



DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 49TH FIGHTER WING (ACC)
HOLLOMAN AIR FORCE BASE, NEW MEXICO

17 APR 1995

MEMORANDUM FOR MR. STEVE PULLEN
New Mexico Environment Department
Hazardous and Radioactive Materials Bureau
525 Camino de Los Marquez
Santa Fe, NM 87502

FROM: 49 CES/CEVR
550 Tabosa Avenue
Holloman AFB, NM 88330-8458

SUBJECT: Restoration Advisory Board Meeting

1. Place: 49th Fighter Wing Conference Room, Building 29
2. Time: 9:00 AM, 27 February 1995
3. Chairman: Col Bruce Carlson
4. Attendance:

Col Bruce Carlson (Chairman)	49 FW/CC
Col Timothy J. McGoldrick	49 SPTG/CC
Col J.N. Davis	49 MMG/CC
Col V.R. Gilloth	49 LG/CD
Lt Col T.E. Atkinson	49 FW/JA
Lt Col Michael S. Fitz	49 CES/CC
Lt Col Ken Snider	49 CONS/CC
Maj David A. Ortiz	49 SPS/CC
Maj Chris Bendall	49 TRANS/CC
Capt Jim Krajewski	49 SUPS/SUF
Lt Lynn Jones	49 CS
Lt Frank Simas	49 CES/CEE
CMSgt Rich Douer	4 SWS/LKS
MSgt Frank Perez	49 FW/PA
TSgt Steven Shipp	49 FW/CCN
SSgt John H. Kennedy	49 LG/QI
Curt Robinson	Stews AA (Army Air)
Cathy Giblin	49 CES/CEV
Vicky Cruz	49 OG/LSSI
Jim Rowland	EG&G/MSI
John Poland	49 CES/CEV
Howard E. Moffitt	49 CES/CD
Warren Neff	49 CES/CEV
Jennifer Mosle	49 CES/CEV
Tom Zink	USACE, Omaha District
Dan Holmquist	Foster Wheeler
Harry Loper	Alamogordo resident



5. Lt Col Michael S. Fitz, 49 CES Commander, opened the meeting by introducing the new Restoration Advisory Board (RAB) format geared to increase local participation in establishing priorities.
6. Col Bruce Carlson, 49 FW Commander, and RAB co-chair, asked about the mandate which requires Holloman to have a liaison board with downtown. Mr. Warren Neff, the Remedial Program Manager for Holloman's Installation Restoration Program (IRP), responded that the Environmental Protection Agency (EPA) and the Air Force created the RAB to fulfill the requirements of AF Policy, the Comprehensive Environmental Resource Compensation and Liability Act (CERCLA), and the Superfund Amendments Reauthorization Act (SARA) regarding public involvement with restoration activities on Federal installations.
7. Col Timothy J. McGoldrick, 49 SPTG Commander, noted that solicitations for RAB members from the local community failed to generate enough interest to create a RAB Committee. Despite this, the RAB is being held.
8. Col Carlson asked persons from downtown to identify themselves. He then greeted Mr. Harry Loper, an Alamogordo resident.
9. Lt Col Fitz then turned the meeting over to Warren Neff.
10. Col Carlson suggested that a future meeting be held in Alamogordo in the evening in an effort to encourage community involvement.
11. Mr. Warren Neff welcomed everyone to the first RAB. He briefly covered the meeting agenda (Atchs 2 & 3). The transition from the Technical Review Committee (TRC) to the RAB was mandated by Air Force policy to expand the participation of the local community (Atch 4). Holloman attended a workshop on the RAB structure hosted by the National Registry of Environmental Professionals in San Diego, CA. Solicitations for RAB members, including posted notices, public service announcements in newspapers and radio, and mailings will occur annually with documentation included in the Administrative Record. Mr. Neff explained that Mayor Dan King, who could not make this meeting, will serve as the RAB co-chair. The format will be more of an open discussion to encourage questions and interaction. A goal is to post the meeting minutes in the Sunburst and the Alamogordo Daily News. Action items will be included in the meeting format for people to request resolution of issues.
12. Mr. Neff then gave a general overview of the IRP Program (Atch 5) and a description of the four phases of cleanup: 1) Preliminary Assessment/Site Inspection (PA/SI) is performed when there is concern that there might be some contamination and consists of records searches and soil samples; 2) the Remedial Investigation/Feasibility Study (RI/FS) consists of determining the nature and extent of the contamination and, if contaminants are determined to pose a risk, applicable cleanup technologies; 3) the Remedial Design/Remedial Action (RD/RA) designs, constructs and operates the technology chosen in the FS; and 4) the Site Closeout/No Further Action (SC/NFA) occurs when contaminants are deemed to be below health-based risk levels. The system may be "short-circuited" from the PA/SI or RI/FS phases to the SC/NFA phase if no contamination is found.
13. Mr. Neff covered the status of the 60 IRP sites at Holloman (Atch 6). By the end of FY95: 4 sites will be in the PA/SI stage, 11 in the RI/FS stage, 8 in the RD/RA stage, and 37 will be closed out. Holloman is keeping pace with the FY2000 Air Force goal.
14. Col Carlson asked that of the 23 sites left are there any "bad actors"? Mr. Neff responded that the T-38 Test Cell Fuel Spill Site, with an initial estimate of over 1 million gallons of jet fuel, revised to approximately 500,000 gallons, which occurred as a result of a leak over several years and the BX Service Station Fuel Leak are the two largest fuel contamination concerns on base. Approximately \$2.5M is being

devoted in FY 95 in the RD/RA stage to the T-38 Test Cell and \$700,000 in FY 95 in the RD/RA stage to the BX Service Station. Construction is anticipated to commence in April/May. The T-38 Test Cell already has been the object of a Rapid Response Action. A high vacuum system removes vapors and fuel at the site.

15. Col Carlson requested a tour of the T-38 Test Cell site and a briefing on the IRP sites on base during his visit to Civil Engineers.

16. Mr. Neff mentioned that a copy of the Management Action Plan for Holloman, which is a synopsis of the IRP, will be provided for his use.

17. Mr Neff explained that Holloman has a Resource Conservation and Recovery Act (RCRA) permit for hazardous waste management operations. Holloman's RCRA Corrective Action program is governed by its Hazardous and Solid Waste Amendments (HSWA) permit (Atch 7). The RCRA Corrective Action Program required by the HSWA permit mimics the IRP. The HSWA permit has 3 tables with 118 Solid Waste Management Units (SWMUs) organized by potential risk. These SWMUs were identified during a "SWMU hunt," which took place after the permit was issued. Any facility on the base which may have handled hazardous waste is identified as a SWMU, including oil/water separators, waste oil tanks, wash racks, and IRP sites. Table I SWMUs are the highest priority; Holloman has already investigated and/or performed remedial action at most of these. Holloman is ahead of most bases in performing corrective actions.

18. Mr. Neff next introduced the process behind the RCRA Corrective Action Program (Atch 8) which also mimics the IRP. The RCRA Facility Assessment (RFA) and the RCRA Facility Investigation (RFI) correspond to the PA/SI. The Corrective Measures Study (CMS) correlates to the FS, the remedial technology selection process. The Corrective Measures Implementation is the construction phase, the RD/RA. Instead of preparing a Decision Document to close out the site, a permit modification is performed. One permit modification was performed in August 1993 to close out approximately 30 SWMUs; one or two modifications are anticipated this year to close out approximately 30 more SWMUs.

19. Mr. Neff presented the status of the SWMUs in the RCRA Corrective Action Program at Holloman (Atch 9): 72 SWMUs are in the RFI stage with 18 of the 72 being both IRP sites and SWMUs. Of the 54 SWMUs which don't have dual status, 25 are anticipated to be closed out this-year pending an approval letter from the Environmental Protection Agency (EPA).

20. Col Carlson asked if this would also have to be approved by the State of New Mexico. Mr. Neff responded that the EPA has lead authority in RCRA matters and the New Mexico Environment Department (NMED) has lead authority in CERCLA (IRP) matters. The EPA and the NMED try to work as a partnership; the EPA will inform the NMED of any actions taken.

21. Col Carlson asked if a timeline had been established for turnaround. Mr. Neff responded that a 60-day review turnaround goal exists, but is not always met. Holloman's contact person at the EPA is doing well, considering the amount of work that is going on.

22. Col Carlson asked what EPA Region Holloman is located in. Mr. Neff responded that Holloman is located in Region VI, based out of Dallas, which includes New Mexico, Texas, Oklahoma, Louisiana, and Arkansas.

23. Mr. Neff then presented the status of the Total Environmental Restoration Contract (TERC) (Atch 10). The goal of the TERC is to have one contractor perform every phase of the investigation and remediation in order to save time and money. Holloman awarded approximately \$9.4M under IRP and RCRA Corrective Action Program in FY94. Thus far \$3.6M has been awarded, and a total of approximately \$9.1M is expected for FY95.

24. Col Carlson asked for a breakdown of the costs by phase. Mr. Neff responded that approximately 50% of the funding was investigation oriented, while the other 50% was focused on cleanup. The larger projects at Holloman, T-38 Test Cell, Building 828, and the BX Service Station, are all in the cleanup phase.

25. Col Carlson asked if a goal should be established. Mr. Neff responded that ACC has established a goal of 60/40 for funds spent on construction versus investigation. With Defense Environmental Restoration Account (DERA), (IRP), and Compliance (RCRA Corrective Action Program) funds combined, Holloman is meeting this goal. Col Carlson remarked that if the ACC-wide goal is 60/40, then Holloman should be able to attain 70/30 construction/investigation fund ratio.

26. Mr. Neff presented the ongoing projects at Holloman (Atch 11). The Table I Phase II RFI consists of about 40 SWMUs. These sites are being characterized as required under the RCRA permit. The Table 2 RFI is awaiting approval by the EPA. The Table 3 RFI consists of mostly oil/water separators, many no longer in use, which are being removed before they become a problem.

27. Col Carlson asked that a schedule of Underground Storage Tank (UST) and oil/water separator removals and a summary of their status be incorporated into the RAB briefing.

28. Mr. Neff continued by explaining that the Table 3 RFI was due to the EPA in August. The EPA has agreed to allow Holloman to perform a voluntary cleanup action, skipping the CMS stage and going straight to cleanup. This should save considerable money and time.

29. Col Carlson remarked that he would like to meet with Holloman's EPA representative, speak with him about the base, and walk him through our mission.

30. Mr. Neff spoke on IRP Site WP-49, the Sewage Lagoons. The lagoons are in the final phase of investigation. The contamination consists mostly of PCBs and low levels of pesticides. The remediation will most likely be excavation or a form of stabilization. The remediation design will take place next year, but proceedings hinge upon the wastewater treatment plant. The T-38 Test Cell Fuel Spill Site and the Building 828 Fuel Spill Site CMS was approved and Holloman is continuing with remediation system design. The base sewer line, SWMU 183, was identified as a SWMU because it was the pathway for the lagoon contaminants. Holloman is trying to manage the sampling of the approximately 130,000 linear feet of sewer line. It is anticipated that the work plan for the sampling will be submitted to the EPA in the next 60 days.

31. Col Carlson asked if the work plans were sent to ACC before they are sent to the EPA. Mr. Neff responded that the work plans do not go to ACC, but are reviewed by the US Army Corps of Engineers, Omaha District (USACE), Holloman's Service Center, and Holloman's technical staff prior to being forwarded to the EPA. Policy holds that these documents are not sent to ACC unless there is a legal question.

32. Col Carlson asked what check and balance exists to make sure that Holloman doesn't sign up for a project that cannot be funded. Mr. Neff responded that all projects have to be validated by both ACC and Air Staff. Programming documents for FY96 are due for submission in April 95.

33. Mr. Neff continued to explain that IRP Site SS-02/SS-05, the Petroleum, Oil, Lubricants (POL) Spill Sites, are being remediated by a soil vapor extraction system which should be operational in approximately three weeks.

34. Col Carlson asked if these projects were performed through contracts. Mr. Neff responded that all Holloman's contracting goes through the USACE. He then introduced Holloman's USACE Technical Manager, Tom Zink, and Foster-Wheeler on-base representative, Dan Holmquist.

35. Mr. Neff presented the upcoming projects at Holloman (Atch 12). Long-Term Monitoring (LTM) is performed at 13 sites every other year for 10 years as a condition of site close-out to make sure the sources of contamination have been eliminated. Four new sites are being investigated for potential contamination. An innovative technology, bioventing, is being tested at two sites. Bioventing is performed by pumping air into the ground and allowing the natural microorganisms to break down the contamination with no hazardous byproducts. The EPA requested a RCRA Cap be placed over IRP Sites SD-08 and OT-14. This technology is very expensive, however, and after evaluating the risk and conferring with legal at ACC, Holloman proposed an asphalt cap with a liner as the remedial technology. The EPA is currently working on an approval letter and construction is anticipated in the next two months. The T-38 Test Cell and Building 828 Fuel Spill Sites are currently in the design stage. The T-38 Rapid Response system is in place with 10 extraction wells to be expanded to approximately 90 wells for the full scale system. The Basewide POL Remediation plan is to excavate TPH and fuel contamination which exceeds 1000 ppm but doesn't pose a risk. A part of this plan is considering land farming the excavated soil. IRP Site SS-17, the BX Service Station, is in the final design stage. Construction is anticipated to begin in April/May.

36. Mr. Neff explained the FY95 Initiatives (Atch 13): the Rational National Standards Initiative (RNSI) aimed at standardizing risk-based cleanup levels, the Presumptive Remedy Engineering Evaluation Cost Analysis (PREECA) focused on using established remediation technologies to clean up sites, and the Photo-Interpretation Geographical Information System (PIGIS) which uses historical aerial photos to evaluate areas of the base at which previous land uses are unknown.

37. Mr. Neff gave an overview of the Strategic Plan (Atch 14) that was developed to streamline the restoration program. Three of the strategies are geared toward early cleanup and come from the Superfund Accelerated Cleanup Module, a guidance published by the EPA. The NMED and the EPA have bought into the Strategic Plan. The Corrective Action Management Unit and Temporary Unit (CAMU/TU) initiative is geared toward treating excavated wastes onsite without triggering land disposal restrictions. Pilot studies provide information useful for evaluating a technology's applicability and designing the full scale remediation system (Atch 15). Economies of Scale Project Packaging reduces costs by combining investigations. Real Time Decision Making/Observational Method allows decisions to be made "in the field" concerning variation in the scope of investigations. The RAB initiative is intended to keep everyone informed.

38. TPH contamination. Holloman anticipates commencing preliminary investigations at four sites in three weeks: SS-06, SD-15, Area of Concern-RR (AOC-RR), and AOC-BBMS. If enough data is gathered to determine nature and extent of contamination, Holloman plans to proceed directly to removal action. Work is proceeding at IRP Sites SS-36, LF-58, and FT-31. Long Term Operation (LTO) is planned for the sites at which remediation systems are currently being constructed.

39. Mr. Neff summarized FY 95 Compliance Projects (Atch 17): the sewer line investigation is coming along as discussed earlier, the Table 3 design, construction, interim remedial action of oil/water separators, and the LTO of T-38 Test Cell and Building 828 remediation systems.

40. Mr. Neff summarized that the RAB will incorporate the new USAF format (Atch 18). There will be \$9M committed to restoration projects in FY95. Several initiatives to improve the program have been implemented. Holloman strives to remain ahead of other bases in the ACC in restoration and to keep cleaning up faster and smarter.

41. Col McGoldrick emphasized that Holloman's IRP and Compliance program are at least two years ahead of other bases in ACC.

42. Mr. Dan Holmquist commented that the reasons for instituting the TERC at Holloman were the base's great relationship with the regulators and programming methods which gave the best opportunity for the TERC to succeed.

43. Col Carlson's closing comments were that Holloman needs to continue to strive to send out positive messages. Col Carlson feels that Holloman's program is very good, and the Strategic Plan is an excellent step. He would like to press on with establishing some goals for USTs, oil/water separators, etc.

for Wane Dyff
Jennifer D. Mosle
Recorder

Attachments:

1. Distribution List
2. Meeting Agenda
3. Meeting Agenda (cont.)
4. Transition from TRC to RAB
5. Installation Restoration Program Overview
6. Status of 60 IRP Sites
7. RCRA Corrective Action Status
8. RCRA Corrective Action Program Overview
9. Status of SWMUs
10. Status of TERC
11. Ongoing Projects
12. Upcoming Projects
13. FY95 Initiatives
14. Strategic Plan
15. Strategic Plan (cont.)
16. FY95 Projects
17. FY95 Compliance Projects
18. Summary of IRP Program

Approved as written:

Bruce Carlson
BRUCE CARLSON
Colonel, USAF
Commander, 49th Fighter Wing

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49 CES/CEV
49 SPS/CC
49 CS/CC
4 SWS/CC
46 TG/CC
46 TG/SE
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Mr. Fred Flores
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Mr. Steven Quintin
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Alamogordo, NM 88310



Restoration Advisory Board

Agenda

- 0900 **Opening Remarks**
 - Col Carlson

- 0910 **Transition from TRC to RAB**
 - Solicitation Efforts
 - Holloman RAB Format



Restoration Advisory Board

Agenda (Contd)

- 0920 **Technical Discussion**
- Status of Restoration Program
 - Status of TERC
 - Ongoing Projects
 - Upcoming Projects
 - FY95 Initiatives
 - FY95 Restoration Projects
 - FY95 Compliance Projects
- 0945 **Open Discussion/Issues**
- 0955 **Closing Comments/Action Items**
- 1000 **Adjourn**



Restoration Advisory Board

Transition from TRC to RAB

Transition Efforts

New Structure

Format Changes

2 Sections (Information/Open Discussion)

Action Items



Restoration Advisory Board

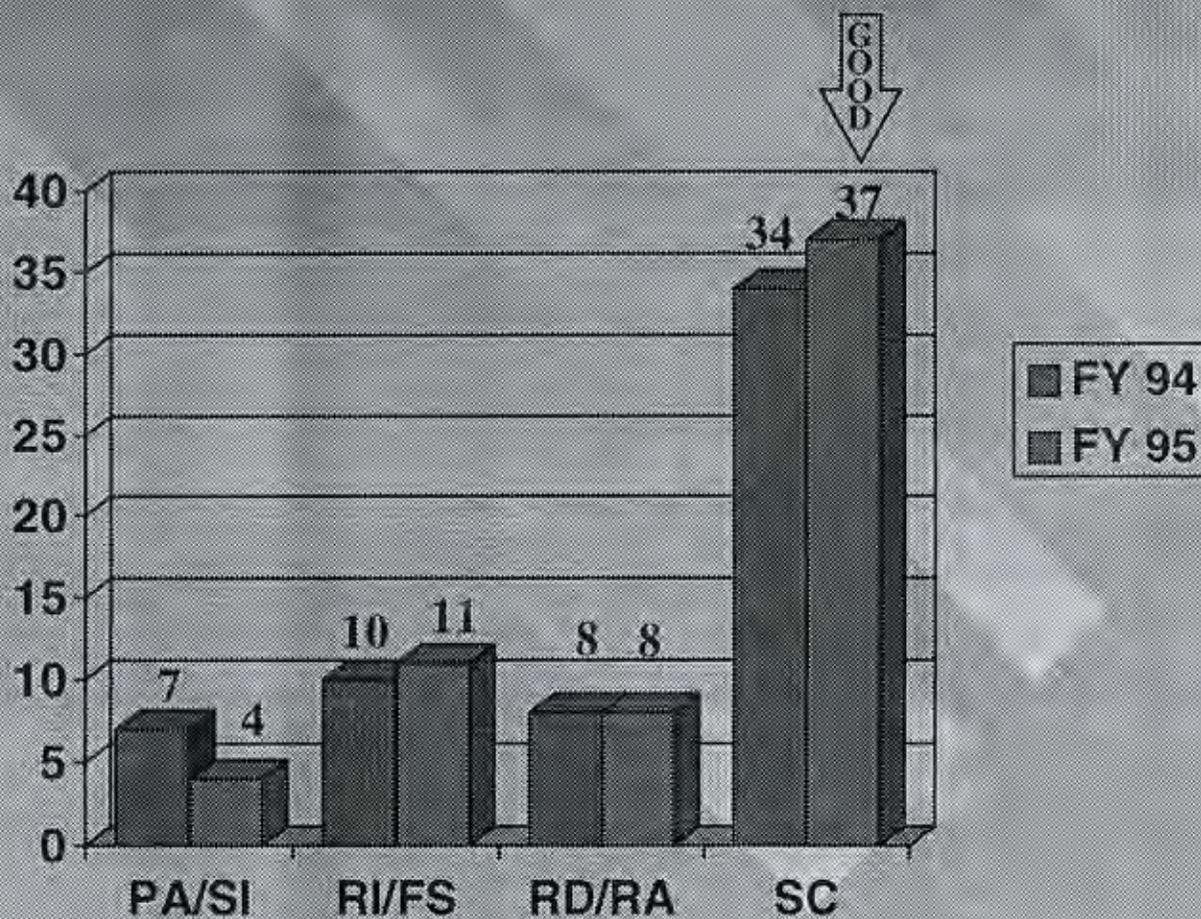
Installation Restoration Program

- Preliminary Assessment/Site Inspection (PA/SI)**
- Remedial Investigation/Feasibility Study (RI/FS)**
- Remedial Design/Remedial Action (RD/RA)**
- Site Closeout/No Further Action (SC/NFA)**



Restoration Advisory Board

Status of 60 IRP Sites





Restoration Advisory Board

RCRA Corrective Action



- Hazardous and Solid Waste Amendments (HSWA) Permit**
 - Part of RCRA Part B Permit
 - HSWA Permit has 3 Tables--118 Solid Waste Management Units (SWMUs)
 - Tables Each Contain Approximately 40 SWMUs
 - Table 1 SWMUs--Highest Priority



Restoration Advisory Board

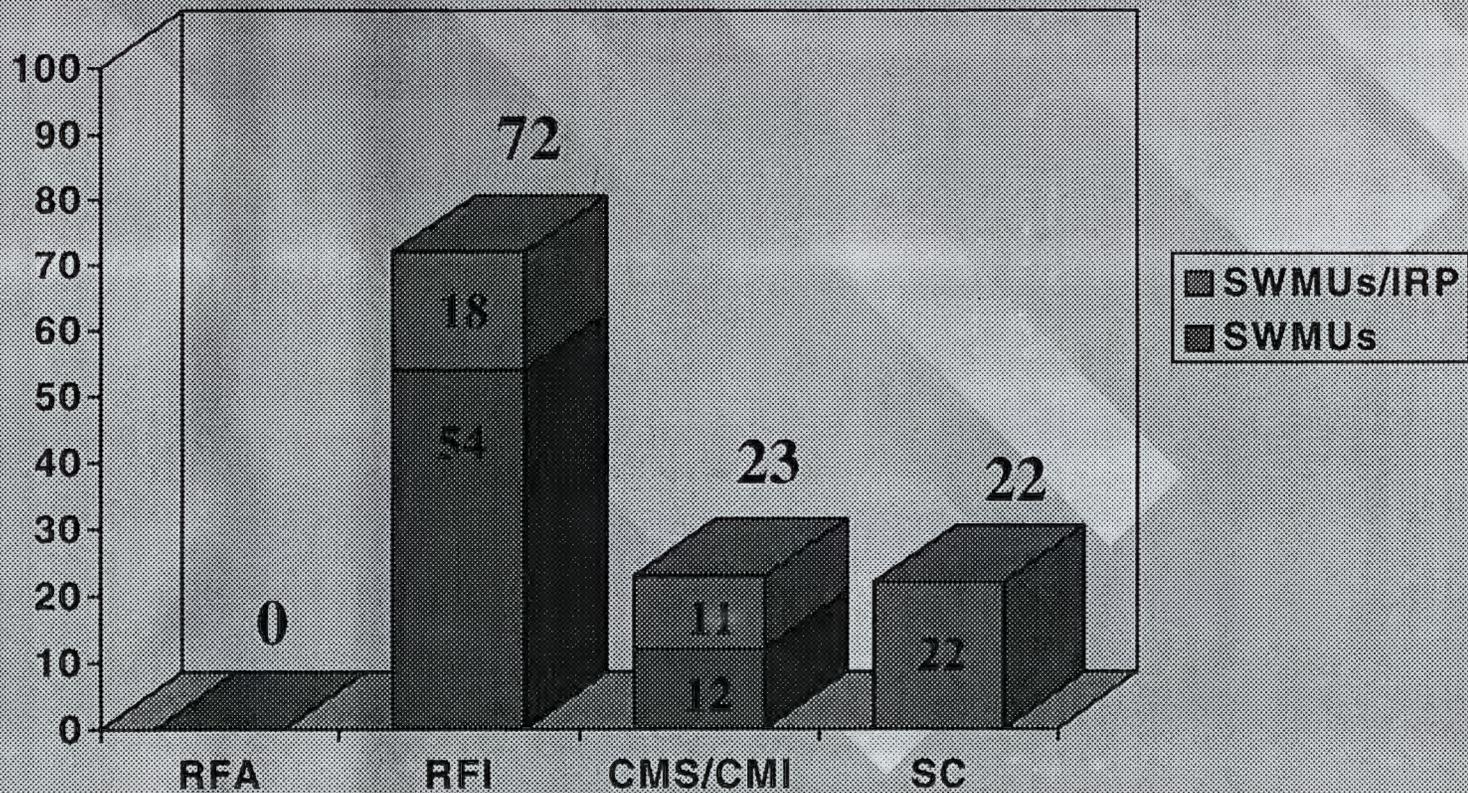
RCRA Corrective Action Program

- RCRA Facility Assessment (RFA)**
- RCRA Facility Investigation (RFI)**
- Corrective Measures Study (CMS)**
- Corrective Measures Implementation (CMI)**
- Permit Modification/Site Closeout (SC)**



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Status of SWMUs





Restoration Advisory Board

Status of TERC

- \$9.4M Awarded in FY94
- \$3.6M Currently Awarded in FY95
 - \$9.1M Anticipated in FY95



Restoration Advisory Board

Ongoing Projects

- Table 1 Phase 2 RFI
- Table 2 RFI
- Table 3 RFI
- WP-49 (Lagoons) RI/FS
- T-38/Bldg 828 CMS
- SWMU 183 (Sewer Line) RFI Workplan
- SS-02/SS-05-RA



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Upcoming Projects

- Multi Sites--LTM
- SS-06/SD-15/AOC-BBMS/AOC-RR--PA/SI
- FT-31/SD-47--Bioventing Initiative
- SD-08/OT-14--RD
- SD-08/OT-14--RA
- T-38/Bldg 828--CMI (RD/RA)
- Basewide POL Remediation
- SS-17--RA



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FY95 Initiatives

- Rational National Standards Initiative (*RNSI*)
- Presumptive Remedy Engineering Evaluation Cost Analysis (*PREECA*)
- Photo-Interpretation Geographical Information System (*PIGIS*)



Restoration Advisory Board

Strategic Plan

- Purpose--Enhance Execution of Program
- 10 Initiatives/Strategies

Early Actions--SACM

Non-Time Critical Removal Actions--SACM

Interim Remedial Actions--SACM

Presumptive Remedies

CAMUs/TUs



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Strategic Plan (Contd)

- Pilot Studies
- Economies of Scale Project Packaging
- Real Time Decision Making/Observational Method
- Restoration Advisory Board
- Rational National Standards Initiative



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FY95 Projects

- OT-11/DP-43--RA (TPH Removal)
- SS-06/SD-15/AOC-BBMS/AOC-RR--RI/FS,RD*/IRA*
- SS-36/LF-58--FS/RD/IRA
- FT-31--FS/RD*/IRA*
- SS-02/SS-05/SS-17/SD-47/FT-31--LTO
- Multi-Sites--LTM

*Based on Duration of FS



Restoration Advisory Board

FY95 Compliance Projects

- SWMU 183 (Sewer Line)--RFI
- Table 3 CMS/CMI/IRA
- T-38/Bldg 828--LTO



Restoration Advisory Board

Summary

- RAB Will Incorporate New USAF Format
- \$9M Will be Committed to Restoration Projects in FY95
- Several Initiatives Have Been Established to Enhance and Accelerate the ACC Restoration Program
- Holloman Continues to be a Leader in Restoration
- Holloman Will Continue to Accelerate its Restoration Activities