



**ANDERSEN AFB
GUAM**

**ADMINISTRATIVE RECORD
COVER SHEET**

AR File Number

2

STATEMENT OF WORK
FOR
PHASE I RECORDS SEARCH
INSTALLATION RESTORATION PROGRAM

THIS SOW PROVIDES FOR TWO IRP REPORTS:
ANDERSEN AFB, GUAM, AND VANDENBERG AFB CA.
ALL PROVISIONS IN THIS SOW RELATE
TO BOTH IRP REPORTS.

1.0 BACKGROUND

1.1 A requirement exists to assess the environmental quality of Air Force installations with regard to the past use, storage, treatment, and disposal of toxic and hazardous materials and to define any conditions that may adversely affect health or result in environmental degradation.

1.2 The extent of probable contamination at Air Force installations is determined by a detailed analysis of records, including a history of operations, the geological and hydrological conditions which may contribute to migration of pollutants, and a search of environmental files for evidence of environmental contamination. This is Phase I of the Installation Restoration Program. The Phase I report will be developed from existing records and interviews with knowledgeable people. No new sampling will be conducted during Phase I.

1.3 If migration of pollutants is indicated, a field survey of the installation, consisting of soil and water sampling to confirm the presence of specific migrating pollutants, will be performed. This survey is Phase II of the Installation Restoration Program and is not a part of this contract.

2.0 OBJECTIVE

2.1 The objective of this investigation is to identify the potential for environmental contamination from past waste disposal practices at Andersen AFB, Guam, and Vandenberg AFB CA, to evaluate the probability of contamination migration and assess the hazard potential from these activities.

2.2 This contract will provide the data necessary to determine whether or not a follow-on field survey is required

2.3 The recommendations of the final records search report shall be in sufficient detail to determine scope of Phase II effort.

3.0 SCOPE

3.1 The provisions (except as noted) of this SOW relate to separate efforts at both Andersen AFB, Guam, and Vandenberg AFB CA. All reports, meetings, etc. shall be developed and conducted independently for each installation.

3.2 The contractor shall provide the necessary personnel, facilities, and material required to conduct an installation records search in accordance with the provisions of this contract.

3.3 All technical consultants required for this investigation will be provided by the contractor and they will be qualified to provide expert witness testimony if required. Expert witness testimony is not a part of this contract.

3.4 This investigation encompasses the securing and reviewing of existing geological, hydrological, ecological, environmental, and general data relative to Andersen AFB, Guam, and Vandenberg AFB CA. The data, along with information collected from interviews, will be evaluated by the contractor and a report of this investigation will identify and assess the potential for contamination migration from all identified disposal practices at Andersen AFB, Guam, and Vandenberg AFB CA. Each site with a potential for contaminant migration will be evaluated using the latest AF Hazard Assessment Rating Methodology (HARM).

4.0 TECHNICAL REQUIREMENTS

4.1 An installation investigation will, as a minimum, consist of:

4.1.1 Contact with Federal, state, and local offices maintaining hydrogeological, ecological, and general environmental data to obtain copies of documentation relating to Andersen AFB, Guam, and Vandenberg AFB CA.

4.1.2 An on-site visit to include a search of installation records and interviews with present and former employees who may have knowledge of operations or conditions that may contribute to the objective of this records search. During the on-site visit, a ground tour will be conducted to visually assess the condition of potential environmental contamination sites. The installation records search will require

five working days on-site. An Air Force representative shall conduct a briefing to acquaint the Commander and staff of Andersen AFB, Guam, and Vandenberg AFB CA with the purpose and scope of the Installation Restoration Program.

4.1.3 Photographic coverage, as required, to support report documentation. Camera passes will be requested through installation point of contact.

4.1.4 A helicopter flight to aid in identification and evaluation of potential contamination sites, with general photographic coverage to support documentation. (Helicopter will be government-furnished and requested through the established base level point of contact. Sufficient lead time should be allowed to permit complete coordination.) If this support cannot be provided, every effort should be made to acquire recent aerial photographs of the area from other sources. Contractor personnel shall sign standard release of liability forms, as required.

4.1.5 An out briefing of tentative findings, conclusions, and interim recommendations for correction of minor problems. This outbriefing will include sufficient detail to apprise the base commander of any detected problem areas.

4.2 To perform the on-site records search, the contractor shall assemble a core team consisting of personnel whose expertise encompasses the following areas:

Environmental Engineering

Hydrogeology

Chemical Engineering/Chemistry

Ecology

As a minimum, the team will consist of three professional members. It may be necessary to augment the core team with expertise in a special area, such as nuclear radiation, if the expertise is not included in the designated team membership. The designation of a team chief and need for augmentation shall be determined by the contractor.

4.3 A pre-performance meeting, to assure that all procedures and responsibilities are understood, will be held at Andersen AFB, Guam, and Vandenberg AFB CA. Significant milestones will be developed at this meeting. The minutes will include a time-phased schedule for completion of each installation investigation, a specific deliverables distribution

list, a list of records transferred and to be transferred to the contractor, meeting attendees and phone numbers, and any other pertinent information discussed at the meeting.

4.4 The contractor shall:

4.4.1 Perform a search of available literature from various government sources for the purpose of obtaining relevant information on Andersen AFB, Guam, and Vandenberg AFB CA. This will include, but not be limited to, a check and, if necessary, a review of records and photos at the Washington National Record Center, 4205 Suitland Road, Wash DC, and the Cartographic and Architectural Branch and the Modern Military Branch of the National Archives, 841 S. Pickett Street, Alexandria VA 22304.

4.4.2 Review and analyze information furnished as environmental documentation, such as:

- Copy of latest environmental support data from Tab A-1.

- Telephone directory, welcome and anniversary brochures, and installation histories.

- Latest organizational chart.

- Following maps:

— Overall map of installation.

— Suspected contaminated area map with narrative to identify types of suspected contaminants.

— Landfill/burial site location maps.

— Maps showing water lines, surface drainage, sewers, and underground process lines and storage tanks.

— Geological map (soils).

- Listing of present and former employees to be interviewed by the team. List should include employee's position title, years at installation, and general area of expertise.

- Standing Operating Procedures (SOP) for water treatment, sanitary landfills, demilitarization operations, ordnance disposal (burning, burial, etc.), and a listing of other pertinent SOPs available at installation.

- Installation reports on contamination, water quality, flora and fauna, pesticide/fertilizer usage, fish/wildlife kills, refuse collection and disposal, recycling, etc.

- Installation reports on contamination, water quality, hydrogeological conditions, safety, ecology, etc.

- Installation photographs including historical and current, both aerial and ground.

- Copies of leases covering present and former tenant operations.

- Other pertinent documents, if available, as follows:

- Supply hazardous materials inventory lists (IEX 8 & 9).

- POL tank inventory records (include AAFES gas stations).

- Records on hazardous substances from fire department and bioenvironmental engineer files.

- Drinking water well logs.

- Pesticide management plan and past pesticide usage from the base Entomology Department.

- Land management plan.

- Latest drinking water well analyses including primary drinking water standards and radiological analyses.

- Real estate ingrant/outgrant data.

- Computer printout, Real Property Inventory Detail List including building numbers, designations, and dates of construction.

- Hazardous Waste Part A and/or Part B permit applications, as well as, any state or local applications.

- Hazardous Waste Notification.

- Hazardous Waste Inventory.

- Superfund Notification.

-- Latest wastewater treatment plant effluent analyses including metals, if available.

-- Any pertinent OEHL reports containing water quality data.

-- Climatological data from Weather Wing.

-- Oil and Hazardous Substance Pollution Contingency Plan, and Spill Reports.

-- Soil borings master location plan.

- All case data available.

5.0 SPECIAL CONSIDERATIONS

5.1 All material gathered and/or developed in the performance of the tasks listed in the contract shall be the property of the US Air Force and shall not be used or distributed by the contractor without specific permission of the appropriate Air Force command. After completion of the project, all materials shall be returned to the installation point of contact.

5.2 Neither the contractor nor the contractor's personnel will give out any news releases or conduct media interviews concerning the work performed under this contract. All media inquiries should be directed to the US Air Force Public Affairs Office.

6.0 DELIVERABLES

6.1 The contractor shall attend a pre-performance meeting with Air Force representatives at Andersen AFB, Guam, and Vandenberg AFB CA at a mutually agreed upon time during the month of June 1984.

6.1.1 For the Andersen AFB, Guam, project, the on-site visit will be conducted immediately after the pre-performance meeting. The remainder of the time schedule is as stated.

6.2 Within ten working days after the pre-performance meeting, the contractor shall submit copies of the minutes of the pre-performance meeting to the distribution list agreed upon and recorded in the minutes of the meeting (SOW 4.3).

6.3 Within thirty working days after completion of the on-site visit (SOW 4.1.2), the contractor will submit a comprehensive edited report, in draft, of the installation records search, including history and mission, environmental setting, location of contaminated areas, and assessment of imminent health hazards and migration potential to addressees designated at the pre-performance meeting. Site rating will be in accordance with the latest Air Force Hazard Assessment Rating Methodology. Report recommendations will identify sites requiring further Phase II investigations and detail the monitoring and sampling strategies recommended.

6.3.1 The report shall have the following statement printed on the inside cover and on the reverse of the title sheet:

Notice

This report has been prepared for the US Air Force by _____ for the purpose of aiding in the implementation of Air Force Installation Restoration Program. It is not an endorsement of any product. The views expressed herein are those of the contractor and do not necessarily reflect the official views of the publishing agency, the United States Air Force or the Department of Defense.

Copies of the final report may be purchased from:

National Technical Information Service
5285 Port Royal Road
Springfield, Virginia 22161

Federal Government agencies and their contractors registered with Defense Technical Information Center should direct requests for copies of this report to:

Defense Technical Information Center
Cameron Station
Alexandria, Virginia 22314

6.3.2 All sheets and cover of draft report shall be overprinted with the word "DRAFT." Reports will use standard 8-1/2" x 11" paper with no foldouts.

6.3.3 The specific report format is contained in Appendix A.

6.3.4 The Findings section of the report will include an estimate of the quantity of hazardous waste deposited at all potential contamination sites which were evaluated using HARM.

6.3.5 The Conclusions section of the report will contain statements on imminent health hazards, potential migration via air, water, and direct contact, and the need for any immediate remedial actions.

6.3.6 The glossary will list all hazardous materials/wastes discussed in the report and identify why they are deemed hazardous or potentially hazardous.

6.3.7 Tabs with titles will be used for main sections.

6.3.8 The letter of transmittal will not be bound into the report.

6.3.9 The draft report will be copied on only one side. The final report will be copied on both sides, with new sections starting on the front of the sheets.

6.3.10 Black-and-white photographs taken from the helicopter flight will be reproduced in the report (not Xeroxed), and the disposal sites will be delineated in the photos. Color slides will also be obtained, and a copy will be provided to AFESC/DEVP.

6.4 The Air Force will review the draft report for technical adequacy, and review comments will be presented to the contractor at a review meeting to be held at contractor's office. At the review, the contractor will have personnel attending who have the same expertise as the on-site team and who are familiar with the report. The date for the technical review meeting will be determined at the pre-performance meeting.

6.5 The contractor will revise the draft report, incorporating all changes as a result of the review, prepare a final report, and submit 50 copies, including two unbound camera-ready copies, in accordance with the list of addressees determined at the pre-performance meeting.

6.6 The contractor will submit monthly progress reports to organizations identified on a distribution list to be determined at the pre-performance meeting. The progress reports will, at a minimum, address the present status of project, any projected slippage of deliverables, and any other potential problems.

7.0 NOTES

7.1 Air Force-owned sites not contiguous with Andersen AFB, Guam, are:

<u>Site</u>	<u>Activity</u>	<u>Size</u>	<u>Distance from Base</u>
Mt Santa Rosa	Water Pump Station	21 Acres	2 Miles SE
Barrigada	Receiver Site	427 Acres	13 Miles S
^ Andy I Fuel Tank Farm	Fuel Tank Farm	17 Acres 19	3 Miles S
Tumon Bay Tank Farm	Fuel Tank Farm	31 Acres	8 Miles SW
Tumon Maui Wells	Water Produc- tion Site	8 Acres	11 Miles SW
Andersen South	Base Annex	2,049 Acres	8 Miles S
Northwest Field	Runway and Other Minor Operations	4,347 Acres	1 Mile

These sites are to be included in this Phase I contract effort.

7.2 Air Force-owned sites not contiguous with Vandenberg AFB CA, are:

<u>Site</u>	<u>Activity</u>	<u>Size</u>	<u>Distance from Base</u>
Anderson Peak	Radar Optical Tracking Site	5 Acres	100 Miles
Pillar ^a Point	Radar Optical Tracking Site	50 Acres	260 Miles
San Ynez Tracking Site	Radar Optical Tracking Site	30 Acres	35 Miles
Black Mountain Tracking Site	Radar Optical Tracking Site	5 Acres	94 Miles

These sites are to be included in this Phase I contract effort.

B. Disposal Site(s) Identification, Evaluation, and Hazard Assessment

V. Conclusions (by site)

VI. Recommendations (by site)

APPENDICES (TYPICAL)

Biographical Data of Records Search Team

Outside Agency Contact List

Interviewee Position and Years Service List

Installation History, Organization, and Mission

Supplemental Environmental Setting Information/Data

Master List of Industrial Shops

Photographs

References

AF Hazard Assessment Rating Methodology

Site Rating Forms

Glossary

APPENDIX A
REPORT FORMAT
IRP PHASE I - RECORDS SEARCH

EXECUTIVE SUMMARY

- I. Introduction
 - A. Background
 - B. Authority
 - C. Purpose
 - D. Scope
 - E. Methodology Including Decision Tree
- II. Installation Description
 - A. Location, Size, Boundaries, etc.
 - B. Organization and Mission Summary
- III. Environmental Setting
 - A. Meteorology
 - B. Physical Geography
 - 1. Topography
 - 2. Drainage
 - 3. Soils
 - C. Hydrology
 - D. Water Quality
 - E. Water Use
 - F. Summary of Environmental Setting
- IV. Findings
 - A. Past Activity Review
 - 1. Wastes Generated by Activity
 - 2. Description of Disposal Methods

FINAL PAGE

ADMINISTRATIVE RECORD

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