desert petroleum inc.

John Rutherford
Director
Environmental Affairs

90 MAR 19 AM 11: 52

March 16, 1990

Mr. Larry Seto Alameda County Health Department Hazardous Materials Division 80 Swan Way, Room 200 Oakland, CA 94621

8/31/89 report attached

RE: Arco #796

2844 Mountain Blvd.

Oakland, CA

Dear Mr. Seto:

Enclosed please find a copy of the soil sampling report from our consultant which you requested. This report outlines the activities involved in the excavation of soil at the location.

I am also enclosing for your information more recent analyses of the stockpiled soil pertaining to lead.

We are working with the contractor, Diablo Tank, to remove the onsite piles to an authorized disposal facility as quickly as possible.

Very truly yours,

John D. Rutherford

JDR:jc

enclosures

Project: 1891123A File: 891123a.rpt

August 31, 1989

Soil Sampling Report

Name of Business: Desert Petroleum (ARCO Station)

Site Address: 2844 Mountain Blvd.

Oakland, California

Regulatory Overview: Larry Seto, Alameda County Health Department, Hazardous Materials Division.

Type of Work Performed:

Soil removal, sampling, and sample analyses recommended by Mr. Larry Seto from fill end of 3,000 gallon, super unleaded, underground storage tank.

On-Site Technologies provided sampling and sample analyses for soil obtained; 1) from excavation sides and bottom, following soil removal by Diablo Tank and Equipment from fill end of 3,000 gallon, super unleaded, underground storage tank, 2) from existing stockpiled soil (Stockpile #1) generated from previous product line trench excavation, and 3) from stockpiled soil (Stockpiles #2 and #3) generated from 1). See Site Plan (Figure 1).

In addition, groundwater which had accumulated within the excavation was sampled and analyzed.

All soil and groundwater samples were analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline plus Benzene, Toluene, Ethylbenzene, and Xylene (BTEX).

Prior to the commencement of field activities proposed soil sample locations, sampling procedures, sample analyses, and a description of the general area of soil excavation was submitted to the Alameda County Health Department, Hazardous Materials Division by On-Site Technologies (Sampling Plan, dated July 5, 1989) at the request of Mr. Larry Seto.

Date of Field Activities: July 7 and August 18, 1989

August 31, 1989

Method of Soil Sample Collection and Handling:

- Soil sampled from the excavation was brought to the surface in the shovel of a backhoe and remained in the shovel. Several inches of soil was removed from the exposed surface and the sample was obtained by driving a clean brass tube with a mallet into the soil. Soil sampled from the stockpiles was performed in a similar manner except that two to three feet of material was removed from the surface of the stockpile before sampling.
- Each end of the sample tube containing the soil was covered with aluminum foil followed by plastic end caps and then sealed with duct tape.
- Soil samples were labeled and immediately placed in a refrigerated ice chest. They were maintained in that condition until delivered to a DHS certified analytical laboratory for analysis.
- Four soil samples for each 50 cubic yards of stockpiled soil was composited (by the laboratory) into into one sample in accordance with the Bay Area Air Quality Management District.
- All soil sample locations and excavated areas are shown on the Site Plan (Figure 1)
- Chain-of-custody documentation was maintained for all samples and copies are presented in Appendix A.

Site Observations:

On July 7, 1989 On-Site Technologies personnel provided guidance to equipment operators for the removal of soil presumably impacted by petroleum products. Soil was excavated to a radius of approximately five feet from the tank fill end to a depth of 12.0 feet. Operations were halted due to limited space and to await the results of sample analyses. Soil sample locations and excavation limits are presented in Figures 1 and 2.

On August 18, 1989, an accumulation of groundwater was observed in the excavation at a depth of 8.5 to 8.7 feet below grade. A discontinous layer of floating product was observed on the groundwater surface. The groundwater surface was inspected using a clear acrylic bailer. Inspection of the bailed sample indicated that the floating product was too thin to measure. A grab groundwater sample was collected in three 40 ml VOA vials each preserved by adjusting the pH to 2.0 to 2.5 with HCl. The samples were labeled and immediately placed in an ice chest containing blue ice, until picked up by Anametrix at the end of the day.

August 31, 1989

Soil removal and sampling operations resumed with a depth limit of 8.0 feet (immediately above the water table). Soil sample locations and excavation limits are presented in Figures 1 and 2.

<u>Description of Soil Conditions:</u>

Soil types encountered are described in accordance with the Unified Soil Classification System.

From a depth of 0 to 1.0 feet is (baserock) a reddish brown, damp, very stiff, very gravelly clay (CL) overlain by asphalt approximately 0.2 feet in thickness.

From a depth of 1.0 to 4.5 feet is a dark grey to black, damp, stiff, very silty clay (CL) with minor gravel and abundant organics.

From a depth of 4.5 to 12.0 feet is a dark to olive green, damp, stiff, gravelly clay (CL).

Soil Sample Identification:

	Depth		
Sample #	(ft.)	<u>Location</u>	
SS325-1	@ 10.0	See Figu	res 1 & 2
SS325-2	@ 12.0	11 11	tf
SS325-3	@ 4.0	11 11	17
SS325-4	@ 10.0	11 11	11
SS325-5	@ 12.0	11 11	11
SS325-6	@ 4.0	FF 19	10
SS325-7	@ 10.0	If 1 1	11
SS325-8	@ 12.0	11 11	11
SS325-9	through	SS325-12	Stockpile #1
SS325-13	_	SS325-16	Stockpile #2
WS325-17	_		•
SS325-18	@ 5.0	See Figu	re 1 & 2
SS325-19	@ 5.0		11
SS325-20		11 11	11
SS325-21	-	11 11	11
	_	SS325-25	Stockpile #3

Laboratory results:

All soil and groundwater samples were anlayzed for TPH (gasoline) plus BTEX by Anametrix, Inc. which is state certified for performing the requested analyses. Copies of the laboratory reports are presented in Appendix B. The results of all sample analyses are summarized in tabular format below:

Summary of Total Petroleum Hydrocarbon (gasoline) plus BTEX Results

		Sample					
		depth	TPH as			Ethyl-	Total
Sample #		(ft)	gasoline	<u>Benzene</u>	Toluene	benzene	<u> Xylenes</u>
<u>Soil Sam</u> p	<u>ple:</u>	s (in p	pm)				
SS325-1		10.0	3,300	ND	100	30	270
SS325-2	9	12.0	400	ND	1.0	0.8	3.8
SS325-3	@	4.0	12	ND	0.4	ND	1.2
SS325-4	6	10.0	30	ND	ND	ND	0.3
SS325-5	e	12.0	13	0.4	1.0	0.2	1.3
SS325-6	6	4.0	2	ND	ND	ND	0.1
SS325-7	@	10.0	750	ND	25	15	75
SS325-8	9	12.0	5	0.1	0.4	ND	0.6
SS325-9							
through							
SS325-12	Sto	ockpile	#1 17	ND	0.2	ND	0.4
SS325-13		_					
through							
SS325-16	Sto	ockpile	#2 600	ND	13	9	51
SS325-18	0	5.0	ND	.0061	ND	ND	.008
SS325-19	9	5.0	ND	.0074	.009	ND	.0086
SS325-20	9	8.0	230	ND	3.8	1.3	8.5
SS325-21	@	8.0	870	3.2	45	11	78
SS325-22							
through							
SS325-25	Sto	ockpile	#3 1.6	ND	.059	.019	.24
		. •	"				
Water Sam	nple	e (in p	<u>pb)</u>				
SS325-17	(pr	pb)	160,000	720	2,200	ИD	1,100

Note: ND indicates non-detectable (see laboratory report for detection limits)

Note: SS325-9 through SS325-12 composited into one sample, SS325-13 through SS325-16 composited into one sample and SS325-22 through SS325-25 composited into one sample by the laboratory.

<u>Certification:</u>

To the best of our knowledge all statements are true and correct.

Reviewed by:

Alfred R. Diaz

Project Manager Hydrogoelogist Ronald W. Michelson Registered Geologist

(CA #3875)

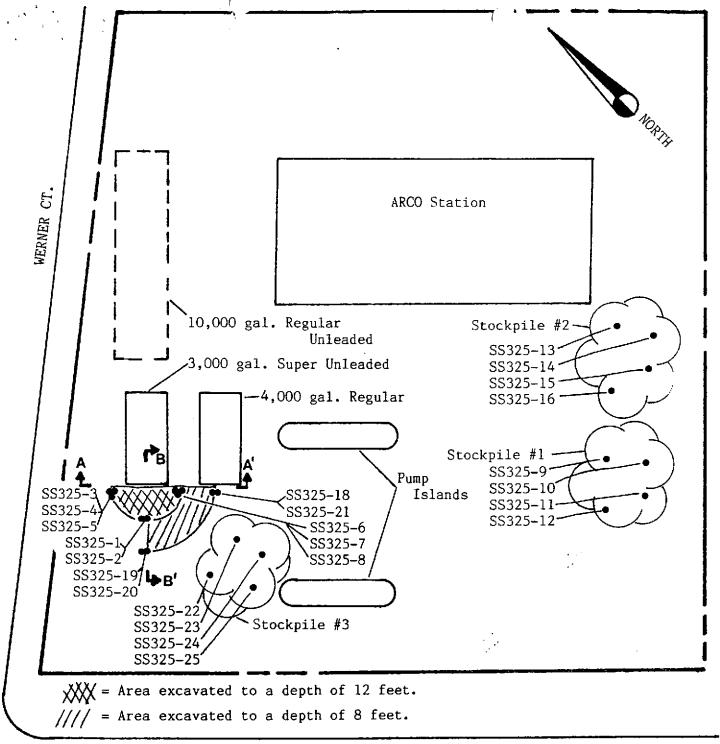
Distribution:

Mr. Larry Seto Alameda County Health Department Hazardous Materials Division 80 Swan Way, Room 200 Oakland, CA 94621

Mr. John Rutheford Desert Petroleum, Inc. P.O. Box 1601 Oxnard, CA 93032

Mr. Pat McShane Diablo Tank and Equipment 3930 Pacheco Blvd. Martinez, CA 94553

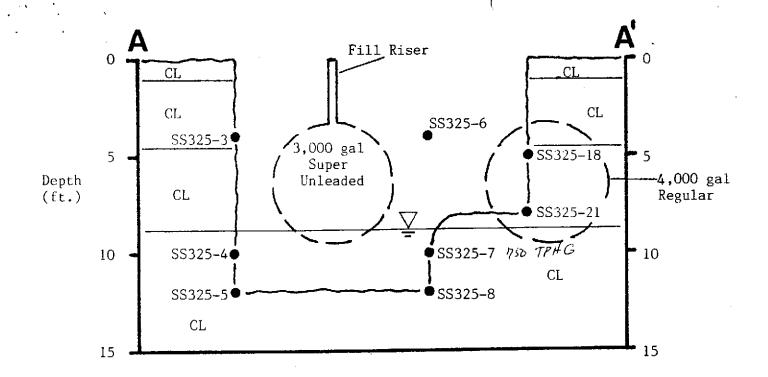


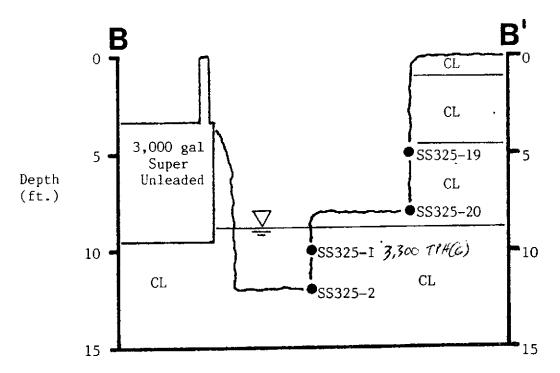


MOUNTAIN BLVD

Scale: 1" = 15'

Project No. 1891123A	Figure 1 - Site Plan	Desert Petroleum
	Technologies	2844 Mountain Boulevard Oakland, CA





Horizontal and Vertical Scale: 1'' = 5' $\overline{\sum}$ = Groundwater surface

Project No. 1891123A	Figure 2	Desert Petroleum
	Cross Sections AA' and BB'	2844 Mountain Boulevard Oakland, CA

ANAMETRIX INC

Environmental & Analytical Chemistry 1961 Concourse Drive, Suite E. San Jose, CA 95131 (408) 432-8192 - Fax (408) 432-8198



Fred Diaz On-Site Technologies 1715 South Bascom Avenue Campbell, CA 95008 July 17, 1989

Anametrix W.O.#: 8907031 Date Received : 07/07/89

Purchase Order#: N/A

Dear Mr. Diaz:

Your samples have been received for analysis. The REPORT SUMMARY lists your sample identifications and the analytical methods you requested. The following sections are included in this report: RESULTS.

NOTE: Amounts reported are net values, i.e. corrected for method blank contamination.

If there is any more that we can do, please give us a call. Thank you for using ANAMETRIX, INC.

Sincerely,

ANAMETRIX, INC.

Sarah Schoen, Ph.D.

GC Manager

SRS/dag

REPORT SUMMARY ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.#: 8907031
Date Received: 07/07/89
Purchase Order#: N/A
Project No.: 1891123A
Date Released: 07/17/89 Client : On-Site Technologies Address : 1715 South Bascom Avenue

City : Campbell, CA 95008 Attn. : Fred Diaz

Anametrix Sample I.D. I.D.	Date Date Date Date Date Date	
RESULTS		
8907031-01 SS325-1 8907031-02 SS325-2 8907031-03 SS325-3 8907031-04 SS325-4 8907031-05 SS325-5 8907031-06 SS325-6 8907031-07 SS325-7 8907031-08 SS325-8 8907031-09 SS325-9 THRU 12 8907031-10 SS325-13 THRU 16	SOIL 07/07/89 TPHg SOIL 07/07/89 TPHg	07/13/89 N/A 07/14/89 N/A 07/14/89 N/A 07/14/89 N/A 07/14/89 N/A 07/14/89 N/A 07/14/89 N/A 07/13/89 N/A 07/13/89 N/A 07/13/89 N/A 07/13/89 N/A 07/13/89 N/A

Anametrix I.D. : 8907031-01 Sample I.D. : 1891123A SS325-1

: RK Analyst Supervisor : SOIL Matrix Date sampled: 07/07/89

Supervisor : 505 Date released : 07/17/89 Date ext. TOG : N/A Date anl. TOG : N/A Date anl.TPHg: 07/13/89 Date ext. TPHd: N/A Date anl.TPHd: N/A

 CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	8000 8000 8000 8000 80000	ND 100000 30000 270000 3300000

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

 Sample I.D.: 1891123A SS325-2
 Anametrix I.D.: 8907031-02

 Matrix: SOIL
 Analyst
 RK

 Date sampled: 07/07/89
 Supervisor
 MS

 Date anl.TPHg: 07/14/89
 Date released
 07/17/89

 Date ext.TPHd: N/A
 Date ext. TOG
 N/A

 Date anl.TPHd: N/A
 Date anl. TOG
 N/A

 CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	400 400 400 400 400	ND 1000 800 3800 400000

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

Sample I.D. : 1891123A SS325-3

Anametrix I.D.: 8907031-03

: SOIL Matrix

Date anl.TPHd: N/A

Analyst : RK Supervisor : MJ Date released : 07/17/89

Date sampled: 07/07/89 Date anl.TPHg: 07/14/89 Date ext. TPHd: N/A

Date ext. TOG : N/A Date anl. TOG : N/A

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	100 100 100 100 100	ND 400 ND 1200 12000

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID

using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

Sample I.D. : 1891123A SS325-4 Anametrix I.D.: 8907031-04

Analyst : RK Supervisor : 57./

Matrix : SOIL
Date sampled : 07/07/89
Date anl.TPHg: 07/14/89
Date ext.TPHd: N/A Date released : 07/17/89
Date ext. TOG : N/A
Date anl. TOG : N/A Date anl. TPHd: N/A

	Compound Name	Reporting	Amount
		Limit	Found
CAS #		(ug/kg)	(ug/kg)
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	100 100 100 100 1000	ND ND ND 300 30000

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

Anametrix I.D.: 8907031-05 Sample I.D. : 1891123A SS325-5

: SOIL Matrix

Date anl.TPHd: N/A

Analyst : RK
Supervisor : RJ
Date released : 07/17/89
Date ext. TOG : N/A
Date anl. TOG : N/A Date sampled: 07/07/89 Date anl.TPHg: 07/14/89 Date ext.TPHd: N/A

Reporting Amount Limit Found (ug/kg) (ug/kg) CAS # Compound Name 100 100 400 |71-43-2 | Benzene | 108-88-3 | Toluene | 100-41-4 | Ethylbenzene 1000 | 100 100 200 1300 Total Xylenes 11330-20-7 13000 | TPH as Gasoline 1000

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

Sample I.D.: 1891123A SS325-6

Matrix: SOIL

Date sampled: 07/07/89

Date anl.TPHg: 07/14/89

Date ext.TPHd: N/A

Date anl.TPHd: N/A

Date anl.TOG: N/A

Date anl.TOG: N/A

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	100 100 100 100	ND ND ND 100 2000

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

Sample I.D. : 1891123A SS325-7 Anametrix I.D. : 8907031-07

: RX Analyst : SOIL Matrix : M5 Supervisor

Date sampled: 07/07/89 Date an1. TPHg: 07/14/89

Date released : 07/17/89
Date ext. TOG : N/A
Date anl. TOG : N/A Date ext.TPHd: N/A Date anl TPHd: N/A

 CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	4000 4000 4000 4000 4000	ND 25000 15000 75000 75000

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

Sample I.D. : 1891123A SS325-8 Anametrix I.D.: 8907031-08 Analyst : RK Supervisor : 575 : SOIL Matrix

Date sampled: 07/07/89 Date released : 07/17/89 Date an1. TPHq: 07/13/89

Date ext. TOG : N/A
Date anl. TOG : N/A Date ext.TPHd: N/A Date anl. TPHd: N/A

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	100 100 100 100 1000	100 400 ND 600 5000

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

Sample I.D. : 1891123A SS325-9 THRU 12

Matrix : SOIL

Date sampled: 07/07/89

Date anl.TPHg: 07/14/89

Date ext.TPHd: N/A

Date anl.TPHd: N/A

Date anl.TOG : N/A

Date anl.TOG : N/A

	Compound Name	Reporting	Amount
		Limit	Found
CAS #		(ug/kg)	(ug/kg)
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	100 100 100 100 1000	ND 200 ND 400 17000

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

STOCKPIE# 1

Sample I.D. : 1891123A SS325-13 THRU 16 Anametrix I.D. : 8907031-10 : KK Analyst Supervisor : SOIL Matrix Date sampled: 07/07/89 Date released : 07/17/89
Date ext. TOG : N/A
Date anl. TOG : N/A Date anl.TPHg: 07/13/89 Date ext.TPHd: N/A Date anl. TPHd: N/A

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	4000 4000 4000 4000	ND 13000 9000 51000 600000

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID

using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

STOCK PILE IT 2

ANAMETRIX INC

Environmental & Analytical Chemistry 1961 Concourse Drive, Suite E. San Jose, CA 95131 (408) 432-8192 • Fax (408) 432-8198



Fred Diaz On-Site Technologies 1715 S. Bascom Avenue Campbell, CA 95008 August 29, 1989

Anametrix W.O.#: 8908168 Date Received : 08/18/89 Project No. : 1891123A

Dear Mr. Diaz:

Your samples have been received for analysis. The REPORT SUMMARY lists your sample identifications and the analytical methods you requested. The following sections are included in this report: RESULTS.

NOTE: Amounts reported are net values, i.e. corrected for method blank contamination.

If there is any more that we can do, please give us a call. Thank you for using ANAMETRIX, INC.

Sincerely,

ANAMETRIX, INC.

Terry Cooke TPH Supervisor

TC/1m

REPORT SUMMARY ANAMETRIX, INC. (408) 432-8192

Client Address City Attn.	: On-Site Technologi : 1715 S. Bascom Ave : Campbell, CA 9500 : Fred Diaz	enue	Anametrix W.O.#: Date Received : Purchase Order#: Project No. : Date Released :	08/18/89 N/A
Anametri	X Sample I.D.	Date Matrix Sampled	Date Method Extract	Date Inst Analyzed I.D.
8908168- 8908168- 8908168- 8908168-	01 WS325-17 02 SS325-18 03 SS325-19 04 SS325-20 05 SS325-21 06 SS325-22,23,24,25	WATER 08/18/89 SOIL 08/18/89 SOIL 08/18/89 SOIL 08/18/89 SOIL 08/18/89 SOIL 08/18/89	TPHG TPHG TPHG TPHG	08/25/89 N/A 08/25/89 N/A 08/24/89 N/A 08/23/89 N/A 08/22/89 N/A 08/28/89 N/A

Sample I.D.: 1891123A WS325-17

Matrix: WATER
Date sampled: 08/18/89
Date anl.TPHg: 08/25/89
Date ext.TPHd: N/A
Date anl.TPHd: N/A

Date anl.TPHd: N/A

Anametrix I.D.: 8908168-01
Analyst
Supervisor: 7
Date released: 08/29/89
Date ext. TOG: N/A
Date anl.TOG: N/A

CAS #	Compound Name	Detection Limit (ug/l)	Amount Found (ug/l)
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	200 200 200 400 10000	720 2200 ND 1100 160000

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

 Sample I.D.: 1891123A SS325-18
 Anametrix I.D.: 8908168-02

 Matrix: SOIL
 Analyst
 C

 Date sampled: 08/18/89
 Supervisor
 T

 Date anl.TPHg: 08/25/89
 Date released
 08/29/89

 Date ext.TPHd: N/A
 Date ext. TOG
 N/A

 Date anl.TPHd: N/A
 Date anl. TOG
 N/A

	Compound Name	Detection	Amount
		Limit	Found
CAS #		(ug/kg)	(ug/kg)
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	5 5 5 5 1000	6.1 ND ND 8.0 ND

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

 Sample I.D.: 1891123A SS325-19
 Anametrix I.D.: 8908168-03

 Matrix: SOIL
 Analyst
 Supervisor

 Date sampled: 08/18/89
 Supervisor
 608/29/89

 Date anl.TPHg: 08/24/89
 Date released
 08/29/89

 Date ext.TPHd: N/A
 Date anl. TOG
 N/A

 Date anl.TPHd: N/A
 N/A

CAS #	Compound Name	Detection Limit (ug/kg)	Amount Found (ug/kg)
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	5 5 5 5 1000	7.4 9.0 ND 8.6 ND

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by

GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

 Sample I.D.: 1891123A SS325-20
 Anametrix I.D.: 8908168-04

 Matrix: SOIL
 Analyst
 30

 Date sampled: 08/18/89
 Supervisor
 70

 Date anl.TPHg: 08/23/89
 Date released
 08/29/89

 Date ext.TPHd: N/A
 Date ext. TOG
 N/A

 Date anl.TPHd: N/A
 Date anl. TOG
 N/A

CAS #	Compound Name	Detection Limit (ug/kg)	Amount Found (ug/kg)
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	200 200 200 200 200 4000	ND 3800 1300 8500 230000

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

Anametrix I.D.: 8908168-05 Sample I.D. : 1891123A SS325-21

: SOIL Matrix

Analyst : 75
Supervisor : 75
Date released : 08/29/89
Date ext. TOG : N/A
Date anl. TOG : N/A Date sampled: 08/18/89 Date anl.TPHg: 08/22/89 Date ext.TPHd: N/A

Date anl. TPHd: N/A

CAS #	Compound Name	Detection Limit (ug/kg)	Amount Found (ug/kg)
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	2000 2000 2000 2000 40000	3200 45000 11000 78000 870000

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

Sample I.D.: 1891123A SS325-22,23,24,25

Matrix: SOIL

Date sampled: 08/18/89

Date anl.TPHg: 08/28/89

Anametrix I.D.: 8908168-06

Analyst: Supervisor: TC

Date released: 08/29/89

Date ext.TPHd: N/A

Date ext. TOG : N/A

Date anl.TPHd: N/A

Date anl. TOG : N/A

CAS #	Compound Name	Detection Limit (ug/kg)	Amount Found (ug/kg)
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	10 10 10 10 10 2000	ND 59 19 240 1600

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

AIRBILL 4382387774 USE THIS AIRBILL FOR DOMESTIC SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PURITO RICO.
OUESTIONS? CALL 800-238-8355 TOLL FREE. PACKAGE TRACKING NUMBER RECIPIENT'S COPY Recipient's Phone Number (Very Important To (Recipient's Name) Please Print Your Phone Number (Very Important) From (Your Name) Please Print 415 (271-4320) 402-371-401 Arry Seto Fred Diaz Department/Floor No. Department/Floor No. Company Alameda County Health Dept./Haz. Mat. Dept. Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. S Zip Codes.) Street Address SU Swan Way, Room 200 **ZIP** Required City City ZIP Required 94621 CA Jakland, $A \subseteq A$ IF HOLD FOR PICK-UP, Print FEDEX Address Here YOUR BILLING REFERENCE INFORMATION (First 24 characters will appear on invoice.) Street Project #1391123A City State ZIP Required arly FedEx Acct. No. 5 Cash WEIGHT In Pounds Only Date Federal Express Use Emp. No. YOUR DECLARED SERVICES (Check only one box) DELIVERY AND SPECIAL HANDLING MALUE . Cash Received Base Charges Return Shipment Standard Overnight Priority Overnight Service HOLD FOR FIRM UP 1990 In Box H Service Third Party Chg. To Del. Chg. To Hold Declared Value Charge (Delivery by next business morning!) (Delivery by next business elternoon) DELIVER WEEKDAY Street Address Other 3 DELIVER SATURDAY (Extra charge) DANGEROUS GOODS State Zip 16 FEDEX LETTER * 56 FEDEX LETTER * City Other 2 CONSTANT SURVEILLANCE SVC. (CSS) Total Total Total 12 FEDEX PAK 52 FEDEX PAK * Received By: Total Charges Se FEDEX BOX 13 FEDEX BOX 6 DRY ICE DIM SHIPMENT (Heavyweight Services Only) 7 DOTHER SPECIAL SERVICE 14 FIDEX TUBE 54 FEDEX TUBE FedEx Employee Number Date/Time Received REVISION DATE 8/89 PART #119501 FXE 7/89 FORMAT #014 8 Heavyweight Service" Economy Service (formerty Standard Air) (Delivery by second business (lay t) (for Extra Large or ally package over 150 lbs.) 9 SATURDAY PICK-UP Received At 014 1 🗍 Regula: Stor 10 HEAVYWEIGHT ** Release #.1989 F.E.C. PRINTED IN Signature:

Station

Diste/Tinne

J.S.A.

80 DEFERRED HEAVYWEIGHT

*Declared Value Limit \$100.

**Call for delivery schedule.

HOLIDAY DELIVERY III ORIGINA

10 ECONOMY SERVICE

Delivery commitmen may

the later in some great.

APPENDIX A Chain of Custody Document

8908168



ON-SITE TECHNOLOGIES

(408) 371-4810

TO: Anaroc'sir (Laboratory Name) Attention: Fred Diaz CHAIN OF CUSTODY RECORD Site Name & Address Project Number **Analyses** Desert Petroleum 2844 Mountoin Blad, Oakland requested 1891123A No. SAMPLERS: (Signature) of Fred Ding REMARKS CONtainers Location of Sample Time Sample No. Date 10 100 Acidified to pH 2.0-2.5 9/18/50 3 VOAs 01 WS 325-17 Excavation groundwater 619.5 /0125 Q 5.0 02 SS 325 - 18 line (X 03 185325-19 3 T, O € 3.0 BUHSS325-20 05 SS 325 - 21 SS325-29 Composite into one \$\$325-27 sample and analyze SS 325-26 SS325-27 Recular 10-day turnarounce *Per RWQCB Guidelines The following MUST BE completed by the laboratory accepting samples for analysis: Received by:(signature) Date/Time Relinquished by:(signature) 1) Have all samples received been stored Received by: (signature) Relinquished by:(signature) Date/Time 2) Did any VOA samples received have any head space? Received for LABORATORY by: Date/Time Date/Time Relinquished by:(signature) 3) Were samples in appropriate containers and packaged properly? (signture) 14. 45

TO: Amountaix (Laboratory Name)



(408) 371-4810

Courses

Attention: Fred Diaz CHAIN OF CUSTODY RECORD Site Name & Address Project Number Analyses Rosent Herall . . " requested (\$\frac{\pi}{2}\) 1891123A 2514 11 itin Bizt. Cakland SAMPLERS: (Signature) No. o1Level REMARKS COHtainers Location of Sample Sample No. Time Date Soi Hydrocarbon odor 1 622197 55325-1 C 10 01 1.701 slight hydrocarbon odor X CBO' 55325-2 X @ 40 55325-3 Slight Hydrocalbon odol C100 55325-4 slight Hydrocarbon ador @12.0° 35325-5 ## 9.40 55325-6 Hydrocarbon ador @10.0 55325-7 χ @12.0 55325 - S Composite into one 4 61455 55325-9 × Stockpile # liners Composite into one Hypirocarte 55 325-13 thru 55325-16 Ύ Stockolle # 2 K MAPIE. 5-day turnaround *Per RWOCB Guidelines The following MUST BE completed by the laboratory accepting samples for analysis: Received by:(signature) Relinquished by: (signature) Date/l'ime 1) Have all samples received been stored Received by:(signature) Relinguished by:(signature) Date/l'ime 2) Did any VOA samples received have any head space? Received for LABORATORY by: Date/Time Relinquished by:(signature) Date/Time (signature) To Martida 7,7,89 155, 3) Were samples in appropriate containers and packaged properly? Yes



ENSECO—CRL/Ventura

2810 Bunsen Ave. Unit A • Ventura, CA 93003 (805) 650-0546 • FAX: (805) 650-0756

RSI

11/09/89

P.O.Box 1601 Oxnard, CA. 93032 FAX #(805)988-1572

Attn: M. Sulka 805/644/5892

Project: DP 796 Oakland

Sample #: 9303131501

Received: 10/30/89

Type: Soil

Collector: Client

Sampling Date & Time: 10/27/89, 1500

Method: Grab

I.D.: #1

=RESULT= =UNTT= =MDL== -CONSTITUENT ---METHOD----Lead, Total 3 mg/kg 1 EPA 7420

Organic Lead DOHS ND < 0.5 mg/kg0.5

Sample #: 9303131502

Received: 10/30/89

Collector: Client Sampling Date & Time: 10/27/89, 1500

Method: Grab Type: Soil

I.D.: #2

6 mg/kg Lead, Total EPA 7420

ND < 0.5 mg/kgOrganic Lead 0.5 DOHS

Sample #: 9303131503 Received: 10/30/89

Collector: Client

Sampling Date & Time: 10/27/89, 1445

Type: Soil Method: Grab

I.D.: #3

Lead, Total 7 mg/kg EPA 7420 1

ND < 0.5 mg/kg0.5 Organic Lead DOHS



ENSECO-CRL/Ventura

2810 Bunsen Ave. Unit A • Ventura, CA 93003 (805) 650-0546 • FAX: (805) 650-0756

Sample #: 9303131504 Received: 10/30/89

Type: Soil

Collector: Client

Sampling Date & Time: 10/27/89, 1445

Method: Grab

I.D.: #4

=RESULT= =UNIT= =MDL= CONSTITUENT-----MEIHOD----Lead, Total EPA 7420 8 mg/kg Organic Lead DOHS ND < 0.5 mg/kg0.5

Collector: Client Sample #: 9303131505

Received: 10/30/89

Type: Soil

Sampling Date & Time: 10/27/89, 1430

Method: Grab

I.D.: #5

Lead, Total 10 mg/kg EPA 7420 1 Organic Lead DOHS ND < 0.5 mg/kg

Sample #: 9303131506

Received: 10/30/89

Type: Soil

Collector: Client

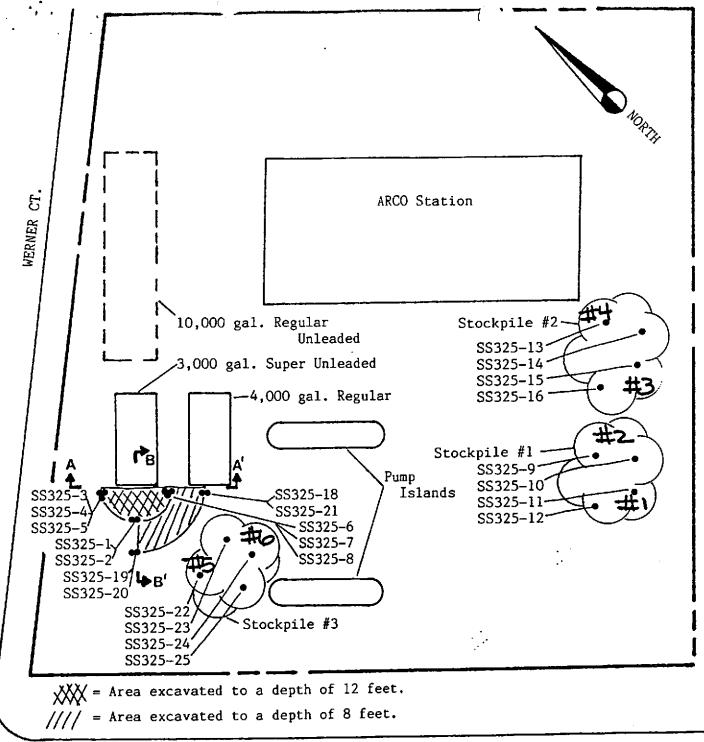
Sampling Date & Time: 10/27/89, 1430

Method: Grab

I.D.: #6

Lead, Total Organic Lead EPA 7420 DOHS

9 mg/kg ND < 0.5 mg/kg 0.5



Scale: 1" = 15'

MOUNTAIN BLVD

LEADSAMPLING Points 10-30-89

Project No. 1891123A	Figure 1 - Site Plan	Desert Petroleum
1891123A		2844 Mountain Boulevard
On-Site	Technologies	Oakland, CA



☐ 7440 Lincoln Way, Garden Grove, CA 92641, (714) 898-6370 2810 Bunsen Ave., Unit A Ventura, CA 93003, (805) 650-0546
2325 Skyway Dr., Unit K, Santa Maria, CA 93455, (805) 922-2776
9537 Telstar Ave., Unit 118, El Monte, CA 91731, (818) 442-8400
☐ Mobile Labs, (800) ENSECO-8

CHAIN OF CUSTODY RECORD	
Date 10 - 27 - 89 Page / of /	
Lah Number	

CLIENT RSI						PROJECT MANAGER													
ADDRESS BOX 1601 CXVARD CA 93032					MIKIT SUIKA MALYSES														
DP 796 OAKLAND					PHONE NUMBER SITE CONTACT SAMPLE TYPE No. of Containers Sample Condition REMARKS											7			
PROJECT NAME					-						$\mathcal{N}\!\!/$	/7					/		
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mike such														ited abo					
Relinquished by: (Signature) Date		Date Tim	ne Received for Laboratory by:					D	ate F	RECEIVE	D	Time	Dat	te ACC	EPTED	Time			
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Method of Shipment:						V					SAMPLE DISPOSITION: 1. Storage time requested:days								
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Special Instructions:								thereafter storage charges will be billed at the published rates.) 2. Sample to be returned to client: Y N											
Max was it.												(Enseco will dispose of unreturned samples at no extra charge. Disposal will be by incineration wherever possible; otherwise, as							
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