

FB 01

FB-01-002



DEPARTMENT OF THE ARMY
HEADQUARTERS, U. S. ARMY AIR DEFENSE ARTILLERY CENTER AND FORT BLISS
1733 PLEASANTON ROAD
FORT BLISS, TEXAS 79916-6816



ENTERED

REPLY TO
ATTENTION OF:

ATZC-DOE (200)

MEMORANDUM FOR:

Glenn vonGonton
Hazardous Waste Bureau
New Mexico Environment Department
2044 Galisteo, Bldg. A
P.O. Box 26110
Santa Fe, New Mexico 87502



SUBJECT: Site Investigation Report of the Organ Mountain Meteorological Station **SWmu 81**

1. Enclosed please find a copy of the Organ Mountain Meteorological Station (FTBL-028) Site Investigation Report Fort Bliss, New Mexico. This report is provided for your review and comment.
2. Our conclusions, which we hope you will agree with, are that there is only minor soil contamination which has occurred from the military's occupancy of this site. The detection of Arochlor-1260 and two detections of TPH-DRO were below EPA Soil Screening Levels. The one soil sample with 1,710 mg/Kg was next to the battery box and we feel, while above the Residential Soil Screening Level is restricted to the soils immediately under and around the battery box.
3. Our recommended course of action while similar, is somewhat different from that of the Environmental Contractor in their section 4. Fort Bliss proposes for you consideration and comment to:
 - a. Remove the batteries and other loose military debris and hardware from the site.
 - b. Excavate and remove up to 8 cubic feet of soil generally 8 inched under and three feet square around the box that contained the lead acid batteries.
 - c. Take confirmatory soil samples of the undisturbed soil after the excavation is complete.
 - d. If, as we suspect, the confirmation results are near or below the Residential Soil Screening levels we will prepare a petition for No Further Action Required under NMED Criterion #5. This petition will of course, contain the required ecological risk screening per your guidelines.
4. We feel this site, as part of the permanent property of the US Government as represented by Fort Bliss, will never be used as residential. At 8,500+ feet above sea level, on top of the Organ Peak, it is isolated not only by it physical inaccessibility to the ordinary person, but also lies well inside of our restricted boundaries. While we recognize that illegal trespassing does occur from time to time by climbers on their way to the actual peak a few hundred yards away, it is hardly a place of more than brief occupation going up and down the mountain.
5. Fort Bliss will undertake this removal action on a voluntary basis and begin, hopefully with your comments taken into consideration, in September of this year.
6. Please direct any questions to me by calling 915-568-7979 or email (dodged@bliss.army.mil).

Sincerely,

David Dodge
Engineering and Environment, Inc.
IRP Project Manager

Cf: Robert J. Lenhart, Ph.D., COTR

LIBRARY COPY

**ORGAN MOUNTAIN METEOROLOGICAL STATION (FTBL-081)
SITE INVESTIGATION REPORT**

FORT BLISS, NEW MEXICO



Prepared for:

United States Army Corps of Engineers
Tulsa District
Tulsa, OK

Submitted by:

Roy F. Weston, Inc.
5599 San Felipe, Suite 700
Houston, TX 77056
(713) 621-1620

September 2000

**ORGAN MOUNTAIN METEOROLOGICAL STATION (FTBL-081)
SITE INVESTIGATION REPORT**

TABLE OF CONTENTS

SECTION	TITLE	PAGE
1	INTRODUCTION.....	1-1
1.1	SITE BACKGROUND AND DESCRIPTION.....	1-1
1.2	OBJECTIVES OF THE SITE INVESTIGATION.....	1-1
2	INVESTIGATION ACTIVITIES.....	2-1
2.1	SOIL SAMPLE LOCATIONS.....	2-1
2.2	SAMPLING PROCEDURES.....	2-1
2.3	ANALYTICAL APPROACH.....	2-2
2.4	SAMPLE HANDLING AND MANAGEMENT.....	2-2
3	SUMMARY OF RESULTS.....	3-1
3.1	EVALUATION METHODS.....	3-1
3.2	DATA VALIDATION.....	3-1
3.3	SOIL SAMPLE RESULTS.....	3-1
	3.3.1 Inorganic Results.....	3-1
	3.3.2 Organic Results.....	3-1
4	CONCLUSIONS AND RECOMMENDATIONS.....	4-1
4.1	CONCLUSIONS.....	4-1
4.2	RECOMMENDATIONS.....	4-1

ATTACHMENTS

- A Photographs of Organ Mountain Station
- B Analytical Laboratory Reports

**ORGAN MOUNTAIN METEOROLOGICAL STATION (FTBL-081)
SITE INVESTIGATION REPORT**

LIST OF FIGURES AND TABLES

FIGURE	TITLE
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- | | |
|---|--|
| 1 | Location Map, Organ Mountain Station |
| 2 | Site Plan, Organ Mountain Meteorological Station |

TABLE	TITLE
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- | | |
|---|---|
| 1 | Soil Characterization Sampling – Metals Summary of Results |
| 2 | Soil Characterization Sampling – Organic Compound Summary of Detections |

SECTION 1 INTRODUCTION

Roy F. Weston, Inc (WESTON®) was contracted by the United States Army Corps of Engineers (USACE) (Contract No. DACA56-93-D-0008, Delivery Order No. 0019) to perform a Site Investigation of the Organ Mountain Station, Fort Bliss, New Mexico. The Organ Mountain Station is referred to as FTBL-081 according to the Fort Bliss Environmental Audit. This investigation was completed to determine if the conditions at the Station warranted further action. A location map of the Organ Mountain Station is provided as Figure 1. This Site Investigation Report provides a summary of the available background information, sampling procedures, and the results of the July 2000 sampling activities.

1.1 SITE BACKGROUND AND DESCRIPTION

The Organ Mountain Station is the site of a former meteorological station that was used for Army related activities when Fort Bliss and the associated firing ranges were more active. The Station is no longer used and little equipment and structures remain. The Station is located on a peak in the Organ Mountains at an elevation of approximately 8,500 feet above mean sea level. The geographic coordinates of the Station are 32° 20.13' N and 106° 32.69' W. The Station is approximately one-acre in size and contains one metal shed (shack), an unregistered above ground storage tank (250 gallon), two equipment racks possibly used for battery and equipment storage, a small burn area, a radio antenna tripod, a wind vane, and several empty containers. A battery box containing five batteries is also present near the wind vane. Photographs of the site are included in Attachment A, and a site plan is provided as Figure 2.

1.2 OBJECTIVES OF THE SITE INVESTIGATION

The primary objective of the Organ Mountain Station Site Investigation was to determine whether historical activities had impacted soils in the area and whether additional actions are required. The objective was achieved by evaluating data obtained through collection and analysis of soil samples from areas of potential concern identified during site reconnaissance.

SECTION 2 INVESTIGATION ACTIVITIES

The Site Investigation was conducted on 24 July 2000. Upon arrival at the Station, the field team conducted reconnaissance to document the site conditions, obtain measurements and photographs, and to identify areas of potential concern for sampling. The sampling locations and sampling procedures are discussed in the following subsections.

2.1 SOIL SAMPLE LOCATIONS

Five locations were identified for sampling as part of the Site Investigation. The sampling locations and rationale are outlined below, and the sampling locations are shown in Figure 2.

- One surface soil sample (OM-1) was collected in the apparent burn area down slope of the fuel storage tank. Debris including nails, electrical-related items (wires), bolts, spark plugs, and charred wood were observed in the burn area. The apparent burn area was measured to be approximately 6' x 12' in size.
- One surface soil sample (OM-2) was collected inside of the metal shack where evidence of former burning was noticed and where materials storage most likely occurred. The empty metal shed was measured to be approximately 12' x 12' in size, and was constructed with an earthen floor.
- One surface soil sample (OM-3) was collected near a single discarded battery downslope and near the apparent burn area.
- One surface soil sample (OM-4) was collected immediately beneath the above ground fuel storage tank.
- One surface soil sample (OM-5) was collected adjacent to the battery box where the potential location of the meteorological recording equipment was located.

Several empty containers and drums were identified at the Station. Based on the location of the containers, it appeared that the observed location was secondary due to weather forces (downslope of the flat area containing the Station). Since the observed locations of the empty containers were believed not to be the original staging location, these areas were not sampled.

2.2 SAMPLING PROCEDURES

Soil from each of the surface sample locations was collected using disposable plastic scoops. Surface debris (vegetation and leaves) was removed where necessary, and a soil core from 0 to 6-inches was collected at each location. The soil core was transferred to appropriate sample containers using the disposable scoops.

For future identification, distances from existing structures/features was measured and recorded in the logbook. A site sketch was also developed in the field logbook to document the conditions at the Station and the sampling locations.

After collection, the sample containers were sealed and labeled with the sample identification number, date, time, required analyses, and sampler's initials. The sample containers were then placed in plastic zip bags on ice in a cooler. The analytical approach for the soil samples is discussed below.

2.3 ANALYTICAL APPROACH

The analytical requirements for the Site Investigation was developed based on the information obtained from site reconnaissance and the historical use of the Station. The analyses performed on the samples is summarized in the following table.

SAMPLE ID	VOLATILE ORGANIC COMPOUNDS (8260)	SEMI-VOLATILE ORGANIC COMPOUNDS (8270)	PESTICIDES / PCBS (8081)	METALS (6010/7000)	TOTAL PETROLEUM HYDRO-CARBONS (8015)
OM-1	X	X	X	X	X
OM-2	X	X	X	X	X
OM-3				X	
OM-4	X				X
OM-5	X	X	X	X	X

2.4 SAMPLE HANDLING AND MANAGEMENT

As previously stated, samples for chemical analyses were placed in clean sample containers provided by the laboratory and labeled with information including the date and time of collection, sample identification, and required analysis. The sample containers were then individually bagged, sealed, and placed in a cooler full of ice and packing material. The cooler was then sealed and delivered to Federal Express for overnight shipment to the analytical laboratory. Proper chain-of-custody (COC) procedures were implemented for all collected samples, and COC documentation accompanied the sample shipment. A copy of the COC form is included in Attachment B.

SECTION 3 SUMMARY OF RESULTS

To evaluate the potential presence and nature of contaminants from historic activities at the Organ Mountain Station, a total of five soil samples were collected during the July 2000 Site Investigation. Five sampling location were selected at suspected areas of potential concern at the Stations. The following subsections provide the analytical results from the sampling activities.

3.1 EVALUATION METHODS

The analytical results from the soil samples were first compared to the laboratory practical quantitation limit (PQL) to determine if any of the analyzed constituents were present in the samples. For results exceeding the PQL, the EPA Region 6 Human Health Medium-Specific Soil Screening Levels (EPA, 1998) were used to further evaluate the significance of the results. The EPA Residential Soil (ingestion, inhalation, and dermal exposure routes) Screening Levels were used as the comparative values.

3.2 DATA VALIDATION

The data were validated by independent review and the data are considered useful for their intended purpose.

3.3 SOIL SAMPLE RESULTS

A summary of the inorganic and organic sample results is provided in Tables 1 and 2, respectively. A copy of the laboratory report summaries are also provided in Attachment B for reference.

3.3.1 Inorganic Results

A summary of the inorganic (metals) results is provided in Table 1. As shown, several metals were reported above the PQL in all of the samples, but at concentrations below the respective EPA Soil Screening Levels. One exception is lead in sample OM-5. Lead was reported at a concentration of 1,710 mg/kg as compared to the EPA Residential Soil Screening Level of 400 mg/kg. The industrial Soil Screening Level for lead is 2,000 mg/kg. The area of elevated lead is believed to be isolated and limited to the area immediately around the battery box and wind vane.

3.3.2 Organic Results

A summary of the organic results is provided in Table 2. As shown, several volatile organic compounds (VOCs) were reported in some of the samples at concentrations above the laboratory PQL. Acetone (0.034 mg/kg) and methylene chloride (0.006 mg/kg) were reported in sample OM-2. These are common laboratory contaminants and the presence of these compounds are not believed to be representative of the conditions at the Station even though the associated blank

samples were not reported with these compounds. The weather conditions at the Station and the lack of recent use do not support the presence of these compounds in the surface soils. The concentrations of acetone and methylene chloride are significantly below the EPA Residential Soil Screening Levels. Two other compounds, chloroform and toluene, were reported in some of the samples at concentrations below the laboratory PQL (as indicated by the "J" qualifier in the laboratory reports). Semi-volatile organic compounds (SVOCs) were not reported in any of the soil samples.

One PCB constituent, Arochlor-1260, was reported in sample OM-2 at a concentration of 0.16 mg/kg. The EPA has not established a Soil Screening Level for this Arochlor isomer, but the EPA has established Soil Screening Levels for two other Arochlor isomers (1016 and 1254). The lowest available EPA Soil Screening Level is for Arochlor-1254 at a concentration of 0.97 mg/kg. Thus, the concentration of Arochlor-1260 reported in sample OM-2 is believed to be protective of human health. Pesticides were not reported in any of the soil samples.

TPH-DRO (diesel range organics) was reported in samples OM-4 and OM-5 at concentrations of 20 and 25 mg/kg, respectively. Note that EPA screening levels for TPH are not available. Based on the results, it appears that the reported TPH is confined to a small area immediately around the above ground fuel storage tank and the battery box. Since VOC, SVOC, pesticide, and PCB constituents were not reported in these same samples, the reported TPH is believed to be residual in nature and not characteristic of hazardous constituents.

SECTION 4

CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

The data and information collected during the Site Investigation has been used to evaluate the conditions at the former meteorological station in the Organ Mountains. As stated previously, the sampling plan was developed based on available information so as to investigate suspected areas of potential concern. To this end, the following conclusions have been drawn from the data.

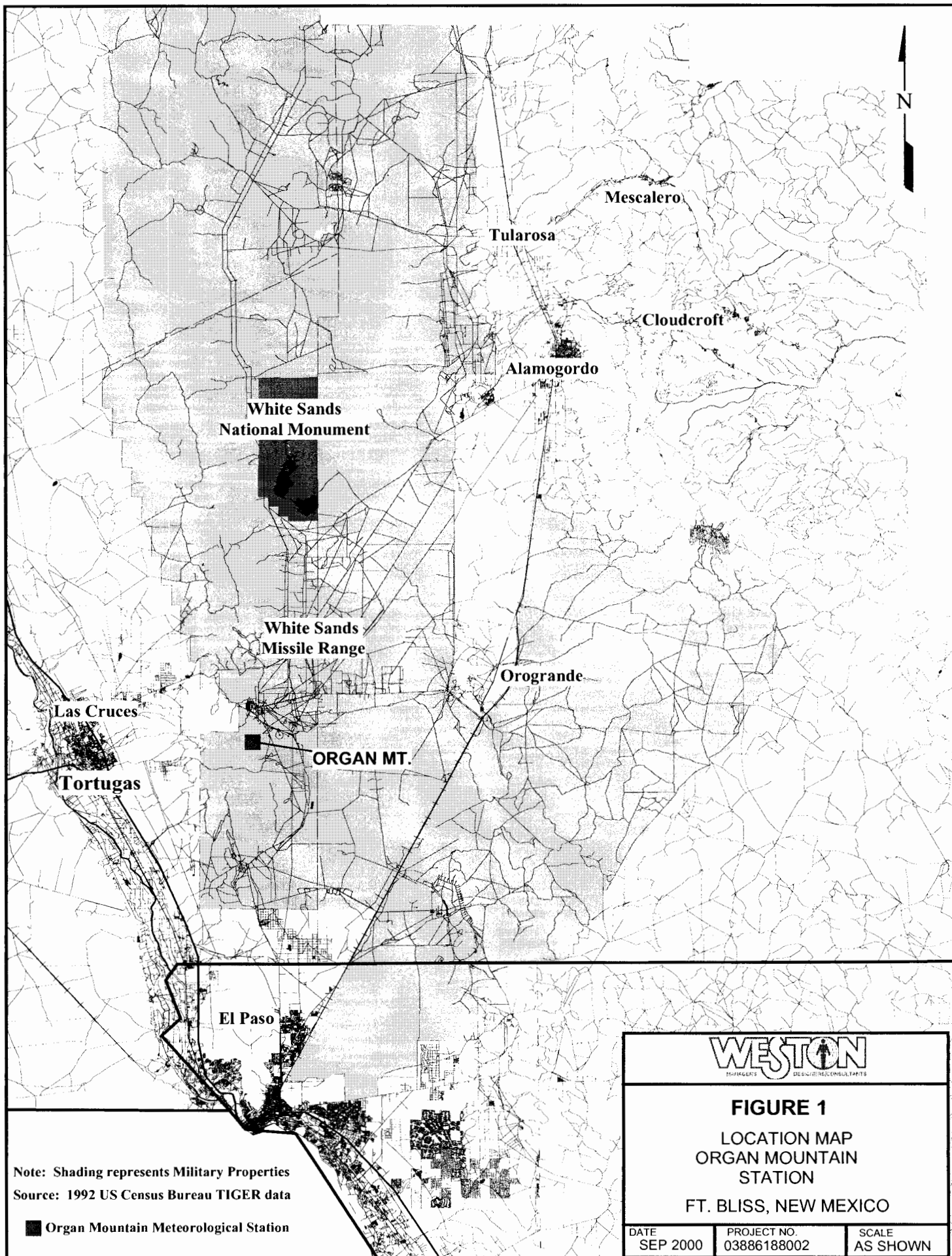
- The Organ Mountain Station is located in a remote area within the Organ Mountains. There is no road into the Station and the only access is by strenuous hiking or air support. The Organ Mountains are located in an area controlled by the Bureau of Land Management and the Fort Bliss / Whites Sands Missile Range Military Reservations. Thus, the potential for casual trespassers and human exposure is very low.
- With the exception of one detection of Arochlor-1260 and two detections of TPH-DRO, hazardous constituents are not present in the surface soils in and around the former Station. The detection of Arochlor-1260 and TPH are believed to be the results of historical activities associated with power supplies for the meteorological station. The results of samples are below the available EPA Soil Screening Levels.
- Lead was reported in one sample above the Residential Soil Screening Level established by the EPA. This location is near the area where batteries were apparently stored for supplying power to the meteorological equipment. The lead result is below the Industrial Soil Screening Level established by the EPA. Given the limited and non-residential use of the Station and surrounding area and the remoteness of the Station, the Industrial Screening Level appears appropriate for evaluating the soil conditions with respect to this constituent.

4.2 RECOMMENDATIONS

Based on the conclusions provided above and the available information; WESTON offers the following recommendations for Fort Bliss to consider.


- Considering removing the batteries, and a potential continuing source of lead, from the Station. Additional sampling around the battery box may be prudent to demonstrate that the presence of elevated lead is limited.
- Conduct an ecological risk screening using the results of the Site Investigation since the higher elevations within the Organ Mountains are known to be habitat for several species of raptors and other animals.

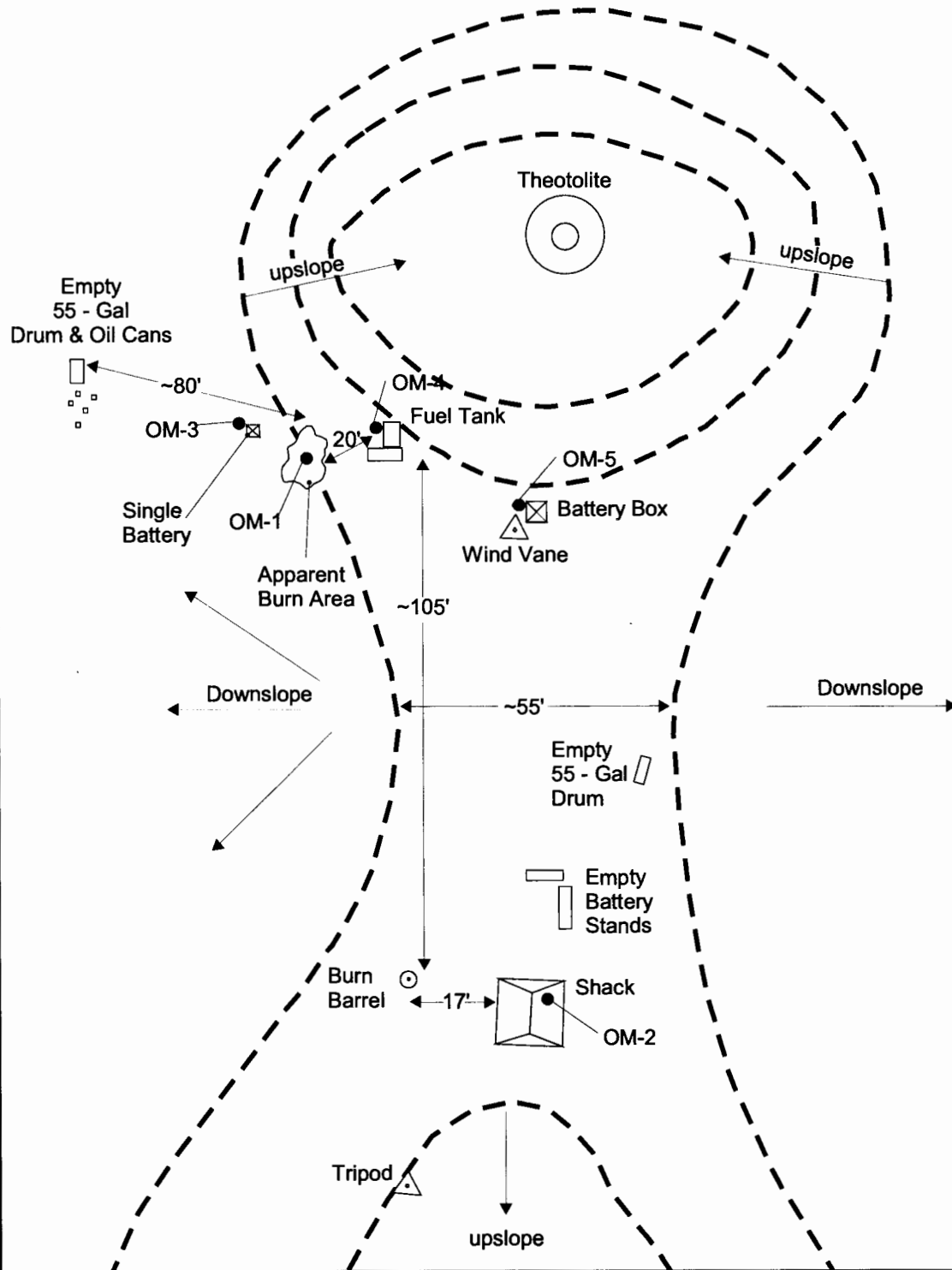
- Since the samples collected from the Station were below EPA Region 6 Human Health Medium Specific Screening Levels, the requirements for No Further Action (NFA) under NMED Criterion 5 (3 March 1998) have been met. Therefore, Fort Bliss should prepare a No Further Action Closure Petition as a separate document that will be submitted for review by the New Mexico Environment Department.



Note: Shading represents Military Properties
 Source: 1992 US Census Bureau TIGER data

■ Organ Mountain Meteorological Station

		
FIGURE 1 LOCATION MAP ORGAN MOUNTAIN STATION FT. BLISS, NEW MEXICO		
DATE SEP 2000	PROJECT NO. 03886188002	SCALE AS SHOWN



● Surface Soil Sample Location



FIGURE 2
SITE PLAN
ORGAN MOUNTAIN
METEOROLOGICAL STATION
FORT BLISS, NEW MEXICO

DATE Sept 2000	PROJECT NO. 03886-188-002-0010	SCALE NOT TO SCALE
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Table 1
Fort Bliss - Organ Mountain Site
Soil Characterization Sampling - Metals Summary of Results

Analyte	EPA Region 6 Residential Soil Screening Levels ¹ (mg/kg)	Station ID Collect Date QC Type Depth (ft)	OM-1 7/24/00 Normal 0.5	OM-2 7/24/00 Normal 0.5	OM-3 7/24/00 Normal 0.5	OM-4 7/24/00 Normal 0.5	OM-5 7/24/00 Normal 0.5
Antimony	30		0.49	0.43	0.24	NS	2
Arsenic	21		7.6	3.4	7.1	NS	7.4
Barium	5,200		76.2	64.7	70.8	NS	57.8
Cadmium	37		2.6	0.45	0.42	NS	1.4
Chromium	210		27.3	10.7	22.4	NS	18.2
Copper	2,800		20.5	54.2	21.6	NS	25.8
Mercury ²	5.5		0.02 U	0.02 U	0.03	NS	0.02
Lead	400		39.2	28.7	23.3	NS	1,710
Selenium	370		0.2 U	0.16 U	0.24	NS	0.16 U
Silver	370		0.07	0.06 U	0.07 U	NS	0.07 U
Zinc	22,000		60.9	670	60.7	NS	539

Notes:

¹ Human Health Medium-Specific Screening levels established for residential soils by USEPA Region 6.

² Value for methyl mercury shown.

Results are expressed in units of milligrams per kilogram (mg/kg).

Shaded values represent metals concentrations that exceed the EPA Soil Screening Levels.

U = Constituent concentration not detected above the practical quantitation limit shown.

Table 2
Fort Bliss - Organ Mountain Site
Soil Characterization Sampling - Organic Compound Summary of Detections

Analyte	EPA Region 6 Residential Soil Screening Levels ¹ (mg/kg)	Sample ID Collect Date QC Type Depth (ft)	OM-1 7/24/00 Normal 0 - 0.5'	OM-2 7/24/00 Normal 0 - 0.5'	OM-3 7/24/00 Normal 0 - 0.5'	OM-4 7/24/00 Normal 0 - 0.5'	OM-5 7/24/00 Normal 0 - 0.5'
Volatile Organic Compounds (mg/kg)							
Acetone	1,400		0.006 U	0.034	NS	0.006 U	0.005 U
Chloroform	0.24		0.006 U	0.005 U	NS	0.001 J	0.005 U
Methylene Chloride	8.5		0.006 U	0.006	NS	0.006 U	0.005 U
Toluene	520		0.006 U	0.002 J	NS	0.002 JB	0.001 JB
Semivolatile Organic Compounds (mg/kg)							
Naphthalene ²	55		0.38 U	0.38 U	NS	NS	0.38 U
Pesticide/PCBs (mg/kg)							
4,4' - DDE ³	1.7		0.019 U	0.002 U	NS	NS	0.002 U
Arochlor-1260 ⁴	0.97		0.01 U	0.009 U	NS	NS	0.16
Total Petroleum Hydrocarbons (mg/kg)							
Diesel range organics	NA		6.6 JY	6.4 U	NS	20 Y	25 Y

Notes:

- ¹ Human Health Medium-Specific Screening levels established for residential soils by USEPA Region 6.
 - ² Semi-volatile organic compounds were not reported in any of the samples, and naphthalene has been shown to represent the analytical group.
 - ³ Pesticides were not reported in any of the samples and DDE has been shown to represent the analytical group.
 - ⁴ Value based on Arochlor-1254.
- NA = No comparative value has been established by USEPA Region 6 for total petroleum hydrocarbons.
NS = Not sampled for this parameter.
U = Constituent concentration not detected above the practical quantitation limit shown.
J = Constituent concentration is estimated below the laboratory practical quantitation limit.
B = Constituent also reported in the associated blank sample.
Y = The chromatographic response resembles a typical fuel pattern.

ATTACHMENT A

PHOTOGRAPHS OF ORGAN MOUNTAIN STATION



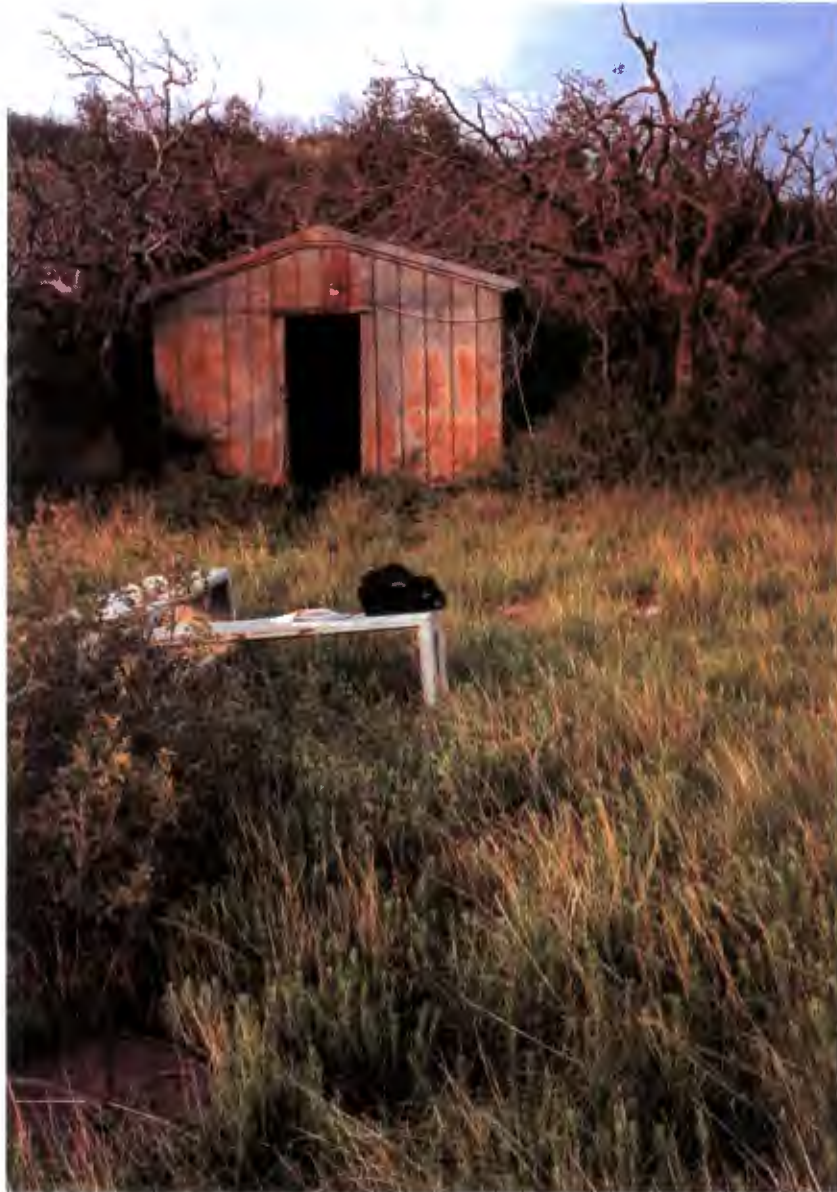
Overview of Organ Mountain Meteorological Station



Fuel Storage Tank in Background, Apparent Burn Area in Foreground



Battery Box Near the Wind Vane



Storage Shack and empty storage racks.

ATTACHMENT B

ANALYTICAL LABORATORY REPORTS

To: RFW-Ft. Bliss
Roy F. Weston
5599 San Felipe, Suite 700
Houston, TX 77056

Date: Friday August 11th, 2000

Attn: Mr. Greg Braddy

RE: OM-1
Project # 03386-146-001-0700
Lab ID: 9A07G233-001
Sample Date: 07/24/00
Date Received: 07/25/00

Metals Data Report

Parameters	Result	Units	Reporting Limit
% Solids	87.7	%	0.10
Silver, Total	0.07	u mg/kg	0.07
Arsenic, Total	7.6	mg/kg	0.12
Barium, Total	76.2	mg/kg	0.01
Cadmium, Total	2.6	mg/kg	0.02
Chromium, Total	27.3	mg/kg	0.05
Copper, Total	20.5	mg/kg	0.06
Mercury, Total	0.02	u mg/kg	0.02
Lead, Total	39.2	mg/kg	0.07
Antimony, Total	0.49	mg/kg	0.15
Selenium, Total	0.20	mg/kg	0.17
Zinc, Total	60.9	mg/kg	0.04

To: RFW-Ft. Bliss
Roy F. Weston
5599 San Felipe, Suite 700
Houston, TX 77056

Date: Friday August 11th, 2000

Attn: Mr. Greg Braddy

RE: OM-2
Project # 03386-146-001-0700
Lab ID: 9A07G233-002
Sample Date: 07/24/00
Date Received: 07/25/00

Metals Data Report

Parameters	Result	Units	Reporting Limit
% Solids	97.8	%	0.10
Silver, Total	0.06	u mg/kg	0.06
Arsenic, Total	3.4	mg/kg	0.12
Barium, Total	64.7	mg/kg	0.01
Cadmium, Total	0.45	mg/kg	0.02
Chromium, Total	10.7	mg/kg	0.05
Copper, Total	54.2	mg/kg	0.05
Mercury, Total	0.02	u mg/kg	0.02
Lead, Total	28.7	mg/kg	0.07
Antimony, Total	0.43	mg/kg	0.14
Selenium, Total	0.16	u mg/kg	0.16
Zinc, Total	670	mg/kg	0.17

To: RFW-Ft. Bliss
Roy F. Weston
5599 San Felipe, Suite 700
Houston, TX 77056

Date: Friday August 11th, 2000

Attn: Mr. Greg Braddy

RE: OM-3
Project # 03386-146-001-0700
Lab ID: 9A07G233-003
Sample Date: 07/24/00
Date Received: 07/25/00

Metals Data Report

Parameters	Result	Units	Reporting Limit
% Solids	88.5	%	0.10
Silver, Total	0.07	u mg/kg	0.07
Arsenic, Total	7.1	mg/kg	0.13
Barium, Total	70.8	mg/kg	0.01
Cadmium, Total	0.42	mg/kg	0.03
Chromium, Total	22.4	mg/kg	0.05
Copper, Total	21.6	mg/kg	0.06
Mercury, Total	0.03	mg/kg	0.02
Lead, Total	23.3	mg/kg	0.08
Antimony, Total	0.31	mg/kg	0.16
Selenium, Total	0.24	mg/kg	0.18
Zinc, Total	60.7	mg/kg	0.04

To: RFW-Ft. Bliss
Roy F. Weston
5599 San Felipe, Suite 700
Houston, TX 77056

Attn: Mr. Greg Braddy

Date: Friday August 11th, 2000

RE: OM-4
Project # 03386-146-001-0700
Lab ID: 9A07G233-004
Sample Date: 07/24/00
Date Received: 07/25/00

Metals Data Report

Parameters	Result	Units	Reporting Limit
% Solids	88.5	%	0.10

To: RFW-Ft. Bliss
Roy F. Weston
5599 San Felipe, Suite 700
Houston, TX 77056

Date: Friday August 11th, 2000

Attn: Mr. Greg Braddy

RE: OM-5
Project # 03386-146-001-0700
Lab ID: 9A07G233-005
Sample Date: 07/24/00
Date Received: 07/25/00

Metals Data Report

Parameters	Result	Units	Reporting Limit
% Solids	91.3	%	0.10
Silver, Total	0.07	u mg/kg	0.07
Arsenic, Total	7.4	mg/kg	0.12
Barium, Total	57.8	mg/kg	0.01
Cadmium, Total	1.4	mg/kg	0.02
Chromium, Total	18.2	mg/kg	0.05
Copper, Total	25.8	mg/kg	0.05
Mercury, Total	0.02	mg/kg	0.02
Lead, Total	1710	mg/kg	0.07
Antimony, Total	2.0	mg/kg	0.15
Selenium, Total	0.16	u mg/kg	0.16
Zinc, Total	539	mg/kg	0.18

STL Chicago
METHOD 8260 VOLATILES

Report Date: 08/08/00 14:04

RFW Batch Number: 9A07G233

Client: RFW-Ft. Bliss

Work Order: 03386-146-001-0

Page: 2a

Sample Information	Cust ID: VBLKST	VBLKST BS	VBLKRR	VBLKRR BS	VBLKRL	VBLKRL BS
	RFW#: 80GVG144-MB1	80GVG144-MB1	80GVG140-MB1	80GVG140-MB1	80GVG141-MB1	80GVG141-MB1
	Matrix: SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.: 1	1	1	1	1	1
	Units: UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Surrogate	1,2-Dichloroethane-d4	106 %	109 %	111 %	108 %	108 %
Recovery	Toluene-d8	101 %	102 %	104 %	102 %	94 %
	4-Bromofluorobenzene	102 %	105 %	108 %	102 %	97 %
	Dibromofluoromethane	106 %	109 %	109 %	107 %	104 %
=====f =====f =====f =====f =====f =====f						
	Dichlorodifluoromethane	5 U	104 %	5 U	46 %	5 U
	Chloromethane	5 U	104 %	5 U	64 %	5 U
	Vinyl chloride	5 U	122 %	5 U	76 %	5 U
	Bromomethane	5 U	134 %	5 U	81 %	5 U
	Chloroethane	5 U	125 %	5 U	81 %	5 U
	Trichlorofluoromethane	5 U	122 %	5 U	82 %	5 U
	1,1-Dichloroethene	5 U	95 %	5 U	100 %	5 U
	Acetone	5 U	127 %	5 U	120 %	5 U
	Carbon Disulfide	5 U	92 %	5 U	105 %	5 U
	Methylene Chloride	5 U	96 %	5 U	94 %	5 U
	Methyl-tert-butyl ether	5 U	121 %	5 U	120 %	5 U
	trans-1,2-Dichloroethene	5 U	102 %	5 U	102 %	5 U
	1,1-Dichloroethane	5 U	108 %	5 U	106 %	5 U
	cis-1,2-Dichloroethene	5 U	113 %	5 U	110 %	5 U
	2,2-Dichloropropane	5 U	115 %	5 U	108 %	5 U
	2-Butanone	5 U	122 %	5 U	104 %	5 U
	Bromochloromethane	5 U	104 %	5 U	101 %	5 U
	Chloroform	5 U	116 %	5 U	111 %	5 U
	1,1,1-Trichloroethane	5 U	110 %	5 U	106 %	5 U
	1,1-Dichloropropene	5 U	125 %	5 U	123 %	5 U
	Carbon Tetrachloride	5 U	99 %	5 U	100 %	5 U
	Benzene	5 U	103 %	5 U	102 %	5 U
	1,2-Dichloroethane	5 U	111 %	5 U	108 %	5 U
	Trichloroethene	5 U	100 %	5 U	101 %	5 U
	1,2-Dichloropropane	5 U	113 %	5 U	110 %	5 U

*= Outside of EPA CLP QC limits.

Cust ID: VBLKST VBLKST BS VBLKRR VBLKRR BS VBLKRL VBLKRL BS

RFW#: 80GVG144-MB1 80GVG144-MB1 80GVG140-MB1 80GVG140-MB1 80GVG141-MB1 80GVG141-MB1

Dibromomethane	5	U	109	%	5	U	108	%	5	U	114	%
Bromodichloromethane	5	U	112	%	5	U	110	%	5	U	115	%
cis-1,3-Dichloropropene	5	U	111	%	5	U	108	%	5	U	110	%
4-Methyl-2-pentanone	5	U	119	%	5	U	107	%	5	U	119	%
Toluene	5	U	104	%	1	J	98	%	1	J	98	%
trans-1,3-Dichloropropene	5	U	117	%	5	U	111	%	5	U	116	%
1,1,2-Trichloroethane	5	U	112	%	5	U	107	%	5	U	113	%
1,3-Dichloropropane	5	U	111	%	5	U	106	%	5	U	119	%
Tetrachloroethene	5	U	97	%	5	U	97	%	5	U	99	%
2-Hexanone	5	U	129	%	5	U	112	%	5	U	131	%
Dibromochloromethane	5	U	104	%	5	U	103	%	5	U	114	%
1,2-Dibromoethane	5	U	107	%	5	U	106	%	5	U	113	%
Chlorobenzene	5	U	105	%	5	U	102	%	5	U	104	%
1,1,1,2-Tetrachloroethane	5	U	103	%	5	U	103	%	5	U	112	%
Ethylbenzene	5	U	105	%	5	U	100	%	5	U	98	%
m/p-Xylene	5	U	108	%	5	U	103	%	5	U	100	%
o-Xylene	5	U	108	%	5	U	104	%	5	U	103	%
Styrene	5	U	108	%	5	U	104	%	5	U	103	%
Bromoform	5	U	102	%	5	U	102	%	5	U	114	%
Isopropylbenzene	5	U	101	%	5	U	99	%	5	U	101	%
1,1,2,2-Tetrachloroethane	5	U	109	%	5	U	105	%	5	U	127	%
Bromobenzene	5	U	102	%	5	U	103	%	5	U	110	%
1,2,3-Trichloropropane	5	U	111	%	5	U	106	%	5	U	131	%
n-Propylbenzene	5	U	107	%	5	U	102	%	5	U	99	%
2-Chlorotoluene	5	U	106	%	5	U	102	%	5	U	102	%
1,3,5-Trimethylbenzene	5	U	105	%	5	U	102	%	5	U	102	%
4-Chlorotoluene	5	U	108	%	5	U	103	%	5	U	103	%
tert-Butylbenzene	5	U	102	%	5	U	100	%	5	U	100	%
1,2,4-Trimethylbenzene	5	U	106	%	5	U	103	%	5	U	102	%
sec-Butylbenzene	5	U	101	%	5	U	98	%	5	U	92	%
1,3-Dichlorobenzene	5	U	102	%	5	U	100	%	5	U	101	%
p-Isopropyltoluene	5	U	103	%	5	U	99	%	5	U	92	%
1,4-Dichlorobenzene	5	U	102	%	5	U	98	%	5	U	100	%
n-Butylbenzene	5	U	110	%	5	U	102	%	5	U	90	%
1,2-Dichlorobenzene	5	U	103	%	5	U	101	%	5	U	107	%
1,2-Dibromo-3-chloropropane	5	U	106	%	5	U	102	%	5	U	131	%

*= Outside of EPA CLP QC Limits.

Cust ID: VBLKST VBLKST BS VBLKRR VBLKRR BS VBLKRL VBLKRL BS

RFW#: 80GVG144-MB1 80GVG144-MB1 80GVG140-MB1 80GVG140-MB1 80GVG141-MB1 80GVG141-MB1

	5	U	106	%	5	U	99	%	5	U	102	%
1,2,4-Trichlorobenzene	5	U	106	%	5	U	99	%	5	U	102	%
Hexachlorobutadiene	5	U	96	%	5	U	93	%	5	U	81	%
Naphthalene	5	U	115	%	5	U	96	%	5	U	124	%
1,2,3-Trichlorobenzene	5	U	106	%	5	U	96	%	5	U	108	%

*= Outside of EPA CLP QC Limits.

STL Chicago

SEMIVOLATILES BY GC/MS, HSL LIST

Report Date: 08/08/00 12:10

RFW Batch Number: 9A07G233

Client: RFW-Ft. Bliss

Work Order: 03386-146-001-0

Page: 1a

Sample Information	Cust ID:	OM-1	OM-2	OM-5	OM-5	OM-5	SBLKWG
	RFW#:	001	002	005	005 MS	005 MSD	9AGB0346-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1	1	1	1	1	1
	Units:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Surrogate Recovery	2-Fluorophenol	63 %	71 %	76 %	88 %	83 %	71 %
	Phenol-d5	57 %	79 %	85 %	98 %	93 %	89 %
	Nitrobenzene-d5	81 %	79 %	81 %	92 %	86 %	80 %
	2-Fluorobiphenyl	92 %	84 %	91 %	94 %	90 %	83 %
	2,4,6-Tribromophenol	100 %	99 %	102 %	109 %	106 %	95 %
	p-Terphenyl-d14	81 %	85 %	85 %	96 %	96 %	81 %
=====f]=====f]=====f]=====f]=====f]=====f]							
	Phenol	380 U	340 U	360 U	90 %	90 %	330 U
	bis(2-Chloroethyl)ether	380 U	340 U	360 U	77 %	81 %	330 U
	2-Chlorophenol	380 U	340 U	360 U	85 %	83 %	330 U
	1,3-Dichlorobenzene	380 U	340 U	360 U	63 %	67 %	330 U
	1,4-Dichlorobenzene	380 U	340 U	360 U	61 %	69 %	330 U
	1,2-Dichlorobenzene	380 U	340 U	360 U	64 %	69 %	330 U
	2-Methylphenol	380 U	340 U	360 U	91 %	90 %	330 U
	2,2'-oxybis(1-Chloropropane)	380 U	340 U	360 U	85 %	88 %	330 U
	N-Nitroso-di-n-propylamine	380 U	340 U	360 U	98 %	98 %	330 U
	4-Methylphenol	380 U	340 U	360 U	106 %	106 %	330 U
	Hexachloroethane	380 U	340 U	360 U	52 *	55 %	330 U
	Nitrobenzene	380 U	340 U	360 U	86 %	84 %	330 U
	Isophorone	380 U	340 U	360 U	89 %	85 %	330 U
	2-Nitrophenol	380 U	340 U	360 U	87 %	84 %	330 U
	2,4-Dimethylphenol	380 U	340 U	360 U	93 %	90 %	330 U
	bis(2-Chloroethoxy)methane	380 U	340 U	360 U	90 %	83 %	330 U
	2,4-Dichlorophenol	380 U	340 U	360 U	94 %	92 %	330 U
	1,2,4-Trichlorobenzene	380 U	340 U	360 U	80 %	79 %	330 U
	Naphthalene	380 U	340 U	360 U	72 %	72 %	330 U
	4-Chloroaniline	380 U	340 U	360 U	34 %	36 %	330 U
	Hexachlorobutadiene	380 U	340 U	360 U	78 %	77 %	330 U
	4-Chloro-3-methylphenol	380 U	340 U	360 U	96 %	96 %	330 U
	2-Methylnaphthalene	380 U	340 U	360 U	93 %	91 %	330 U

*= Outside of EPA CLP QC Limits.

Cust ID:	OM-1	OM-2	OM-5	OM-5	OM-5	SBLKWG
RFW#:	001	002	005	005 MS	005 MSD	9AGB0346-MB1
Hexachlorocyclopentadiene	380 U	340 U	360 U	57 %	49 %	330 U
2,4,6-Trichlorophenol	380 U	340 U	360 U	82 %	79 %	330 U
2,4,5-Trichlorophenol	1900 U	1700 U	1800 U	95 %	102 %	1700 U
2-Chloronaphthalene	380 U	340 U	360 U	83 %	84 %	330 U
2-Nitroaniline	1900 U	1700 U	1800 U	88 %	88 %	1700 U
Acenaphthylene	380 U	340 U	360 U	78 %	80 %	330 U
2,6-Dinitrotoluene	380 U	340 U	360 U	90 %	92 %	330 U
3-Nitroaniline	1900 U	1700 U	1800 U	59 %	66 %	1700 U
Acenaphthene	380 U	340 U	360 U	79 %	80 %	330 U
2,4-Dinitrophenol	1900 U	1700 U	1800 U	73 %	66 %	1700 U
Dibenzofuran	380 U	340 U	360 U	83 %	83 %	330 U
4-Nitrophenol	1900 U	1700 U	1800 U	96 %	86 %	1700 U
2,4-Dinitrotoluene	380 U	340 U	360 U	96 %	98 %	330 U
Fluorene	380 U	340 U	360 U	76 %	78 %	330 U
Dimethylphthalate	380 U	340 U	360 U	90 %	92 %	330 U
Diethylphthalate	380 U	340 U	360 U	85 %	86 %	330 U
4-Chlorophenyl-phenylether	380 U	340 U	360 U	74 %	76 %	330 U
4-Nitroaniline	1900 U	1700 U	1800 U	66 %	65 %	1700 U
4,6-Dinitro-2-methylphenol	1900 U	1700 U	1800 U	82 %	78 %	1700 U
4-Bromophenyl-phenylether	380 U	340 U	360 U	90 %	93 %	330 U
Hexachlorobenzene	380 U	340 U	360 U	89 %	90 %	330 U
Pentachlorophenol	1900 U	1700 U	1800 U	90 %	85 %	1700 U
Phenanthrene	380 U	340 U	360 U	84 %	86 %	330 U
Anthracene	380 U	340 U	360 U	80 %	81 %	330 U
Di-n-butylphthalate	380 U	340 U	360 U	82 %	84 %	330 U
Fluoranthene	380 U	340 U	360 U	98 %	90 %	330 U
Pyrene	380 U	340 U	360 U	79 %	80 %	330 U
Butylbenzylphthalate	380 U	340 U	360 U	83 %	85 %	330 U
Benzo(a)anthracene	380 U	340 U	360 U	88 %	90 %	330 U
3,3'-Dichlorobenzidine	760 U	680 U	730 U	20 %	29 %	670 U
Chrysene	43 J	340 U	360 U	78 %	78 %	330 U
bis(2-Ethylhexyl)phthalate	380 U	340 U	360 U	79 %	84 %	330 U
Di-n-octylphthalate	380 U	340 U	360 U	78 %	83 %	330 U
Benzo(b)fluoranthene	380 U	340 U	360 U	96 %	92 %	330 U
Benzo(k)fluoranthene	380 U	340 U	360 U	66 *	75 %	330 U
Benzo(a)pyrene	380 U	340 U	360 U	83 %	84 %	330 U

*= Outside of EPA CLP QC Limits.

RFW Batch Number: 9A07G233

Client: RFW-Ft. Bliss

Work Order: 03386-146-001-0

Page: 1c

	Cust ID:	OM-1	OM-2	OM-5	OM-5	OM-5	SBLKWG
	RFW#:	001	002	005	005 MS	005 MSD	9AGB0346-MB1
Indeno(1,2,3-cd)pyrene		380 U	340 U	360 U	80 %	79 %	330 U
Dibenzo(a,h)anthracene		380 U	340 U	360 U	71 %	72 %	330 U
Benzo(g,h,i)perylene		380 U	340 U	360 U	75 %	75 %	330 U
Carbazole		380 U	340 U	360 U	117 * %	112 * %	330 U
N-Nitrosodiphenylamine (1)		380 U	340 U	360 U	84 %	90 %	330 U
Benzyl alcohol		380 U	340 U	360 U	108 %	107 %	330 U
Benzoic acid		1900 U	1700 U	1800 U	69 %	60 %	1700 U
Benzidine		3800 U	3400 U	3600 U	0 * U	0 * U	3300 U

CS 8/18/00

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

STL Chicago

SEMIVOLATILES BY GC/MS, HSL LIST

Report Date: 08/08/00 12:10

RFW Batch Number: 9A07G233

Client: RFW-Ft. Bliss

Work Order: 03386-146-001-0

Page: 2a

Cust ID: SBLKWG BS

Sample Information RFW#: 9AGB0346-MB1
 Matrix: SOIL
 D.F.: 1
 Units: UG/KG

Surrogate Recovery	2-Fluorophenol	77	%
	Phenol-d5	86	%
	Nitrobenzene-d5	79	%
	2-Fluorobiphenyl	84	%
	2,4,6-Tribromophenol	105	%
	p-Terphenyl-d14	91	%
=====f]=====f]=====f]=====f]=====f]=====f]			
	Phenol	84	%
	bis(2-Chloroethyl)ether	77	%
	2-Chlorophenol	75	%
	1,3-Dichlorobenzene	64	%
	1,4-Dichlorobenzene	62	%
	1,2-Dichlorobenzene	67	%
	2-Methylphenol	86	%
	2,2'-oxybis(1-Chloropropane)	81	%
	N-Nitroso-di-n-propylamine	96	%
	4-Methylphenol	97	%
	Hexachloroethane	61	%
	Nitrobenzene	73	%
	Isophorone	82	%
	2-Nitrophenol	72	%
	2,4-Dimethylphenol	79	%
	bis(2-Chloroethoxy)methane	78	%
	2,4-Dichlorophenol	77	%
	1,2,4-Trichlorobenzene	73	%
	Naphthalene	68	%
	4-Chloroaniline	48	%
	Hexachlorobutadiene	73	%
	4-Chloro-3-methylphenol	84	%
	2-Methylnaphthalene	75	%

*= Outside of EPA CLP QC Limits.

Cust ID: SBLKWG BS

RFW#: 9AGB0346-MB1

Hexachlorocyclopentadiene	53	%
2,4,6-Trichlorophenol	72	%
2,4,5-Trichlorophenol	90	%
2-Chloronaphthalene	72	%
2-Nitroaniline	79	%
Acenaphthylene	76	%
2,6-Dinitrotoluene	88	%
3-Nitroaniline	68	%
Acenaphthene	75	%
2,4-Dinitrophenol	91	%
Dibenzofuran	75	%
4-Nitrophenol	93	%
2,4-Dinitrotoluene	96	%
Fluorene	78	%
Dimethylphthalate	85	%
Diethylphthalate	87	%
4-Chlorophenyl-phenylether	74	%
4-Nitroaniline	82	%
4,6-Dinitro-2-methylphenol	89	%
4-Bromophenyl-phenylether	79	%
Hexachlorobenzene	81	%
Pentachlorophenol	87	%
Phenanthrene	78	%
Anthracene	76	%
Di-n-butylphthalate	80	%
Fluoranthene	95	%
Pyrene	75	%
Butylbenzylphthalate	84	%
Benzo(a)anthracene	80	%
3,3'-Dichlorobenzidine	54	%
Chrysene	75	%
bis(2-Ethylhexyl)phthalate	80	%
Di-n-octylphthalate	97	%
Benzo(b)fluoranthene	91	%
Benzo(k)fluoranthene	78	%
Benzo(a)pyrene	83	%

*= Outside of EPA CLP QC Limits.

Cust ID: SBLKWG BS

RFW#: 9AGB0346-MB1

Indeno(1,2,3-cd)pyrene	68	%
Dibenzo(a,h)anthracene	63	%
Benzo(g,h,i)perylene	61	%
Carbazole	96	%
N-Nitrosodiphenylamine (1)	78	%
Benzyl alcohol	90	%
Benzoic acid	82	%
Benzidine	0	%

MSD 9/8/00

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

STL Chicago
PCBs by GC

Report Date: 08/03/00 14:07

RFW Batch Number: 9A07G233

Client: RFW-Ft. Bliss

Work Order: 03386-146-001-0

Page: 1

Sample Information	Cust ID:	OM-1	OM-1	OM-1	OM-2	OM-5	PBLKJB
	RFW#:	001	001 MS	001 MSD	002	005	9AGP637A-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	0.50	0.50	0.50	0.50	0.50	0.50
	Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Surrogate:	Tetrachloro-m-xylene	100 %	90 %	95 %	95 %	88 %	95 %
	Decachlorobiphenyl	32 %	25 %	30 %	92 %	85 %	98 %
Aroclor-1016		9.5 U	83 %	88 %	8.5 U	9.1 U	8.3 U
Aroclor-1221		9.5 U	9.4 U	9.5 U	8.5 U	9.1 U	8.3 U
Aroclor-1232		9.5 U	9.4 U	9.5 U	8.5 U	9.1 U	8.3 U
Aroclor-1242		9.5 U	9.4 U	9.5 U	8.5 U	9.1 U	8.3 U
Aroclor-1248		9.5 U	9.4 U	9.5 U	8.5 U	9.1 U	8.3 U
Aroclor-1254		9.5 U	9.4 U	9.5 U	8.5 U	160	8.3 U
Aroclor-1260		9.5 U	42 * %	47 * %	8.5 U	9.1 U	8.3 U

Cust ID: PBLKJC BS

Sample Information	RFW#:	9AGP637A-MB2
	Matrix:	SOIL
	D.F.:	0.50
	Units:	ug/Kg

Surrogate:	Tetrachloro-m-xylene	80 %
	Decachlorobiphenyl	100 %
Aroclor-1016		89 %
Aroclor-1221		8.3 U
Aroclor-1232		8.3 U
Aroclor-1242		8.3 U
Aroclor-1248		8.3 U
Aroclor-1254		8.3 U
Aroclor-1260		92 %

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

STL Chicago
DIESEL RANGE ORGANICS

Report Date: 08/03/00 10:49

RFW Batch Number: 9A07G233

Client: RFW-Ft. Bliss

Work Order: 03386-146-001-0

Page: 1

15

	Cust ID:	OM-1	OM-2	OM-4	OM-4	OM-4	OM-5
Sample Information	RFW#:	001	002	004	004 MS	004 MSD	005
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	0.25	0.25	0.25	0.25	0.25	0.25
	Units:	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
Surrogate:	2-Fluorobiphenyl	60 %	65 %	67 %	85 %	89 %	66 %
	o-Terphenyl	61 %	82 %	77 %	81 %	86 %	75 %
=====f]=====f]=====f]=====f]=====f]=====f]							
Diesel Range Organics		6.6 JY	6.4 U	20 Y	87 %	86 %	25 Y

	Cust ID:	PBLKJD	PBLKJD BS	PBLKJF	PBLKJF BS
Sample Information	RFW#:	9AGP0635-MB1	9AGP0635-MB1	9AGP0646-MB1	9AGP0646-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL
	D.F.:	0.25	0.25	0.25	0.25
	Units:	MG/KG	MG/KG	MG/KG	MG/KG
Surrogate:	2-Fluorobiphenyl	66 %	88 %	64 %	81 %
	o-Terphenyl	86 %	93 %	82 %	82 %
=====f]=====f]=====f]=====f]=====f]=====f]					
Diesel Range Organics		6.2 U	92 %	6.2 U	84 %

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

STL Chicago

PESTICIDE/PCBs BY GC, CLP LIST

Report Date: 08/01/00 13:22

RFW Batch Number: 9A07G233

Client: RFW-Ft. Bliss

Work Order: 03386-146-001-0

Page: 1

17

Sample Information	Cust ID:	OM-1	OM-1	OM-1	OM-2	OM-5	PBLKJA
	RFW#:	001	001 MS	001 MSD	002	005	9AGP0637-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	5.0	5.0	5.0	0.50	0.50	0.50
	Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Surrogate: Tetrachloro-m-xylene		100 %	98 %	92 %	88 %	72 %	90 %
Decachlorobiphenyl		80 %	70 %	70 %	82 %	78 %	95 %
-----f]-----f]-----f]-----f]-----f]-----f]							
alpha-BHC		9.5 U	78 %	72 %	0.85 U	0.91 U	0.83 U
beta-BHC		9.5 U	70 %	70 %	0.85 U	0.91 U	0.83 U
delta-BHC		9.5 U	65 %	65 %	0.85 U	0.91 U	0.83 U
gamma-BHC (Lindane)		9.5 U	82 %	80 %	0.85 U	0.91 U	0.83 U
Heptachlor		9.5 U	88 %	85 %	0.85 U	0.91 U	0.83 U
Aldrin		9.5 U	78 %	75 %	0.85 U	0.91 U	0.83 U
Heptachlor epoxide		9.5 U	82 %	78 %	0.85 U	0.91 U	0.83 U
Endosulfan I		9.5 U	80 %	75 %	0.85 U	0.91 U	0.83 U
Dieldrin		19 U	80 %	78 %	1.7 U	1.8 U	1.7 U
4,4'-DDE		19 U	70 %	68 %	1.7 U	1.8 U	1.7 U
Endrin		19 U	70 %	68 %	1.7 U	1.8 U	1.7 U
Endosulfan II		19 U	72 %	70 %	1.7 U	1.8 U	1.7 U
4,4'-DDD		19 U	75 %	72 %	1.7 U	1.8 U	1.7 U
Endosulfan sulfate		19 U	78 %	78 %	1.7 U	1.8 U	1.7 U
4,4'-DDT		19 U	75 %	75 %	1.7 U	1.8 U	1.7 U
Methoxychlor		95 U	78 %	102 %	8.5 U	9.1 U	8.3 U
Endrin ketone		19 U	98 %	98 %	1.7 U	1.8 U	1.7 U
Endrin aldehyde		19 U	108 %	100 %	1.7 U	1.8 U	1.7 U
alpha-Chlordane		9.5 U	78 %	75 %	0.85 U	0.91 U	0.83 U
gamma-Chlordane		9.5 U	75 %	75 %	0.85 U	0.91 U	0.83 U
Toxaphene		190 U	190 U	190 U	17 U	18 U	17 U

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

Cust ID: PBLKJA BS

Sample Information RFW#: 9AGP0637-MB1
 Matrix: SOIL
 D.F.: 0.50
 Units: ug/Kg

Surrogate: Tetrachloro-m-xylene	78	%
Decachlorobiphenyl	90	%
=====	f]	=====f]=====f]=====f]=====f]
alpha-BHC	95	%
beta-BHC	82	%
delta-BHC	92	%
gamma-BHC (Lindane)	92	%
Heptachlor	90	%
Aldrin	88	%
Heptachlor epoxide	82	%
Endosulfan I	85	%
Dieldrin	98	%
4,4'-DDE	90	%
Endrin	85	%
Endosulfan II	82	%
4,4'-DDD	95	%
Endosulfan sulfate	85	%
4,4'-DDT	95	%
Methoxychlor	98	%
Endrin ketone	98	%
Endrin aldehyde	128	%
alpha-Chlordane	88	%
gamma-Chlordane	90	%
Toxaphene	17	U

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC