

HAFB 06

22 MAY 2006

MEMORANDUM FOR NEW MEXICO ENVIRONMENT DEPARTMENT

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FROM: 49 CES/CEV
550 Tabosa Ave
Holloman AFB NM 88330-8458

SUBJECT: Hazardous and Solid Waste Amendments (HSWA) Quarterly Report for January – March 2006, EPA ID NM6572124422

1. In accordance with Module IV, Section E, of the Holloman AFB HSWA permit, attached please find the January – March, 2006 Quarterly Report.
2. If you have any questions please contact me at (505) 572-5395.

David Griffin

David Griffin
Environmental Restoration 49 CES/CEV

Attachment: *HSWA Quarterly Report, January - March, 2006* (1 copy)

Cc (w/attachment):

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**HOLLOMAN AIR FORCE BASE
NEW MEXICO**

**HAZARDOUS AND SOLID WASTE AMENDMENT
QUARTERLY ACTIVITY REPORT
EPA ID NM6572124422**



**Activity Period:
January 1 to March 31, 2006**

I.0 INTRODUCTION

This quarterly report has been prepared in accordance with the Resource Conservation and Recovery Act (RCRA) Permit and the Hazardous and Solid Waste Amendments (HSWA) Permit for Holloman Air Force Base (HAFB or Holloman). These permits require periodic reporting of activities related to corrective actions at Solid Waste Management Units (SWMUs) located at HAFB.

The report summarizes activities and available data concerning corrective actions at actively remediated SWMUs across HAFB between **January 1 and March 31, 2006**. Table 1 briefly summarizes the status of each site undergoing the corrective action process. Table 1 provides the SWMU number, site name, corresponding Environmental Restoration Program (ERP) site number, the status of each site, the activities conducted during the reporting period and the schedule for additional activities (if needed).

Section 2.0 provides the details of specific activities such as work plan preparation, report preparation, investigations and remediation activities. Section 3.0 summarizes planned future activities for each site during next quarter. The report certification statement is presented in Section 4.0

2.0 CORRECTIVE ACTION ACTIVITIES THIS QUARTER

Between January 1 and March 31, 2006, remediation activities were conducted at the T-38 Test Cell ERP Site SS-59 (SWMU 229), DP-63 (AOC-3) the Ammunition Disposal Site, SWMU 123 the POL Yard Wash Rack and Site SS-17 Old BX Service Station (AOC-Q). These remedial efforts involved the excavation of petroleum contaminated soils which were treated in the onsite land farms (FT-31 Landfarm and the T-38 Landfarm.

Additional characterization of groundwater was completed at the Former Fire Training Area Site FT-31 (SMWUs 29, 127, 135, 170 & 171) and the Main POL Yard Spill Site SS 02/05 (AOC-T) as requested by the NMED. These investigations were necessary to characterize the extent of groundwater impacts by hydrocarbons at each site. Additionally, the investigations collected data regarding total dissolved solids (TDS) at these sites.

In February a regular progress meeting between NMED and HAFB was held at the Base. During the meeting, preliminary data regarding the geophysical and soil gas surveys conducted at several landfill sites (LF-10, LF-19, LF-21, LF-22, LF-23, LF-29, and DP-30/SD-33) was presented by HGL, Inc. HGL is the Air Combat Command performance based contractor assigned these sites by headquarters. The work was conducted in September 2005 in accordance with the work plan submitted to NMED.

However, NMED had not provided comments or approval of the work plan prior to the field work. In January 2006, NMED transmitted a Notice of Deficiency (NOD) and comments regarding the work plan. Most of HGL's presentation focused on a response to the NOD and their objections to trenching at the site. However, by the end of the meeting representatives from Headquarters, HGL and the NMED had resolved many of the comments regarding the NOD.

In addition to **Table 1**, details regarding several sites are provided in the subsections below.

2.1 Landfarm at FT-31

During Q1 of 2006, approximately 1480 cubic yards of PCS from site SWMU 123 (POL Yard Canopy) were processed and treated. Quarterly reports for the landfarm were submitted to the NMED Groundwater Quality Bureau as required by the operating permit.

2.2 Landfarm at T-38

During this quarter, approximately 13,680 cubic yards of soil were placed into the landfarm for treatment. The soil was derived from the area surrounding SWMUs 19 and 20. The treatment was not completed by the end of the quarter.

2.3 Old Fire Training Area FT-31 (SWMUs 39, 127, 135, 170, 171)

Groundwater samples were collected from the monitoring wells installed in December 2005. Analytical results indicate that delineation of the lateral extent of hydrocarbon constituents and other VOCs is complete. Work began on submitting a revised VCM report including responses to comments received in the July 2005 request for supplemental information (RSI) letter from NMED regarding this site. The revised report should be transmitted to NMED in April 2006.

2.4 T-38 Test Cell Site SS-59 (SWMU 229)

During this quarter, approximately 13,000 cubic yards (plus 500 yards from last quarter) were excavated during the removal of SWMU 19 and SWMU 20 which were USTs located adjacent to the test cells. Additional excavation and PCS treatment will resume in Q2 or Q3 2006 when funding is renewed.

2.5 AOC-2 Tower Site

In December 2006 NMED transmitted a letter of NFA for this site. The site will be placed on the next Permit Modification and Statement of Basis (December 2006).

2.6 SS-61 (AOC-1001) Building 1001

In January 2006, NMED provided a letter of NOD and comments regarding the Monitored Natural Attenuation work plan for the site. The comments were minor and the work plan was approved. However, the conditions of approval would most likely not result in closure of the site. Therefore, at the February 2006 meeting with NMED, the Base decided to withdraw the work plan. A revised approach which will incorporate the new risk based strategy for addressing groundwater at all the remaining sites will be submitted to NMED.

2.7 Site SS-72 (Building 1088) SWMU 116

During the investigation of SS-61, Trichloroethene (TCE) was detected in an upgradient monitoring well and at least two DPT groundwater sampling points. The well SS61-MW-02 contained TCE at 34 µg/L. Since the site was not believed to be part of SS-61 and in order to obtain funding, the area was declared site SS-72 (SWMU 116). FY-06 funding for field investigations was received in March 2006. A work plan to address the nature and extent of the TCE will be prepared and submitted to NMED in Q2 or Q3 of 2006.

2.8 SWMU-123 POL Yard

Excavation of PCS beneath the canopy was completed in January 2006. Special fill material was backfilled beneath the canopy to prevent structural damage. A total of approximately 2220 cubic yards of PCS was taken from the site and transported to the FT-31 Landfarm for treatment. In February 2006, the concrete and asphalt were replaced at the site and the facility was returned to service. Additional characterization efforts at nearby site SWMU 122 will include additional groundwater characterization required at this site. Funding for this effort is programmed for FY 2007.

2.9 SS-57 Officer's Club

In January 2006, NMED issued a letter of NOD and comments regarding the risk assessment at the site. The comments in the NOD directed the Base to revise the risk assessment into an RFI report. The RFI report including the risk assessment was submitted to NMED in March 2006

No change since the previous quarter. NMED may require the Base to repackage the data and risk assessment as an RFI report. If approved, the risk assessment would eliminate the need to remove inaccessible soil from the site. HAFB is awaiting a response from NMED.

2.10 Hospital Emergency Generator UST (AOC-S)

In January 2006, NMED issued an NOD letter and comments regarding the VCM report for AOC-S. The comments directed HAFB to collect and analyze at least one groundwater sample from the immediate area of the UST pit. The collection of a groundwater sample is scheduled for May 2006. When the sample has been collected and analyzed, it will be submitted with a revised VCM report (anticipated July 2006).

2.11 Corrective Action of Landfills (SWMUs 101, 104, 109, 105, 108, 115, 116 & 113B)

Headquarters (Air Combat Command) for Holloman AFB assigned these sites to HGL, Inc. under the performance based contract (PBC) program. HGL submitted a work plan to NMED for the interim corrective actions in July 2005 and implemented the soil gas and geophysical investigations at these sites without waiting for NMED comments on the work plan. HGL received NMED comments in January 2006 and presented rebuttals to NMED during a February 2006 meeting. The meeting resolved issues and HGL will trench several of these "debris piles" as requested by NMED. Also, NMED, HGL and representatives of ACC toured these sites during the February 2006 meeting. Field work is expected to begin in Q2 2006.

2.12 Corrective Action at 11 sites (SS-06, SS-12, OT-03, OT-20, OT-45, OT-35, OT-37, OT-38, SS-18, OT-32, RW-42)

Funding was awarded in February 2006 for these sites. In March 2006 preparations for work plan development began. Work plans should be submitted to NMED in Q2 2006. The majority of these sites require some additional characterization and the removal of PCS to complete site close out.

2.13 Initial Characterization (RFI) Efforts at Seven Sites (SS-65, SS-66, SS-67, SS-68, SS-69, RW-70, TU-71)

These sites were not investigated during the Table 1, 2 and 3 RFIs. Funding was awarded in February 2006 for these sites. In March 2006 preparations for work plan development began. Work plans should be submitted to NMED in Q2 2006. It is possible that some sites may not exist. For others, their exact location is not certain. It is possible that some of these site designations may be an alias for already characterized sites. The first phase of effort for these sites is to determine their location and status.

2.14 VCM at DP-63 (AOC-3) Ammunition Disposal Site

This site is undergoing VCM to remove UXO, PCS and ACM materials. VCM activities were initiated in late 2005 with the purpose of removing UXO and PCS. However, ACM was detected in the burn pits undergoing excavation. The project was suspended in order to cross train personnel to handle both UXO and ACM. Field work resumed in February 2006.

2.15 VCM at DP-64 (AOC-1) Chemical Agent Site

The Chemical Agent Site was investigated by a team from the USACE Huntsville chemical weapons group in 2004. The investigation team scoured the area to detect and remove any other remaining training vials. The team submitted a report documenting the removal and/or clearance of the site for any additional chemical weapons training vials in 2005. In January 2006, NMED issued a NOD letter and comments regarding the report. NMED is requiring that a RFI be conducted at the site to assure that no additional hazardous constituents exist in soil and groundwater at the site. HAFB has programmed funding in FY 2007 to address these concerns and move the site to closure.

3.0 ACTIVITIES FOR SCHEDULED FOR THE NEXT QUARTER

Activities for the next quarter (Second Quarter, April 1 to June 30, 2006) will include:

1. Continued operation of the FT-31 and T-38 PCS land farms.
2. Continuation of excavation and treatment of soil from Site SS-59 (T-38 Test Cell Site).
3. Submittal of the revised FT-31 VCM report.
4. Continuation of excavation and PCS treatment from Site SS-17 (the Old BX Service Station).
5. Meetings related to the Triad approach to the investigation of SWMU 183, the Base sewer system. Testing of the groundwater profiler device for the Triad investigation.
6. Assessment of conditions at SS-72 in order to develop a work plan for the site.
7. Trenching of the Landfills (debris piles) LF-19, LF-21, LF-22, and LF-23.
8. Submittal of the revised VCM report for FT-31 (the Old Fire Training Area).

4.0 CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to be the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

David Griffin

Name

49 CES/CEVR

Organization

Remedial Project Manager

Position

05/17/06 David Griffin

Signature/Date

TABLE 1
QUARTER 1, 2006 STATUS SUMMARY
(January 1 to March 31, 2006)
ONGOING CORRECTION ACTION SITES
HOLLOMAN AIR FORCE BASE, NEW MEXICO

SWMU NO.	SITE NAME	SITE STATUS	ACTIVITIES CONDUCTED (THIS PERIOD)	SCHEDULED ACTIVITIES
39,127,135, 170 & 171	Fire Training Area (ERP Site FT-31)	Field Activities Complete	Collected additional groundwater samples from monitoring wells requested in the NOD response to the February 2005 Draft Final VCM Report.	Deliver revised report with additional characterization data and revisions requested to NMED in April 2006
123	Building 704 Waste Oil Tank (ERP Site N/A)	Undergoing Corrective Action	Completed remaining PCS excavation and treatment. Backfilled and compacted excavation. Replaced the concrete apron and pavement. Completed PCS treatment at the FT3 Landfarm.	Requested and programmed funding for FY2007 for work at nearby SWMU 122. This effort will address groundwater assessment remaining at this site.
183	Air Base Sewer System	Site Requires Additional Characterization	Began strategic planning for the RFI of the sewer system using the USEPA Triad approach. Compiled database containing all known information regarding industrial outfalls to the system.	Prepare conceptual model and develop work plan. Anticipate delivery to NMED in Q3 2006.
141	Pad 9 Wash Rack ERP Site	Site Requires Additional Characterization	No Change since previous quarter. Work plan complete and approved by NMED in 2004. Air Combat Command Headquarters awarded the project to Performance Based Contractor (PBC) contractor HGL, Inc.	Field work will be performed in FY06. Anticipate HGL to award the project to the onsite contractor or self perform work.
SWMU 82	Wash Rack Leach Field (ERP Site SD-08)	Site Requires Additional Characterization	None. Received letter approving revised work plan on December 29, 2005. Awaiting funding to proceed with the investigation.	Field work will be performed when FY2007 funding is released.

TABLE 1
QUARTER 1, 2006 STATUS SUMMARY
(January 1 to March 31, 2006)
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HOLLOMAN AIR FORCE BASE, NEW MEXICO

229	T-38 Test Cell (ERP Site SS-59)	Undergoing Corrective Action	Initiated removal of clean overburden at the site in order to access PCS. Work on the excavation is moving northward. Awaiting renewed funding for FY2006	Awaiting award of FY 2006 funding. Anticipate funding during Q2 2006.
AOC-2	North Tower Site	Investigation	Received NFA letter from NMED.	Place site on 2006 Permit Modification Statement of Basis. Planning for well abandonment in Q2 2006
AOC-Q	BX Service Station (ERP Site SS-17)	Undergoing Corrective Action	Resume PCS removal during this quarter. Filled landfarm with one lift (approximately 2900 cubic yards)	Anticipate continued excavation and treatment of PCS with remaining funding. Expect funding to last until Q2/Q3 2006.
AOC-T	Main POL Spill (EPR Sites SS-02 and SS-05)	Undergoing Corrective Action	Collected groundwater samples from additional monitoring wells installed in December. Analytical results indicate delineation of groundwater impact is complete. However, 1 well north of the excavation, S1-MW-3, contains benzene above the NMWQCC standards. Additional characterization in this area is planned.	Delineate extent of groundwater impacts north of the excavation using a groundwater profiler. Anticipate investigation in Q2, 2006.
AOC-V	Officer's Club (EPR Site SS-57)	Undergoing Corrective Action	Received NOD from NMED in January 2006 regarding the Risk Assessment at the site. NMED wants the risk assessment and supporting documentation repackaged as RFI Report.	Anticipate repackaging the submittal to NMED in March 2006

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HOLLOMAN AIR FORCE BASE, NEW MEXICO

LF-10 LF-19 LF-21 LF-22 LF-23 LF-29 DP-30/SD-33	Various Landfills	Corrective Action Interim Corrective Action	Received NOD comments from NMED regarding the work plans from investigation and corrective actions at these sites as prepared by the PBC contractor, HGL, Inc. HGL presented their responses to comments and the results of the geophysical and soil vapor surveys during a February 2006 meeting with NMED in Albuquerque.	HGL will schedule field work at these sites in Q2 and Q3 2006.
AOC-1	Chemical Agent Site (ERP Site DP-64)	Undergoing Corrective Action	Received NOD and comments on the chemical agent removal report from NMED in January 2006. Comments direct the base to perform an RFI at the site.	None. Awaiting FY 2007 funding to perform RFI.
AOC-3	Ammunition Disposal Site (ERP Site DP-63)	Undergoing Corrective Action	Revised the work plan to address ACM in the excavations. Resumed field work in February 2006 to remove additional UXO, PCS and ACM.	Prepare VCM Report
AOC-4	West POL Fuel Spill Site	Corrective Action Complete	None this quarter	Anticipate preparing a Risk assessment for PCS remaining beneath the tank farm. Awaiting comments on the Site SS-57 risk assessment from NMED before proceeding.
AOC-S	Hospital UST (Emergency Generator)	Undergoing Corrective Action	Received NOD letter and comments from NMED in January 2006. The NOD requests that at least one groundwater sample be collected from an area adjacent to the UST tank pit.	Anticipate collecting additional groundwater data in Q2 2006.

TABLE 1
QUARTER 1, 2006 STATUS SUMMARY
(January 1 to March 31, 2006)
ONGOING CORRECTION ACTION SITES
HOLLOMAN AIR FORCE BASE, NEW MEXICO

SS-61	Building 1001 (Formerly site AOC-1001)	Undergoing Corrective Action	Received comments from NMED in January 2006 regarding the Monitored Natural Attenuation Report for SS-61 (May 2005) and the Additional Groundwater Monitoring Work Plan for SS-61 (May 2005). Requested extension from NMED to evaluate the site in accordance with the new risk based and permit driven strategy for evaluation groundwater across HAFB. This strategy was presented in the February 2006 routine meeting between HAFB and NMED.	Develop an approach for SS-61 to remove the source of the groundwater impacts (most likely from the abandoned piping) Additional funding requested in FY 2007 to perform the additional work.
SS-06 SS-12 OT-03 OT-20 OT-45 OT-35 OT-37 OT-38 SS-18 OT-32 RW-42	POL Fuel Line Spill West POL Fuel Line Spill Site The POL Tank Sludge Burial Sewer Sludge Disposal Trenches at WP-49 Sewage Lagoons Disposal Trench Old Age Refueling Station Spent Solvent Disposal Area Early Missile Testing Site Test Sled Maintenance Area Chromic Acid Spill Site Collapsed PRA Sewer Lines Radioactive Waste Burial Site	Undergoing Corrective Action Interim Remedial Action	Received funding for these sites in February 2006. Began Developing VCM strategies for the sites at the end of Q1.	Anticipate presenting strategies for VCM activities for these sites to NMED in Q2 2006.
SS-65 SS-66 SS-67 SS-68 SS-69 RW-70 TU-71	Building 807 Test Cell Spill Building 835 Building 903-909 Sandblast Residue Asphalt Tank Spill Area Fighter Wing Flight Line Spill Building 18, Product Storage Tank Leaking Underground Storage Tank.	Undergoing Corrective Action RFI	Received funding for these sites in March 2006. To date, no investigations have been conducted at these sites. They are listed on the RFA for the Base. These sites require preliminary assessment to determine their status. Some will require initial site investigation to determine if hazardous constituents are present.	Anticipate activity at these sites in Q3 and Q4 2006