



DEPARTMENT OF THE AIR FORCE
542D CREW TRAINING WING (AMC)

ENTERED

FROM: 542 CTW/EM
Kirtland AFB NM 87117-5000
1 Jul 92

SUBJ: Revised FY93 DERA Requirements/Documentation - Kirtland AFB


TO: HQ AMC/CEV (Mr Dietzel)

1. In our 8 May 92 submittal, we indicated we would provide a revised Defense Environmental Restoration Account (DERA) Budget. Atch 1-9 provide our revised FY93 DERA budget requirements totaling \$2.456 million, together with individual project narratives:

- a. List of FY93 Projects (Atch 1)
- b. FY93 Sites Receiving Site Investigations/Remedial Investigations Studies (SI/RI) [Atch 2]
- c. FY93 Salaries for 2 Installation Restoration Program (IRP) Environmental Scientists (ES) [Atch 3]
- d. FY93 DERA Administrative Assistance (Atch 4)
- e. FY93 DERA TDY (Atch 5)
- f. DERA WIMS-ES Computer System (Atch 6)
- g. Locate Mercury Disposal (Atch 7)
- h. RIP-RAP Arroyo at Landfill #2 (Atch 8)
- i. Identify/Investigate Abandoned USTs (Atch 9)

2. Atchs 1-9 represent a 542 CTW/EM, 542 SPTG/DEU, 542 CPTS/FMB coordinated submission. Our revised submittal reflects comments from you and Lt Forbes during June.

3. Please refer questions to Lt Col Pratt at DSN 246-0003.


THOMAS A. NORRIS, Colonel, USAF
Director
Environmental Management Division

9 Atchs
Described Above

cc: 542 SPTG/DEEV/DEU
542 CPTS/FMB



LIST OF FY93 DERA PROJECTS

	(\$000)
1. FY93 IRP Site Investigations/Remedial Investigations Studies (SI/RI) [MHMV 93-1086]	1,886.4
2. FY93 Salaries for 2 IRP Environmental Scientists (ES) [MHMV 93-1087]	88
3. FY93 Administrative Assistant [MHMV 93-1088]	20
4. FY93 DERA Travel [MHMV 93-1095]	20
5. WIMS-ES Computer System [MHMV 93-1090]	30
6. Locate Mercury Disposal [MHMV 88-0084]	12
7. RIP-RAP Control at Landfill #2 [MHMV 93-1094]	300
8. Identify/Investigate Abandoned USTs [MHMV 93-1096]	<u>100</u>

TOTAL: \$ 2,456.4

Atch

IRP SITE NARRATIVE DOCUMENTATION

(FY93)

PROJECT #: MHMV 93-1086

1. Installation: Kirtland AFB, NM (Air Mobility Command)
2. IRP Phase and Purpose of Study: Phase Site Investigation/Remedial Investigation (SI/RI) is required to rectify the sites listed below.
3. Background Information: Continue SI/RI to confirm and quantify contamination at these sites and to provide an appropriate remedial action plan or a "no further action" document.

a. Continued investigation and analysis began in FY91 at 26 sites with follow-on studies in FY92 addressing areas of particular concern from EPA Region 6 and several community groups. FY93 work will allow conclusions to be drawn on what level of remediation will be required so that work can be begin in FY94. Cost data for these sites are provided in paragraph 4 below.

b. Regulatory and community concerns resulted in significant cost increases at our largest landfills. Quarterly sampling costs and much more detailed report documentation were underestimated in earlier cost projections.

c. Contamination has been found to a depth of 10-20 feet at the main fire training site (FT-13). Plume definition will be conducted in FY93 to allow remediation to be started as early as possible.

d. Aerial photographs will be used to investigate some sites whose boundaries were never clearly defined or shifted during their use.

4. SITE ID	SITE NAME	PRIORITY	EST COST (000)
LF 01	Landfill No 1	1A	\$346.1
LF 02	Landfill No 2	1A	292.3
LF 07	Landfill No 3	1A	86.0
LF 08	Landfill No 4	1A	57.1
LF 09	Abandoned Landfill (Target Rd)	1A	12.0
LF 12	Landfill No 6	1A	57.1
FT 13	Fire Training Pit	1A	379.8
FT 14	Manzano Fire Training Pits	1A	10.0
FT 15	Landfill B	1A	10.0
WP 16	Wastewater Lagoons (Manzano Sludge Drying Beds 2)	1A	10.0
LF 18	Landfill A	1A	10.0
LF 20	Manzano Dump	1A	10.0

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<u>SITE ID</u>	<u>SITE NAME</u>	<u>PRIORITY</u>	<u>EST COST (000)</u>
RW 21	Rad Burial No 7	1A	42.4
LF 22	Landfill C	1A	10.0
SD 25	Drainage Ditch (Arroyo)	1A	10.0
WP 26	Golf Course Ponds	1A	96.2
SD 27	Golf Course	1A	10.0
OT 28	McCormick Ranch	1A	10.0
OT 29	EOD Range	1A	10.0
FT 39	Fire Training Pit Drains	1A	10.0
WP 40	Manzano Sewage Lagoon No 1	1A	10.0
WP 41	Manzano Sewage Lagoon No 2	1A	10.0
WP 42	Manzano Sewage Lagoon No 3	1A	10.0
WP 43	Manzano Sewage Lagoon No 4	1A	10.0
LF 44	Fill Area SE of Sewage Lagoons	1A	38.0
LF 45	Explosive Test Site Dump	1A	38.0
OT 46	Lake Christian	1A	94.0
RW 47	Rad Burial - Manzano Eastside	1A	38.4
ST 51	Effluent Transmission Line	1A	18.4
FT 52	Fire Training Jet Engine Burn	1A	34.4

TOTAL: \$1,732.0

5. EPA Region 6 has reversed its initial position not to investigate RW-06, RW-21, and RW-47. Cost for RW-06 is estimated to be \$104.4, and that for RW-21 and RW-47 are provided in paragraph 4 above.


6. We will need to prepare decision documents for a number of the sites in paragraph 4. We project approximately \$50K will be required for this task.

7. Estimated To Cost: paragraph 4 \$ 1,732.0 K
5 \$ 104.4
6 \$ 50.0

TOTAL: \$ 1,886.4 K

8. Agent: AFCEE/ERS

9. I have reviewed this requirement and certify that it meets the eligibility criteria for use of DERA funds.


THOMAS A. NORRIS, Colonel, USAF
Director
Environmental Management Division

IRP SITE NARRATIVE DOCUMENTATION

TECHNICAL ASSISTANCE

(FY 93)

PROJECT #: MHMV 93-1087

1. INSTALLATION: Kirtland AFB, NM (AIR MOBILITY COMMAND)
2. IRP PHASE AND PURPOSE OF STUDY: Technical assistance manpower is required in support of IRP studies and remedial actions. As the program progresses into the investigative and remediation phases a requirement exists for additional staffing to: (a) evaluate data; (b) provide guidance to base officials; (c) interface with regulatory and higher headquarters officials; and (d) address concerns of community groups to brief and interpret results. Two environmental scientists will provide guidance to the base and review of contractor work products for Site Investigations/Remedial Investigations/ Feasibility Studies (SI/RI) at 45 sites.
3. BACKGROUND INFORMATION: See paragraph 2 above.
4.

<u>Site ID</u>	<u>Site Name</u>	<u>Priority</u>	<u>Est Cost</u>
All Sites	All Sites	IRC	\$88,000
5. Agent: BKO
6. I have reviewed this requirement and certify that it meets the eligibility criteria for use of DERA funds.



THOMAS A. NORRIS, Colonel, USAF
Director
Environmental Management Division

IRP SITE NARRATIVE DOCUMENTATION


ADMINISTRATIVE ASSISTANCE

(FY 93)

PROJECT #: MHMV 93-1088

1. INSTALLATION: Kirtland AFB, NM (AIR MOBILITY COMMAND)
2. IRP PHASE AND PURPOSE OF STUDY: Administrative assistance manpower is required in support of IRP studies and remedial actions. As the program progresses additional community relations plan meetings are being held and related correspondence/minutes being generated. Data from initial Site Investigation/Remedial Investigation (SI/RI) studies at 45 sites are becoming increasingly difficult to maintain and extract on a real-time basis. The IRP administrative assistant will input and retrieve IRP data from a computerized registry to meet installation requirements and those of higher headquarters, regulatory officials, and citizen groups.
3. BACKGROUND INFORMATION: See paragraph 2 above.
4.

<u>Site_ID</u>	<u>Site_Name</u>	<u>Priority</u>	<u>Est_Cost</u>
All Sites	All Sites	IRC	\$20,000
5. Agent: BKO
6. I have reviewed this requirement and certify that it meets the eligibility criteria for use of DERA funds.


THOMAS A. NORRIS, Colonel, USAF
Director
Environmental Management Division

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IRP SITE NARRATIVE DOCUMENTATION

DERA TRAVEL

(FY93)

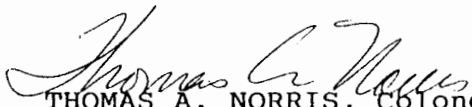
PROJECT #: MHMV 93-1095

1. INSTALLATION: Kirtland AFB, NM (AIR MOBILITY COMMAND)
2. IRP PHASE AND PURPOSE OF STUDY: Travel is required to meet with HQ MAC program manager as well the prime IRP contractor (AFCEE/ERS) located in Illinois and Texas respectively.
3. BACKGROUND INFORMATION: Periodic program reviews are required to determine the current status of the IRP program, adjust funding priorities, and modify strategies for interfacing with regulatory agencies, activist groups, and the media. Funding is required to send a Kirtland team as required to either HQ AMC (40 miles east of St Louis in Illinois) or AFCEE/ERS in San Antonio TX.

<u>Site ID</u>	<u>Site Name</u>	<u>Priority</u>	<u>Est Cost</u>
All Sites	All Sites	IRC	\$20,000

5. Agent: BKO

6. I have reviewed this requirement and certify that it meets the eligibility criteria for use of DERA funds.

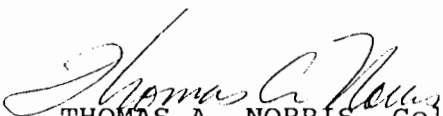

THOMAS A. NORRIS, Colonel, USAF
Director
Environmental Management Division

WIMS-ES COMPUTER SYSTEM

(FY93)

PROJECT #: MHMV 93-1090

1. Installation: Kirtland AFB, NM (Air Mobility Command)
2. IRP Phase and Purpose of Study: A stand alone Wang system is required to implement WIM-ES system for Kirtland AFB.
3. Background Information:
 - a. WIMS-ES is now being used to track IRP program status and costs. Recent higher headquarters guidance indicates that bases which do not input their IRP data will not receive funding for future projects. Although other computer systems are used at base and higher headquarters, only the Wang has been used to support the WIMS-ES.
 - b. Environmental Management and Civil Engineering are in separate parts of the base and cannot be linked due to distance, port limitations, and other factors.
 - c. The 542 GTW does not have funds due to an expanded wing mission and a large backlog of computer equipment requirements.
 - d. In addition to WIMS-ES, the new system will be used to run RACER, IRPIMS, etc.
 - e. The new system will be used to increase computer communication between HQ AMC and our office. Kirtland may have the only environmental office not currently having E-Mail and Wang-gram interface with HQ AMC. This hampers response to short suspense requirements of higher headquarters regarding funding, compliance, training, and other time sensitive matters.
4. Estimated To Cost: \$ 30,000
5. Agent: BKO
6. I have reviewed this requirement and certify that it meets the eligibility criteria for use of DERA funds.


THOMAS A. NORRIS, Colonel, USAF
Director
Environmental Management Division

IRP SITE NARRATIVE DOCUMENTATION

LOCATE MERCURY DISPOSAL - FY93

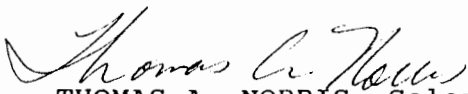
PROJECT #: MHMV 88-1094

1. INSTALLATION: Kirtland AFB, NM (AIR MOBILITY COMMAND)
2. IRP PHASE AND PURPOSE OF STUDY: Detect ,remove, and dispose of a mercury barrel allegedly buried in the vicinity of Radioactive Burial Site # 11 (IRP Site RW-06).
3. BACKGROUND INFORMATION: IRP Phase II data review and interviews indicated a barrel of mercury had allegedly been buried in the RB-11 area. No mercury vapors have been detected in this area, magnetometer readings indicate considerable amount of buried metal in this area. The proposed study will either identify and dispose of the mercury barrel or eliminate a requirement for further investigation.

<u>Site ID</u>	<u>Site Name</u>	<u>Priority</u>	<u>Est Cost</u>
RW-06	Radioactive Burial Site No 11	IA	\$30,000

5. Agent: BKO

6. I have reviewed this requirement and certify that it meets the eligibility criteria for use of DERA funds.



THOMAS A. NORRIS, Colonel, USAF
Director
Environmental Management Division

IRP SITE NARRATIVE DOCUMENTATION

RIP RAP CONTROL AT LANDFILL 2 (PHASE III) - FY93

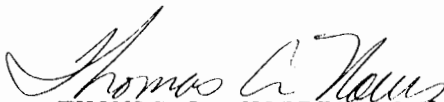
PROJECT #: MHMV 93-1084

1. INSTALLATION: Kirtland AFB, NM (AIR MOBILITY COMMAND)
2. IRP PHASE AND PURPOSE OF STUDY: Install rip rap along the southern boundary of Landfill (LF) #2 where Tijeras Arroyo comes in contact with the landfill boundary. This will reduce erosion-
al degradation of the southern 4500 foot boundary of the 3 acre site during infrequent periods of runoff from thunderstorms that take place at a high velocity and in a short time span.
3. BACKGROUND INFORMATION: LF #2 was operated from 1943 to 1965. It is located in the 100-500 year flood plain. The active Tijeras Arroyo channel is in contact with 4500 feet along the southern boundary of the landfill and has cut below the flood plain surface from 3-16 feet. For a 100 year flood event, about 80% of LF-02 would be covered by 2-3 feet of water. Landfill debris is exposed and appears of earth and inert material such as large cement blocks, boulders, tree stumps, etc. Lysimeters have been installed around the site and found no hazardous materials leaching from the site, but a subcontractor to the Atomic Energy Commission stated that from 1955 to 1967 he delivered a large quantity of liquid solvents and plastic wastes to the land fill for disposal in outlined trenches. Thus, this landfill is an important IRP site whose integrity must be carefully maintained through closure. During July 1967 a flood event with a discharge of 6,500 CFS occurred in the arroyo which corresponds to a 20 year flood. It is imperative that this south boundary be stabilized to keep water out of the landfill areas.

<u>Site ID</u>	<u>Site Name</u>	<u>Priority</u>	<u>Est Cost</u>
LF-01	Landfill # 2	IRC	\$300,000

5. Agent: BKO

6. I have reviewed this requirement and certify that it meets the eligibility criteria for use of DERA funds.


THOMAS A. NORRIS, Colonel, USAF
Director
Environmental Management Division

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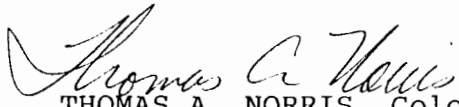
IRP SITE NARRATIVE DOCUMENTATION
IDENTIFY/INVESTIGATE ABANDONED UST's
(FY93)

1. INSTALLATION: Kirtland AFB, NM (AIR MOBILITY COMMAND)
2. IRP PHASE AND PURPOSE OF STUDY: Identify and investigate 55 underground storage tanks (USTs) abandoned prior to 1984.
3. BACKGROUND INFORMATION: Our inventory indicates that 55 UST's were abandoned at Kirtland prior to 1984. UST regulations require that abandoned tanks be removed and any soil contamination be identified and remediated.

<u>Site ID</u>	<u>Site Name</u>	<u>Priority</u>	<u>Est Cost</u>
All Sites	All Sites	IRC	\$100,000

5. Agent: BKO

6. I have reviewed this requirement and certify that it meets the eligibility criteria for use of DERA funds.


THOMAS A. NORRIS, Colonel, USAF
Director
Environmental Management Division