



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 377TH AIR BASE WING (AFMC)

5/21/96
ENTERED

22 July 1996

377 ABW/EMR
2000 Wyoming Blvd SE
Kirtland AFB NM 87117-5659

Mr. Benito Garcia, Chief
Hazardous & Radioactive Materials Bureau
New Mexico Environment Department
PO Box 26110
Santa Fe NM 87502

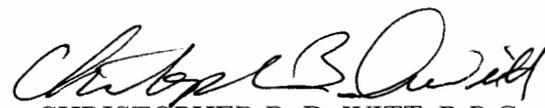
Dear Mr. Garcia

Enclosed are two additional quarterly contractor reports. These are in addition to those I forwarded on 17 July 1996. I apologize for the delay in forwarding the reports-- we attempted to obtain these electronically (a "new" idea whose time has come) but system glitches are delaying submissions.

In the future, we would like to save paper (trees!) and mailing costs, and send the next quarter's report via e-mail. If this is not acceptable, please let us know as soon as possible, or we will assume e-mail format can be used.

Again, next quarter's report will be properly formatted and consolidated according to the example sent by Mr. Pullen. Please contact me at (505) 846-0053 if you have any questions.

Sincerely


CHRISTOPHER B. DEWITT, R.P.G.
Chief, Restoration Branch
Environmental Management Division

Attachment:
Quarterly Reports

cc:
NMED-HRMB (Mr. Pullen)
EPA Region 6 (Ms. Morlock)

KAFB1791





FOSTER WHEELER ENVIRONMENTAL CORPORATION

July 12, 1996
TERC-0007.005-96-083

Ms. Janet Riccobuano
377 ABW/EMR
2000 Wyoming Blvd. SE
Kirtland AFB, NM 87117-5659

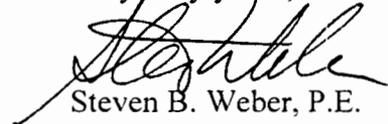
**SUBJECT: IRP QUARTERLY PROGRESS REPORT FOR SECOND QUARTER 1996
 KIRTLAND AFB, NEW MEXICO
 TERC CONTRACT NO. DACW45-94-D-0003, DELIVERY ORDER NO. 7, WORK
 AUTHORIZATION DIRECTIVE NO. 5**

Dear Ms. Riccobuano:

Enclosed for your use please find one copy of the IRP Quarterly Report for the second quarter of 1996. This report addresses requirements stipulated in Kirtland AFB's RCRA/HSWA permit.

An electronic version of the report has been sent to you via e-mail. If you have any questions regarding the report or require additional information, please call me at (505) 878-8912.

Very truly yours,


Steven B. Weber, P.E.
Delivery Order Manager

Enclosure

cc: L. Janis, USACE-Omaha
 TERC File, Denver

**STATUS REPORT FOR SOUTHWEST TERC ACTIVITIES
AT KIRTLAND AIR FORCE BASE
U.S. ARMY CORPS OF ENGINEERS (USACE) CONTRACT DACW45-94-D-0003
APRIL 1, 1996 THROUGH JUNE 30, 1996**

**Prepared by Foster Wheeler Environmental Corporation
July 12, 1996**

Activities supporting the Kirtland Air Force Base (KAFB) Installation Restoration Program (IRP) were conducted during this reporting period under four delivery orders, Delivery Orders 5, 7, 10, and 12 (DO 5, DO 7, DO 10, and DO 12). The total scope of IRP work under this contract is further divided into three work authorization directives (WADs) for DO 5, eight WADs for DO 7, one WAD for DO 10, and three WADs for DO 12. Each delivery order is discussed in a separate section of this report.

I. Delivery Order 5

All WADs were inactive during this reporting period except for on-going project management support of the KAFB IRP, including contract close-out of this DO. Technical work performed as part DO 5 was completed during the fourth quarter of 1995.

I.1 Technical Progress

The radiological sites characterization report was submitted to KAFB in draft form during the fourth quarter of 1995. Finalization of the report will be performed under DO 7 WAD 5.

I.2 Planned Activities

With the completion of all WADs during the fourth quarter of 1995, DO 5 contract close-out activities were performed. Additional close-out activities are necessary over the next several months to satisfy all administrative requirements for close-out.

I.3 Problems Encountered/Proposed Solutions

There were no problems encountered during the reporting period.

I.4 Key Personnel Changes

There were no key personnel changes during the reporting period.

I.5 Schedule

Remaining DO 5 close-out activities will be accomplished during the remainder of 1996.

I.6 Budget

A comparison of the accumulated cost through the end of the reporting period with the budget is presented below.

	<u>Budget</u>	<u>Accumulated Cost</u>
WADs 3/5/7	\$335,116	\$332,999

II. DELIVERY ORDER 7

Five of the eight WADs included in DO 7 were active to support the IRP during this reporting period and consisted of the following work:

- WAD 1 - Project Planning
- WAD 3 - Field Investigations
- WAD 5 - Project Reports
- WAD 11 - Long-term Groundwater Monitoring
- WAD 13 - Meeting Support

II.1 Technical Progress

WAD 1 - Project Planning

Project planning efforts focused upon responding to EPA Region 6 and NMED comments to the Base-Wide Plans for the Installation Restoration Program (Final, March 1995) and producing a Draft Final Appendix I (Phase 2) RFI Sampling and Analysis Plan (SAP). All comments from EPA Region 6 and NMED were addressed and responses to comments were issued. By responding to the comments, the Base-Wide Plans are considered acceptable for approval by the regulators.

With approved Base-Wide Plans in place, the regulators will have a basis for commenting on the Draft Final Appendix I (Phase 2) SAP (May 1996). The SAP details the procedures, methodology, and rationale for conducting the Phase 2 RFI work at the Appendix I sites, which were investigated previously but require further investigation on the basis of a Notice of Deficiency from EPA Region 6. Further details regarding the implementation of the SAP are provided in the discussion for WAD 3.

WAD 3 - Field Investigations

Work on WAD 3 commenced in June 1996 with pre-mobilization activities for the Appendix I (Phase 2) RFI. These activities focused upon a review and analysis of site aerial photographs and planning for execution of the Appendix I (Phase 2) RFI SAP. Work on this project will continue through the fourth quarter of 1996.

Work on the Appendix I (Phase 2) RFI project currently spans two separate DOs, including this WAD and DO 12 WAD 1. To avoid confusion, project details will be provided as part of DO 7 WAD 3 and the project write-ups for the other DO will reference those details accordingly.

WAD 5 - Reports

All comments to the Draft Radiological Characterization Report, which was prepared as part of DO 5 and will be finalized as part of DO 7 WAD 5, have not been received.

A progress report for the first quarter of 1996 was prepared as part of this WAD.

The Appendix I (Phase 2) RFI report will be prepared as part of this WAD after completion of field investigation activities.

WAD 11 - Long-term Groundwater Monitoring

This WAD was re-structured during the reporting period in response to new directives given from KAFB. Specifically, new wells were added to sites, well locations were reconfigured at some sites, the analytical suite was expanded, an out-of-cycle sampling event was added for compliance purposes at one site, and new sampling methodologies using low flow pumping were added. The current scope of work covers sampling, analysis, report generation, and disposal of liquids for two regular quarterly monitoring events and one out-of-cycle event, which should last through the fourth quarter of 1996.

During the reporting period, USACE and KAFB comments to the Draft Final Long-Term Groundwater Monitoring Plan (October 1995) were responded to and the Draft Final plan was submitted in April 1996. Dedicated sample pumps, tubing bundles, and purge water tanks were installed at each of the LTM sites during April and May 1996. The first quarterly sampling event occurred at the end of May 1996. Laboratory analysis of the first quarter samples started at the end of May 1996 and continued through June 1996.

Work on the LTM project currently spans three separate DOs, including this WAD, DO 10 WAD 9, and DO 12 WAD 5. To avoid confusion, project details will be provided as part of DO 7 WAD 11 and the project write-ups for the other DOs will reference those details accordingly.

WAD 13 - Meeting Support

This WAD is intended to support scoping meetings and discussions leading to WAD-specific cost estimates. Meetings were held to support partnering with the EPA Region 6 and NMED and to provide budgetary estimates for Fiscal Year 1997 (FY97) work on the LTM project and a potential Interim Corrective Measure (ICM) at Landfill No. 2 (LF-02).

Three partnering sessions were conducted during the last reporting period. The focus of the partnering sessions was use of presumptive remedies at sites and KAFB's ability to work within the existing RCRA permit to affect early action and cleanup of sites. Conference calls with representatives from EPA Region 6, NMED, KAFB, and IRP contractors were conducted to discuss issues and to establish action items in anticipation of presenting an approach to the public during the quarterly Environmental Working Group (EWG) meeting in May 1996. A partnering session was held immediately prior to the EWG meeting, and the recommended use of ICMs to affect early action was presented. Directive to perform trial ICMs at selected sites using remedies that have been applied presumptively elsewhere should be given to KAFB during the third quarter of 1996.

In support of FY97 planning efforts, Foster Wheeler Environmental Corporation provided budgetary estimates for anticipated work efforts on two projects. Budgetary costs were provided for FY97 LTM efforts, including modification to the work plan, expansion of sites and wells, and continuation with quarterly sampling, analysis, reporting, and purge water disposal. Additionally, budgetary estimates to perform an ICM at LF-02 were provided. The conceptual work scope includes engineering and construction of a flood protection wall along Tijeras Arroyo and a natural soil cover system over the entire landfill to raise the elevation over the 100-year flood line.

II.2 Planned Activities

WAD 1 - Project Plans

The Base-Wide plans and the Appendix I (Phase 2) SAP were finalized during the second quarter of 1996. No further planning efforts are anticipated during the next reporting period.

WAD 3 - Field Investigations

The Appendix I (Phase 2) RFI will continue during the third quarter and is scheduled for completion during the fourth quarter of 1996.

WAD 5 - Reports

Pending receipt of comments to the Draft Radiological Sites Characterization Reports, final versions will be issued during the third quarter of 1996.

Quarterly progress reports will be prepared after the completion of each quarter.

The Appendix I (Phase 2) RFI will commence with the completion of field work during the fourth quarter of 1996 and continue through much of 1997.

WAD 11 - Long-term Groundwater Monitoring

LTM Quarter 1 analyses will be completed and the LTM Quarter 1 report will be drafted during the third quarter of 1996. The out-of-cycle compliance sampling event at LF-08 with associated laboratory analysis, reporting, and purge water disposal will commence during the third quarter and end during the fourth quarter of 1996. LTM Quarter 2 project activities will commence during the fourth quarter of 1996 and end early in 1997.

WAD 13 - Meeting Support

Meetings will be held as necessary to define the work scope of new WADs or changes to existing WADs.

II.3 Problems Encountered/Proposed Solutions

WAD 1 - Project Planning

No new or on-going issues.

WAD 3 - Field Investigations

No new or on-going issues.

WAD 5 - Reports

No new or on-going issues.

WAD 11 - Long-Term Groundwater Monitoring

No new or on-going issues.

WAD 13 - Meeting Support

No new or on-going issues.

II.4 Key Personnel Changes

There were no key personnel changes during the reporting period.

II.5 Schedule

Refer to Section II.2 for schedule information regarding planned project activities.

II.6 Budget

	<u>Budget</u>	<u>Accumulated Cost</u>
WAD 1	\$220,637	\$205,492
WAD 3	\$884,145	\$155,342
WAD 5	\$342,914	\$1,120
WAD 11	\$333,895	\$204,976
WAD 13	\$99,326	\$99,110

III. Delivery Order 10

WAD 9 represents a continuation of LTM activities described for DO 7 WAD 11. The budget in this WAD is used to support project activities initiated as part of that effort.

III.1 Technical Progress

Refer to Section II.1 for details regarding technical progress of LTM activities.

III.2 Planned Activities

Refer to Section II.2 for details regarding planned activities for the LTM program.

III.3 Problems Encountered/Proposed Solutions

Refer to Section II.3 for details regarding problems encountered/proposed solutions for the LTM project.

III.4 Key Personnel Changes

Refer to Section II.4 for details regarding key personnel changes on the LTM project.

III.5 Schedule

Refer to Section II.5 for details regarding schedule issues for the LTM project.

III.6 Budget

A comparison of the accumulated cost through the end of the reporting period with the budget is presented below.

	<u>Budget</u>	<u>Accumulated Cost</u>
WAD 9	\$15,241	\$0

IV. Delivery Order 12

Three WADs are included in DO 12. Each of the WADs represents a continuation of work initiated as part of DO 7. WAD 1 is a continuation of field investigation activities covered under DO 7 WAD 3, WAD 3 is a continuation of reporting activities covered under DO 7 WAD 5, and WAD 5 is a continuation of LTM activities covered under DO 7 WAD 11 as well as DO 10 WAD 9.

IV.1 Technical Progress

Refer to Section II.1 for details regarding technical progress of field investigation, reporting, and LTM activities.

IV.2 Planned Activities

Refer to Section II.2 for details regarding planned activities for field investigation, reporting, and LTM activities.

IV.3 Problems Encountered/Proposed Solutions

Refer to Section II.3 for details regarding problems encountered/proposed solutions on field investigation, reporting, and LTM projects.

IV.4 Key Personnel Changes

Refer to Section II.4 for details regarding key personnel changes on field investigation, reporting, and LTM projects.

IV.5 Schedule

Refer to Section II.5 for details regarding schedule for field investigation, reporting, and LTM activities.

IV.6 Budget

A comparison of the accumulated cost through the end of the reporting period with the budget is presented below.

	<u>Budget</u>	<u>Accumulated Cost</u>
WAD 1	\$826,371	\$0
WAD 3	\$161,147	\$0
WAD 5	\$88,437	\$0



July 22, 1996

Project No. 765604.10.01.06.01

Ms. Janet Riccobuano
377 ABW/EMR
2000 Wyoming Blvd., SE
Kirtland AFB, NM 87117-5659

IRP Quarterly Progress Report for Second Quarter 1996, Kirtland AFB, New Mexico

Dear Ms. Riccobuano:

Enclosed for your use please find one copy of the IRP Quarterly Report for the second quarter of 1996. This report addresses requirements stipulated in Kirtland AFB's RCRA/HSWA permit.

Please call me at (505) 262-8956 if you have any questions regarding the enclosed report or require additional information.

Respectfully submitted,

IT CORPORATION

A handwritten signature in cursive script, appearing to read 'Mark A. Gardiner'.

Mark Gardiner
Project Manager

Enclosure

cc: R. Arnold, AFCEE/ERD
J. Razor, IT-KNX

AL07-96/RC-MQ.033

Regional Office
5301 Central Avenue, N.E., Suite 700 • Albuquerque, New Mexico 87108-1513
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IT Corporation is a wholly owned subsidiary of International Technology Corporation

**STATUS REPORT FOR IT CORPORATION ACTIVITIES
AT KIRTLAND AIR FORCE BASE
CONTRACT F41624-94-D-8047/0033
APRIL 1, 1996 THROUGH JUNE 30, 1996**

**Prepared by IT Corporation
July 15, 1996**

Activities supporting Kirtland Air Force Base (AFB) Installation Restoration Program (IRP) during this reporting period under Delivery Order (DO) 33, including Modification 01 (Mod 1). The activities for DO 33 and Mod 1 are discussed separately below.

I. DO 33

The primary task under DO 33 is to complete a site investigation of Site RW-75, South Tijeras Trench. The investigation includes a pre-survey, surface geophysical and radiological surveys, and reporting activities.

I.1 Technical Progress

The project was initiated in this quarter with preparation of the site investigation work plan addendum to the Kirtland AFB Base-wide Plan. A pre-survey task was completed which included acquisition, review, and interpretation of aerial photographs of the area of concern. A geophysical and surface radiological survey were initiated on June 21, 1996.

I.2 Planned Activities

The geophysical and radiological surveys will be completed in early July 1996. Following interpretation of the data, the intrusive investigation will be conducted in late August 1996.

I.3 Problems Encountered/Proposed Solutions

There were no problems encountered during the reporting period.

I.4 Key Personnel Changes

There were no key personnel changes during the reporting period.

I.5 Schedule

It is anticipated that analytical data from the intrusive investigation will be available by the end of September 1996, and the reporting process can be initiated. The Proof Copy report will be submitted to Kirtland AFB in mid-October 1996. The planned completion date of the scope of work for DO 33 is January 31, 1996.

I.6 Budget

A comparison of the accumulated cost through the end of the reporting period with the budget is presented below.

<u>DO</u>	<u>Budget</u>	<u>Accumulated Cost</u>
33	\$199,914	\$97,101

II. DO 33 Mod 1

There are two primary tasks under Mod 1 to DO 33. Task 1 is to provide support for background issues; Task 2 is to complete two rounds of groundwater sampling from monitoring wells associated with the Sewage Treatment Lagoons and the Golf Course Ponds and complete a Closure Certification report.

II.1 Technical Progress

Task 1

The task was initiated in this quarter. The process to procure transducers for groundwater monitoring wells in the "Sandia North" investigation area was initiated. These transducers will be provided to Sandia National Laboratories/New Mexico (SNL/NM) for installation by SNL/NM field staff. Also, preparation of a bid package was begun for conducting drilling activities in SNL/NM Technical Area (TA) II. The purpose of the transducers and the drilling activities is to support the investigation into the origin of a suspected TCE plume under Sandia North, as part of the joint SNL/NM - Kirtland AFB background study.

Task 2

The task was initiated in this quarter with the first round of groundwater sample collection. Samples were collected from two of the wells during the week of June 24, 1996.

II.2 Planned Activities

Task 1

The procurement of the transducers will be completed in early July 1996. It is anticipated that the transducers will be delivered to Albuquerque by August 1996. Bid packages will be distributed to the drilling companies by the end of July 1996, with a required bid date of August 7, 1996. The anticipated start date for drilling in SNL/NM TA II is August 19, 1996.

Task 2

The first round of groundwater sample collection will be completed in early July 1996. The clean closure report and certification will follow the second round of groundwater sample collection.

II.3 Problems Encountered/Proposed Solutions

Task 1

There were no problems encountered during the reporting period.

Task 2

Several of the wells were not sampled during the first round of groundwater sampling due to the critically low level of water in the wells. Water levels have declined steadily due to drought conditions in the area. There was inadequate water volume in the well to produce adequate, quality samples. The solution to the problem was to not sample the wells during this round.

II.4 Key Personnel Changes

There were no key personnel changes during the reporting period for either Task 1 or Task 2.

II.5 Schedule

Task 1

It is anticipated that the transducers will be procured and delivered to SNL/NM by the end of August 1996. The drilling activities in SNL/NM TA II will be completed in early September 1996. A report of the drilling activities and analytical results will be submitted to Kirtland AFB in early October, 1996. The planned completion date of the Mod 1 Task 1 scope of work is September 30, 1997.

Task 2

It is anticipated that analytical data from the first round of groundwater sampling will be available by the end of July 1996, and the reporting process can be initiated. The letter report transmitting the analytical results will be submitted to Kirtland AFB by the end of August 1996. The planned completion date of the Mod 1 Task 2 scope of work is January 31, 1996.

II.6 Budget

A comparison of the accumulated cost through the end of the reporting period with the budget for Mod 1 is presented below.

<u>Mod</u>	<u>Budget</u>	<u>Accumulated Cost</u>
01	\$183,620	\$1,268