Weiss Associates *Environmental and Geologic Services*

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

April 1, 1996

Shell Oil Products
Jeff Granberry
P.O Box 4023
Concord, CA 94524
(510) 685-6168

Madhulla Logan
Hazardous Materials Specialist
Alameda County Health Agency
Department of Environmental Health
Alameda, California 94502

RE: **Dispenser Replacement Sampling**
Shell Service Station
WIC #204-5510-0600
4255 MacArthur Boulevard
Oakland, California
WA Job #81-0757-31

Dear Mr. Logan:

On behalf of Shell Oil Products Company (Shell), Weiss Associates (WA) submits this report documenting soil sampling 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. 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;
- Analyze soil samples for petroleum hydrocarbons;
- Sample and dispose of the hydrocarbon-bearing soil; and
- Report the results.

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PROTECTION

Site Background

Location: The operating Shell service station is located at the corner of MacArthur Boulevard and High Street in Oakland, California (Figures 1 and 2).

Surroundings: Commercial and residential development.

Local Topography: The site is about 175 ft above mean sea level with a topographical gradient of about 0.026 ft/ft towards the southwest.

Nearest Surface Water: There are no surface water sources within a 1/2-mile radius of the site.

Ground Water Depth: Historical ground water depth in on-site monitoring wells has ranged from 7.08 feet below ground surface (bgs) in MW-1 on April 12, 1995 to 15.62 feet bgs in MW-3 on October 27, 1994.

Ground Water Flow Direction: Ground water flows southwestward with a gradient of about 0.1 ft/ft.

Soil Sampling Results

Parties Present: WA Engineer Tim Utterback collected the soil samples. Alameda County Health Agency (ACHA) Inspector Don Hwang observed and directed the soil sampling. Al Garcia of Paradiso Construction of San Leandro, California assisted the sampling and directed the excavation of the trenches, removal of the product lines, and the replacement of the dispensers.

Sampling Date: November 17, 1995.

Number of Samples: 15: One sample from beneath each of the ten removed dispensers and five samples total from beneath the removed product lines. Photographs of some of the sample locations are included in Attachment A. Sample locations are presented on Figure 2.

Soil Sampling Method: Soil samples were collected by driving clean brass tubes into undisturbed soil from a backhoe bucket. All sample tubes were immediately sealed with Teflon sheeting and plastic caps and placed on ice in a cooler for transport to the state-certified analytical laboratory.

Analytical Laboratory: Sequoia Analytical in Redwood City, California.

Analytical Methods: 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 certified analytical reports and chain-of-custody forms are included in Attachment B.

Analytic Results: TPH-G, at 3,200 and 7,800 parts per million (ppm), were detected in samples S-1 and S-2, respectively, from beneath the former middle dispenser and 2,800 ppm in sample S-8 from the product piping corridor nearby. Up to 7,300 ppm TPH-G was detected in sample S-3 beneath the northeast dispenser island. No benzene was detected in these samples, and no benzene above 1 ppm was detected in any of the 15 samples. The analytic results are summarized in Table 1.

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, organic lead, total threshold limit concentration (TTLC) Title 22 metals, soluble threshold limit concentration (STLC) for barium, copper, lead and selenium and EPTOX extraction for barium, copper and lead. The certified analytic report and chain-of custody form are included in Attachment C.

Soil Transport and Disposal: On December 21 and 26, 1995, Manley and Sons Trucking, Inc., of Sacramento, California transported about 68 cubic yards of soil to the Laidlaw Environmental facility in Buttonwillow, California for disposal. The soil disposal confirmation is presented in Attachment C.

Conclusions

Based on the sampling results, WA concludes that:

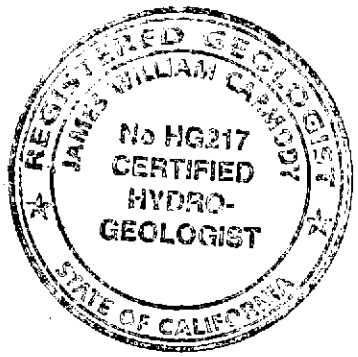
- Four initial soil samples from beneath the two northern-most dispenser islands contained more than 2,000 ppm TPH-G. However, no benzene was detected above method detection limits in these samples.
- TPH-G concentrations in soil were detected at 200 to 300 ppm beneath piping at the southern-most dispenser island.

- None of the other nine soil samples exceeded 44 ppm TPH-G or 0.85 ppm benzene.
- Ground water monitoring will continue at the site's four ground water monitoring wells.

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

Sincerely,
Weiss Associates

Tim Utterback
Staff Engineer



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

Attachments:
Figures
Tables
A - Pictures of Soil Below the Former Dispensers and Piping
B - Certified Analytical Reports and Chain-of-Custody Forms for Soil
C - 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

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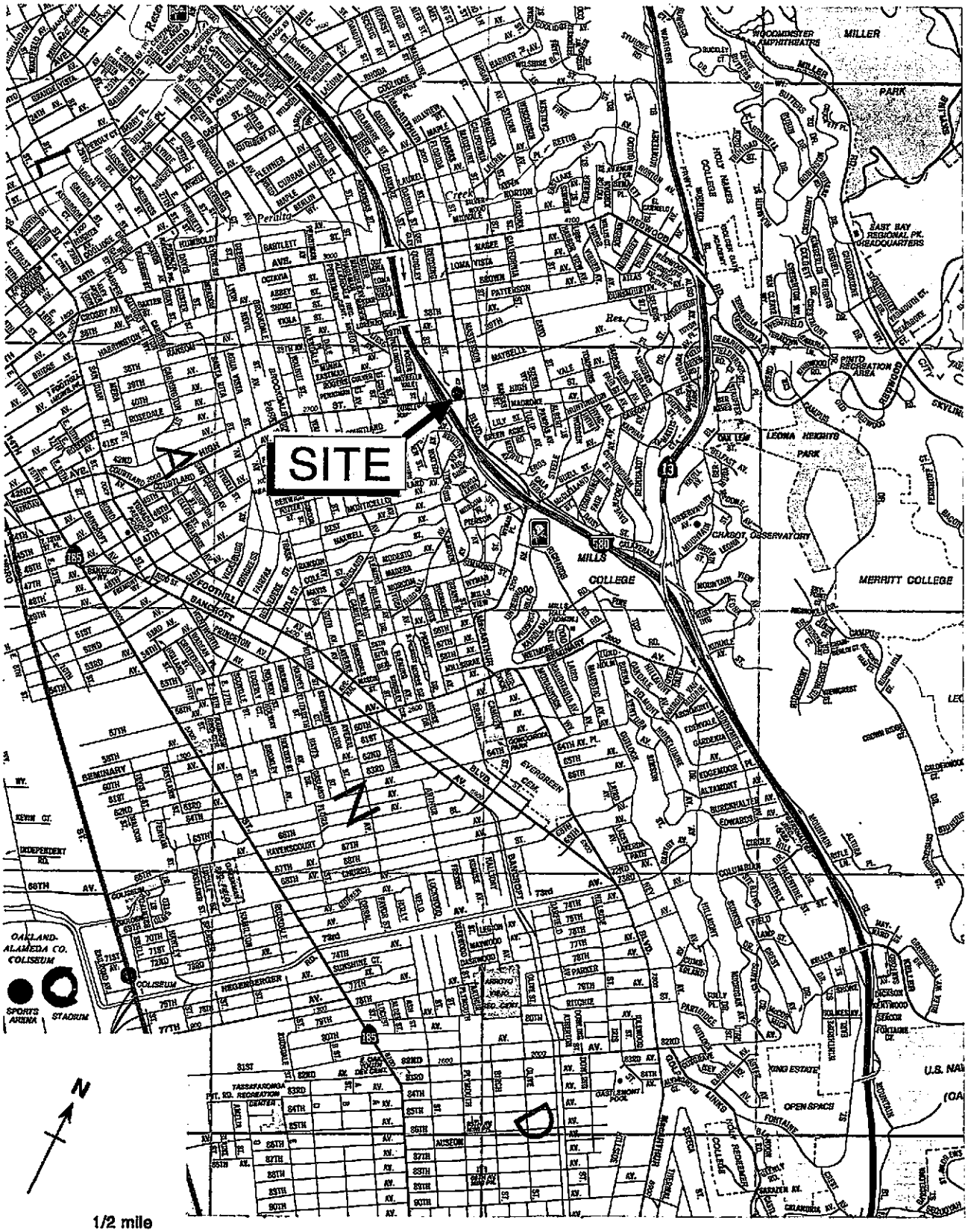

Figure 1. Site Location Map - Shell Service Station WIC# 204-5510-0600, 4255 MacArthur Boulevard, Oakland, California

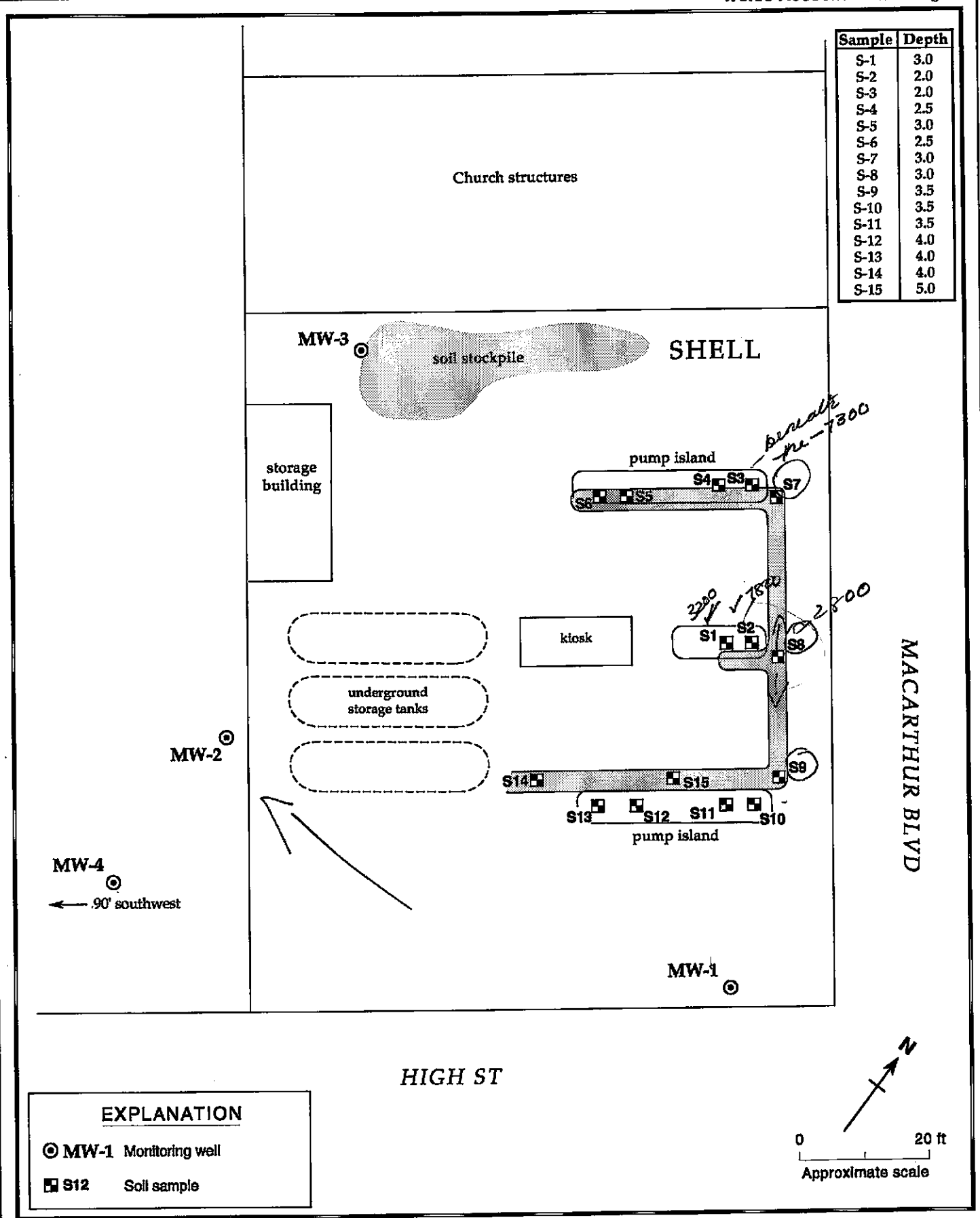

Figure 2. Site Map - Shell Service Station WIC #204-5510-0600, 4255 MacArthur Boulevard, Oakland, California

S757-027.ai

04/01/99

Table 1. Soil Analytical Results, Shell Service Station WIC #204-5510-0600, 4255 MacArthur Boulevard., Oakland, California

Sample ID	Depth Below Ground Surface (ft)	TPH-G	B	T	E	X
		← parts per million (mg/kg) →				
Dispenser Island and Trench Samples						
S-1	3.0	3,200	<5.0	27	39	250
S-2	2.0	7,800	<15	51	71	540
S-3	2.0	7,300	<12	14	42	500
S-4	2.5	1.5	0.052	<0.005	0.021	0.0069
S-5	3.0	1.1	<0.005	<0.005	<0.005	0.013
S-6	2.5	1.1	0.19	<0.005	0.046	0.020
S-7	3.0	10	0.12	0.030	0.24	0.98
S-8	3.0	2,800	<5.0	5.1	25	140
S-9	3.5	6.5	<0.005	<0.005	<0.005	0.021
S-10	3.5	44	<0.05	<0.05	0.051	0.22
S-11	3.5	2.6	0.026	<0.005	0.011	0.014
S-12	4.0	39	0.26	<0.05	0.42	1.7
S-13	4.0	12	0.85	0.46	0.31	1.5
S-14	4.0	300	<0.5	<0.5	3.8	10
S-15	5.0	210	0.28	<0.25	1.9	6.4

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
B = Benzene by EPA Method 8020
T = Toluene by EPA Method 8020
E = Ethylbenzene by EPA Method 8020
X = Xylenes by EPA Method 8020
<n= Not detected at laboratory method detection limit of n mg/kg.

Notes:

Samples collected on 11/17/95 by Weiss Associates and analyzed by Sequoia Analytical, Redwood City, California.

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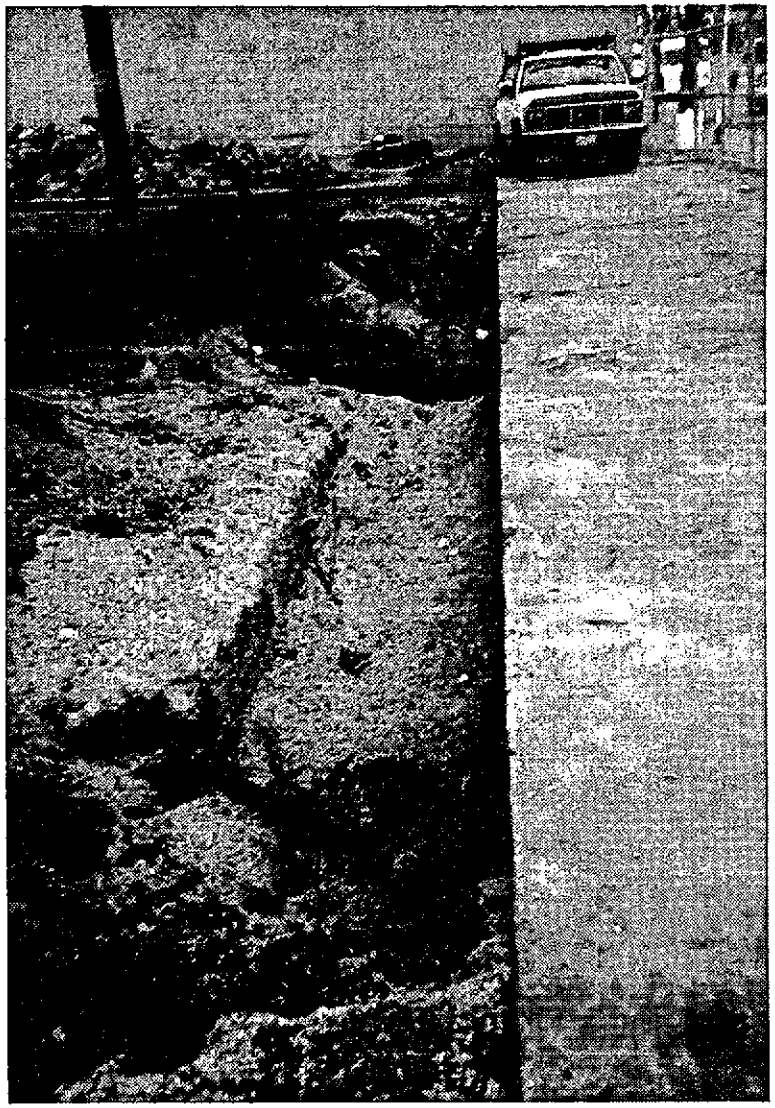
ATTACHMENT A

PICTURES OF SOIL BELOW THE FORMER DISPENSERS AND PIPING



Photographs of Soil Below Former Dispensers and Piping - Shell Service Station WIC#204-5510-0600, 4255 MacArthur Boulevard, Oakland, California

Photographs of Soil Below Former Dispensers and Piping - Shell Service Station WIC#204-5510-0600, 4255 MacArthur Boulevard, Oakland, California

ATTACHMENT B

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

eiss Associates
00 Shellmound
neryville, CA 94608
tention: Tim Utterback

oject: Shell 4255 MacArthur, Oakland

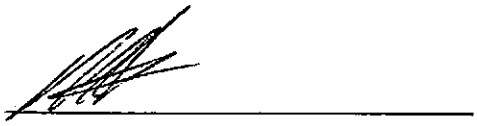
Enclosed are the results from samples received at Sequoia Analytical on November 20, 1995.
e requested analyses are listed below:

MPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
11E41 -01	SOLID, S-1	11/17/95	TPHGBS Purgeable TPH/BTEX
11E41 -02	SOLID, S-2	11/17/95	TPHGBS Purgeable TPH/BTEX
11E41 -03	SOLID, S-3	11/17/95	TPHGBS Purgeable TPH/BTEX
11E41 -04	SOLID, S-4	11/17/95	TPHGBS Purgeable TPH/BTEX
11E41 -05	SOLID, S-5	11/17/95	TPHGBS Purgeable TPH/BTEX
11E41 -06	SOLID, S-6	11/17/95	TPHGBS Purgeable TPH/BTEX
11E41 -07	SOLID, S-7	11/17/95	TPHGBS Purgeable TPH/BTEX
11E41 -08	SOLID, S-8	11/17/95	TPHGBS Purgeable TPH/BTEX
11E41 -09	SOLID, S-9	11/17/95	TPHGBS Purgeable TPH/BTEX
11E41 -10	SOLID, S-10	11/17/95	TPHGBS Purgeable TPH/BTEX
11E41 -11	SOLID, S-11	11/17/95	TPHGBS Purgeable TPH/BTEX
11E41 -12	SOLID, S-12	11/17/95	TPHGBS Purgeable TPH/BTEX
11E41 -13	SOLID, S-13	11/17/95	TPHGBS Purgeable TPH/BTEX
11E41 -14	SOLID, S-14	11/17/95	TPHGBS Purgeable TPH/BTEX
11E41 -15	SOLID, S-15	11/17/95	TPHGBS Purgeable TPH/BTEX

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

ry truly yours,

EQUOIA ANALYTICAL



ke Gregory
oject Manager

Sequoia Analytical

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Weiss Associates	Client Proj. ID: Shell 4255 MacArthur, Oakland	Sampled: 11/17/95
5500 Shellmound	Sample Descript: S-1	Received: 11/20/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 11/22/95
	Analysis Method: 8015Mod/8020	Analyzed: 11/22/95
Attention: Tim Utterback	Lab Number: 9511E41-01	Reported: 11/29/95

QC Batch Number: GC112295BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1000**	**3200**
Benzene	5.0	N.D.
Toluene	**5.0**	**27**
Ethyl Benzene	**5.0**	**39**
Xylenes (Total)	**5.0**	**250**
Chromatogram Pattern:		**C6-C12**

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
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Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Attention: Tim Utterback

Client Proj. ID: Shell 4255 MacArthur, Oakland
Sample Descript: S-2
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9511E41-02

Sampled: 11/17/95
Received: 11/20/95
Extracted: 11/22/95
Analyzed: 11/22/95
Reported: 11/29/95

'C Batch Number: GC112295BTEXEXA
ıstrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**3000**	**7800**
Benzene	15	N.D.
Toluene	**15**	**51**
Ethyl Benzene	**15**	**71**
Xylenes (Total)	**15**	**540**
Chromatogram Pattern:		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	122

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

EQUOIA ANALYTICAL - ELAP #1210

ike Gregory
oject Manager

Sequoia Analytical

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Weiss Associates	Client Proj. ID: Shell 4255 MacArthur, Oakland	Sampled: 11/17/95
5500 Shellmound	Sample Descript: S-3	Received: 11/20/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 11/22/95
	Analysis Method: 8015Mod/8020	Analyzed: 11/22/95
Attention: Tim Utterback	Lab Number: 9511E41-03	Reported: 11/29/95

QC Batch Number: GC112295BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**2500**	**7300**
Benzene	12	N.D.
Toluene	**12**	**14**
Ethyl Benzene	**12**	**42**
Xylenes (Total)	**12**	**500**
Chromatogram Pattern:		**C8-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

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Weiss Associates	Client Proj. ID: Shell 4255 MacArthur, Oakland	Sampled: 11/17/95
5500 Shellmound	Sample Descript: S-4	Received: 11/20/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 11/22/95
	Analysis Method: 8015Mod/8020	Analyzed: 11/22/95
Attention: Tim Utterback	Lab Number: 9511E41-04	Reported: 11/29/95

QC Batch Number: GC112295BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**1.5**
Benzene	**0.0050**	**0.052**
Toluene	0.0050	N.D.
Ethyl Benzene	**0.0050**	**0.021**
Xylenes (Total)	**0.0050**	**0.0069**
Chromatogram Pattern:		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	120

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

EQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 4255 MacArthur, Oakland	Sampled: 11/17/95
5500 Shellmound	Sample Descript: S-5	Received: 11/20/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 11/22/95
	Analysis Method: 8015Mod/8020	Analyzed: 11/22/95
Attention: Tim Utterback	Lab Number: 9511E41-05	Reported: 11/29/95

QC Batch Number: GC112295BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**1.1**
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	**0.0050**	**0.013**
Chromatogram Pattern:		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	119

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Attention: Tim Utterback

Client Proj. ID: Shell 4255 MacArthur, Oakland
Sample Descript: S-6
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9511E41-06

Sampled: 11/17/95
Received: 11/20/95
Extracted: 11/22/95
Analyzed: 11/22/95
Reported: 11/29/95

QC Batch Number: GC112295BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**1.1**
Benzene	**0.0050**	**0.19**
Toluene	0.0050	N.D.
Ethyl Benzene	**0.0050**	**0.046**
Xylenes (Total)	**0.0050**	**0.020**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	124

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

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Mike Gregory
Project Manager

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Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Attention: Tim Utterback

Client Proj. ID: Shell 4255 MacArthur, Oakland
Sample Descript: S-7
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9511E41-07

Sampled: 11/17/95
Received: 11/20/95
Extracted: 11/22/95
Analyzed: 11/27/95
Reported: 11/29/95

QC Batch Number: GC112295BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**2.5**	**10**
Benzene	**0.012**	**0.12**
Toluene	**0.012**	**0.030**
Ethyl Benzene	**0.012**	**0.24**
Xylenes (Total)	**0.012**	**0.98**
Chromatogram Pattern:		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	102

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

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Mike Gregory
Project Manager

Sequoia Analytical

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Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Attention: Tim Utterback

Client Proj. ID: Shell 4255 MacArthur, Oakland
Sample Descript: S-8
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9511E41-08

Sampled: 11/17/95
Received: 11/20/95
Extracted: 11/22/95
Analyzed: 11/22/95
Reported: 11/29/95

QC Batch Number: GC112295BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1000**	**2800**
Benzene	5.0	N.D.
Toluene	**5.0**	**5.1**
Ethyl Benzene	**5.0**	**25**
Xylenes (Total)	**5.0**	**140**
Chromatogram Pattern:		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	109

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

EQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Weiss Associates	Client Proj. ID: Shell 4255 MacArthur, Oakland	Sampled: 11/17/95
5500 Shellmound	Sample Descript: S-9	Received: 11/20/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 11/22/95
	Analysis Method: 8015Mod/8020	Analyzed: 11/22/95
Attention: Tim Utterback	Lab Number: 9511E41-09	Reported: 11/29/95

QC Batch Number: GC112295BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**6.5**
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	**0.0050**	**0.021**
Chromatogram Pattern:		**C6-C12**

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
5500 Shellmound
Emeryville, CA 94608

Attention: Tim Utterback

Client Proj. ID: Shell 4255 MacArthur, Oakland
Sample Descript: S-10
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9511E41-10

Sampled: 11/17/95
Received: 11/20/95
Extracted: 11/22/95
Analyzed: 11/22/95
Reported: 11/29/95

QC Batch Number: GC112295BTEXEXA
Instrument ID: GCHP18

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	N.D.
Ethyl Benzene	**0.050**	**0.051**
Xylenes (Total)	**0.050**	**0.22**
Chromatogram Pattern:		**C8-C12**

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 4255 MacArthur, Oakland	Sampled: 11/17/95
5500 Shellmound	Sample Descript: S-11	Received: 11/20/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 11/22/95
	Analysis Method: 8015Mod/8020	Analyzed: 11/22/95
Attention: Tim Utterback	Lab Number: 9511E41-11	Reported: 11/29/95

QC Batch Number: GC112295BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**2.6**
Benzene	**0.0050**	**0.026**
Toluene	0.0050	N.D.
Ethyl Benzene	**0.0050**	**0.011**
Xylenes (Total)	**0.0050**	**0.014**
Chromatogram Pattern:		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	105

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
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Attention: Tim Utterback

Client Proj. ID: Shell 4255 MacArthur, Oakland
Sample Descript: S-12
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9511E41-12

Sampled: 11/17/95
Received: 11/20/95
Extracted: 11/22/95
Analyzed: 11/22/95
Reported: 11/29/95

QC Batch Number: GC112295BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**10**	**39**
Benzene	**0.050**	**0.26**
Toluene	0.050	N.D.
Ethyl Benzene	**0.050**	**0.42**
Xylenes (Total)	**0.050**	**1.7**
Chromatogram Pattern:		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	120

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 4255 MacArthur, Oakland	Sampled: 11/17/95
5500 Shellmound	Sample Descript: S-13	Received: 11/20/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 11/22/95
	Analysis Method: 8015Mod/8020	Analyzed: 11/27/95
Attention: Tim Utterback	Lab Number: 9511E41-13	Reported: 11/29/95

QC Batch Number: GC112295BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**2.5**	**12**
Benzene	**0.012**	**0.85**
Toluene	**0.012**	**0.46**
Ethyl Benzene	**0.012**	**0.31**
Xylenes (Total)	**0.012**	**1.5**
Chromatogram Pattern:		**C6-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
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Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Attention: Tim Utterback

Client Proj. ID: Shell 4255 MacArthur, Oakland
Sample Descript: S-14
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9511E41-14

Sampled: 11/17/95
Received: 11/20/95
Extracted: 11/22/95
Analyzed: 11/27/95
Reported: 11/29/95

QC Batch Number: GC112295BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**100**	**300**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	**0.50**	**3.8**
Xylenes (Total)	**0.50**	**10**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	112

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

EQUOIA 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 4255 MacArthur, Oakland	Sampled: 11/17/95
5500 Shellmound	Sample Descript: S-15	Received: 11/20/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 11/22/95
	Analysis Method: 8015Mod/8020	Analyzed: 11/22/95
Attention: Tim Utterback	Lab Number: 9511E41-15	Reported: 11/29/95

QC Batch Number: GC112295BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**50**	**210**
Benzene	**0.25**	**0.28**
Toluene	0.25	N.D.
Ethyl Benzene	**0.25**	**1.9**
Xylenes (Total)	**0.25**	**6.4**
Chromatogram Pattern:		**C8-C12**

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
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Tim Utterback

Client Project ID: Shell 4255 MacArthur, Oakland
Matrix: Solid
Work Order #: 9511E41 -01 - 08

Reported: Nov 29, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC112295BTEXEXA	GC112295BTEXEXA	GC112295BTEXEXA	GC112295BTEXEXA
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 #:	9511E59-11	9511E59-11	9511E59-11	9511E59-11
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/22/95	11/22/95	11/22/95	11/22/95
Analyzed Date:	11/22/95	11/22/95	11/22/95	11/22/95
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	0.16	0.16	0.48
MS % Recovery:	75	80	80	80
Dup. Result:	0.15	0.15	0.16	0.46
MSD % Recov.:	75	75	80	77
RPD:	0.0	6.5	0.0	4.3
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	GBLK112295BS-D	GBLK112295BS-D	BLK112295BS-D	GBLK112295BS-D
Prepared Date:	11/22/95	11/22/95	11/22/95	11/22/95
Analyzed Date:	11/22/95	11/22/95	11/22/95	11/22/95
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
LCS Result:	0.18	0.18	0.18	0.54
LCS % Recov.:	90	90	90	90

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

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates	Client Project ID:	Shell 4255 MacArthur, Oakland	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Tim Utterback	Work Order #:	9511E41 -09 -15	Reported: Nov 29, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC112295BTEXB	GC112295BTEXB	GC112295BTEXB	GC112295BTEXB
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 #:	9511E59-12	9511E59-12	9511E59-12	9511E59-12
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/22/95	11/22/95	11/22/95	11/22/95
Analyzed Date:	11/22/95	11/22/95	11/22/95	11/22/95
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	0.17	0.17	0.49
MS % Recovery:	85	85	85	82
Dup. Result:	0.17	0.17	0.17	0.52
MSD % Recov.:	85	85	85	87
RPD:	0.0	0.0	0.0	5.9
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	GBLK112195BS-A	GBLK112195BS-A	BLK112195BS-A	GBLK112195BS-A
Prepared Date:	11/22/95	11/22/95	11/22/95	11/22/95
Analyzed Date:	11/22/95	11/22/95	11/22/95	11/22/95
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
LCS Result:	0.16	0.16	0.16	0.50
LCS % Recov.:	80	80	80	83

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: 25114

Date: 11/17/95
Page 1 of 2

Site Address: 4255 MacArthur Blvd, Oakland

WIC#: 204-5510-0600

Shell Engineer: Jeff Byram
Phone No.: (510) 675-6146
Fax #:

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

Consultant Contact: WA JOB # 81-0757-30
Phone No.: (510) 450-6000
Fax #: 547-5043

Comments: Dispenser and Product Piping Samples

Sampled by: Tim Utterback

Printed Name: Tim Utterback

LAB: Sequoia

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
S-1	11/17/95		X			1						X							1	
S-2	"		"			"						"							2	
S-3	"		"			"						"							3	
S-4	"		"			"						"							4	
S-5	"		"			"						"							5	
S-6	"		"			"						"							6	
S-7	"		"			"						"							7	
S-8	"		"			"						"							8	

Relinquished By (signature): Tim Utterback	Printed Name: Tim Utterback	Date: 11/17/95 Time: 14:56	Received (signature): Keith R Grubb	Printed Name: Keith R Grubb	Date: 11/17/95 Time: 14:56
Relinquished By (signature): Keith R Grubb	Printed Name: Keith R Grubb	Date: 11/20/95 Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: PHIL T. LE	Date: 11/28/95 Time: 11:55

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

Rev. 1/11/93

Shell Oil Chn of Custody

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 951E41

Date: 11-17-95
Page 2 of 2

Site Address: 4255 MacArthur Blvd, Oakland

WIC#: 204-5510-0600

Shell Engineer: Jeff Byram
Phone No.: (510) 675-6146
Fax #:

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

Consultant Contact: WA JOB # 81-0757-30
Phone No.: (510) 450-6000
Fax #: 547-5043

Comments: Dispenser and Product Piping Samples

Sampled by: Tim Utterback

Printed Name: Tim Utterback

LAB: Sequoia

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
S-9	11/17/95		X			1						X							9	
S-10	"		"			"						"							10	
S-11	"		"			"						"							11	
S-12	"		"			"						"							12	
S-13	"		"			"						"							13	
S-14	"		"			"						"							14	
S-15	"		"			"						"							15	

Relinquished By (signature): Tim Utterback	Printed Name: Tim Utterback	Date: 11/17/95 Time: 14:56	Received (signature): Keith R Gruttb	Printed Name: Keith R Gruttb	Date: 11/17/95 Time: 14:56
Relinquished By (signature): Keith R Gruttb	Printed Name: Keith R Gruttb	Date: 11/20/95 Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: PHIL T. LE	Date: 11/20/95 Time: 11:55

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

Rev. 7/12/93

Shell Oil Chn. of Custody

ATTACHMENT C

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 GRANBERRY
Station #/Wic #:	204-5510-0600
Site Address:	4255 MAC ARTHUR BLVD.
City/State:	OAKLAND, CA
Estimated YD/Ton:	65 YARDS
Actual YD/Ton:	67.87 TONS
Disposal Facility:	LAIDLAW BUTTONWILLOW
Disposal Date:	DECEMBER 21, 26, 1995
Contact:	TIM OR BONNIE
Phone #:	(800) 544-7199
Hauler:	MANLEY & SONS TRUCKING, INC.
Contact:	TIM A. MANLEY
Phone #:	(916) 381-6864
Fax #:	(916) 381-1573

4157

Date & Time Faxed

12-27-95 1:15

Shell Oil Company

P.O. Box 4848
511 N. Brookhurst Street
Anaheim, California 92803

FACSIMILE TRANSMITTAL

TRANSMITTING FAX PHONE NUMBER: (714) 520-3570
(SSN) 8-520-3570 (Shell use)

DATE: 2/13/96

TO: Tim Utterback

FROM: Sharon Blanton

COMPANY: Weiss

COMPANY: Shell Oil Company
511 N. Brookhurst Street
Anaheim, CA. 92803

FACSIMILE: 510-547-5043

TELEPHONE: (714) 520-3312

TELEPHONE: 510-450-6193

NUMBER OF PAGES (INCLUDING TRANSMITTAL): 4

SPECIAL INSTRUCTIONS: manifests for soil (haz) at 4255 MacArthur, Oakland.

Sharon

TRANSMITTING EQUIPMENT: OMNIFAX G-77, AUTOMATIC

TO VERIFY RECEIPT CALL: Sharon Blanton

at: (714) 520-3312

WS/FAXSB

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-94)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST

GENERATOR

1. Generator's US EPA ID No.: CAL000159903
Manifest Document No.: 0 3 3 3 9
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address:
SHELL OIL COMPANY
HAZARDOUS WASTE DEPT.
P.O. BOX 4848
ANAHEIM, CA 92803

4. Generator's Phone (714) 520-3312

A. State Manifest Document Number: 92045742
B. State Generator's ID: HYHQ36010177

5. Transporter 1 Company Name: MANLEY & SONS TRUCKING
6. US EPA ID Number: CAL000027769
C. State Transporter's ID
D. Transporter's Phone: 916-381-6864

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address:
LAIDLAW ENVIRONMENTAL SERVICES
2500 W. LOKERN ROAD
BUTTONWILLOW, CA. 93206

10. US EPA ID Number: CAD980675276
G. State Facility's ID: CAD980675276
H. Facility's Phone: 805-762-7372

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON-RCRA HAZARDOUS WASTE SOLID,,	001	DT	48000	P	State 611; EPA/Other
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above:
a) SOIL CONTAMINATED WITH STLC LEAD 5.5 MG/L
9510139

K. Handling Codes for Wastes Listed Above:
a. 03
b.
c.
d.

15. Special Handling Instructions and Additional Information:
AVOID CONTACT WITH SKIN/EYES
24 HOUR EMERGENCY PHONE NUMBER (800) 424-9300
LAIDLAW PROFILE # 898-H-SHELL

FACILITY:
SERVICE STATION
4255 MACARTHUR BLVD
OAKLAND, CA. 94619

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature		Month	Day	Year
[illegible]	[signature]	ON BEHALF OF SHELL OIL CO.	12	21	95

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	12	21	95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
ALFRED ALCAWA	[signature]	12	[illegible]	95

2045510060044442

DO NOT WRITE BELOW THIS LINE.

4

DTSC 8022A (12/91)
EPA 8700—22

[illegible] SEND THIS COPY TO GENERATOR WITHIN 30 DAYS.
[illegible] hazardous waste for treatment [illegible] state, [illegible] completed copy of this copy and send to DTSC within 30 days.

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-94)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAL000211593 | Manifest Document No. 33390 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SHELL OIL COMPANY
HAZARDOUS WASTE DEPT.
P.O. BOX 4848
ANAHEIM, CA 92803

4. Generator's Phone (714) 520-3312

A. State Manifest Document Number 92045743

B. State Generator's ID HWB03501017

5. Transporter 1 Company Name
HARLEY & SONS TRUCKING

6. US EPA ID Number CAL000027765

C. State Transporter's ID

D. Transporter's Phone 916 451-6884

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
LAIDLAW ENVIRONMENTAL SERVICES
2300 W. CURRAN ROAD
ANTIOCH, CA. 94509

10. US EPA ID Number CAD981676474

G. State Facility's ID CAD981676474

H. Facility's Phone (510) 706-2900

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON-RCRA HAZARDOUS WASTE SOLID,	001	DT	4800	P	State EPA/Other
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL-CONTAMINATED WITH STLC-LEAD(5.3 MG/L

K. Handling Codes for Wastes Listed Above
02

L.

15. Special Handling Instructions and Additional Information
AVOID CONTACT WITH SKIN/EYES
24 HOUR EMERGENCY PHONE NUMBER (800) 424-9300
LAIDLAW PROFILE # 995-H-SHELL

FACILITY:
SERVICE STATION
#255 MACARTHUR BLVD
OAKLAND, CA. 94619

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Printed/Typed Name	Signature	Month	Day	Year
	ON BEHALF OF SHELL OIL CO.	1	12	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		1	12	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Don Lacom				

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (12/91)
EPA 8700—22

YOU SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS.
Generator who ships hazardous waste (or transport out-of-state, receives a signed copy of this copy and send to DTSC within 30 days.)

CALIFORNIA, CALL 1-800-852-7550

92045743

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-94)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAL000153033 Manifest Document No. 331 2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SHELL OIL COMPANY
HAZARDOUS WASTE DEPT.
P.O. BOX 4848
ANAHEIM, CA 92803

4. Generator's Phone (714) 520-3312

A. State Manifest Document Number 92045744

B. State Generator's ID HYH036810177

5. Transporter 1 Company Name
MANLEY & SONS TRUCKING

6. US EPA ID Number CAL000027759

C. State Transporter's ID

D. Transporter's Phone 916-381-6464

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
LAIDLAW ENVIRONMENTAL SERVICES
2500 W. LOKERN ROAD
BUTTONWILLOW, CA. 93206

10. US EPA ID Number CAD982675276

G. State Facility's ID CA9122067521212

H. Facility's Phone 805-762-7372

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON-RCRA HAZARDOUS WASTE SOLID, N.O.S.	001	DT	48000	P	State CA 1
					EPA/Other
b.					State
					EPA/Other
c.					State
					EPA/Other
d.					State
					EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL CONTAMINATED WITH STLC LEAD < 5 MG/L
951013

K. Handling Codes for Wastes Listed Above
a. 03 b.
c. d.

15. Special Handling Instructions and Additional Information
AVOID CONTACT WITH SKIN/EYES
24 HOUR EMERGENCY PHONE NUMBER (800) 424-9300
LAIDLAW PROFILE # 895-H-SHELL

FACILITY:
SERVICE STATION
4255 MACARTHUR BLVD
OAKLAND, CA. 94619

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Printed/Typed Name [illegible] Signature [illegible] ON BEHALF OF SHELL OIL CO. Month 12 Day 21 Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name [illegible] Signature [illegible] Month 12 Day 21 Year 95

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name [illegible] Signature [illegible] Month 12 Day 21 Year 95

2045510056B+4442 JB

DO NOT WRITE BELOW THIS LINE.

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

GENERATOR — TRANSPORTER — FACILITY

DTSC 8022A (12/91)
EPA 8700-22

[illegible] PLEASE PRINT OR TYPE. (FORM DESIGNED FOR USE ON ELITE (12-PITCH) TYPEWRITER.
[illegible] STATE LAWS AND WANT TO MAINTAIN ACCESS TO TRANSPORT OUT OF STATE, RETURN COMPLETED COPY OF THIS COPY AND ONE TO DTSC WITHIN 30 DAYS.)

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 4255 MacArthur, Oakland

Enclosed are the results from samples received at Sequoia Analytical on November 17, 1995. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9511H91 -01	SOLID, SS-1A Comp4(A-D)	11/17/95	Barium: EPTOX Extraction
9511H91 -01	SOLID, SS-1A Comp4(A-D)	11/17/95	Copper: EPTOX Extraction
9511H91 -01	SOLID, SS-1A Comp4(A-D)	11/17/95	Lead: EPTOX Extraction

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

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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 4255 MacArthur, Oakland

Lab Proj. ID: 9511H91

Sampled: 11/17/95
Received: 11/17/95
Analyzed: see below

Reported: 12/04/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9511H91-01				
Sample Desc : **SOLID,SS-1A Comp4(A-D)**				
Barium: EPTOX Extraction	**mg/L**	**12/01/95**	**0.10**	**26**
Copper: EPTOX Extraction	**mg/L**	**12/01/95**	**0.010**	**0.026**
Lead: EPTOX Extraction	mg/L	12/01/95	0.10	N.D.

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

EQUOIA ANALYTICAL - ELAP #1210

like Gregory
roject 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 4255 MacArthur, Oakland
Matrix: Liquid
Work Order #: 9511H91 -01

Reported: Dec 4, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME1201956010MDB	ME1201956010MDB	ME1201956010MDB	ME1201956010MDB
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 #:	9511J6301	9511J6301	9511J6301	9511J6301
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/1/95	12/1/95	12/1/95	12/1/95
Analyzed Date:	12/1/95	12/1/95	12/1/95	12/1/95
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	0.94	0.96	1.0
MS % Recovery:	100	94	96	100
Dup. Result:	1.0	0.93	0.95	1.0
MSD % Recov.:	100	93	95	100
RPD:	0.0	1.1	1.0	0.0
RPD Limit:	0-30	0-30	0-30	0-30
LCS #:	BLK120195	BLK120195	BLK120195	BLK120195
Prepared Date:	12/1/95	12/1/95	12/1/95	12/1/95
Analyzed Date:	12/1/95	12/1/95	12/1/95	12/1/95
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 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: 11/17/95
Page 1 of 1

Site Address: 4255 MacArthur Blvd, Oakland

WIC#: 204-5510-0600

Shell Engineer: Jeff Byram
Phone No.: 510-675-6146
Fax #:

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

Consultant Contact: Faith Daverin
Phone No.: (510) 450-6000
Fax #: 547-5043

WA JOB # 81-0757-8

Comments: Soil Stockpile

Sampled by: Tim Utterback

Printed Name: Tim Utterback

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
SS-1	11/17/95		X			4														Composite Sample. Test For disposal by Shell decision tree for soil impacted by Gasoline

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 ☐
- 96 days ☒ (Normal)
- Other ☐ _____

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

UST AGENCY: _____

Relinquished By (signature): Tim Utterback	Printed Name: Tim Utterback	Date: 11/17/95	Received (signature): Keith R Grubb	Printed Name: Keith R Grubb
		Time: 14:56		Date: 11/17/95
Relinquished By (signature):	Printed Name:	Date:	Received (signature):	Printed Name:
		Time:		Time: 14:56
Relinquished By (signature):	Printed Name:	Date:	Received (signature):	Printed Name:
		Time:		Date:
				Time:

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

Sequoia Analytical

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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 4255 MacArthur, Oakland

Enclosed are the results from samples received at Sequoia Analytical on November 20, 1995. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9511E74 -01	SOLID, SS-1A Comp SS-1,A-D	11/17/95	Barium: STLC Extraction
9511E74 -01	SOLID, SS-1A Comp SS-1,A-D	11/17/95	Copper: STLC Extraction
9511E74 -01	SOLID, SS-1A Comp SS-1,A-D	11/17/95	Lead: STLC Extraction
9511E74 -01	SOLID, SS-1A Comp SS-1,A-D	11/17/95	Selenium: STLC Extraction
9511E74 -01	SOLID, SS-1A Comp SS-1,A-D	11/17/95	ITTLCS Title 22: Metals, T
9511E74 -01	SOLID, SS-1A Comp SS-1,A-D	11/17/95	Organic Lead
9511E74 -01	SOLID, SS-1A Comp SS-1,A-D	11/17/95	TPHGBS Purgeable TPH/BTEX
9511E74 -02	SOLID, SS-1B	11/17/95	TPHGBS Purgeable TPH/BTEX
9511E74 -03	SOLID, SS-1C	11/17/95	TPHGBS Purgeable TPH/BTEX
9511E74 -04	SOLID, SS-1D	11/17/95	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

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Veiss Associates
500 Shellmound
Emeryville, CA 94608

Client Proj. ID: Shell 4255 MacArthur, Oakland
Lab Proj. ID: 9511E74

Sampled: 11/17/95
Received: 11/20/95
Analyzed: see below

Attention: Faith Daverin

Reported: 11/28/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9511E74-01				
Sample Desc : **SOLID,SS-1A Comp SS-1,A-D**				
Barium: STLC Extraction	**mg/L**	**11/27/95**	**0.10**	**210**
Copper: STLC Extraction	**mg/L**	**11/27/95**	**0.010**	**39**
Lead: STLC Extraction	**mg/L**	**11/27/95**	**0.10**	**7.0**
Organic Lead	mg/Kg	11/22/95	2.0	N.D.
Selenium: STLC Extraction	mg/L	11/27/95	0.10	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
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 4255 MacArthur, Oakland	Sampled: 11/17/95
5500 Shellmound	Sample Descript: SS-1A Comp SS-1,A-D	Received: 11/20/95
Emeryville, CA 94608	Matrix: SOLID	
	Analysis Method: Title 22	Analyzed:
Attention: Faith Daverin	Lab Number: 9511E74-01	Reported: 11/28/95

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**	**6.8**
Arsenic, As	500	5.0	N.D.
Barium, Ba	**10000**	**5.0**	**1700**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**46**
Chromium, Cr (VI)	**500**	**0.050**	**-**
Cobalt, Co	**8000**	**2.5**	**9.0**
Copper, Cu	**2500**	**0.50**	**790**
Lead, Pb	**1000**	**5.0**	**230**
Mercury, Hg	**20**	**0.20**	**2.8**
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**31**
Selenium, Se	**100**	**5.0**	**14**
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**70**
Zinc, Zn	**5000**	**0.50**	**620**
Asbestos, fibers/g	**10000**		**-**
Fluoride salts	**18000**	**-**	**-**

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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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 4255 MacArthur, Oakland
Sample Descript: SS-1A Comp SS-1,A-D
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9511E74-01

Sampled: 11/17/95
Received: 11/20/95
Extracted: 11/22/95
Analyzed: 11/22/95
Reported: 11/28/95

C Batch Number: GC112295BTEXEXA
strument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**2.7**
Benzene	**0.0050**	**0.023**
Toluene	0.0050	N.D.
Ethyl Benzene	**0.0050**	**0.0073**
Xylenes (Total)	**0.0050**	**0.013**
Chromatogram Pattern:		**C9-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	121

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

EQUOIA ANALYTICAL - ELAP #1210

ike Gregory
oject 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 4255 MacArthur, Oakland	Sampled: 11/17/95
5500 Shellmound	Sample Descript: SS-1B	Received: 11/20/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 11/22/95
	Analysis Method: 8015Mod/8020	Analyzed: 11/22/95
Attention: Faith Daverin	Lab Number: 9511E74-02	Reported: 11/28/95

QC Batch Number: GC112295BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**10**	**79**
Benzene	0.050	N.D.
Toluene	0.050	N.D.
Ethyl Benzene	**0.050**	**0.30**
Xylenes (Total)	**0.050**	**0.82**
Chromatogram Pattern:		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	127

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

Veiss Associates	Client Proj. ID: Shell 4255 MacArthur, Oakland	Sampled: 11/17/95
5500 Shellmound	Sample Descript: SS-1C	Received: 11/20/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 11/22/95
	Analysis Method: 8015Mod/8020	Analyzed: 11/22/95
Attention: Faith Daverin	Lab Number: 9511E74-03	Reported: 11/28/95

C Batch Number: GC112295BTEXEXA
strument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**50**	**130**
Benzene	0.25	N.D.
Toluene	0.25	N.D.
Ethyl Benzene	**0.25**	**0.40**
Xylenes (Total)	**0.25**	**1.5**
Chromatogram Pattern:		**C9-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	126

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

EQUOIA ANALYTICAL - ELAP #1210

ke Gregory
oject Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 4255 MacArthur, Oakland	Sampled: 11/17/95
5500 Shellmound	Sample Descript: SS-1D	Received: 11/20/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 11/22/95
	Analysis Method: 8015Mod/8020	Analyzed: 11/22/95
Attention: Faith Daverin	Lab Number: 9511E74-04	Reported: 11/28/95

QC Batch Number: GC112295BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**2.5**	**22**
Benzene	**0.012**	**0.079**
Toluene	**0.012**	**0.057**
Ethyl Benzene	**0.012**	**0.16**
Xylenes (Total)	**0.012**	**0.25**
Chromatogram Pattern:		**C8-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	149 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

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Veiss Associates
500 Shellmound
meryville, CA 94608
ttention: Faith Daverin

Client Proj. ID: Shell 4255 MacArthur, Oakland
Lab Proj. ID: 9511E74

Received: 11/20/95
Reported: 11/28/95

LABORATORY NARRATIVE

#Q - Surrogate coelution was confirmed.

EQUOIA ANALYTICAL

ke Gregory
oject Manager

Sequoia Analytical

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Weiss Associates	Client Project ID:	Shell 4255 MacArthur, Oakland	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9511E74 - 01 - 04	Reported: Nov 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC112295BTEXEXA	GC112295BTEXEXA	GC112295BTEXEXA	GC112295BTEXEXA
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 #:	9511E5911	9511E5911	9511E5911	9511E5911
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/22/95	11/22/95	11/22/95	11/22/95
Analyzed Date:	11/22/95	11/22/95	11/22/95	11/22/95
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	0.16	0.16	0.48
MS % Recovery:	75	80	80	80
Dup. Result:	0.15	0.15	0.16	0.46
MSD % Recov.:	75	75	80	77
RPD:	0.0	6.5	0.0	4.3
RPD Limit:	0-50	0-50	0-50	0-50
LCS #:	BLK112295	BLK112295	BLK112295	BLK112295
Prepared Date:	11/22/95	11/22/95	11/22/95	11/22/95
Analyzed Date:	11/22/95	11/22/95	11/22/95	11/22/95
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
LCS Result:	0.18	0.18	0.18	0.54
LCS % Recov.:	90	90	90	90
MS/MSD LCS Control Limits	55-145	47-149	47-155	56-140

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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

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Weiss Associates	Client Project ID:	Shell 4255 MacArthur, Oakland	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9511E74- 01	Reported: Nov 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	TTLC Beryllium	TTLC Cadmium	TTLC Chromium	TTLC Nickel
QC Batch#:	ME1121956010MDE	ME1121956010MDE	ME1121956010MDE	ME1121956010MDE
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	SO/CM	SO/CM	SO/CM	SO/CM
MS/MSD #:	9511E0401	9511E0401	9511E0401	9511E0401
Sample Conc.:	73	N.D.	N.D.	52
Prepared Date:	11/21/95	11/21/95	11/21/95	11/21/95
Analyzed Date:	11/22/95	11/22/95	11/22/95	11/22/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
Result:	170	95	89	150
MS % Recovery:	97	95	89	98
Dup. Result:	170	94	88	150
MSD % Recov.:	97	94	88	98
RPD:	0.0	1.1	1.1	0.0
RPD Limit:	0-30	0-30	0-30	0-30
LCS #:	BLK112195	BLK112195	BLK112195	BLK112195
Prepared Date:	11/21/95	11/21/95	11/21/95	11/21/95
Analyzed Date:	11/22/95	11/22/95	11/22/95	11/22/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
LCS Result:	100	100	98	100
LCS % Recov.:	100	100	98	100
MS/MSD LCS Control Limits	75-125	75-125	75-125	75-125

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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

Client Project ID: Shell 4255 MacArthur, Oakland
Matrix: Liquid
Work Order #: 9511E74-01

Reported: Nov 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	STLC Beryllium	STLC Cadmium	STLC Chromium	STLC Nickel
QC Batch#:	ME1127956010MDB	ME1127956010MDB	ME1127956010MDB	ME1127956010MDB
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010
Analyst:	SO/CM	SO/CM	SO/CM	SO/CM
MS/MSD #:	9511D8001	9511D8001	9511D8001	9511D8001
Sample Conc.:	N.D.	N.D.	0.026	N.D.
Prepared Date:	11/27/95	11/27/95	11/27/95	11/27/95
Analyzed Date:	11/27/95	11/27/95	11/27/95	11/27/95
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	0.99	1.0	1.0
MS % Recovery:	100	99	97	100
Dup. Result:	0.96	0.92	0.94	0.93
MSD % Recov.:	96	92	91	93
RPD:	4.1	7.3	6.2	7.3
RPD Limit:	0-30	0-30	0-30	0-30
LCS #:	BLK112795	BLK112795	BLK112795	BLK112795
Prepared Date:	11/27/95	11/27/95	11/27/95	11/27/95
Analyzed Date:	11/27/95	11/27/95	11/27/95	11/27/95
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 LCS Control Limits	75-125	75-125	75-125	75-125

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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Weiss Associates	Client Project ID:	Shell 4255 MacArthur, Oakland	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9511E74- 01	Reported: Nov 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Organic Lead
QC Batch#:	ME1122957000MDZ
Analy. Method:	LUFT
Prep. Method:	LUFT
Analyst:	S. Flynn
MS/MSD #:	9511F2110
Sample Conc.:	N.D.
Prepared Date:	11/22/95
Analyzed Date:	11/22/95
Instrument I.D.#:	MV2
Conc. Spiked:	20 mg/Kg
Result:	22
MS % Recovery:	110
Dup. Result:	24
MSD % Recov.:	120
RPD:	9.0
RPD Limit:	0-30

LCS #:	BLK112295
Prepared Date:	11/22/95
Analyzed Date:	11/22/95
Instrument I.D.#:	MV2
Conc. Spiked:	20 mg/Kg
LCS Result:	18
LCS % Recov.:	90

MS/MSD LCS Control Limits	75-125

SEQUOIA ANALYTICAL

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Weiss Associates	Client Project ID:	Shell 4255 MacArthur, Oakland	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9511E74-01	Reported: Nov 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Mercury
QC Batch#:	ME112795747M4A
Analy. Method:	EPA 7471
Prep. Method:	EPA 7471
Analyst:	T. Hua
MS/MSD #:	9511G51-01A
Sample Conc.:	N.D.
Prepared Date:	11/27/95
Analyzed Date:	11/27/95
Instrument I.D.#:	MPE4
Conc. Spiked:	0.020 mg/kg
Result:	0.17
MS % Recovery:	85
Dup. Result:	0.19
MSD % Recov.:	95
RPD:	11
RPD Limit:	0-30

LCS #:	BLK112795A
Prepared Date:	11/27/95
Analyzed Date:	11/27/95
Instrument I.D.#:	MPE4
Conc. Spiked:	0.20 mg/kg
LCS Result:	0.16
LCS % Recov.:	80

MS/MSD	75-125
LCS	75-125
Control Limits	

SEQUOIA ANALYTICAL

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Project Manager

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ss Associates
) Shellmound
eryville, CA 94608
ntion: Faith Daverin

ect: Shell 4255 MacArthur, Oakland

Enclosed are the results from samples received at Sequoia Analytical on November 17, 1995. requested analyses are listed below:

MPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
1H91 -01	SOLID, SS-1A Comp4(A-D)	11/17/95	Barium: EPTOX Extraction
1H91 -01	SOLID, SS-1A Comp4(A-D)	11/17/95	Copper: EPTOX Extraction
1H91 -01	SOLID, SS-1A Comp4(A-D)	11/17/95	Lead: EPTOX Extraction

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

y truly yours,

EQUOIA ANALYTICAL

ke Gregory
oject Manager

Sequoia Analytical

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Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Attention: Faith Daverin

Client Proj. ID: Shell 4255 MacArthur, Oakland

Lab Proj. ID: 9511H91

Sampled: 11/17/95
Received: 11/17/95
Analyzed: see below

Reported: 12/04/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9511H91-01				
Sample Desc : SOLID,SS-1A Comp4(A-D)				
Barium: EPTOX Extraction	**mg/L**	**12/01/95**	**0.10**	**26**
Copper: EPTOX Extraction	**mg/L**	**12/01/95**	**0.010**	**0.026**
Lead: EPTOX Extraction	mg/L	12/01/95	0.10	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

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

Client Project ID: Shell 4255 MacArthur, Oakland
Matrix: Liquid
Work Order #: 9511H91 -01

Reported: Dec 4, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME1201956010MDB	ME1201956010MDB	ME1201956010MDB	ME1201956010MDB
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 #:	9511J6301	9511J6301	9511J6301	9511J6301
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/1/95	12/1/95	12/1/95	12/1/95
Analyzed Date:	12/1/95	12/1/95	12/1/95	12/1/95
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	0.94	0.96	1.0
MS % Recovery:	100	94	96	100
Dup. Result:	1.0	0.93	0.95	1.0
MSD % Recov.:	100	93	95	100
RPD:	0.0	1.1	1.0	0.0
RPD Limit:	0-30	0-30	0-30	0-30
LCS #:	BLK120195	BLK120195	BLK120195	BLK120195
Prepared Date:	12/1/95	12/1/95	12/1/95	12/1/95
Analyzed Date:	12/1/95	12/1/95	12/1/95	12/1/95
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 LCS Control Limits	75-125	75-125	75-125	75-125

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SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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9511H91.WAA <1>

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 951IE74

Date: 11/17/95
Page 1 of 1

Site Address: 4255 Mac Arthur Blvd., Oakland

WIC#: 204-5510-0600

Shell Engineer: Jeff Byram
Phone No.: 510-675-6146
Fax #:

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

Consultant Contact: Faith Daveron
Phone No.: (510) 450-6000
Fax #: 547-5043
WA JOB # 81-0757-8

Comments: Soil Stockpile

Sampled by: T. Utterback

Printed Name: Tim Utterback

LAB: Sequoia

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
1 SS-1	11/16/95		X			4												Composite Sample. Test For disposal by Shell decision tree For Soil impacted by Gasoline (UST related)

Relinquished By (signature)	Printed Name	Date / Time	Received (signature)	Printed Name	Date / Time
Tim Utterback	Tim Utterback	Date: 11/17/95 Time: 14:56	Keith R Grubb	Keith R Grubb	Date: 11/17/95 Time: 14:56
Keith R Grubb	Keith R Grubb	Date: 11/20/95 Time:			Date: Time:
		Date: Time:		PHIL T. LE	Date: 11/20/95 Time: 11:55

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

Rev. 1/12/93

Shell Oil Chn. of Custody