

# ENVIRONMENTAL PROFILES, INC.

Site Assessments \* Remedial Investigation Feasibility Studies \* Soil and Water Sample Collection \* Compaction Testing

ENVIRONMENTAL  
PROTECTION  
00 FEB -8 AM 8:03

## REPORT

# 3977

## GROUNDWATER MONITORING

Ameriflight, Inc.  
Oakland Airport, Hanger 2  
9171 Earhart Road  
Oakland, California 94621  
EPI Project No. 46591.gw1

### Prepared For:

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Armored Transport Inc.  
3280 E. Foothill Boulevard, # 290  
Pasadena, California 91107

### Submitted To:

Mr. Barney Chan  
Environmental Health Services  
1131 Harbor Bay Parkway  
Alameda, California 94502-8577

January 28, 2000

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- Appendix C - Chain of Custody Record and Laboratory Chemical Analysis Results, Groundwater
- Appendix D - Regulatory Documentation

# Environmental Profiles, Inc.

5480 Katella Avenue, Suite 211, Los Alamitos, CA 90720-2834 \* (562)493-2190 \* FAX (562)430-5177

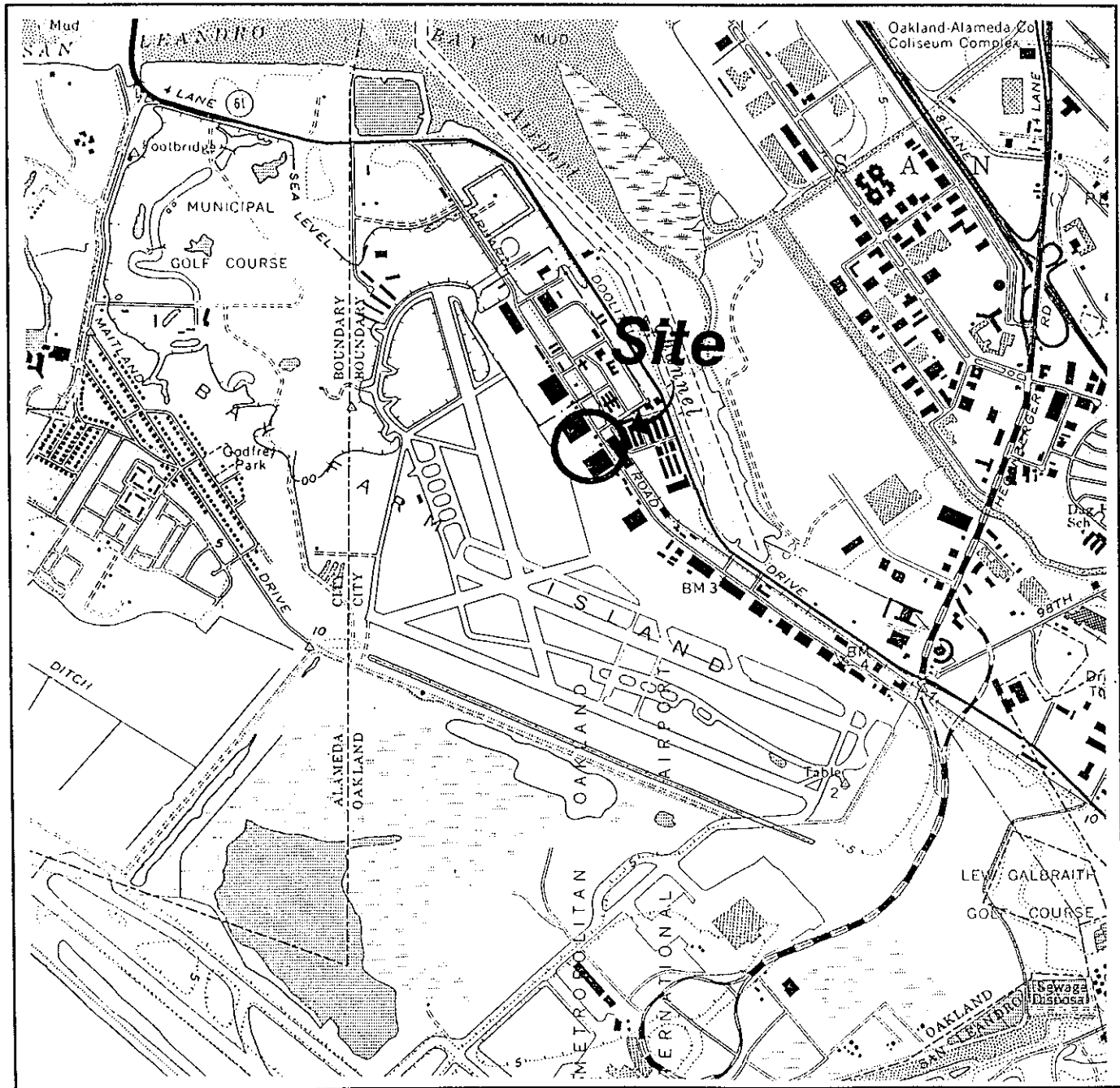
Project Name: Ameriflight, Inc. (Oakland)

Job#: 46591

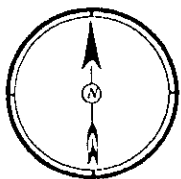
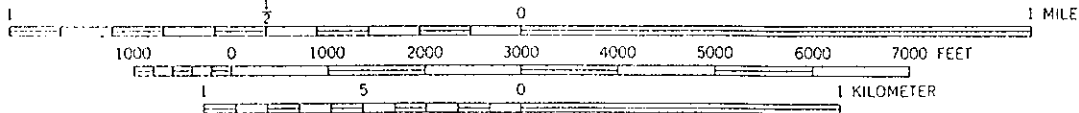
Location: 9171 Earhart Road, Hangar 2, Oakland, California

Map Source: USGS 7.5 Minute Series, San Leandro Quadrangle, Photorevised 1980

## Figure 1 - Area Map

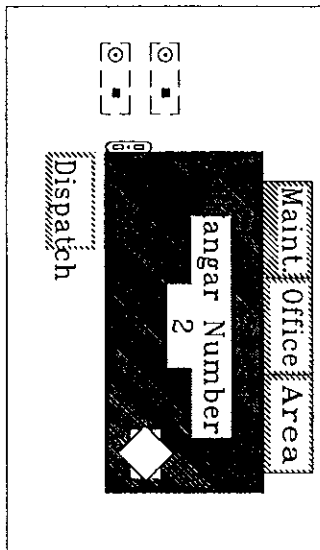
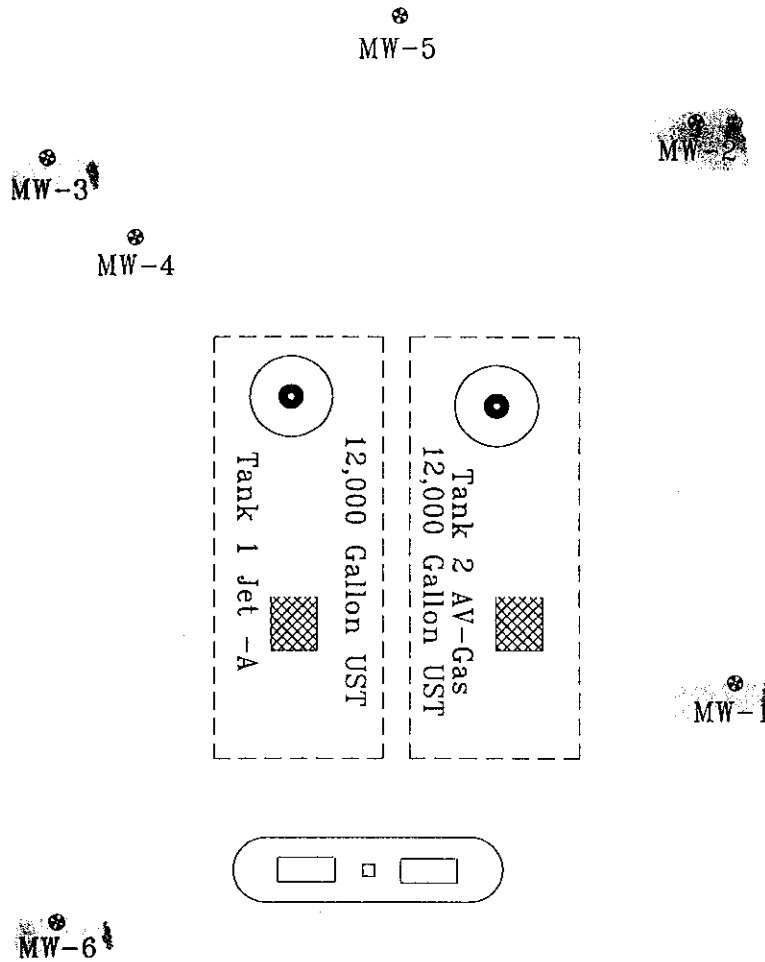


SCALE 1:24 000



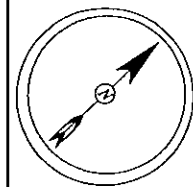
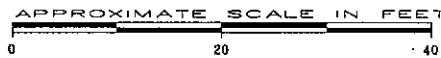
QUADRANGLE LOCATION

# Figure 2 - Site Diagram





Ameriflight Inc. Oakland  
 9171 Earhart Road, Hangar Number 2  
 Oakland, California 94621

Drawing file: P:/dwg/46591/Fig 2/1-28-00.dwg



## Explanation

-  Groundwater monitor well locations
-  Former UST locations

*Environmental Profiles, Inc.*  
 5480 Katella Avenue, Suite 211, Los Alamitos California  
 (562) 493-2190\*\*\* FAX (562) 490-5177

## 1.0 INTRODUCTION

Environmental Profiles, Inc. (EPI) is pleased to submit this report documenting groundwater monitor well installation and subsequent sampling activities recently conducted at the Ameriflight-Oakland (AMO) facility located at the Oakland Airport Hanger Number 2, 9171 Earhart Road, Oakland CA 94621 (Figure 1 - Area Map).

## 2.0 BACKGROUND

### 2.1 General

AMO maintained two (2) 12,000 gallon USTs at the facility (Figure 2 - Site Map). As a measure of compliance with the Port of Oakland UST regulations, AMO elected to abandon by removal the UST installation. Specifics related to the removal of the UST are found in the document, Report, Underground Storage Tank Closure, August 2, 1999, EPI.

The above referenced report documents petroleum hydrocarbon impact to groundwater that prompted Alameda County Environmental Health Services (ACEHS) to request the site be investigated further in order to delineate chemical impact to groundwater.

## 3.0 SCOPE

### 3.1 General

The purpose of this field investigation is to assess chemical impact to both soil and groundwater. Work performed during this recent investigation consisted of the following activities:

- Advancement of a six (6) soils borings bounding the former UST installation advanced to fifteen (15) feet bgs (Figure 2 - Site Map).
- Procurement of soil samples collected at five (5) foot intervals through the total depth explored at each soils boring location.
- Conversion of the six (6) soils borings to 2-inch groundwater monitor wells.
- Procurement of groundwater samples from the newly installed wells
- Submittal of soil and groundwater samples for laboratory chemical analysis.

### 3.2 Drilling Activities

Field activities were conducted by an EPI Geologist working under the direct supervision of a California Registered Professional Civil Engineer.

Drilling and soil sampling activities were performed by Exploration Geoservices, San Jose, California in possession of C-57 Well Contractors License #484288. The Geologist working in conjunction with the drilling contractor ensured that drilling activities were performed in accordance with California Code of Regulations, Title 23, Chapter 16, Section 2649. Soils

borings were drilled with a Mobile B-41 drill rig utilizing 8" O.D. hollow stem augers (HSA), and were drilled to a total depth of fifteen (15) feet bgs.

### **3.3 Soil Sampling**

The boring were sampled utilizing an 18-inch long Sprague and Henwood (S&H) 1.5-inch inside diameter split spoon sampler. Three 1.5-inch by 6-inch stainless steel inserts (rings) were placed into the S&H sampler prior to advancing the sampler at each interval. At each sample depth the sampler was advanced 18-inches into undisturbed soil. After driving the sampler to its target depth, it was extracted from the boring, removed from the drilling rod and the lowermost stainless steel sample ring removed.

Each sample collected from a soils boring was sealed at both ends with Teflon<sup>®</sup> lined plastic end caps, labeled, and immediately placed in a blue ice chilled field cooler under EPA chain of custody protocol for transport and subsequent laboratory chemical analysis at a California State Department of Health Services (DHS) certified environmental laboratory.

Soil boring lithology, sample depth and all pertinent information was logged in the field by the EPI Geologist and is presented in Appendix B - Boring Logs and Well Construction Details.

### **3.4 Groundwater Monitor Well Installation**

Six (6) groundwater monitor wells were installed and located as depicted on Figure 2 - Site Map. Permits for installation of the groundwater monitor wells are presented in Appendix D - Regulatory Documentation.

During the conversion of each soils borings to a groundwater monitor well, the augers were slowly removed from the borehole while the well was constructed. Each monitor well was constructed of two (2) inch diameter, schedule 40 PVC blank and 0.010-inch slot screened casing. Each well was screened from the total depth, approximately fifteen (15) feet below grade surface (bgs) to five (5) feet bgs. Blank well casing completed each well to 5-inches from grade surface.

The annular space between the slotted PVC well casing, and the borehole was filled with Lone Star Industries medium fine grade aquarium sand (2/12) from the total depth of the boring to approximately four (4) feet bgs. A bentonite cement slurry completed construction of each well to approximately 10-inches bgs. A traffic rated street box set in concrete completed each well to grade. All well joints were flush threaded and the bottoms of each well casing were sealed with a solid PVC flush-threaded cap. Well construction details are presented in Appendix B - Boring Logs and Well Construction Details.

### **3.5 Monitor Well Purging**

On January 18, 2000 an EPI Engineer purged groundwater monitor wells MW-1 through MW-6. Each well was purged with a variable flow rate Grundfos 1.75" submersible electric pump. Purging continued until the groundwater being removed was clear and relatively free of

sediment. Approximately 3 to 5 well volumes of groundwater were removed from each monitor well during purging activities.

*need  
sampling data  
sheets*

### 3.6 Groundwater Sampling Procedures

On January 18, 2000 an EPI Engineer collected groundwater samples from each newly installed well. No free floating hydrocarbon product was observed in any of the monitor wells prior to sampling activities.

Each well remained static for approximately one (1) hour prior to initiating sampling activities. Groundwater samples were collected using a disposable Teflon® brand bottom loading bailer. One groundwater sample was collected from each of the monitor wells and submitted for laboratory chemical analysis.

Each groundwater sample was carefully transferred into two (2) laboratory supplied, acidified 40 milliliter glass volatile organic analysis (VOA) vials. The sample vials were carefully sealed with Teflon® lidded screw caps after eliminating all head space, labeled, and immediately placed in a blue ice chilled cooler under EPA chain of custody protocol for transport and subsequent analysis at a State Department of Health Services (DHS) certified environmental laboratory.

### 3.7 Equipment Cleaning

All down hole equipment (i.e. augers and sampler) was decontaminated with a biodegradable phosphate free hospital grade liquid soap (e.g. liquinox) and water solution then triple rinsed with clean water prior to use. All decontamination waters generated are contained in DOT approved 17h open top steel drums and stored on site pending removal and disposal.

## 4.0 SAMPLE ANALYSIS

### 4.1 Laboratory Chemical Analysis, Soil

On December 16, 1999 ten (10) soil samples were submitted under EPA chain of custody protocol to American Scientific Laboratories, LLC (ASL), Los Angeles, California for chemical analysis. Based on site background and a written request from Alameda County Environmental Health Services, samples were analyzed by the following:

- TPH reported as Aviation Fuel, EPA method 8015(M), detection limit 1 mg/kg
- TPH reported as Jet Fuel, EPA method 8015(M), detection limit 10 mg/kg
- Monoaromatics, BTEX, EPA method 8020/602, detection limit 5 to 10 µg/kg
- MTBE, EPA method 8020, detection limit 20 µg/kg
- Total Lead EPA method 6010B, detection limit 0.25 mg/kg

#### 4.2 Laboratory Chemical Analysis Results, Soil

Results of the laboratory chemical analysis are summarized below in Table 1 - Laboratory Chemical Analyses Results, Soil and are presented in Appendix A - Chain of Custody Record and Laboratory Chemical Analysis Reports, Soil.

<b>TABLE 1 - LABORATORY CHEMICAL ANALYSIS RESULTS, SOIL</b> Ameriflight, Inc. 9171 Earhart Road Oakland, CA 94621 12-16-99								
ID	TPH (mg/kg)		B (µg/kg)	T (µg/kg)	E (µg/kg)	X (µg/kg)	MTBE (µg/kg)	LEAD (mg/kg)
	AV FUEL	JET FUEL						
B1-5	ND	ND	ND	ND	ND	ND	ND	0.38
B1-10	ND	ND	ND	ND	ND	ND	ND	5.37
B1-15	ND	ND	ND	11	ND	12	ND	3.28
B2-5	ND	ND	ND	5	ND	12	ND	1.80
B2-10	ND	ND	ND	ND	ND	ND	ND	2.47
B2-15	ND	ND	ND	8	ND	ND	ND	2.85
B3-5	ND	ND	ND	8	ND	13	ND	1.57
B3-10	ND	ND	ND	16	ND	15	ND	2.22
B3-15	ND	ND	ND	15	ND	12	ND	2.17
B4-5	ND	ND	ND	ND	ND	ND	ND	1.42
B4-10	ND	ND	ND	21	ND	12	ND	3.68
B4-15	ND	ND	ND	13	ND	ND	ND	2.30
B5-5	ND	ND	ND	ND	ND	ND	ND	0.95
B5-10	ND	ND	ND	ND	ND	ND	ND	2.27
B5-15	ND	ND	ND	11	ND	ND	ND	2.30
B6-5	ND	ND	ND	6	ND	ND	ND	1.50
B6-10	ND	ND	ND	9	ND	ND	ND	2.88
B6-15	ND	ND	ND	11	ND	11	ND	2.80

**Notes:**

- B,T,E,X = Benzene, toluene, ethyl benzene, total xylenes
- mg/kg = milligrams per kilogram or ppm
- µg/kg = micrograms per kilogram or ppb
- ND = indicates analyte not detected at or above the noted laboratory detection limit



### 4.3 Laboratory Chemical Analysis, Groundwater

On January 20, 2000 six (6) groundwater samples were submitted under EPA chain of custody protocol to American Scientific Laboratories, LLC (ASL), Los Angeles, California for chemical analysis. Based on site background samples were analyzed by the following:

- TPH reported Aviation fuel by EPA Method 8015(M), detection limit 0.05 mg/l
- TPH reported Jet fuel by EPA Method 8015(M), detection limit 1.0 mg/l
- Monoaromatics, BTEX, EPA Method 8020, detection limit 0.3 to 0.6 µg/l
- MTBE, EPA Method 8020, detection limit 2.0 µg/l

### 4.4 Laboratory Chemical Analysis Results, Groundwater

Results of the laboratory chemical analysis are summarized below in Table 2 - Laboratory Chemical Analysis Results, Groundwater and are presented in Appendix C - Chain of Custody Record and Laboratory Chemical Analysis Reports, Groundwater.

<b>TABLE 2 - LABORATORY CHEMICAL ANALYSIS RESULTS, GROUNDWATER</b> Ameriflight, Inc. 9171 Earhart Road Oakland, CA 94621 1-20-2000							
ID	TPH (mg/L)		MTBE (µg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)
	AV FUEL	JET FUEL					
MW-1	ND	ND	ND	ND	ND	ND	ND
MW-2	ND	ND	2.8	ND	ND	ND	ND
MW-3	ND	ND	2.0	ND	ND	ND	ND
MW-4	ND	ND	ND	ND	ND	ND	ND
MW-5	ND	ND	ND	ND	ND	ND	ND
MW-6	ND	ND	ND	ND	ND	ND	ND

**Notes:**

- mg/L = milligrams per liter or ppm
- µg/L = micrograms per liter or ppb
- ND = indicates analyte not detected at or above the laboratory detection limit

#### **4.5 Laboratory Quality Control And Quality Assurance**

American Scientific Laboratories (ASL) is and operates as a California DHS certified environmental laboratory, and as such follows all appropriate procedures and guidelines for the chemical analysis of groundwater and soil. As part of ASL's quality control and assurance protocol, QA/QC reports are provided along with all laboratory analytical results, and are presented in the appropriate Appendices.

### **5.0 DISCUSSION**

#### **5.1 Chemical Analysis Results Discussion, Soil**

Laboratory chemical analysis results indicate that total petroleum hydrocarbons reported as aviation fuel (TPH-AV) and jet fuel (TPH-JET) were not detected at or above the laboratory detection limits in any of the soil samples submitted for chemical analysis.

Of the monoaromatic constituents, benzene, toluene, ethyl benzene, and xylenes (BTEX) only toluene and (total) xylenes were detected in at least one (1) sample collected from each soils boring. Concentrations of toluene and xylenes ranged from a maximum of 21  $\mu\text{g/l}$  to a minimum of 5  $\mu\text{g/l}$ . Impact by these chemical constituents, at the reported concentrations is considered inconsequential, and soil mitigation is considered unwarranted as they will continue to degrade to benign or non detect levels as remediation by natural attenuation (RNA) continues.

The fuel oxygenate, MTBE was not detected at or above the laboratory detection limits in any of the soil samples submitted for analysis. The absence of MTBE from soils at UST sites can be interpreted as a strong indication that a recent fuel release has not occurred or that any release occurring at the site remains immobile.

Laboratory chemical analysis confirmed the presence of lead (Pb) in all soil samples submitted for analysis. The mean average concentration was calculated to be 2.3 mg/kg. Soil samples collected from each well (and grouped) exhibit a standard deviation from the mean of 0.25 mg/kg. The consistent detection of lead at the reported concentrations, and the insignificant deviation from the standard lend to the interpretation that the detection of lead is not resultant of a release of fuel containing lead, and is therefore considered normal background.

#### **5.2 Chemical Analysis Results Discussion, Groundwater**

Total petroleum hydrocarbons reported as aviation fuel and jet fuel were not detected at or above the laboratory detection limits in any of the groundwater samples submitted for analysis.

In addition to aviation and jet fuel, all groundwater samples were reported non detect for the presence of hydrocarbons reported as crude oil, diesel fuel oil, heavy oil, hydraulic oil, kerosene and mineral spirits.

Similarly, none of the monoaromatics, BTEX were detected at or above the laboratory detection limits. However, the fuel oxygenate MTBE was detected at very low concentrations in MW-2 and MW-3. Concentrations of MTBE detected at or near the laboratory detection limit are often

suspect, and with no historical groundwater analytical data to support otherwise, is interpreted as inconsequential.

## 6.0 RECOMMENDATIONS

EPI recommends that the site be sampled once during the first or second quarter of 2000. Samples should be analyzed for the presence of TPH reported as aviation and jet fuel, and the fuel oxygenate MTBE only. Pending similar analytical results the site should be reviewed as a candidate for no further action status due to the fact that concentrations of the chemical(s) detected are extremely low and do not represent a threat to either the environment or human health.

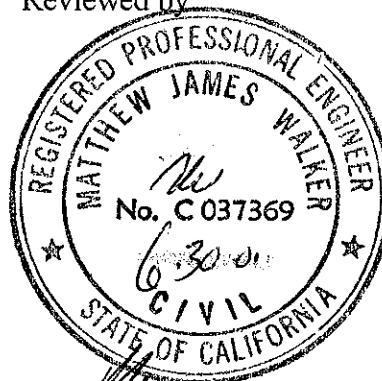
If you have any questions, comments or require additional information regarding this project, please contact the undersigned at (562) 493-2190 during normal business hours. Thank you.

Prepared by:



Mark C. Bartee  
Senior Geologist  
REA 06950

Reviewed by:



Matthew J. Walker  
Principle Engineer  
California Civil Engineer 37369

cc:

Mr. Hernan Gomez  
Oakland City Fire Department  
505 14<sup>th</sup> Street  
Oakland, California 94612

Mr. Dale Cletke  
Port of Oakland  
530 Water Street  
Jack London Square  
P.O. Box 2064  
Oakland, CA 94604-2064

# **APPENDIX A**

## **Chain of Custody Record and Laboratory Chemical Analysis Results, Soil**



AMERICAN SCIENTIFIC LABORATORIES, LLC  
*Environmental Testing Services*

Ordered By

Environmental Profiles, Inc.  
5480 Katella Ave., Suite 211  
Los Alamitos, CA 90720-2834

Number of Pages 33  
Date Received 12/20/1999  
Date Reported 01/07/2000

Telephone (562) 493-2190  
Attn Mark Bartee

Job Number	Submitted	Client
6847	12/20/1999	ENVPRF

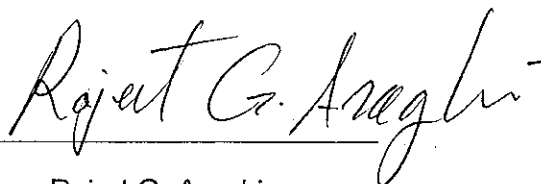
Project ID: 46591  
Project Name: Ameriflight Inc.  
Site: 9171 Earhart Road  
Oakland, CA 94621

Enclosed are the results of analyses on 18 soil samples analyzed as specified on attached chain of custody.



---

Amolk MOLKY Brar  
Laboratory Manager



---

Rojert G. Araghi  
Laboratory Director

6847 ~~6847~~

Date: 12-16-99

Page 1 of 2

# Chain-of-Custody

Proj. Name: <u>AMERIFLIGHT INC.</u>	Proj. #: <u>46591</u>	<b>Turn-Around-Time</b> <input checked="" type="checkbox"/> Routine <input type="checkbox"/> 48 hours <input type="checkbox"/> 24 hours
Proj. Add: <u>9171 EARHART ROAD</u> <u>OAKLAND, CA 94621</u>		

Sample Information										Lab Analysis				Lab Use Only	
Sample ID	Location/Description	Date	Time	Soil	Water	Air	No. of Containers					Other	<input type="checkbox"/> Received Chilled <input type="checkbox"/> Received Sealed		
								418.1	M/8015-AG	8020-MTBE	TOTAL Pb			8015-JET	
B1-5	Boring #1 @ 5 feet	12/16	0850	X			1	X	X	X	X	44815	1		
B1-10	" " @ 10 feet		0855				1					44816	2		
B1-15	" " @ 15 feet		0900				1					44817	3		
B2-5	" #2 @ 5 feet		1025				1					44818	4		
B2-10	" " @ 10 feet		1035				1					44819	5		
B2-15	" " @ 15 feet		1040				1					44820	6		
B3-5	Boring #3 @ 5 feet		1140				1					44821	7		
B3-10	" " @ 10 feet		1150				1					44822	8		
B3-15	" " @ 15 feet		1155				1					44823	9		
							1					44824			

Notes/Comments: 8015-AG = Aviation GAS; 8020 INCLUDES MTBE; Total Pb by 7421 or 7420 with detection limit @ 1.0 mg/kg; 8015-jet = jet fuel.

Relinquished by: (Signature) <u>Matt Banta</u> Company: <u>EPI</u>	Date/Time: <u>12-16-99</u> <u>200</u>	Received by: (Signature) <u>[Signature]</u> Company: <u>ASL</u>	Date/Time: <u>12/20/99</u> <u>2:30</u>
Relinquished by: (Signature) _____ Company: _____	Date/Time: _____	Received by: (Signature) _____ Company: _____	Date/Time: _____
Received By Lab: (Signature) _____ Laboratory: _____	Date/Time: _____	<b>Environmental Profiles, Inc.</b> 5480 Katella, Suite 211 Los Alamitos, California 90720-2823 (562) 493-2190 88 FAX (562) 430-5177	

Date: 12-16-99

# Chain-of-Custody

Proj. Name: <u>AMERIFLIGHT</u>	Proj. #: <u>46591</u>	Turn-Around-Time
Proj. Add: <u>9171 EARHART ROAD</u>		<input checked="" type="checkbox"/> Routine
<u>CARLAND, CA</u>		<input type="checkbox"/> 48 hours
		<input type="checkbox"/> 24 hours

Sample Information							Lab Analysis					Lab Use Only			
Sample ID	Location/Description	Date	Time	Soil	Water	Air	No. of Containers	118.1	100015-A6	8020-1MMTB	TOXIL 76	8015-JET	Other	<input type="checkbox"/> Received Chilled	<input type="checkbox"/> Received Sealed
B4-5	Boring #4 @ 5 feet	12/16	1245	X			1	X	X	X	X		44824		10
B4-10	" " @ 10 feet		1250				1						44825		11
B4-15	" " @ 15 feet		1300				1						44826		12
B5-5	Boring #5 @ 5 feet		1420				1						44827		13
B5-10	" " @ 10 feet		1425				1						44828		14
B5-15	" " @ 15 feet		1430				1						44829		15
B6-5	Boring #6 @ 5 feet		1605				1						44830		16
B6-10	" " @ 10 feet		1610				1						44831		17
B6-15	" " @ 15 feet		1615				1						44832		18

Notes/Comments:

Relinquished by: (Signature) <u>[Signature]</u>	Date/Time <u>12.16.99</u>	Received by: (Signature) <u>[Signature]</u>	Date/Time <u>12/20/99</u>
Company: <u>EP1</u>	<u>2100</u>	Company: <u>APL</u>	<u>2:30</u>
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Company:		Company:	
Received By Lab: (Signature)	Date/Time	<b>Environmental Profiles, Inc.</b> 5480 Katella, Suite 211 Los Alamitos, California 90720-2823 (562) 493-2190 88 FAX (562) 430-5177	
Laboratory:			



AMERICAN SCIENTIFIC LABORATORIES, LLC  
Environmental Testing Services

ANALYTICAL RESULTS

Ordered By

Environmental Profiles, Inc.  
5480 Katella Ave., Suite 211  
Los Alamitos, CA 90720-2834

Telephone: (562)493-2190

Attn: Mark Bartee

Page: 2

Project ID: 46591

Project Name: Ameriflight Inc.

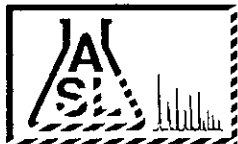
Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 6010B, Lead (ICP)

Our Lab I.D.		44815	44816	44817	44818	44819
Sample ID		B1-5	B1-10	B1-15	B2-5	B2-10
Date Sampled		12/16/1999	12/16/1999	12/16/1999	12/16/1999	12/16/1999
Date Extracted		12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Preparation Method						
Date Analyzed		12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier		1	1	1	1	1
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>
<b>ICP Metals</b>						
Lead	0.25	0.38	5.37	3.28	1.80	2.47

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.





AMERICAN SCIENTIFIC LABORATORIES, LLC  
*Environmental Testing Services*

ANALYTICAL RESULTS

Page: 3  
Project ID: 46591  
Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

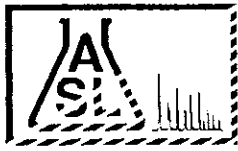
Method: 6010B, Lead (ICP)

QUALITY CONTROL REPORT

Batch No:

Analytes	LCS % REC									
ICP Metals										
Lead	87									

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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*Environmental Testing Services*

ANALYTICAL RESULTS

**Ordered By**

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 5480 Katella Ave., Suite 211  
 Los Alamitos, CA 90720-2834

Telephone: (562)493-2190  
 Attn: Mark Bartee

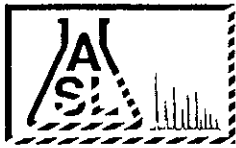
Page: 4  
 Project ID: 46591  
 Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 6010B, Lead (ICP)

Our Lab I.D.		44820	44821	44822	44823	44824
Sample ID		B2-15	B3-5	B3-10	B3-15	B4-5
Date Sampled		12/16/1999	12/16/1999	12/16/1999	12/16/1999	12/16/1999
Date Extracted		12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Preparation Method						
Date Analyzed		12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier		1	1	1	1	1
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>
<b>ICP Metals</b>						
Lead	0.25	2.85	1.57	2.22	2.17	1.42

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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ANALYTICAL RESULTS

Page: 5  
Project ID: 46591  
Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

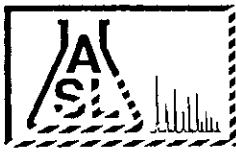
Method: 6010B, Lead (ICP)

QUALITY CONTROL REPORT

Batch No:

Analytes	LCS % REC								
ICP Metals									
Lead	87								

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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ANALYTICAL RESULTS

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Telephone: (562)493-2190  
 Attn: Mark Bartee

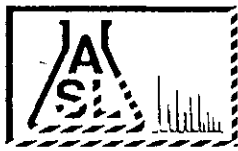
Page: 6  
 Project ID: 46591  
 Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRE

Method: 6010B, Lead (ICP)

Our Lab I.D.	44825	44826	44827	44828	44829
Sample ID	B4-10	B4-15	B5-5	B5-10	B5-15
Date Sampled	12/16/1999	12/16/1999	12/16/1999	12/16/1999	12/16/1999
Date Extracted	12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Preparation Method					
Date Analyzed	12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Matrix	Soil	Soil	Soil	Soil	Soil
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier	1	1	1	1	1
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>
<b>ICP Metals</b>					
Lead	0.25	3.68	2.30	0.95	2.30

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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ANALYTICAL RESULTS

Page: 7  
Project ID: 46591  
Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

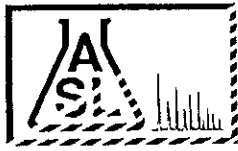
Method: 6010B, Lead (ICP)

QUALITY CONTROL REPORT

Batch No:

Analytes	LCS % REC									
ICP Metals										
Lead	87									

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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Telephone: (562)493-2190

Attn: Mark Bartee

Page: 8

Project ID: 46591

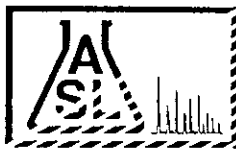
Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 6010B, Lead (ICP)

Our Lab I.D.	44830	44831	44832		
Sample ID	B6-5	B6-10	B6-15		
Date Sampled	12/16/1999	12/16/1999	12/16/1999		
Date Extracted	12/27/1999	12/27/1999	12/27/1999		
Preparation Method					
Date Analyzed	12/27/1999	12/27/1999	12/27/1999		
Matrix	Soil	Soil	Soil		
Units	mg/Kg	mg/Kg	mg/Kg		
Detection Limit Multiplier	1	1	1		
Analytes	PQL	Results	Results	Results	
ICP Metals					
Lead	0.25	1.50	2.88	2.80	

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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ANALYTICAL RESULTS

Page: 9  
Project ID: 46591  
Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVERF

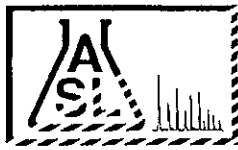
Method: 6010B, Lead (ICP)

QUALITY CONTROL REPORT

Batch No:

Analytes	LCS % REC									
ICP Metals										
Lead	87									

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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Page: 10  
Project ID: 46591  
Project Name: Ameriflight Inc.

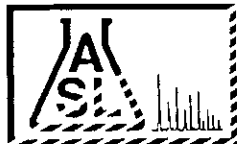
Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8015M/DHSLUFT, TPH as Aviation Gas

Our Lab I.D.	44815	44816	44817	44818	44819
Sample ID	B1-5	B1-10	B1-15	B2-5	B2-10
Date Sampled	12/16/1999	12/16/1999	12/16/1999	12/16/1999	12/16/1999
Date Extracted	12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Preparation Method					
Date Analyzed	12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Matrix	Soil	Soil	Soil	Soil	Soil
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier	1	1	1	1	1
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>
Aviation Gas	1.0	ND	ND	ND	ND

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.





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ANALYTICAL RESULTS

Page: 11  
 Project ID: 46591  
 Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8015M/DHSLUFT, TPH as Aviation Gas

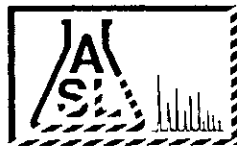
QUALITY CONTROL REPORT

Our Lab I.D.		44815	44816	44817	44818	44819
Surrogates	Con. Limit	% Rec.				
Surrogate Percent Recovery						
Bromofluorobenzene	70-120	103				
Bromofluorobenzene	70-120		95			
Bromofluorobenzene	70-120			99		
Bromofluorobenzene	70-120				86	
Bromofluorobenzene	70-120					82

Batch No: 122799

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Benzene	110	111	<1	75-120	15					
Toluene (Methyl benzene)	112	112	<1	75-120	15					

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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Attn: Mark Bartee

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Project ID: 46591

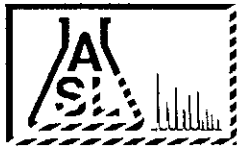
Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8015M/DHSLUFT, TPH as Aviation Gas

Our Lab I.D.	44820	44821	44822	44823	44824
Sample ID	B2-15	B3-5	B3-10	B3-15	B4-5
Date Sampled	12/16/1999	12/16/1999	12/16/1999	12/16/1999	12/16/1999
Date Extracted	12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Preparation Method					
Date Analyzed	12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Matrix	Soil	Soil	Soil	Soil	Soil
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier	1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results
Aviation Gas	1.0	ND	ND	ND	ND

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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ANALYTICAL RESULTS

Page: 13  
 Project ID: 46591  
 Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8015M/DHSLUFT, TPH as Aviation Gas

QUALITY CONTROL REPORT

Our Lab I.D.		44820	44821	44822	44823	44824
<b>Surrogates</b>	<b>Con. Limit</b>	<b>% Rec.</b>				
<b>Surrogate Percent Recovery</b>						
Bromofluorobenzene	70-120	98				
Bromofluorobenzene	70-120		72			
Bromofluorobenzene	70-120			101		
Bromofluorobenzene	70-120				92	
Bromofluorobenzene	70-120					72

Batch No: 122799

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Benzene	110	111	<1	75-120	15					
Toluene (Methyl benzene)	112	112	<1	75-120	15					

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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Project ID: 46591

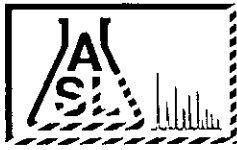
Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8015M/DHSLUFT, TPH as Aviation Gas

Our Lab I.D.	44825	44826	44827	44828	44829
Sample ID	B4-10	B4-15	B5-5	B5-10	B5-15
Date Sampled	12/16/1999	12/16/1999	12/16/1999	12/16/1999	12/16/1999
Date Extracted	12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Preparation Method					
Date Analyzed	12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Matrix	Soil	Soil	Soil	Soil	Soil
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier	1	1	1	1	1
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>
Aviation Gas	1.0	ND	ND	ND	ND

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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ANALYTICAL RESULTS

Page: 15  
 Project ID: 46591  
 Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8015M/DHSLUFT, TPH as Aviation Gas

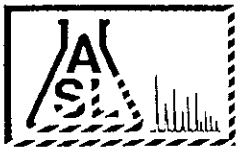
QUALITY CONTROL REPORT

Our Lab I.D.		44825	44826	44827	44828	44829
Surrogates	Con. Limit	% Rec.				
Surrogate Percent Recovery						
Bromofluorobenzene	70-120	83				
Bromofluorobenzene	70-120		84			
Bromofluorobenzene	70-120			94		
Bromofluorobenzene	70-120				93	
Bromofluorobenzene	70-120					71

Batch No: 122799

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Benzene	110	111	<1	75-120	15					
Toluene (Methyl benzene)	112	112	<1	75-120	15					

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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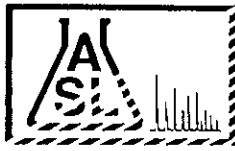
Page: 16  
Project ID: 46591  
Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8015M/DHSLUFT, TPH as Aviation Gas

Our Lab I.D.	44830	44831	44832		
Sample ID	B6-5	B6-10	B6-15		
Date Sampled	12/16/1999	12/16/1999	12/16/1999		
Date Extracted	12/28/1999	12/28/1999	12/28/1999		
Preparation Method					
Date Analyzed	12/28/1999	12/28/1999	12/28/1999		
Matrix	Soil	Soil	Soil		
Units	mg/Kg	mg/Kg	mg/Kg		
Detection Limit Multiplier	1	1	1		
Analytes	PQL	Results	Results	Results	
Aviation Gas	1.0	ND	ND	ND	

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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ANALYTICAL RESULTS

Page: 17  
 Project ID: 46591  
 Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVERF

Method: 8015M/DHSLUFT, TPH as Aviation Gas

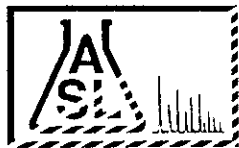
QUALITY CONTROL REPORT

Our Lab I.D.		44830	44831	44832		
Surrogates	Con. Limit	% Rec.				
Surrogate Percent Recovery						
Bromofluorobenzene	70-120	97				
Bromofluorobenzene	70-120		101			
Bromofluorobenzene	70-120			120		

Batch No: 122899

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Benzene	90	93	3.3	75-120	15					
Toluene (Methyl benzene)	92	94	2.2	75-120	15					

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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Attn: Mark Bartee

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Project ID: 46591

Project Name: Ameriflight Inc.

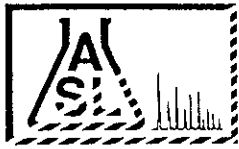
Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8015M/DHSLUFT, Total Petroleum Hydrocarbons

Our Lab I.D.	44815	44816	44817	44818	44819
Sample ID	BI-5	BI-10	BI-15	B2-5	B2-10
Date Sampled	12/16/1999	12/16/1999	12/16/1999	12/16/1999	12/16/1999
Date Extracted	12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Preparation Method					
Date Analyzed	12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Matrix	Soil	Soil	Soil	Soil	Soil
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier	1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results
Crude Oil	10	ND	ND	ND	ND
Diesel	10	ND	ND	ND	ND
Fuel Oil	10	ND	ND	ND	ND
Heavy Oil	10	ND	ND	ND	ND
Hydraulic Oil	10	ND	ND	ND	ND
Jet Fuel	10	ND	ND	ND	ND
Kerosene	10	ND	ND	ND	ND
Mineral Spirits	10	ND	ND	ND	ND
Paint Thinner	10	ND	ND	ND	ND

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.





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ANALYTICAL RESULTS

Page: 19  
 Project ID: 46591  
 Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8015M/DHSLUFT, Total Petroleum Hydrocarbons

QUALITY CONTROL REPORT

Our Lab I.D.		44815	44816	44817	44818	44819
Surrogates	Con. Limit	% Rec.				
Surrogate Percent Recovery						
Chlorobenzene	70-120	113				
Chlorobenzene	70-120		113			
Chlorobenzene	70-120			115		
Chlorobenzene	70-120				114	
Chlorobenzene	70-120					115

Batch No: 122799

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Diescl	88	90	2.2	75-120	15					

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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ANALYTICAL RESULTS

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Telephone: (562)493-2190  
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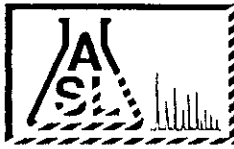
Page: 20  
 Project ID: 46591  
 Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8015M/DHSLUFT, Total Petroleum Hydrocarbons

Our Lab I.D.		44820	44821	44822		
Sample ID		B2-15	B3-5	B3-10		
Date Sampled		12/16/1999	12/16/1999	12/16/1999		
Date Extracted		12/27/1999	12/27/1999	12/27/1999		
Preparation Method						
Date Analyzed		12/27/1999	12/27/1999	12/27/1999		
Matrix		Soil	Soil	Soil		
Units		mg/Kg	mg/Kg	mg/Kg		
Detection Limit Multiplier		1	1	1		
Analytes	PQL	Results	Results	Results		
Crude Oil	10	ND	ND	ND		
Diesel	10	ND	ND	ND		
Fuel Oil	10	ND	ND	ND		
Heavy Oil	10	ND	ND	ND		
Hydraulic Oil	10	ND	ND	ND		
Jet Fuel	10	ND	ND	ND		
Kerosene	10	ND	ND	ND		
Mineral Spirits	10	ND	ND	ND		
Paint Thinner	10	ND	ND	ND		

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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ANALYTICAL RESULTS

Page: 21  
 Project ID: 46591  
 Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8015M/DHSLUFT, Total Petroleum Hydrocarbons

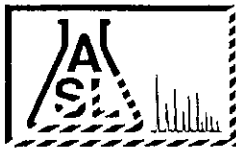
QUALITY CONTROL REPORT

Our Lab I.D.		44820	44821	44822		
Surrogates	Con. Limit	% Rec.				
Surrogate Percent Recovery						
Chlorobenzene	70-120	114				
Chlorobenzene	70-120		115			
Chlorobenzene	70-120			113		

Batch No: 122799

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Diescl	88	90	2.2	75-120	15					

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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 Attn: Mark Bartee

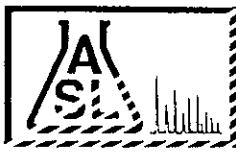
Page: 22  
 Project ID: 46591  
 Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8015M/DHSLUFT, Total Petroleum Hydrocarbons

Our Lab I.D.		44823	44824	44825	44826	44827
Sample ID		B3-15	B4-5	B4-10	B4-15	B5-5
Date Sampled		12/16/1999	12/16/1999	12/16/1999	12/16/1999	12/16/1999
Date Extracted		12/28/1999	12/28/1999	12/28/1999	12/28/1999	12/28/1999
Preparation Method						
Date Analyzed		12/28/1999	12/28/1999	12/28/1999	12/28/1999	12/28/1999
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
Crude Oil	10	ND	ND	ND	ND	ND
Diesel	10	ND	ND	ND	ND	ND
Fuel Oil	10	ND	ND	ND	ND	ND
Heavy Oil	10	ND	ND	ND	ND	ND
Hydraulic Oil	10	ND	ND	ND	ND	ND
Jet Fuel	10	ND	ND	ND	ND	ND
Kerosene	10	ND	ND	ND	ND	ND
Mineral Spirits	10	ND	ND	ND	ND	ND
Paint Thinner	10	ND	ND	ND	ND	ND

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



AMERICAN SCIENTIFIC LABORATORIES, LLC  
*Environmental Testing Services*

ANALYTICAL RESULTS

Page: 23  
 Project ID: 46591  
 Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8015M/DHSLUFT, Total Petroleum Hydrocarbons

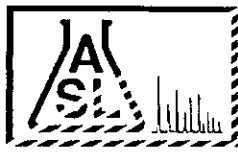
QUALITY CONTROL REPORT

Our Lab I.D.		44823	44824	44825	44826	44827
Surrogates	Con. Limit	% Rec.				
Surrogate Percent Recovery						
Chlorobenzene	70-120	108				
Chlorobenzene	70-120		98			
Chlorobenzene	70-120			99		
Chlorobenzene	70-120				120	
Chlorobenzene	70-120					99

Batch No: 122899

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Diesel	91	85	6.8	75-120	15					

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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ANALYTICAL RESULTS

Ordered By

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Telephone: (562)493-2190  
 Attn: Mark Bartee

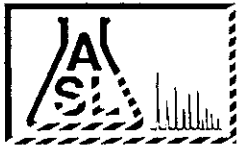
Page: 24  
 Project ID: 46591  
 Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8015M/DHSLUFT, Total Petroleum Hydrocarbons

Our Lab I.D.		44828	44829	44830	44831	44832
Sample ID		B5-10	B5-15	B6-5	B6-10	B6-15
Date Sampled		12/16/1999	12/16/1999	12/16/1999	12/16/1999	12/16/1999
Date Extracted		12/28/1999	12/28/1999	12/28/1999	12/28/1999	12/28/1999
Preparation Method						
Date Analyzed		12/28/1999	12/28/1999	12/28/1999	12/28/1999	12/28/1999
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
Crude Oil	10	ND	ND	ND	ND	ND
Diesel	10	ND	ND	ND	ND	ND
Fuel Oil	10	ND	ND	ND	ND	ND
Heavy Oil	10	ND	ND	ND	ND	ND
Hydraulic Oil	10	ND	ND	ND	ND	ND
Jet Fuel	10	ND	ND	ND	ND	ND
Kerosene	10	ND	ND	ND	ND	ND
Mineral Spirits	10	ND	ND	ND	ND	ND
Paint Thinner	10	ND	ND	ND	ND	ND

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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ANALYTICAL RESULTS

Page: 25  
 Project ID: 46591  
 Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8015M/DHSLUFT, Total Petroleum Hydrocarbons

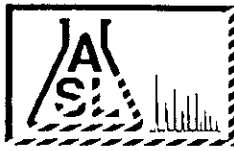
QUALITY CONTROL REPORT

Our Lab I.D.		44828	44829	44830	44831	44832
Surrogates	Con. Limit	% Rec.				
Surrogate Percent Recovery						
Chlorobenzene	70-120	99				
Chlorobenzene	70-120		101			
Chlorobenzene	70-120			98		
Chlorobenzene	70-120				96	
Chlorobenzene	70-120					109

Batch No: 122899

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Diesel	91	85	6.8	75-120	15					

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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ANALYTICAL RESULTS

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Telephone: (562)493-2190  
 Attn: Mark Bartee

Page: 26

Project ID: 46591

Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8020, Aromatic Volatile Organics + MTBE

Our Lab I.D.		44815	44816	44817	44818	44819
Sample ID		B1-5	B1-10	B1-15	B2-5	B2-10
Date Sampled		12/16/1999	12/16/1999	12/16/1999	12/16/1999	12/16/1999
Date Extracted		12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Preparation Method						
Date Analyzed		12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Matrix		Soil	Soil	Soil	Soil	Soil
Units		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
Benzene	5	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND
Toluene (Methyl benzene)	5	ND	ND	11	5	ND
Xylenes, total	10	ND	ND	12	12	ND
MTBE	20	ND	ND	ND	ND	ND

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.





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*Environmental Testing Services*

ANALYTICAL RESULTS

Page: 27  
 Project ID: 46591  
 Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8020, Aromatic Volatile Organics + MTBE

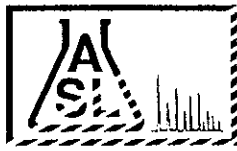
QUALITY CONTROL REPORT

Our Lab I.D.		44815	44816	44817	44818	44819
Surrogates	Con. Limit	% Rec.				
Surrogate Percent Recovery						
Bromofluorobenzene	70-120	103				
Bromofluorobenzene	70-120		99			
Bromofluorobenzene	70-120			99		
Bromofluorobenzene	70-120				86	
Bromofluorobenzene	70-120					82

Batch No: 122799

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit				
Benzene	110	111	<1	75-120	15				
Toluene (Methyl benzene)	112	112	<1	75-120	15				

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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Attn: Mark Bartee

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Project ID: 46591

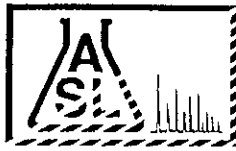
Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8020, Aromatic Volatile Organics + MTBE

Our Lab I.D.		44820	44821	44822	44823	44824
Sample ID		B2-15	B3-5	B3-10	B3-15	B4-5
Date Sampled		12/16/1999	12/16/1999	12/16/1999	12/16/1999	12/16/1999
Date Extracted		12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Preparation Method						
Date Analyzed		12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Matrix		Soil	Soil	Soil	Soil	Soil
Units		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
Benzene	5	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND
Toluene (Methyl benzene)	5	8	8	16	15	ND
Xylenes, total	10	ND	13	15	12	ND
MTBE	20	ND	ND	ND	ND	ND

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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ANALYTICAL RESULTS

Page: 29  
 Project ID: 46591  
 Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8020, Aromatic Volatile Organics + MTBE

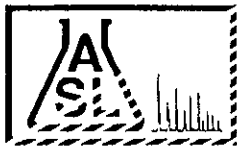
QUALITY CONTROL REPORT

Our Lab I.D.		44820	44821	44822	44823	44824
Surrogates	Con. Limit	% Rec.				
Surrogate Percent Recovery						
Bromofluorobenzene	70-120	98				
Bromofluorobenzene	70-120		72			
Bromofluorobenzene	70-120			104		
Bromofluorobenzene	70-120				92	
Bromofluorobenzene	70-120					72

Batch No: 122799

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Benzene	110	111	<1	75-120	15					
Toluene (Methyl benzene)	112	112	<1	75-120	15					

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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Attn: Mark Bartee

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Project ID: 46591

Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8020, Aromatic Volatile Organics + MTBE

Our Lab I.D.		44825	44826	44827	44828	44829
Sample ID		B4-10	B4-15	B5-5	B5-10	B5-15
Date Sampled		12/16/1999	12/16/1999	12/16/1999	12/16/1999	12/16/1999
Date Extracted		12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Preparation Method						
Date Analyzed		12/27/1999	12/27/1999	12/27/1999	12/27/1999	12/27/1999
Matrix		Soil	Soil	Soil	Soil	Soil
Units		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
Benzene	5	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND
Toluene (Methyl benzene)	5	21	13	ND	ND	11
Xylenes, total	10	12	ND	ND	ND	ND
MTBE	20	ND	ND	ND	ND	ND

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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ANALYTICAL RESULTS

Page: 31  
 Project ID: 46591  
 Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8020, Aromatic Volatile Organics + MTBE

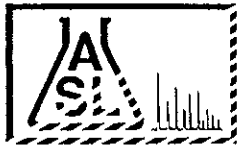
QUALITY CONTROL REPORT

Our Lab I.D.		44825	44826	44827	44828	44829
Surrogates	Con. Limit	% Rec.				
Surrogate Percent Recovery						
Bromofluorobenzene	70-120	83				
Bromofluorobenzene	70-120		84			
Bromofluorobenzene	70-120			94		
Bromofluorobenzene	70-120				93	
Bromofluorobenzene	70-120					71

Batch No: 122799

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Benzene	110	111	<1	75-120	15					
Toluene (Methyl benzene)	112	112	<1	75-120	15					

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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Telephone: (562)493-2190

Attn: Mark Bartee

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Project ID: 46591

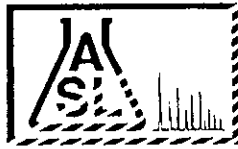
Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8020, Aromatic Volatile Organics + MTBE

Our Lab I.D.		44830	44831	44832		
Sample ID		B6-5	B6-10	B6-15		
Date Sampled		12/16/1999	12/16/1999	12/16/1999		
Date Extracted		12/28/1999	12/28/1999	12/28/1999		
Preparation Method						
Date Analyzed		12/28/1999	12/28/1999	12/28/1999		
Matrix		Soil	Soil	Soil		
Units		ug/kg	ug/kg	ug/kg		
Detection Limit Multiplier		1	1	1		
Analytes	PQL	Results	Results	Results		
Benzene	5	ND	ND	ND		
Ethylbenzene	5	ND	ND	ND		
Toluene (Methyl benzene)	5	6	9	11		
Xylenes, total	10	ND	ND	11		
MTBE	20	ND	ND	ND		

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



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*Environmental Testing Services*

ANALYTICAL RESULTS

Page: 33  
 Project ID: 46591  
 Project Name: Ameriflight Inc.

Job Number	Order Date	Client
6847	12/20/1999	ENVPRF

Method: 8020, Aromatic Volatile Organics + MTBE

QUALITY CONTROL REPORT

Our Lab I.D.		44830	44831	44832		
Surrogates	Con. Limit	% Rec.				
Surrogate Percent Recovery						
Bromofluorobenzene	70-120	97				
Bromofluorobenzene	70-120		101			
Bromofluorobenzene	70-120			120		

Batch No: 122899

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Benzene	110	111	<1	75-120	15					
Toluene (Methyl benzene)	112	112	<1	75-120	15					

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.

# **APPENDIX B**

## **Boring Logs and Well Construction Details**



# Monitoring Well No. MW-1

**PROJECT:** Ameriflight-Oakland  
**DRILL RIG:** Hollow Stem Auger  
**INITIAL GW DEPTH:** ~ 7 ft.

**DATE:** 12-16-99  
**HOLE DIA.:** 8.5 in.  
**FINAL GW:** ~ 5 ft.

**LOGGED BY:** M. Bartee  
**SAMPLER:** split spoon  
**HOLE ELEV.:** NA

DESCRIPTION	USCS CLASS	GRAPHIC LOG	DEPTH	SAMPLE	PID	WELL CONSTRUCTION DETAIL
<p>Asphalt top cover approximately 8-inches thick</p> <p>SILTY CLAY (CL) - Greenish black (5GY 2/1), stiff, moist to wet, no petroleum odor (0,4,36,80)</p> <p>SAND (SP) - Poorly graded, same color, coarse mafic and quartz grains (0,100,0,0)</p> <p>CLAY (CH) - Same color as above, damp, fat, stiff, no petroleum odor (0,0,2,98)</p> <p>same as above, no petroleum odors</p> <p>Boring terminated at 15 feet bgs. Free groundwater encountered @ approximately six (6) feet bgs.</p>	<p>ASPHT</p> <p>CL</p> <p>SP</p> <p>CH</p>		<p>0</p> <p>5</p> <p>10</p> <p>15</p>			

**EPI**

Environmental Profiles, Inc  
 Los Alamitos, California

**Notes:**

(5 YR 2/2) Geological Society of America Rock Color Chart, Munsell color designation. (15,70,10,5) % sample fractions estimated in field (gravel, sand, silt, clay)

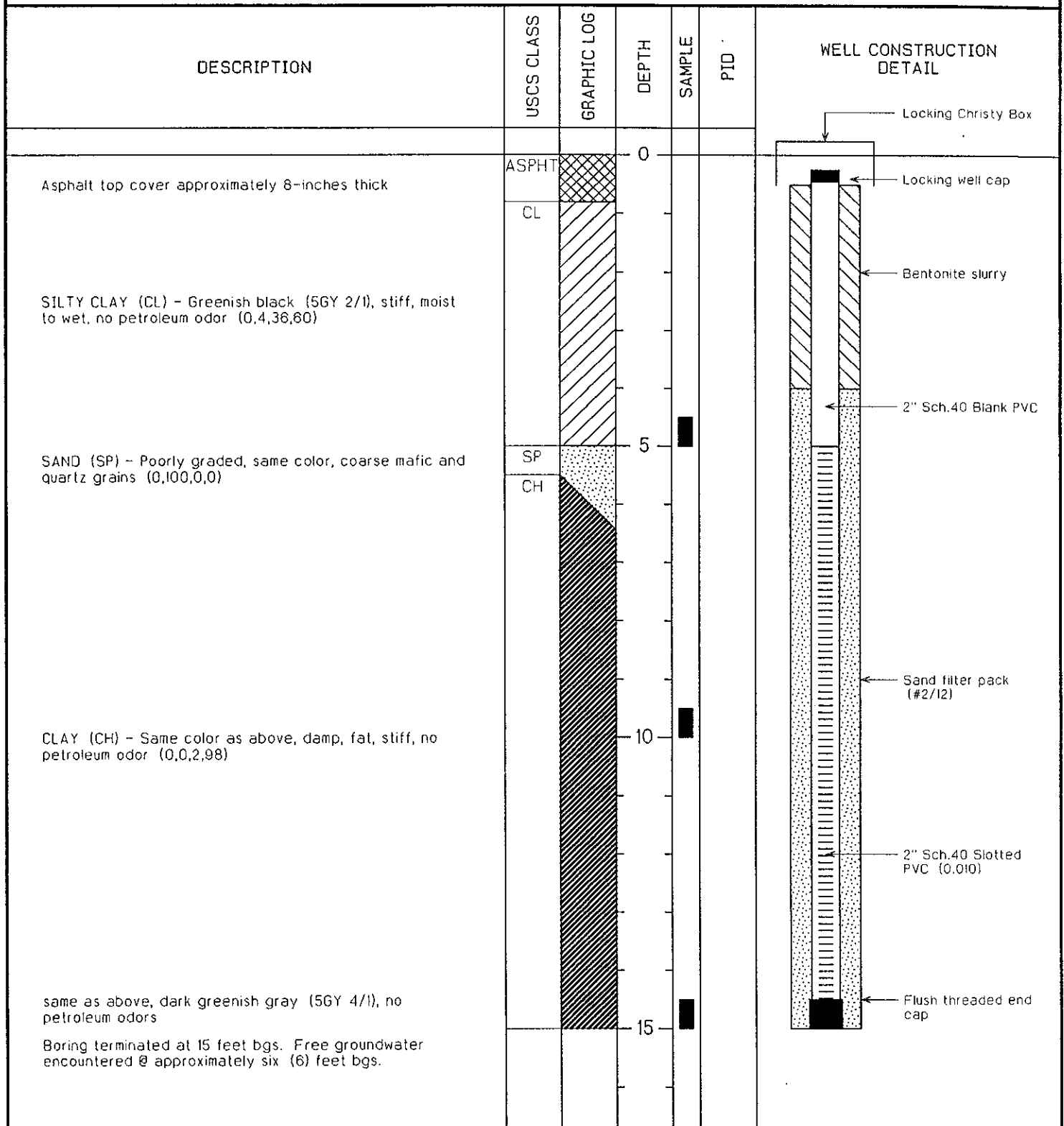
Project No.  
 46591

# Monitoring Well No. MW-2

**PROJECT:** Ameriflight-Oakland  
**DRILL RIG:** Hollow Stem Auger  
**INITIAL GW DEPTH:** ~ 7 ft.

**DATE:** 12-16-99  
**HOLE DIA.:** 8.5 in.  
**FINAL GW:** ~ 5 ft.

**LOGGED BY:** M. Bartee  
**SAMPLER:** split spoon  
**HOLE ELEV.:** NA



**EPI**

Environmental Profiles, Inc  
 Los Alamitos, California

**Notes:**

*(5 YR 2/2) Geological Society of America Rock Color Chart, Munsell color designation. (15,70,10,5) % sample fractions estimated in field (gravel, sand, silt, clay)*

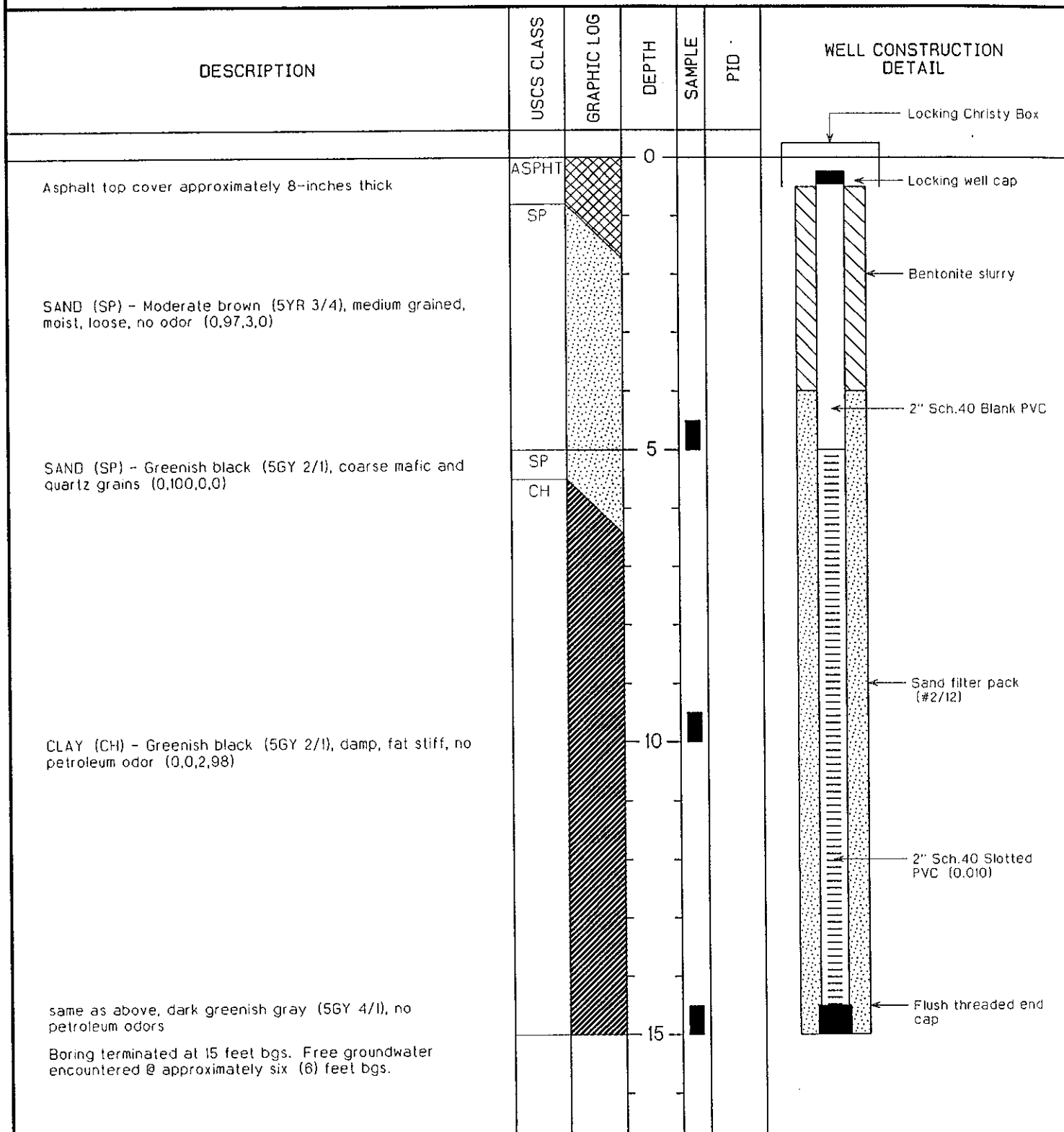
Project No.  
 46591

# Monitoring Well No. MW-3

**PROJECT:** Ameriflight-Oakland  
**DRILL RIG:** Hollow Stem Auger  
**INITIAL GW DEPTH:** ~ 7 ft.

**DATE:** 12-16-99  
**HOLE DIA.:** 8.5 in.  
**FINAL GW:** ~ 5 ft.

**LOGGED BY:** M. Bartee  
**SAMPLER:** split spoon  
**HOLE ELEV.:** NA



**EPI**

Environmental Profiles, Inc  
 Los Alamitos, California

**Notes:**

*(5 YR 2/2) Geological Society of America Rock Color Chart, Munsell color designation. (15,70,10,5) % sample fractions estimated in field (gravel, sand, silt, clay)*

Project No.  
 46591

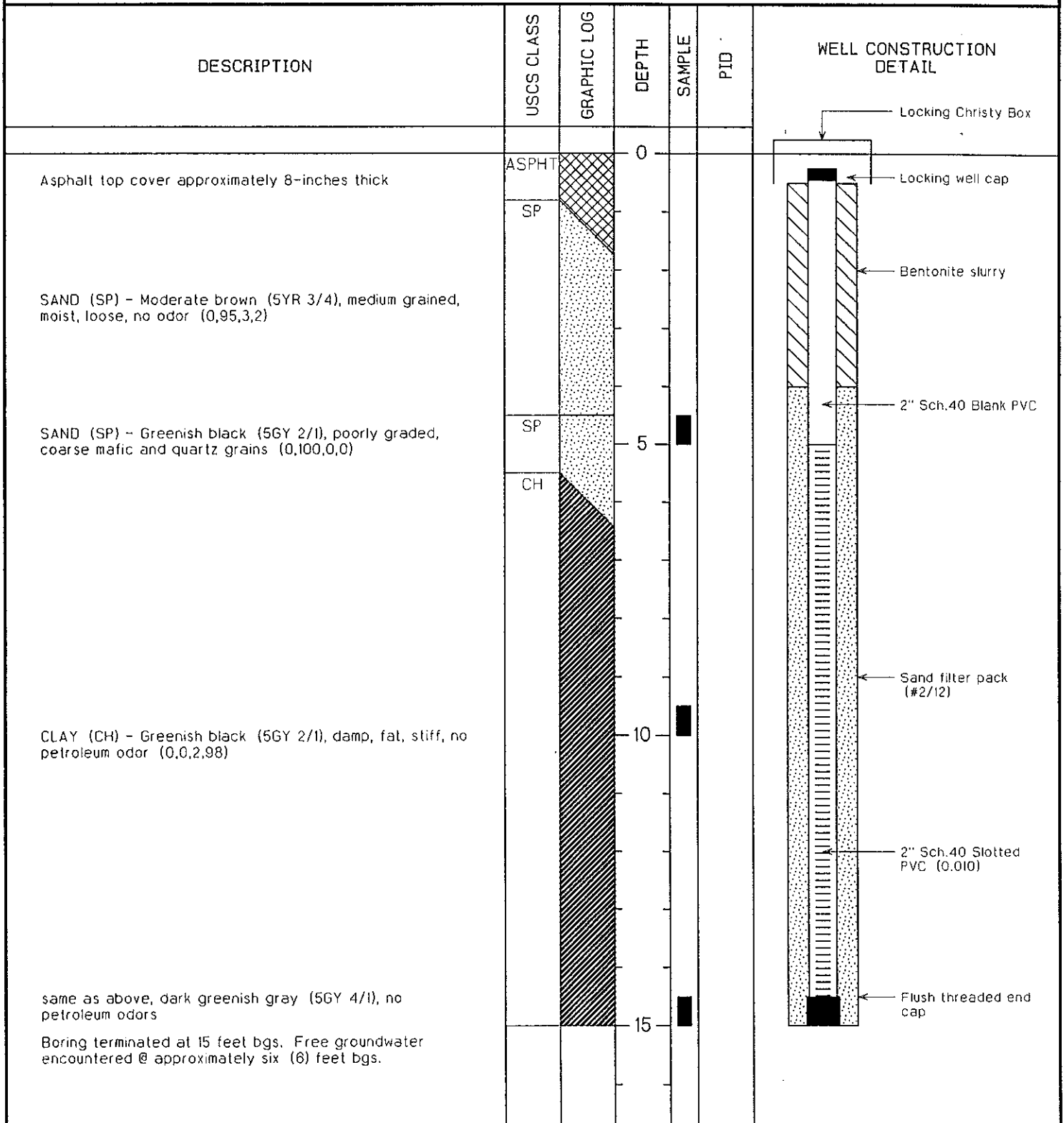
Page 1 of 1

# Monitoring Well No. MW-4

**PROJECT:** Ameriflight-Oakland  
**DRILL RIG:** Hollow Stem Auger  
**INITIAL GW DEPTH:** ~ 7 ft.

**DATE:** 12-16-99  
**HOLE DIA.:** 8.5 in.  
**FINAL GW:** ~ 5 ft.

**LOGGED BY:** M. Bartee  
**SAMPLER:** split spoon  
**HOLE ELEV.:** NA



**EPI**

Environmental Profiles, Inc  
 Los Alamitos, California

**Notes:**

*(5 YR 2/2) Geological Society of America Rock Color Chart, Munsell color designation. (15,70,10,5) % sample fractions estimated in field (gravel, sand, silt, clay)*

Project No.  
 46591

# Monitoring Well No. MW-5

**PROJECT:** Ameriflight-Oakland  
**DRILL RIG:** Hollow Stem Auger  
**INITIAL GW DEPTH:** ~ 7 ft.

**DATE:** 12-16-99  
**HOLE DIA.:** 8.5 in.  
**FINAL GW:** ~ 5 ft.

**LOGGED BY:** M. Bartee  
**SAMPLER:** split spoon  
**HOLE ELEV.:** NA

DESCRIPTION	USCS CLASS	GRAPHIC LOG	DEPTH	SAMPLE	PID	WELL CONSTRUCTION DETAIL
Asphalt top cover approximately 8-inches thick	ASPHT	[Cross-hatched pattern]	0			[Diagram showing well construction with labels: Locking Christy Box, Locking well cap, Bentonite slurry, 2" Sch.40 Blank PVC, Sand filter pack (#2/12), 2" Sch.40 Slotted PVC (0.010), Flush threaded end cap]
SAND (SP) - Moderate brown (5YR 3/4), medium grained, moist, loose, no odor (0,97,3,0)	SP	[Dotted pattern]	5	■		
CLAY (CH) - Greenish black (5GY 2/1), damp, fat stiff, no petroleum odor (0,0,2,98)	CH	[Diagonal hatched pattern]	10	■		
same as above			15	■		
same as above, dark greenish gray (5GY 4/1), no petroleum odors	CH	[Diagonal hatched pattern]	15	■		
Boring terminated at 15 feet bgs. Free groundwater encountered @ approximately six (6) feet bgs.						

**EPI**

Environmental Profiles, Inc  
 Los Alamitos, California

**Notes:**

*(5 YR 2/2) Geological Society of America Rock Color Chart, Munsell color designation. (15,70,10,5) % sample fractions estimated in field (gravel, sand, silt, clay)*

Project No.  
 46591

# Monitoring Well No. MW-6

**PROJECT:** Ameriflight-Oakland

**DATE:** 12-16-99

**LOGGED BY:** M. Bartee

**DRILL RIG:** Hollow Stem Auger

**HOLE DIA.:** 8.5 in.

**SAMPLER:** split spoon

**INITIAL GW DEPTH:** ~ 7 ft.

**FINAL GW:** ~ 5 ft.

**HOLE ELEV.:** NA

DESCRIPTION	USCS CLASS	GRAPHIC LOG	DEPTH	SAMPLE	PID	WELL CONSTRUCTION DETAIL
<p>Asphalt top cover approximately 8-inches thick</p> <p>SILTY CLAY (CL) - Greenish black (5GY 2/1), stiff, moist to wet, no petroleum odor (0,4,36,60)</p> <p>CLAY (CH) - Same color as above, damp, fat, stiff, no petroleum odor (0,0,2,98)</p> <p>same as above, change in color to dark greenish gray (5YG 4/1), with mottled stringers, no petroleum odors</p> <p>Boring terminated at 15 feet bgs. Free groundwater encountered @ approximately six (6) feet bgs.</p>	<p>ASPHT</p> <p>CH</p> <p>CH</p>		<p>0</p> <p>5</p> <p>10</p> <p>15</p>		<p></p> <p></p> <p></p> <p></p> <p></p> <p></p>	

**EPI**

Environmental Profiles, Inc  
Los Alamitos, California

**Notes:**

*(5 YR 2/2) Geological Society of America Rock Color Chart, Munsell color designation. (15,70,10,5) % sample fractions estimated in field (gravel, sand, silt, clay)*

Project No.  
46591

Page 1 of 1

# **APPENDIX A**

## **Chain of Custody Record and Laboratory Chemical Analysis Results, Groundwater**

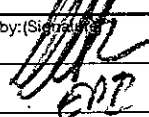
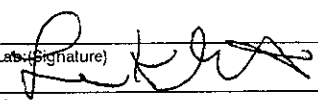
Date: 1.19.00

# Chain-of-Custody

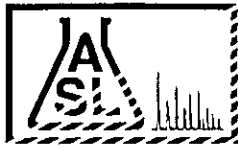
Proj. Name: <b>AMERIFLIGHT</b>	Proj. #: <b>46591</b>	<b>Turn-Around-Time</b>
Proj. Add.: <b>OAKLAND PORT AUTHORITY</b>		<input checked="" type="checkbox"/> Routine
<b>OAKLAND, CALIFORNIA</b>		<input type="checkbox"/> 48 hours
		<input type="checkbox"/> 24 hours
<b>Sample Information</b>		<b>Lab Analysis</b>
		<b>Lab Use Only</b>

Sample ID	Location/Description	Date	Time	Soil	Water	Air	No. of Containers	Analysis				Other	Lab Use Only	
								418.1	IM/8015	8020	WTR		<input type="checkbox"/> Received Chilled	<input type="checkbox"/> Received Sealed
MW1	MONITORING WELL #1	1.18.00	2:00		✓		3	✓	✓	✓		45964		
<del>MW2</del>	<del>MONITORING WELL #2</del>	<del>1.18.00</del>	<del>2:30</del>		✓		3	✓	✓	✓	MM			
<del>MW3</del>	<del>MONITORING WELL #3</del>	<del>1.18.00</del>	<del>2:45</del>		✓		3	✓	✓	✓	MM			
MW4	MONITORING WELL #4	1.18.00	3:13		✓		3	✓	✓	✓		45965		
MW5	MONITORING WELL #5	1.18.00	3:46		✓		3	✓	✓	✓		45966		
MW6	MONITORING WELL #6	1.19.00	4:15		✓		3	✓	✓	✓		45967		

Notes/Comments: (M) 8015 FOR 100 LL AV-GAS AND JET-A

Relinquished by: (Signature) 	Date/Time: <u>1.19.00 12:00</u>	Received by: (Signature) _____	Date/Time _____
Company: <b>EPD</b>		Company: _____	
Relinquished by: (Signature) _____	Date/Time _____	Received by: (Signature) _____	Date/Time _____
Company: _____		Company: _____	
Received By Lab: (Signature) 	Date/Time: <u>1/20/00 2:35</u>	<b>Environmental Profiles, Inc.</b> 5480 Katella, Suite 211 Los Alamitos, California 90720-2823 (562) 493-2190 88 FAX (562) 430-5177	
Laboratory: <b>ASL</b>			





AMERICAN SCIENTIFIC LABORATORIES, LLC  
*Environmental Testing Services*

Ordered By

Environmental Profiles, Inc.  
5480 Katella Ave., Suite 211  
Los Alamitos, CA 90720-2834

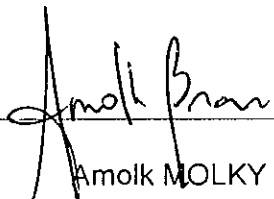
Number of Pages 7  
Date Received 01/20/2000  
Date Reported 01/27/2000

Telephone (562) 493-2190  
Attn Mark Bartee

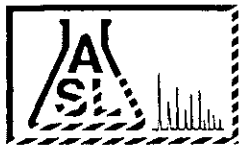
Job Number	Submitted	Client
7060	01/20/2000	ENVPRF

Project ID: 46591  
Project Name: Ameriflight  
Site: Oakland Port Authority  
Oakland, CA

Enclosed are the results of analyses on 4 water samples analyzed as specified on attached chain of custody.

  
Amolk MOLKY Brar  
Laboratory Manager

  
Rojert G. Araghi  
Laboratory Director



AMERICAN SCIENTIFIC LABORATORIES, LLC  
Environmental Testing Services

ANALYTICAL RESULTS

Ordered By

Environmental Profiles, Inc.  
5480 Katella Ave., Suite 211  
Los Alamitos, CA 90720-2834

Site

Oakland Port Authority  
Oakland, CA

Telephone: (562)493-2190

Attn: Mark Bartee

Page: 2

Project ID: 46591

Project Name: Ameriflight

Job Number	Order Date	Client
7060	01/20/2000	ENVPRF

Method: 8015M/8020, TPH as Gasoline and BTEX + MTBE

Our Lab I.D.		45964	45965	45966	45967
Sample ID		MW1	MW4	MW5	MW6
Date Sampled		01/18/2000	01/18/2000	01/18/2000	01/18/2000
Date Extracted		01/26/2000	01/26/2000	01/26/2000	01/26/2000
Preparation Method					
Date Analyzed		01/26/2000	01/26/2000	01/26/2000	01/26/2000
Matrix		Water	Water	Water	Water
Units		ug/L	ug/L	ug/L	ug/L
Detection Limit Multiplier		1	1	1	1
Analytes	PQL	Results	Results	Results	Results
Benzene	0.3	ND	ND	ND	ND
Ethylbenzene	0.3	ND	ND	ND	ND
Toluene (Methyl benzene)	0.3	ND	ND	ND	ND
Xylenes, total	0.6	ND	ND	ND	ND
MTBE	2.0	ND	ND	ND	ND
TPH as Gasoline (C4-C12)	50	ND	ND	ND	ND

QUALITY CONTROL REPORT

Our Lab I.D.		45964	45965	45966	45967
Surrogates	Con. Limit	% Rec.	% Rec.	% Rec.	% Rec.
Surrogate Percent Recovery					
Bromofluorobenzene		90	79	80	91

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



AMERICAN SCIENTIFIC LABORATORIES, LLC  
*Environmental Testing Services*

ANALYTICAL RESULTS

Page: 3  
Project ID: 46591  
Project Name: Ameriflight

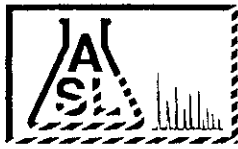
Job Number	Order Date	Client
7060	01/20/2000	ENVPRF

Method: 8015M/8020, TPH as Gasoline and BTEX + MTBE

Batch No: 012600

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Benzene	90	88	2.2	75-120	15					
Toluene (Methyl benzene)	93	91	2.2	75-120	15					

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



AMERICAN SCIENTIFIC LABORATORIES, LLC  
*Environmental Testing Services*

ANALYTICAL RESULTS

Ordered By

Site

Environmental Profiles, Inc.  
 5480 Katella Ave., Suite 211  
 Los Alamitos, CA 90720-2834

Oakland Port Authority  
 Oakland, CA

Telephone: (562)493-2190  
 Attn: Mark Bartee

Page: 4  
 Project ID: 46591  
 Project Name: Ameriflight

Job Number	Order Date	Client
7060	01/20/2000	ENVPRF

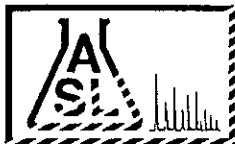
Method: 8015M/DHSLUFT, TPH as Aviation Gas

Our Lab I.D.		45964	45965	45966	45967	
Sample ID		MW1	MW4	MW5	MW6	
Date Sampled		01/18/2000	01/18/2000	01/18/2000	01/18/2000	
Date Extracted		01/26/2000	01/26/2000	01/26/2000	01/26/2000	
Preparation Method						
Date Analyzed		01/26/2000	01/26/2000	01/26/2000	01/26/2000	
Matrix		Water	Water	Water	Water	
Units		ug/L	ug/L	ug/L	ug/L	
Detection Limit Multiplier		1	1	1	1	
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	
Aviation Gas	50	ND	ND	ND	ND	

QUALITY CONTROL REPORT

Our Lab I.D.		45964	45965	45966	45967	
Surrogates	Con. Limit	% Rec.	% Rec.	% Rec.	% Rec.	
Surrogate Percent Recovery						
Bromofluorobenzene	70-120	90	79	80	91	

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



AMERICAN SCIENTIFIC LABORATORIES, LLC  
Environmental Testing Services

ANALYTICAL RESULTS

Page: 5  
Project ID: 46591  
Project Name: Ameriflight

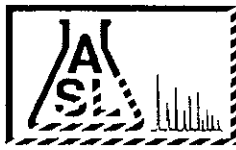
Job Number	Order Date	Client
7060	01/20/2000	ENVPRF

Method: 8015M/DHSLUFT, TPH as Aviation Gas

Batch No: 012600

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Benzene	90	88	2.2	75-125	15					
Toluene (Methyl benzene)	93	91	2.2	75-125	15					

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



AMERICAN SCIENTIFIC LABORATORIES, LLC  
*Environmental Testing Services*

ANALYTICAL RESULTS

Ordered By

Site

Environmental Profiles, Inc.  
 5480 Katella Ave., Suite 211  
 Los Alamitos, CA 90720-2834

Oakland Port Authority  
 Oakland, CA

Telephone: (562)493-2190

Attn: Mark Bartee

Page: 6

Project ID: 46591

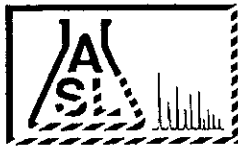
Project Name: Ameriflight

Job Number	Order Date	Client
7060	01/20/2000	ENVPRF

Method: 8015M/DHSLUFT, Total Petroleum Hydrocarbons

Our Lab I.D.		45964	45965	45966	45967	
Sample ID		MW1	MW4	MW5	MW6	
Date Sampled		01/18/2000	01/18/2000	01/18/2000	01/18/2000	
Date Extracted		01/27/2000	01/27/2000	01/27/2000	01/27/2000	
Preparation Method						
Date Analyzed		01/27/2000	01/27/2000	01/27/2000	01/27/2000	
Matrix		Water	Water	Water	Water	
Units		mg/L	mg/L	mg/L	mg/L	
Detection Limit Multiplier		1	1	1	1	
Analytes	PQL	Results	Results	Results	Results	
Crude Oil	1.0	ND	ND	ND	ND	
Diesel	1.0	ND	ND	ND	ND	
Fuel Oil	1.0	ND	ND	ND	ND	
Heavy Oil	1.0	ND	ND	ND	ND	
Hydraulic Oil	1.0	ND	ND	ND	ND	
Jet Fuel	1.0	ND	ND	ND	ND	
Kerosene	1.0	ND	ND	ND	ND	
Mineral Spirits	1.0	ND	ND	ND	ND	

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



AMERICAN SCIENTIFIC LABORATORIES, LLC  
*Environmental Testing Services*

ANALYTICAL RESULTS

Page: 7  
 Project ID: 46591  
 Project Name: Ameriflight

Job Number	Order Date	Client
7060	01/20/2000	ENVPRF

Method: 8015M/DHSLUFT, Total Petroleum Hydrocarbons

QUALITY CONTROL REPORT

Our Lab I.D.		45964	45965	45966	45967	
Surrogates	Con. Limit	% Rec.	% Rec.	% Rec.	% Rec.	
Surrogate Percent Recovery						
Chlorobenzene	70-120	117	113	111	111	

Batch No: 012700

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit				
Diesel	104	103	<1	75-120	15				

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.

Date: 1-19-00

# Chain-of-Custody

Proj. Name: AMERIFLIGHT Proj. #: 46591  
 Proj. Add.: OAKLAND PORT AUTHORITY  
OAKLAND, CALIFORNIA

**Turn-Around-Time**  
 Routine  
 48 hours  
 24 hours

Sample Information								Lab Analysis				Lab Use Only		
Sample ID	Location/Description	Date	Time	Soil	Water	Air	No. of Containers	A18.1	M/8015	8020	WTR	Other	<input type="checkbox"/> Received Chilled	<input type="checkbox"/> Received Sealed
<del>MW1</del>	<del>MONITORING WELL #1</del>	<del>1-18-00</del>	<del>2:00</del>	<del>✓</del>			<del>3</del>	<del>✓</del>	<del>✓</del>	<del>✓</del>				
1 2 MW2	MONITORING WELL #2	1-19-00	2:30	✓			3	✓	✓	✓		46020		
MW3	MONITORING WELL #3	1-18-00	2:45	✓			3	✓	✓	✓		46021		
<del>MW4</del>	<del>MONITORING WELL #4</del>	<del>1-18-00</del>	<del>3:15</del>	<del>✓</del>			<del>3</del>	<del>✓</del>	<del>✓</del>	<del>✓</del>				
<del>MW5</del>	<del>MONITORING WELL #5</del>	<del>1-18-00</del>	<del>3:46</del>	<del>✓</del>			<del>3</del>	<del>✓</del>	<del>✓</del>	<del>✓</del>				
<del>MW6</del>	<del>MONITORING WELL #6</del>	<del>1-18-00</del>	<del>4:15</del>	<del>✓</del>			<del>3</del>	<del>✓</del>	<del>✓</del>	<del>✓</del>				

Notes/Comments: (M) 8015 FOR 100 LL AV-GAS AND JET-A

Relinquished by: (Signature) [Signature]  
 Company: EPT  
 Relinquished by: (Signature) \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Received By Lab: (Signature) \_\_\_\_\_  
 Laboratory: \_\_\_\_\_

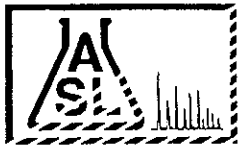
Date/Time  
1-19-00 / 12:00  
 Date/Time  
 \_\_\_\_\_  
 Date/Time  
 \_\_\_\_\_

Received by: (Signature) [Signature]  
 Company: ASL  
 Received by: (Signature) \_\_\_\_\_  
 Company: \_\_\_\_\_

Date/Time  
1:35  
1-21-00  
 Date/Time  
 \_\_\_\_\_

**Environmental Profiles, Inc.**  
 5480 Katella, Suite 211  
 Los Alamitos, California 90720-2823  
 (562) 493-2190 88 FAX (562) 430-5177





AMERICAN SCIENTIFIC LABORATORIES, LLC  
*Environmental Testing Services*

Ordered By

Environmental Profiles, Inc.  
5480 Katella Ave., Suite 211  
Los Alamitos, CA 90720-2834

Number of Pages 7  
Date Received 01/21/2000  
Date Reported 01/28/2000

Telephone (562) 493-2190  
Attn Mark Bartee

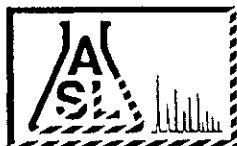
Job Number	Submitted	Client
7065	01/21/2000	ENVPRF

Project ID: 46591  
Project Name: Ameriflight  
Site: Oakland Port Authority  
Oakland, CA

Enclosed are the results of analyses on 2 water samples analyzed as specified on attached chain of custody.

Wendy Lu  
Organics Supervisor

Robert G. Araghi  
Laboratory Director



AMERICAN SCIENTIFIC LABORATORIES, LLC  
*Environmental Testing Services*

ANALYTICAL RESULTS

Ordered By

Environmental Profiles, Inc.  
 5480 Katella Ave., Suite 211  
 Los Alamitos, CA 90720-2834

Site

Oakland Port Authority  
 Oakland, CA

Telephone: (562)493-2190

Attn: Mark Bartee

Page: 2  
 Project ID: 46591  
 Project Name: Ameriflight

Job Number	Order Date	Client
7065	01/21/2000	ENVPRF

Method: 8015M/8020, TPH as Gasoline and BTEX + MTBE

Our Lab I.D.		46020	46021			
Sample ID		MW2	MW3			
Date Sampled		01/18/2000	01/18/2000			
Date Extracted		01/26/2000	01/26/2000			
Preparation Method						
Date Analyzed		01/26/2000	01/26/2000			
Matrix		Water	Water			
Units		ug/L	ug/L			
Detection Limit Multiplier		1	1			
Analytes	PQL	Results	Results			
Benzene	0.3	ND	ND			
Ethylbenzene	0.3	ND	ND			
Toluene (Methyl benzene)	0.3	ND	ND			
Xylenes, total	0.6	ND	ND			
MTBE	2.0	2.8	2.0			
TPH as Gasoline (C4-C12)	50	ND	ND			

QUALITY CONTROL REPORT

Our Lab I.D.		46020	46021			
Surrogates	Con. Limit	% Rec.	% Rec.			
Surrogate Percent Recovery						
Bromofluorobenzene		102	109			

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



AMERICAN SCIENTIFIC LABORATORIES, LLC  
Environmental Testing Services

ANALYTICAL RESULTS

Page: 3  
Project ID: 46591  
Project Name: Ameriflight

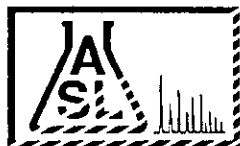
Job Number	Order Date	Client
7065	01/21/2000	ENVERF

Method: 8015M/8020, TPH as Gasoline and BTEX + MTBE

Batch No: 012600

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Benzene	90	88	2.2	75-120	15					
Toluene (Methyl benzene)	93	91	2.2	75-120	15					

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



AMERICAN SCIENTIFIC LABORATORIES, LLC  
Environmental Testing Services

ANALYTICAL RESULTS

Ordered By

Environmental Profiles, Inc.  
5480 Katella Ave., Suite 211  
Los Alamitos, CA 90720-2834

Site

Oakland Port Authority  
Oakland, CA

Telephone: (562)493-2190

Attn: Mark Bartee

Page: 4

Project ID: 46591

Project Name: Ameriflight

Job Number	Order Date	Client
7065	01/21/2000	ENVPRF

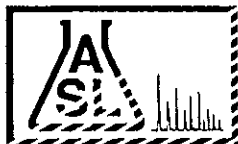
Method: 8015M/DHSLUFT, TPH as Aviation Gas

Our Lab I.D.		46020	46021			
Sample ID		MW2	MW3			
Date Sampled		01/18/2000	01/18/2000			
Date Extracted		01/26/2000	01/26/2000			
Preparation Method						
Date Analyzed		01/26/2000	01/26/2000			
Matrix		Water	Water			
Units		ug/L	ug/L			
Detection Limit Multiplier		1	1			
Analytes	PQL	Results	Results			
Aviation Gas	50	ND	ND			

QUALITY CONTROL REPORT

Our Lab I.D.		46020	46021			
Surrogates	Con. Limit	% Rec.	% Rec.			
Surrogate Percent Recovery						
Bromofluorobenzene	70-120	102	109			

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



AMERICAN SCIENTIFIC LABORATORIES, LLC  
*Environmental Testing Services*

ANALYTICAL RESULTS

Page: 5  
Project ID: 46591  
Project Name: Ameriflight

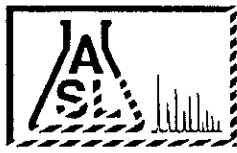
Job Number	Order Date	Client
7065	01/21/2000	ENVPRF

Method: 8015M/DHSLUFT, TPH as Aviation Gas

Batch No: 012600

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Benzene	90	88	2.2	75-125	15					
Toluene (Methyl benzene)	93	91	2.2	75-125	15					

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



AMERICAN SCIENTIFIC LABORATORIES, LLC  
*Environmental Testing Services*

ANALYTICAL RESULTS

Ordered By

Site

Environmental Profiles, Inc.  
 5480 Katella Ave., Suite 211  
 Los Alamitos, CA 90720-2834

Oakland Port Authority  
 Oakland, CA

Telephone: (562)493-2190

Attn: Mark Bartee

Page: 6

Project ID: 46591

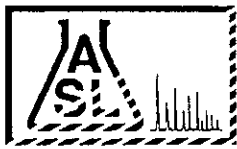
Project Name: Ameriflight

Job Number	Order Date	Client
7065	01/21/2000	ENVPRF

Method: 8015M/DHSLUFT, Total Petroleum Hydrocarbons

Our Lab I.D.		46020	46021			
Sample ID		MW2	MW3			
Date Sampled		01/18/2000	01/18/2000			
Date Extracted		01/27/2000	01/27/2000			
Preparation Method						
Date Analyzed		01/27/2000	01/27/2000			
Matrix		Water	Water			
Units		mg/L	mg/L			
Detection Limit Multiplier		1	1			
Analytes	PQL	Results	Results			
Crude Oil	1.0	ND	ND			
Diesel	1.0	ND	ND			
Fuel Oil	1.0	ND	ND			
Heavy Oil	1.0	ND	ND			
Hydraulic Oil	1.0	ND	ND			
Jet Fuel	1.0	ND	ND			
Kerosene	1.0	ND	ND			
Mineral Spirits	1.0	ND	ND			

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.



AMERICAN SCIENTIFIC LABORATORIES, LLC  
*Environmental Testing Services*

ANALYTICAL RESULTS

Page: 7  
 Project ID: 46591  
 Project Name: Ameriflight

Job Number	Order Date	Client
7065	01/21/2000	ENVPRF

Method: 8015M/DHSLUFT, Total Petroleum Hydrocarbons

QUALITY CONTROL REPORT

Our Lab I.D.		46020	46021			
Surrogates	Con. Limit	% Rec.	% Rec.			
Surrogate Percent Recovery						
Chlorobenzene	70-120	113	113			

Batch No: 012700-1

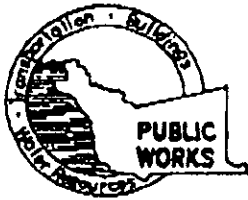
Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit					
Diesel	110	110	<1	75-120	15					

ND - Not Detected at The Detection Limit. MS - Matrix Spike. MSD - Matrix Spike Duplicate. SM - Sample. SMD - Sample Duplicate.

# **APPENDIX D**

## **Regulatory Documentation**





ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
PHONE (510) 670-5248 MARLON MAGALLANES/CINDY HUTCHINSON
FAX (510) 670-5363

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT AIRRAILFLIGHT - OAKLAND
9171 EARHART ROAD, WAREHOSE #2
OAKLAND, CA 94671

PERMIT NUMBER 99 WR 720
WELL NUMBER
APN

CLIENT Name EPI
Address 5400 KATELLA AVE, SUITE 211 Phone (510) 493-2190
City LEE AVENUE, CA Zip 90721

APPLICANT Name SAME AS ABOVE
Address
City
Phone
Zip
Fax (510) 430-5177

TYPE OF PROJECT
Well Construction
Cathodic Protection
Water Supply
Monitoring
Geotechnical Investigation
General
Contamination
Well Destruction

PROPOSED WATER SUPPLY WELL USE - NA
New Domestic
Municipal
Industrial
Replacement Domestic
Irrigation
Other

DRILLING METHOD:
Mud Rotary
Cable
Air Rotary
Other
Auger
H.S.

DRILLER'S LICENSE NO. (C-57) 484288

WELL PROJECTS
Drill Hole Diameter 8 1/2 in.
Casing Diameter 2 in.
Surface Seal Depth 5 ft.
Maximum Depth 16 ft.
Number 6

GEOTECHNICAL PROJECTS
Number of Borings
Hole Diameter in.
Maximum Depth ft.

ESTIMATED STARTING DATE 12.16.99
ESTIMATED COMPLETION DATE 12.16.99

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Mark Birta DATE 12-13-99

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL

- 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC

Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION

See attached.

G. SPECIAL CONDITIONS

APPROVED [Signature] DATE 12-14-99

\*\* TOTAL PAGE.02 \*\*

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



October 25, 1999  
StID # 3977

Mr. Tony Ortega  
Ameriflight, Inc.  
4700 Empire Ave., Hanger 1  
Burbank, CA 91505

ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700

**Re: Work Plan for Well Installations at Ameriflight, Oakland Airport, Hanger 2, 9171  
Earhart Rd., Oakland CA 94621**

Dear Mr. Ortega:

Our office has received a copy of the Work Plan Groundwater Investigation for the above site prepared by Environmental Profiles, Inc. The report was given to us by Mr. Dale Klettke of the Port of Oakland. Please be aware that our office, not the City of Oakland, will be overseeing the fuel release investigation from the two former underground tanks. I was also provided a site visit to appreciate the location of the former tanks and the surrounding buildings.

Upon review of the work plan, it appears that there is some inconsistency in the text of the work plan compared with that shown on Figure 2, the Well Location Diagram. Figure 2 shows that six (6) wells will be installed at the site, while the text of the Exploratory Soils Borings text states that four exploratory borings will be drilled. These borings are located relative to monitoring well MW-1, indicating perhaps that five borings/wells may be installed. Having been onsite, it appears that initially, only three monitoring wells need be installed. With concurrence from the Port of Oakland, the three well locations are labeled Well #1, Well #6 and Well #3 in Figure 2. At the time of well installation you may want to expand your investigation if significant soil or groundwater contamination is found. Soil and groundwater samples should be analyzed for TPH as aviation fuel and as jet fuel, BTEX, MTBE and lead.

If these comments are acceptable, you may proceed with this proposed work. Otherwise please contact me with your concerns. Please notify our office prior to performing this work.

You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan  
Hazardous Materials Specialist

C: B. Chan, files

Mr. M. Walker, Environmental Profiles, Inc., 5480 Katella Ave., Suite 211, Los Alamitos, CA  
90720-2834

Mr. D. Klettke, Port of Oakland, 530 Water St., P.O. Box 2064, Oakland CA 94604-2064

Mr. M. Livingston, Armored Transport Inc., 3280 E. Foothill Blvd., #290, Pasadena, CA

91107 wpap9171Earhart

RECEIVED NOV 1 1999

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94602-6577  
(510) 567-6700  
(510) 337-9335 (FAX)

September 21, 1999  
StID # 3977

Mr. Tony Ortega  
Ameriflight, Inc.  
4700 Empire Ave., Hanger 1  
Burbank, CA 91505

Re: Request for Technical Report for Ameriflight, Inc., Oakland Airport, Hanger 2  
9171 Earhart Rd., Oakland CA 94621

Dear Mr. Ortega:

Our office has been provided a copy of the August 2, 1999 Underground Storage Tank Closure Report Tanks LF5/6 for the above site, prepared by Environmental Profiles, Inc. The report was provided by Mr. Herman Gomez of the City of Oakland Fire Department. As you are aware, this report details the November 11, 1998 removal of two 12,000 gallon underground tanks used to store aviation and Jet-A fuel. Based upon the results of the soil and grab groundwater sample collected at this removal, this site has experienced a confirmed release of fuel, the extent of which must be determined and possibly remediated. This site has been transferred to the Local Oversight Program (LOP), within Alameda County Environmental Health, to allow our office to provide regulatory oversight. Our office acts in behalf of the Water Board to oversee underground tank fuel release sites. A Notice of Responsibility (NOR) letter will be sent to inform you of this action. In addition, enclosed please find an Unauthorized Release (Leak) Report. This report should be completed and returned to our office within 10 days of receipt.

At this time, you are requested to submit a work plan to determine the extent of both soil and groundwater petroleum contamination at this site. Our office recommends the use of a rapid site assessment technique (eg hydropunch, geoprobe, et al) to obtain this information. Based upon the initial results, you may limit your chemical analysis to Total Petroleum Hydrocarbons as jet fuel and as aviation fuel, BTEX and MTBE. Please confirm the presence of any detected MTBE using EPA Method 8260 or 8240. Please submit your work plan to our office within 45 days or no later than November 5, 1999. You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan  
Hazardous Materials Specialist

enclosure (Mr. Ortega)

c: B. Chan, files  
D. Klettke, Port of Oakland, 530 Water St., P.O. Box 2064, Oakland CA 94604-2064

Wprq9171Earhart