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MINUTES AND AGENDA FROM 31 MARCH 1997 RESTORATION ADVISORY BOARD  
MEETING NAS KEY WEST FL  
3/31/1997  
NAVAL FACILITIES ENGINEERING COMMAND SOUTHERN DIVISION

**RESTORATION ADVISORY BOARD  
NAVAL AIR STATION KEY WEST**

**Meeting Location:**  
**Douglas Square Apartments Recreation Room**  
**801 Emma Street, Key West**

**Meeting Date/Time:**  
**March 31, 1997; 7:00 p.m.**

**Meeting Agenda:**

Welcome and Self-Introductions  
Public Comment Management for this Meeting  
Old Business  
- Ron Demes -  
Navy Co-Chair

Update of Keystone Report Action Items  
-Ron Demes -

Update of FY1998 Budget Process  
- Dudley Patrick -  
Southern Engineering Field Division

Update of ERNA Site Cleanups  
- Dudley Patrick -

Update of ERNA Site Studies  
- Chuck Bryan -  
Brown and Root Environmental

Update of BRAC Site Studies  
- Chuck Bryan -

**Potential Topics for Next Meeting (May 19, 1997)**

Update of ERNA Site Cleanups  
Update of ERNA Site Studies  
Update of BRAC Site Studies  
- Susan Loder and Ron Demes -

Adjournment and Invitation  
- Susan Loder -  
Community Co-Chair

Poster Session and Coffee

**NAVAL AIR STATION KEY WEST  
RESTORATION ADVISORY BOARD  
PUBLIC MEETING SUMMARY**

7:00 p.m.

March 31, 1997

Douglas Square Apartments Recreation Room  
801 Emma Street, Key West, Florida

**Restoration Advisory Board Members Present:**

Ron Demes, Navy Co-Chair  
Susan Loder, Community Co-Chair  
David Grabka, Florida Department of Environmental Protection (for Jorge Caspary)  
Dudley Patrick, Southern Division, Naval Facilities Engineering Command  
Robin Orlandi, Community Member  
Dent Pierce, Community Member  
Jim Smith, Community Member

**Other government or contractor personnel present:**

Paul Camire, Environmental Coordinator, NAS Key West Public Works Office  
Phillip Williams, NAS Key West Public Works Office  
Mark P. Ewing, NAS Key West Resident Officer in Charge  
LT. Jonathan Hupp, NAS Key West Public Affairs Officer  
W. H. Harrison, City of Key West, Local Redevelopment Authority  
Dick Geer, Bechtel Environmental, Inc.  
Chuck Bryan, Brown & Root Environmental

**Members of the public present (who signed the attendance sheet):**

Rev. Barbara Black, Plan 1999, Key West, Florida  
R. L. Blazevic, Key West, Florida  
Michael D. Ingram, Key West, Florida  
J. M. Beaver, Key West, Florida  
Corrine Crockett, Key West, Florida  
Pat Valerga, Florida Keys Outreach Coalition for the Homeless  
Eric Larsen, Key West Citizen

Welcome

Mr. Demes opened the meeting, welcomed the attendees and introduced Mr. Grabka, who was representing the Florida Department of Environmental Protection for this meeting.

### Public Comment Management for This Meeting

Mr. Demes stated that the public could make comments and ask questions at the conclusion of each presentation.

### Old Business

- Mr. Williams distributed the Navy's responses to Ms. Orlandi's comments on the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) and Remedial Investigation (RI) Report at Four High-Priority Sites on Boca Chica Key. Mr. Demes encouraged the RAB members to contact Mr. Williams if they had additional questions on the report or the Navy's responses to Ms. Orlandi's comments.

### Update of Keystone Report Action Items

Mr. Demes reported that NAS Key West personnel have solicited input from NAS Key West RAB members and the public for increasing community membership on the RAB. He thanked Ms. Orlandi for an article she published about investigation and cleanup activities at the air station. NAS Key West personnel will follow up on information obtained regarding potential new RAB members. Mr. Demes noted that Mr. Pierce will be leaving the RAB and that a replacement for his position is under consideration. Mr. Demes thanked Mr. Pierce for donating his time and talents to help start a successful RAB at NAS Key West.

### Update of Fiscal Year 1998 Budget Process

Mr. Patrick stated that he received input from NAS Key West personnel, regulators, Southern Division personnel, RAB members, and members of the public to help him prioritize items for the fiscal year (FY) 1998 budget. He presented priority listings for the 12 Environmental Restoration, Navy Account (ERNA) sites and the 10 Base Realignment and Closure (BRAC) sites. Mr. Patrick emphasized that the development of these listings used only environmental criteria to determine the priority of each site. He concluded by noting that Southern Division probably will distribute the draft FY1998 execution plan to stakeholders sometime in early April. Mr. Patrick committed to distribute the NAS Key West portion of the draft execution plan to RAB members when it becomes available and he requested that all comments on the draft execution plan be sent to him before the end of April to ensure consideration in the final execution plan.

In response to a question, Mr. Patrick explained that the Navy will investigate the gray zones that involve transfer from one Federal agency to another Federal agency. It is good stewardship on the part of the Navy to investigate these properties and it reduces the Navy's exposure to potential future liabilities. Mr. Patrick stated that he would follow up on this issue as there may be regulatory requirements for investigating properties prior to transfer.

### Update on Interim Remedial Activities

Mr. Patrick reviewed the remediation status of two sites: the Jet Engine Test Cell [Solid Waste Management Unit (SWMU) 9]] and the Fleming Key Landfill [Installation Restoration Site 8 (IR 8)]. The pump-and-treat system at SWMU 9, which was installed in July 1966 to contain a groundwater plume of solvent-related compounds, has continued to operate within its specified parameters. Maintenance and repair of this system occur as needed. The Navy will continue to take data at SWMU 9 to determine current groundwater contamination levels, and will evaluate the data against cleanup goals. Eventually, the groundwater contamination levels will be reduced to levels that will allow the system to be shut down.

Mr. Patrick stated that the Navy has received the permits for construction of the shoreline protection system at IR 8 and ground work began on February 24, 1997. He distributed photographs of recent construction activities at IR 8. The installation of the shoreline protection system is scheduled for completion in May 1997. In response to a question, Mr. Geer pointed out that the fill dirt required for construction of the shoreline protection system comes from the clean excavation piles at the Trumbo Point Fuel Farm.

### Update of Environmental Restoration Navy Account Investigation Activities

Mr. Bryan reviewed the RFI/RI work performed to date on the four original and eight additional sites. He reported that the Navy received ecological risk assessment comments from the regulators and prepared draft responses to the comments. Currently, the Navy and the regulators are resolving these responses. Mr. Williams distributed a copy of the comprehensive background report. Mr. Bryan summarized the findings from the report and asked that comments from the RAB be submitted to Mr. Williams by May 1, 1997, to allow the Navy enough time to develop responses before the next RAB meeting. Mr. Bryan also asked the RAB members to consider if the data in the comprehensive background report represent their vision of background conditions for the NAS Key West sites. He stated that he would like to maximize the effort and resources expended in compiling the comprehensive background data set by using it in future investigations.

### Update of Base Realignment and Closure Investigation Activities

Mr. Bryan reviewed the locations for the 10 Base Realignment and Closure (BRAC) zones on Key West. He stated that the Navy is following U.S. Environmental Protection Agency guidance for the data quality objectives (DQOs) process as a critical tool for successful completion of the site inspections at the BRAC zones. In general, the DQO process applies the scientific method to the site inspection process. Normally, the DQO process decreases the time involved for decision-making. Mr. Bryan concluded with a discussion of the estimated schedule for the BRAC site inspection activities.

A discussion between members of the public and the RAB identified the need to use our environmental funds as wisely as possible at NAS Key West due to the level of funding the Navy has to work with. Mr. Patrick mentioned that although piecemeal funding is inevitable, the Navy prioritizes its funding requirements to maximize the use of available funding.

In response to a public comment, Mr. Demes mentioned that NAS Key West plans to compile environmental data in a manner that will be available to everyone.

#### Potential Topics for Next Meeting (May 19, 1997)

Mr. Demes and Ms. Loder agreed that the next meeting would include the following topics:

- Update of Fiscal Year 1998 Budget Process
- Update of ERNA Site Cleanups
- Update of ERNA Site Studies
- Update of BRAC Site Studies

#### Adjournment

Mr. Demes adjourned the meeting at approximately 8:30 p.m.

The next page lists the open RAB action items. If the RAB agrees, an updated version of this list will be included with each RAB meeting summary.

## Restoration Advisory Board Action Items

No.	Date Assigned	Action Item	Person	Due Date
1)	01-28-97	Write Newspaper Article About RAB for Local Paper	P. Williams	05-12-97
2)	03-31-97	Comment on Comprehensive Background Report	RAB	05-01-97
3)	03-31-97	Provide an answer to Bill Harrison Regarding Environmental Requirements for Federal Agency to Federal Agency Transfers	D. Patrick J. Reed	05-19-97
4)	03-31-97	Draft Responses to Comments on Comprehensive Background Report, Review Responses with D. Patrick and P. Williams	C. Bryan	05-19-97
5)	03-31-97	Provide FY1998 Execution Plan to RAB after EPVT Review	D. Patrick	Early May
6)	03-31-97	Provide Comments on FY1998 Execution Plan to D. Patrick	RAB	Late May



## Update of FY1988 Budget Process

Dudley Patrick  
Southern Division  
March 31, 1997



## Who provided inputs to the Process?

- FDEP RPM
- EPA RPM
- Southern Division RPM
- NAS Key West IR Manager
- RAB community members
- Members of the community



**ERNA Sites in order of priority as presented to the SOUTHDIV EPVT**

- SWMU-1 Boca Chica Open Disposal Area
- SWMU-2 Boca Chica DDT Mixing Area
- IR-8 Fleming Key South Landfill
- IR-3 Truman Annex DDT Mixing Area
- SWMU-9 Jet Engine Test Cell
- SWMU-7 Building A-824
- SWMU-5 AIMD Building A-990
- SWMU-4 AIMD Building A-980
- AOC-B Big Coppitt Key Abandoned Civilian Disposal Area
- SWMU-3 Boca Chica Firefighting Area
- IR-1 Truman Annex Refuse Disposal Area
- IR-7 Fleming Key North Landfill



**DRAC Sites in order of priority as presented to the SOUTHDIV BEC**

- AOC GRYZNF Truman Annex Building 223
- AOC GRYZNC Truman Annex DRMO Waste Storage Area
- AOC GRYZND Truman Annex Seminole Battery
- AOC GRYZNK Truman Annex Public Works Maint. Facility
- AOC GRYZNE Truman Annex Buildings 102, 103, and 104
- AOC GRYZNB East Martello Battery
- AOC GRYZNH Trumbo Point Piers D1 and D3
- AOC GRYZNA Hawk Missile Site (KW65)
- AOC GRYZNI Trumbo Point Building 48
- AOC GRYZNG Poinciana Housing



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## What's next?

- By early April, SOUTHDIV should distribute the draft FY98 execution plan to all stakeholders for review and comment
  - will mail to RAB members and regulators
- By late April, SOUTHDIV should have received feedback from stakeholders and adjusts as best fits everyone's concerns



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**UPDATE**

*Interim Remediation &  
Source Removal of Contaminants  
NAS Key West Florida*

*Bechtel Environmental, Inc.*

03/31/97

# *Status: 31 March 97*

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- Complete

- » SWMU-9
- » Operation continuing

- In Progress

- » IR-8                      1800 lf
- » Subcontract awarded to  
Ocean Breeze  
Construction, Inc. for  
design / build.
- » Construction has started

# *SWMU-9 (Jet Eng Test Cell)*

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Problem: Free Product and Chlorinated Solvent Plume

Solution: Install Groundwater Pump & Treat System

- » *Installation of System July 96*
- » *Operational since August 1996*
- » *Repairs and Maintenance as required*
- » *Levels of contaminants are decreasing*

# *IR-8 (Fleming Key)*

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Problem: Erosion of beach around landfill

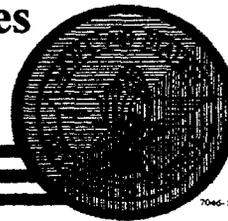
Solution: Install Shoreline Protection System

- » *Approx 1800 linear feet west from water treatment plant*
- » *Berm-type structure*
- » *Pre-cast concrete mats on face (Armor Flex)*
- » *Height: 10 ft above MSL*
- » *Construction started - February 24, 1997*
- » *Clearing, grubbing and excavation has started*
- » ***Scheduled Completion - May 1997***

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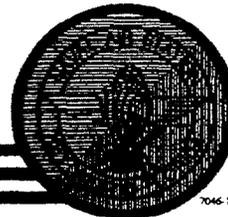
**Chuck Bryan**  
**Brown & Root Environmental**  
**Update of**  
**Environmental Restoration Navy Account**  
**Investigation Activities**



**██████████**

**Four High Priority Sites on Boca Chica Key**

- **Rev. 1 RFI/RI report submitted to the regulators and RAB on September 27, 1996**
- **All comments received from Navy, RAB and regulators**
- **Proposed resolution to regulators' comments currently under consideration by regulators, expect comment resolution by mid-April**

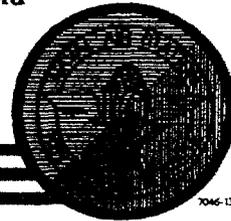




## Four High Priority Sites on Boca Chica Key

*(continued)*

- **Rev. 2 RFI/RI report - delivery date has slipped 2 months to May 1997 due to unplanned delay in receiving ecological risk assessment comments from regulators**
- **Currently negotiating due dates for corrective measures study (CMS) reports for SWMUs 1, 2, and 9**
  - **Rev. 1 CMS report for SWMUs 1 and 2**
  - **CMS report for SWMU 9 currently on hold pending completion of interim remedial action**
- **SWMU 3 - No Further Action**

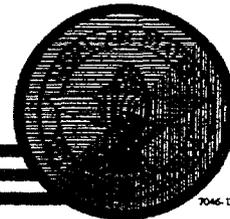


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## Additional NAS Key West Sites

- **RFI/RI Field Work conducted August - October 1996 for eight additional sites**
- **Validation of analytical data complete in early March 1997, with 8 percent data rejection rate**
- **Comprehensive background report delivered to RAB March 31, 1997**



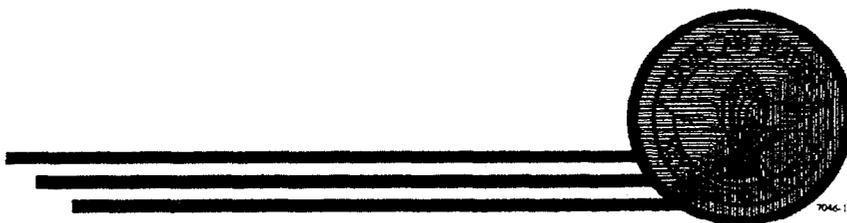
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## **Additional NAS Key West Sites**

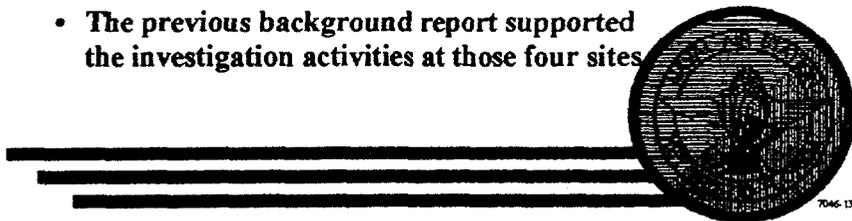
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- **Currently evaluating nature and extent of contamination and performing risk assessments**
- **Rev. 1 RFI/RI report due June 2, 1997**
- **Due dates for CMS reports under negotiation with regulators**



## **Background Characterization**

- **Previous background report characterized background conditions on Boca Chica Key only**
  - **Navy funding in early FY96 was only sufficient to characterize background on Boca Chica Key (BG 1, BG 2, and BG 3)**
  - **The scope of the RFI field investigation included four sites on Boca Chica Key only**
  - **The previous background report supported the investigation activities at those four sites**





## Background Characterization

*(continued)*

- The Comprehensive Background Report provides a broader characterization, applicable to all sites in vicinity of NAS Key West
  - An additional five background sites (BG 4, BG 5, BG 6, BG 7, and BG 8) were investigated
  - Comprehensive Report incorporates previous Boca Chica data and data from the additional sites



## Background Characterization

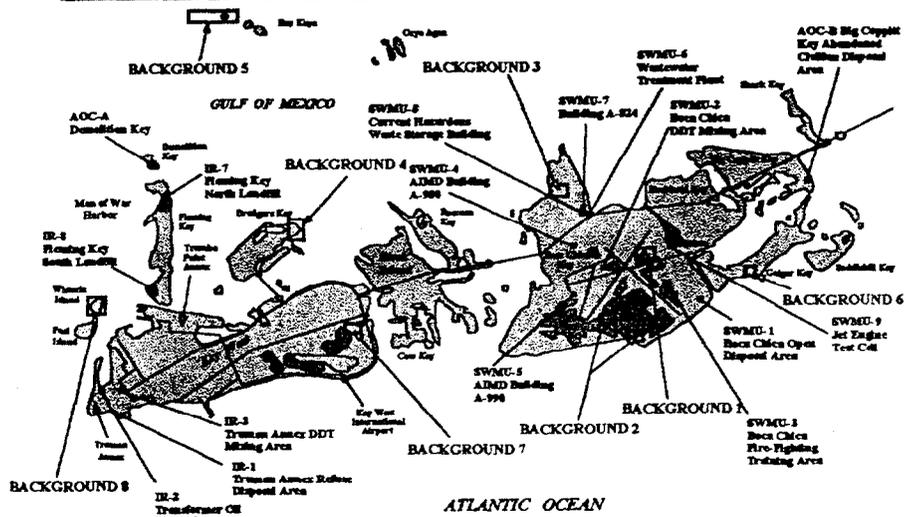
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- This will support investigation activities at the eight additional sites (AOC B, IR 1, IR 3, IR 7, IR 8, SWMU 4, SWMU 5, and SWMU 7)
- Comprehensive background data set may be applicable to future investigations



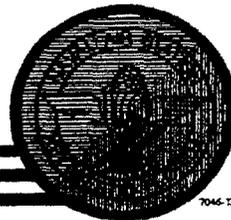


# Background Site Location Map



## Comprehensive Background Data

- Inorganic and Pesticide/PCB data appear representative of widespread background conditions
  - Inorganics are ubiquitous in nature and were detected with the highest frequency
  - Pesticide/PCB compounds have a long history of use in the vicinity of NAS Key West, and were the next most frequently detected compounds



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## **Comprehensive Background Data**

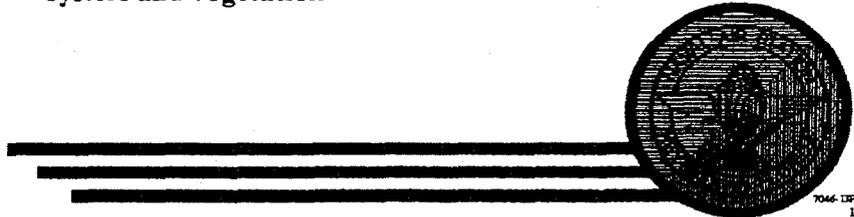
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- **Volatile and semivolatile data do not appear to be widespread background contaminants**
  - **Frequency of detection was low**
  - **Compounds detected were often consistent with common laboratory or rinsate blank contaminants**



## **Tissue Sampling**

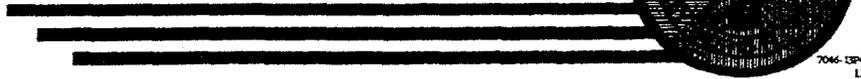
- **Tissue concentrations protective of aquatic organisms and predators have not been uniformly accepted**
- **Background report discusses tissue concentrations in comparison to toxicity thresholds and "normal" background concentrations**
- **Samples collected consisted of conch, crab, fish, lobster, oysters and vegetation**



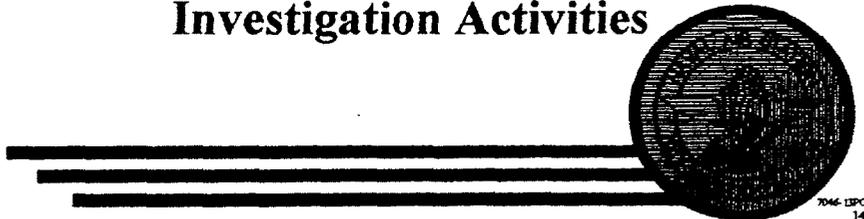


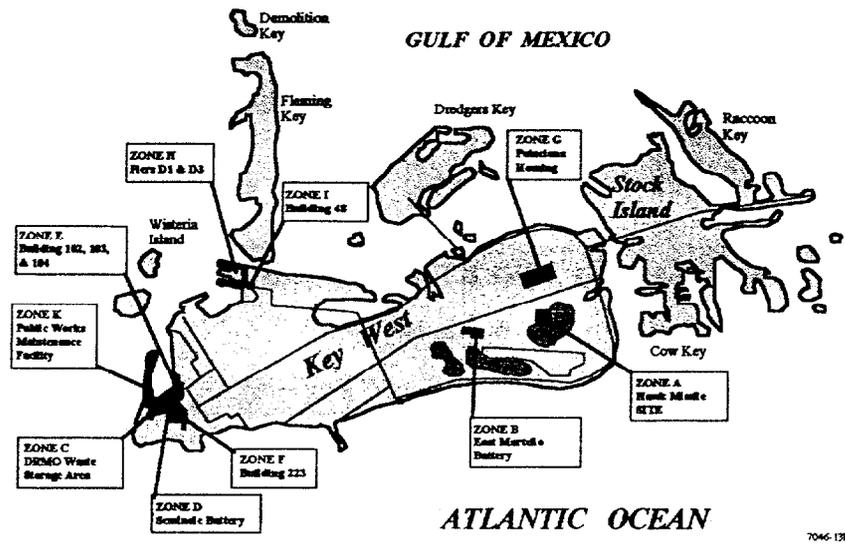
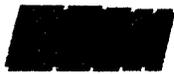
## Tissue Results

- **Most contaminants were within range of normal background values as reported in other studies**
- **Metals were the most commonly detected compounds**
- **Pesticide/PCBs were detected with next greatest frequency**
- **Semivolatiles were detected in only five fish samples**
- **Volatiles were not detected in tissue**



## Chuck Bryan Brown & Root Environmental Update of Base Realignment and Closure Investigation Activities



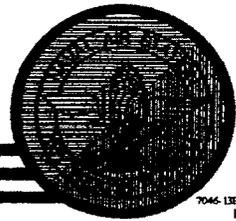


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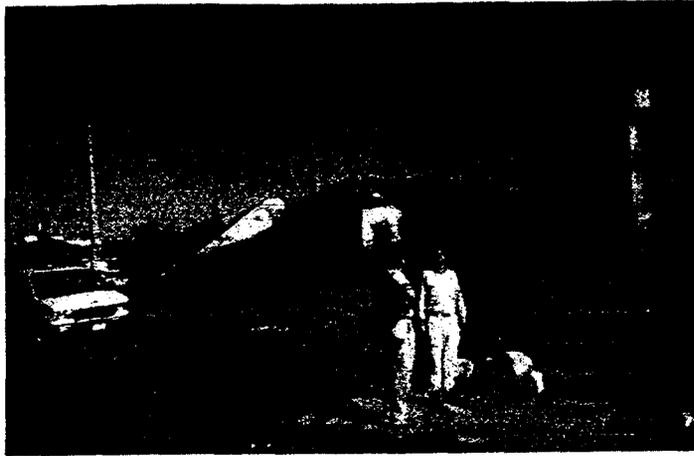


## Data Quality Objectives Process for the BRAC Site Inspection

- We will follow the seven-step process in EPA's Guidance for the Data Quality Objectives Process, which applies the scientific method to the site investigation process
  - State the problem
  - Identify the Decision
  - Identify inputs to the decision
  - Define the study boundaries
  - Develop a decision rule
  - Specify tolerable limits on decision errors
  - Optimize the design



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## Ten BRAC Zones

- **Estimated schedule of major BRAC SI activities**
  - **Work Plan development during Spring 1997**
  - **Field Work during Summer/Fall 1997 - provided funding is available**
  - **Rev. 1 SI Report tentatively scheduled for RAB review in early 1998**



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