08/29/95
Analyzed: 08/31/95
Reported: 09/06/95

QC Batch Number: MS0830958240F2A
Instrument ID: F2

TCLP Volatiles (EPA 8240)

Analyte	Max. Limit mg/L	Detection Limit mg/L	Sample Results mg/L
Benzene	0.5	0.020	N.D.
Carbon tetrachloride	0.5	0.020	N.D.
Chlorobenzene	100	0.020	N.D.
Chloroform	6.0	0.020	N.D.
1,2-Dichloroethane	0.5	0.020	N.D.
1,1-Dichloroethylene	0.7	0.020	N.D.
Methyl ethyl ketone	200	0.10	N.D.
Tetrachloroethylene	0.7	0.020	N.D.
Trichloroethylene	0.5	0.020	N.D.
Vinyl chloride	0.2	0.020	N.D.

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	76	114	100
Toluene-d8	88	110	103
4-Bromofluorobenzene	86	115	97

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Faith Daverin	Client Proj. ID: Shell 610 Market St., Oakland Lab Proj. ID: 9508K22	Received: 08/28/95 Reported: 09/06/95

LABORATORY NARRATIVE

PCB NOTE: RECOVERY FOR OUR PRIMARY SURROGATE, DBC, WAS LOW FOR THIS SAMPLE. RECOVERY FOR OUR SECONDARY SURROGATE, TMX, WAS ACCEPTABLE. TMX= 66%.

8270 NOTE: Acid surrogates failed. Sample was reextracted and rerun with the same results. Therefore, results are estimated.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Project ID: Shell 610 Market St., Oakland	Sampled: 8/28/95
5500 Shellmound	Sample Descript: SP-B4(a-d)comp	Received: 8/28/95
Emeryville, CA 94608	Analysis Method: See below	
Attention: Faith Daverin	Lab Number: 9508-K22 -01	Reported: 9/06/95

STATIC ACUTE HAZARDOUS WASTE BIOASSAY - DEFINITIVE

Species: Pimephales promelas
Common Name: Fathead Minnow

Mean length: 36 mm
Min. length: 33 mm
Max. length: 40 mm
Mean weight: 0.32 g
Min. weight: 0.28 g
Max. weight: 0.36 g

Organisms/Tank: 10
Organisms/Conc.: 20
Tank Depth: 13 cm
Tank Volume: 10 L
Supplier: Sticklebacks Unlimited
Acclimation Temp.: 19 °C

Control Water: Synthetic Softwater
Hardness 40-48

	Alkalinity, mg/L		Hardness, mg/L	
	Initial	Final	Initial	Final
Control	32	36	48	50
1000 ppm	36	40	50	52
Duplicate 1000 ppm	36	40	50	52

	Initial			24 Hr				48 Hr				72 Hr				96 Hr				
DATE	8/29/95			8/30/95				8/31/95				9/1/95				9/2/95				
	DO mg/L	C Temp	pH Units	DO mg/L	C Temp	pH Units	# M Dead	DO mg/L	C Temp	pH Units	# M Dead	DO mg/L	C Temp	pH Units	# M Dead	DO mg/L	C Temp	pH Units	# M Dead	Total Dead
Control	9.5	19	7.4	8.0	19	7.3	0	7.3	19	7.1	0	6.9	19	7.0	0	6.7	19	7.8	0	0
1000 ppm	9.0	19	7.6	7.9	19	7.5	0	6.9	19	7.5	0	6.5	19	7.1	0	5.7	19	7.2	0	0
560 ppm	8.9	19	7.5	7.9	19	7.4	0	6.9	19	7.5	2	6.5	19	7.1	1	6.3	19	7.2	0	3
320 ppm	9.0	19	7.5	8.1	19	7.3	0	7.1	19	7.2	0	6.4	19	7.0	1	6.1	19	7.1	0	1
180 ppm	9.1	19	7.5	8.2	19	7.4	0	7.2	19	7.3	0	6.5	19	7.0	1	4.5	19	7.1	0	1
100 ppm	9.1	19	7.4	8.0	19	7.4	0	7.3	19	7.2	0	6.6	19	7.1	1	4.7	19	7.0	0	1

Duplicate	DO mg/L	C Temp	pH Units	DO mg/L	C Temp	pH Units	# M Dead	DO mg/L	C Temp	pH Units	# M Dead	DO mg/L	C Temp	pH Units	# M Dead	DO mg/L	C Temp	pH Units	# M Dead	Total Dead
1000 ppm	9.1	19	7.6	7.9	19	7.4	0	6.8	19	7.2	2	6.5	19	7.1	1	5.7	19	7.2	0	3
560 ppm	8.9	19	7.5	7.9	19	7.4	0	7.0	19	7.1	0	6.5	19	7.1	0	6.3	19	7.2	0	0
320 ppm	9.1	19	7.5	8.0	19	7.4	0	7.3	19	7.2	1	6.4	19	7.0	2	6.1	19	7.1	0	1
180 ppm	9.2	19	7.4	8.1	19	7.4	0	7.3	19	7.3	1	6.5	19	7.0	0	4.5	19	7.1	0	1
100 ppm	9.2	19	7.4	8.2	19	7.3	0	7.3	19	7.3	0	6.6	19	7.1	0	4.7	19	7.0	0	0

LC-50: > 1000

LC-50 Calculation Method: Binomial

Remarks:

Analyst: M.Otte/ K. Bentler

Method Reference: Static Acute Bioassay Procedures for Hazardous Waste Samples, November 1988, California Department of Fish and Game WPCL.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates	Client Project ID:	Shell 610 Market St., Oakland	
5500 Shellmound	Matrix:	Liquid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9508K22 -01	Reported: Sep 7, 1995

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	MS0830958240F2A	MS0830958240F2A	MS0830958240F2A	MS0830958240F2A	MS0830958240F2A
Analy. Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Prep. Method:	N.A.	N.A.	N.A.	N.A.	N.A.
Analyst:	M. Williams	M. Williams	M. Williams	M. Williams	M. Williams
MS/MSD #:	9508H89-05	9508H89-05	9508H89-05	9508H89-05	9508H89-05
Sample Conc.:	N.D.	2.8	N.D.	N.D.	N.D.
Prepared Date:	-	-	-	-	-
Analyzed Date:	8/30/95	8/30/95	8/30/95	8/30/95	8/30/95
Instrument I.D.#:	F2	F2	F2	F2	F2
Conc. Spiked:	50 ug/L	50 ug/L	50 ug/L	50 ug/L	50 ug/L
Result:	50	52	50	52	51
MS % Recovery:	100	104	100	104	102
Dup. Result:	48	50	49	49	49
MSD % Recov.:	96	100	98	98	98
RPD:	4.1	3.9	2.0	5.9	4.0
RPD Limit:	0-50	0-50	0-50	0-50	0-50
LCS #:					
Prepared Date:					
Analyzed Date:					
Instrument I.D.#:					
Conc. Spiked:					
LCS Result:					
LCS % Recov.:					
MS/MSD LCS Control Limits	DL-234	71-157	37-151	47-150	37-160

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates	Client Project ID:	Shell 610 Market St., Oakland	
5500 Shellmound	Matrix:	Liquid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9508K22 -01	Reported: Sep 7, 1995

QUALITY CONTROL DATA REPORT

Analyte:	1,4-Dichloro-benzene	2,4-Dinitro-toluene	Pentachloro-phenol	Reactive Sulfide	Reactive Cyanide
QC Batch#:	MS0824958240EXA	MS0824958240EXA	MS0824958240EXA	IN082995084600A	IN082995084600A
Analy. Method:	EPA 1311	EPA 1311	EPA 1311	SW-846	SW-846
Prep. Method:	EPA 1311	EPA 1311	EPA 1311	N.A.	N.A.
Analyst:	E. Manuel	E. Manuel	E. Manuel	A. Pina	A. Pina
MS/MSD #:	BLK082495	BLK082495	BLK082495		
Sample Conc.:	N.D.	N.D.	N.D.		
Prepared Date:	8/24/95	8/24/95	8/24/95		
Analyzed Date:	8/24/95	8/24/95	8/24/95		
Instrument I.D.#:	F3	F3	F3		
Conc. Spiked:	400 ug/L	400 ug/L	400 ug/L		
Result:	180	270	300		
MS % Recovery:	45	68	75		
Dup. Result:	240	310	300		
MSD % Recov.:	60	78	75		
RPD:	29	14	0.0		
RPD Limit:	0-50	0-50	0-50		
LCS #:				LCS082995	LCS082995
Prepared Date:				8/29/95	8/29/95
Analyzed Date:				8/29/95	8/29/95
Instrument I.D.#:				MANUAL	MANUAL
Conc. Spiked:				10 mg/L	0.20 mg/L
LCS Result:				8.3	0.064
LCS % Recov.:				83	32
MS/MSD LCS Control Limits	20-124	39-139	14-176	80-120	6.5-40

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates	Client Project ID:	Shell 610 Market St., Oakland	
5500 Shellmound	Matrix:	Liquid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9508K22 -01	Reported: Sep 7, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Total Petroleum Hydrocarbons	PCB 1260	Mercury
QC Batch#:	IN0830954181FTA	GC083195OPCBEXA	ME0831957470M4A
Analy. Method:	EPA 418.1	EPA 8080	EPA 7470
Prep. Method:	N.A.	EPA 3550	EPA 7470
Analyst:	D. Williams	A. Savva	T. Hua
MS/MSD #:	9508K22-01A	9508M08-01	9508H94-13
Sample Conc.:	330	N.D.	N.D.
Prepared Date:	8/30/95	8/31/95	8/31/95
Analyzed Date:	8/30/95	8/31/95	9/1/95
Instrument I.D.#:	FTIR1	GCHP12	MPE4
Conc. Spiked:	210 mg/kg	83 ug/kg	0.0040 mg/L
Result:	360	99	0.0037
MS % Recovery:	14	119	93
Dup. Result:	410	85	0.0037
MSD % Recov.:	38	102	93
RPD:	13	15	0.0
RPD Limit:	0-40	0-50	0-30

LCS #:	LCS083095		BLK083195BTCLP
Prepared Date:	8/30/95		8/31/95
Analyzed Date:	8/30/95		9/1/95
Instrument I.D.#:	FTIR1		MPE4
Conc. Spiked:	210 mg/kg		0.0040 mg/L
LCS Result:	240		0.0036
LCS % Recov.:	114		90

MS/MSD	60-140		75-125
LCS	80-120	30-150	75-125
Control Limits			

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates	Client Project ID:	Shell 610 Market St., Oakland	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9508K22 -01	Reported: Sep 7, 1995

QUALITY CONTROL DATA REPORT

Analyte:	pH
QC Batch:	IN082995904500A
Analy. Method:	EPA 9045
Prep Method:	N.A.
Analyst:	S. Lee
Duplicate Sample #:	9508K22-01
Prepared Date:	8/29/95
Analyzed Date:	8/29/95
Instrument I.D.#:	MANUAL
Sample Concentration:	8.6
Dup. Sample Concentration:	8.5
RPD:	1.2
RPD Limit:	0-30

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

** RPD=Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates	Client Project ID:	Shell 610 Market St., Oakland	
5500 Shellmound	Matrix:	Liquid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9508K22 -01	Reported: Sep 7, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0830956010MDA	ME0830956010MDA	ME0830956010MDA	ME0830956010MDA
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010
Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
MS/MSD #:	9508G29-02A	9508G29-02A	9508G29-02A	9508G29-02A
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/30/95	8/30/95	8/30/95	8/30/95
Analyzed Date:	8/30/95	8/30/95	8/30/95	8/30/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	1.0	0.97	0.98	0.97
MS % Recovery:	100	97	98	97
Dup. Result:	1.0	0.97	0.97	0.96
MSD % Recov.:	100	97	97	96
RPD:	0.0	0.0	1.0	1.0
RPD Limit:	0-30	0-30	0-30	0-30
LCS #:	BLK083095	BLK083095	BLK083095	BLK083095
Prepared Date:	8/30/95	8/30/95	8/30/95	8/30/95
Analyzed Date:	8/30/95	8/30/95	8/30/95	8/30/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	1.1	1.0	1.0	1.0
LCS % Recov.:	110	100	100	100
MS/MSD Control Limits	75-125	75-125	75-125	75-125
LCS Control Limits	75-125	75-125	75-125	75-125

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 8/28/95
Page 1 of 1

Site Address: 610 Market Street, Oakland, CA

WIC#: 204-5508-5702

Shell Engineer: Dan Kirk — Phone No: (510) 675-6168 Fax #:

Consultant Name & Address: WEISS ASSOCIATES 5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: Faith Daverin — Phone No.: (510) 547-5420 Fax #: 547-5043
WA JOB # 81-1103

Comments: Soil Disposal

Sampled by: Faith Daverin 9508K22

Printed Name: Faith Daverin

LAB: Sequoia

Analysis Required

CHECK ONE (1) BOX ONLY	C/D/T	TURN AROUND TIME
G.W. Monitoring ☐	4461	24 hours ☐
Site Investigation ☐	4441	48 hours ☒
Soil Classify/Disposal ☒	4442	15 days ☐ (Normal)
Water Classify/Disposal ☐	4443	Other ☒ 5-DAY
Soil/Air Rem. or Sys. O & M ☐	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M ☐	4453	
Other ☐		

UST AGENCY: _____

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			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SP-B1	8/28/95		X			1					X								Reax composite and	
SP-B2	↓		X			1					X								analyze for Soil contaminated	
SP-B3			X			1					X								with waste oil. However,	
SP-B4	↓		X			1					X								DO not analyze for CAM	
																			Metals (TTLC), or BTEX, or	
																			leads. These analyses have	
																			already been conducted. See	
																			Your lab report 9508431.	
																			Call me with questions	

Relinquished By (signature): Faith Daverin	Printed Name: Faith Daverin	Date: 8/28/95 Time: 1222	Received (signature):	Printed Name: Gary Trolesi	Date: 8.28.95 Time: 1222
Relinquished By (signature):	Printed Name: Gary Trolesi	Date: 8.28 Time: 2:10	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: M. Yang	Date: 8/28/95 Time: 1411

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 7/17/93

Shell Chain of Custody

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Attention: Faith Daverin

Client Proj. ID: 610 Market St, Oakland

Lab Proj. ID: 9508K47

Sampled: 08/07/95
Received: 08/07/95
Analyzed: see below

Reported: 09/07/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9508K47-01				
Sample Desc : **SOLID,SP-4 (a-d) comp**				
Lead: TOX Extraction	**mg/L**	**09/07/95**	**0.10**	**0.63**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates	Client Project ID:	610 Market St., Oakland	
5500 Shellmound	Matrix:	Liquid	
Emeryville, CA 94608			
Attention: Faith Deverin	Work Order #:	9508K47 01	Reported: Sep 7, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0906956010MDC	ME0906956010MDC	ME0906956010MDC	ME0906956010MDC
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010
Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser
MS/MSD #:	9508M6201	9508M6201	9508M6201	9508M6201
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/6/95	9/6/95	9/6/95	9/6/95
Analyzed Date:	9/7/95	9/7/95	9/7/95	9/7/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	0.99	0.99	0.95	0.95
MS % Recovery:	99	99	95	95
Dup. Result:	1.0	1.0	0.97	0.96
MSD % Recov.:	100	100	97	96
RPD:	1.0	1.0	2.1	1.0
RPD Limit:	0-30	0-30	0-30	0-30
LCS #:	BLK090695	BLK090695	BLK090695	BLK090695
Prepared Date:	9/6/95	9/6/95	9/6/95	9/6/95
Analyzed Date:	9/7/95	9/7/95	9/7/95	9/7/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	1.0	1.0	0.99	0.98
LCS % Recov.:	100	100	99	98
MS/MSD LCS Control Limits	75-125	75-125	75-125	75-125

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 8/7/95
Page 1 of 1

Site Address: 610 market Street, Oakland, CA

WIC#: 204-5508-5702

Shell Engineer: Dan Kirk
Phone No.:
Fax #:

Consultant Name & Address: WEISS ASSOCIATES
5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: Faith Davenn
Phone No.: (510) 547-5420
Fax #: 547-5043
WA JOB #81-1103-9

Comments: Soil Disposal

Sampled by: Faith Davenn

Printed Name: Faith Davenn

LAB: Seq DIG

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			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SP-1A	8/7/95		X			1					X							Y		Please Composite
SP-2A	"		X			1					X							Y	9508431	and analyze
SP-3A	"		X			1					X							Y		per Shell's minimum requirements
SP-4A	"		X			1					X							Y		for soil with
																				gasoline - UST related

CHECK ONE (1) BOX ONLY | CT/DT | TURN AROUND TIME

- G.W. Monitoring ☐ 4461
- Site Investigation ☐ 4441
- Soil Classify/Disposal ☒ 4442
- Water Classify/Disposal ☐ 4443
- Soil/Air Rem. or Sys. O & M ☐ 4452
- Water Rem. or Sys. O & M ☐ 4453
- Other ☐

TURN AROUND TIME:
- 24 hours ☐
- 48 hours ☒
- 15 days ☐ (Normal)
- Other ☐ _____

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: _____

Relinquished By (signature)	Printed Name	Date	Time	Received (signature)	Printed Name	Date	Time
Faith Davenn	Faith Davenn	8/7/95	3:45		W. Jones	8/7/95	1:50
	W. Jones	8/7/95	2:45				
					M. Yong	8/7/95	15 15

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Brief Of Chn. of Custody