



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

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HSWA KAFB G/M JR

MEMORANDUM FOR MR. JAMES BEARZI, CHIEF
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
NEW MEXICO ENVIRONMENT DEPARTMENT
PO BOX 26110
SANTA FE NM 87502

15 November 1999

FROM: 377 ABW/EM
2050 Wyoming Blvd SE, Ste 126
Kirtland AFB NM 87117-5270

ea *(K)*

SUBJECT: Quarterly Report

1. We are submitting the quarterly RCRA Corrective Action report for the period July 1, 1999 through September 30, 1999, as required by the conditions set forth in our RCRA Part B Permit, Module IV, Section E.
2. Please contact me at (505) 846-2751 if you have any questions.

Christopher B. DeWitt
CHRISTOPHER B. DE WITT, R.P.G.
Director
Environmental Management Division

Attachment:
Quarterly Report

cc:
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KAFB2081



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Quarterly Report

**Kirtland AFB, New Mexico
July 1, 1999 through September 30, 1999**

I. INTRODUCTION

A. Pursuant to the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (RCRA), as amended by RCRA Statute (42 U.S.C. 6701, *et seq.*), as amended by the Hazardous and Solid Waste Amendments of 1984 (HSWA), a permit has been issued to Kirtland AFB to operate a hazardous waste disposal facility (ID No. NMD9570024423, October 10, 1990).

B. This Quarterly Report is consistent with the terms and conditions of the permit found under HSWA Module IV, Section E.

II. DESCRIPTION OF WORK COMPLETED

A. The following is a list of solid waste management units (SWMUs) and areas of concern (AOCs) investigated under the Installation Restoration Program (IRP) and the Environmental Compliance Program (ECP). Also listed are the site descriptions, relative risk, and status as of this quarter.

UNITS LISTED AS SWMUs ON RCRA PERMIT

SWMU No.	CAU No.	KAFB No.	DESCRIPTION	CURRENT PHASE
6-1	1	LF-001	Landfill No. 1	CMS
6-2	2	LF-002	Landfill No. 2	CMS/ICM
6-3	3	LF-007	Landfill No. 3	CMS
6-4	4	LF-008	Landfill 4, 5, & 6	CMS
		LF-268	Active Landfill	
6-7	5	LF-018	Landfill A	CMS
6-8	6	LF-015	Landfill B	CMS
6-10	7	LF-009	Abandoned Landfill	NFA-N
6-11	8	LF-044	Fill Area SE of Sewage Lagoons	NFA-N
6-14	9	ST-051	Sewage Effluent Line	NFA-N
6-15	10	LF-045	Unnamed Dump	NFA-N
6-16	11	FT-013	Kirtland Fire Training Area	NFA-N/ICM
6-19	12	OT-029	EOD Range	NFA-N
6-22	13	OT-046	Lake Christian	CMS/ICM
6-24	14	WP-016	Manzano Sewage Treatment Facility	NFA-N/ICM
6-29	15	LF-020	Manzano Landfill	CMS
6-30	16	RW-006	Radioactive Burial 11	CMS/ICM
6-31	17	OT-028	McCormick Ranch Range	CMS
6-32	18	FT-014	Manzano Fire Training Area	CMS/ICM
6-A1	19	RW-021	Radioactive Burial 7	NFA-N/ICM
6-A2	20	RW-004	Radioactive Holding Tank 4	NFA-N/ICM
	21	RW-005	Radioactive Holding Tank 5	NFA-N/ICM
	22	RW-017	Radioactive Holding Tank 6	NFA-N/ICM
	23	RW-019	Radioactive Holding Tank 8	NFA-N/ICM
	24	RW-023	Radioactive Holding Tank 9	NFA-N/ICM
8-5	25	ST-201	Oil/Water Separator, Bldg 255	NFA-N
8-6	26	WP-047	Silver Recovery Unit	NFA-N/ICM
8-13	27	ST-071	Bldg 1000/1001 Oil/Water Separator	CMS
		(Former ST-221)		
8-26	28	ST-242	Oil/Water Separator, Bldg 1063	NFA-N
		ST-243	Oil/Water Separator, Bldg 1063	

SWMU No.	CAU No.	KAFB No.	DESCRIPTION	CURRENT PHASE
8-28	29	ST-250	Oil/Water Separator, Bldg 20338	NFA-N
8-29	30	ST-251	Oil/Water Separator, Bldg 20344	NFA-N
8-31	31	ST-252	Oil /Water Separator, Bldg 20348	NFA-N
		ST-253	Oil/Water Separator, Bldg 20348	
8-35	32	ST-214	Waste Oil Storage Tank, Bldg 471	CMS/ICM
8-41	33	ST-274	Waste Battery Storage Area, Bldg 20423	NFA-N/ICM
8-47	34	ST-261	Oil/Water Separator, Bldg 20423	NFA-N
8-49	35	SS-061	Fuel Shop Wst Batt Strg, Bldg 20677	NFA-N
		(Former ST-265)		
8-53	36	ST-335	Pnt Shop Flr Drn to Rock Bed, Bldg 20681	NFA-N
8-55	37	ST-262	Oil/Water Separator, CE Bldg 20698	NFA-N
8-58	38	ST-321	Battery Storage Area, Bldg 57007	NFA-N
9-4	39	ST-276	Waste Accumulation Area, Bldg 617	RFI
9-14	40	ST-270	Buried Caustic Drain Line, Bldg 617	CMS
9-15	41	ST-271	Neutralization Pit, Bldg 617	CMS
9-16	42	ST-272	Evaporation/Infiltration Pond, Bldg 617	CMS
9-20	43	SS-062	Bldg 909 Waste Accumulation Area	CMS
		(Former ST-277)		
10-1	44	ST-278	Sanitary Sewer System A	NFA-N
	45	ST-279	Sanitary Sewer System B	NFA-N
	46	ST-280	Sanitary Sewer System C	NFA-N
	47	ST-281	Sanitary Sewer System D	NFA-N
	48	ST-282	Sanitary Sewer System E	NFA-N
	49	ST-284	Sanitary Sewer System G	NFA-N
	50	ST-327	Manzano Sanitary Sewer System	NFA-N
10-2	51	ST-220	Paint Shop, Bldg 1001, Storm Drain	NFA-N/ICM
			Pltng & Anodizing, Bldg 1001, Storm Drain	
	52	ST-325	H-3/H-53, Phase Dock, Bldg 1000 Flr Drns	NFA-N/ICM
	53	ST-325	Corrosion Cntrl Shop, Strm Drn, Bldg 482	NFA-N/ICM
	54	ST-329	Propulsion Branch Floor Drains, Bldg 336	NFA-N/ICM
	55	ST-331	C-130 Mntnc Shop, Bldg 1009, Strm Swr	NFA-N/ICM
	56	ST-285	West Storm Sewer System	NFA-N/ICM
I	57	ST-286	East Storm Sewer System	NFA-N/ICM
	58	SS-063	Jet Engine Test Cell	NFA-NI
		(Former ST-336)		
10-3	59	ST-249	Waste Oil Storage Tank, Bldg 20205	NFA-N
10-7	60	ST-204	Sediment Trap, Bldg 333	NFA-N
		ST-205	Oil/Water Separator, Bldg 333	
	61	ST-206	Oil/Water Separator, Bldg 336	NFA-N
		ST-207	Oil/Water Separator, Bldg 336	
		ST-208	Oil/Water Separator, Bldg 336	
		ST-209	Catch Basin, Bldg 336	
	62	ST-212	Oil/Water Separator, Bldg 381	NFA-N
		ST-213	Area Drain, Bldg 381	
	63	ST-217	Oil/Water Separator, Bldg 481	NFA-N
	64	ST-218	Oil/Water Separator, Bldg 482	NFA-N
	65	ST-222	Oil/Water Separator, Bldg 1031	NFA-N
		ST-223	Sewage Ejector Unit, Bldg 1031	
		ST-224	Area Drain, Bldg 1031	
		ST-225	Holding Tank, Bldg 1031	
	66	ST-226	Oil/Water Separator, Bldg 1037	NFA-N
		ST-227	Holding Tank, Bldg 1037	
	67	ST-228	Area Drain, Bldg 1040	NFA-N
	68	ST-229	Sewage Ejector Unit, Bldg 1043	NFA-N
	69	ST-230	Oil/Water Separator, Bldg 1046	NFA-N
		ST-231	Holding Tank, Bldg 1046	
		ST-232	Sewage Ejector Unit, Bldg 1046	
		ST-233	Area Drain, Bldg 1046	
	70	ST-234	Oil/Water Separator, Bldg 1051	NFA-N

SWMU No.	CAU No.	KAFB No.	DESCRIPTION	CURRENT PHASE
		ST-235	Oil/Water Separator, Bldg 1051	
		ST-236	Oil/Water Separator, Bldg 1051	
		ST-237	Area Drain, Bldg 1051	
	71	ST-238	Oil/Water Separator, Bldg 1056	NFA-N
		ST-239	Oil/Water Separator, Bldg 1056	
	72	ST-240	Holding Tank, Bldg 1058	NFA-N
	73	ST-241	Oil/Water Separator, Bldg 1061	NFA-N
	74	ST-244	Oil/Water Separator, Bldg 1064	NFA-N
		ST-245	Holding Tank, Bldg 1064	
	75	ST-246	Oil/Water Separator, Bldg 1070	NFA-N
	76	ST-254	Oil/Water Separator, Bldg 20365	NFA-N
	77	ST-255	Oil/Water Separator, Bldg 20375	NFA-N
		ST-256	Oil/Water Separator, Bldg 20375	
		ST-257	Oil/Water Separator, Bldg 20375	
	78	ST-259	Area Drain, Bldg 20422	NFA-N
	79	ST-263	Oil/Water Separator, Bldg 23226	NFA-N
	80	ST-264	Oil/Water Separator, Bldg 30142	NFA-N
	81	ST-267	Oil/Water Separator, Bldg 57007	NFA-N
10-21		ST-287	Bldg 525 Septic System	NFA-N
	82	ST-288	Bldg 614 Septic System, Chem Laser	NFA-N
		ST-289	Bldgs 617/620 Septic System, Chem Laser	
		ST-290	Bldg 619 Septic System, Chem Laser	
		ST-291	Bldg 617 Septic System, Chem Laser	
		ST-292	Bldg 622 Septic System, Chem Laser	
		ST-348	Building 610 Septic Tank	
		ST-349	Building 626 Septic Tank	
		ST-350	Field Office Septic Tank	
		ST-351	Building 635 Septic Tank	
		ST-352	Building 613/614 Septic Tank	
ST-273		ST-273	Bldg 618 Septic System, Chem Laser	
10-21	84	ST-294	Bldg 633 Septic System, FAA Facility	NFA-N/ICM
		ST-295	Bldg 638 Septic System, FAA Facility	
	85	ST-296	Bldg 702 Septic System, Rnge & Ammo	NFA-N
		ST-297	Bldg 707 Septic System, Rnge & Ammo	
		ST-298	Bldgs 730/734 Septic System, Rnge & Ammo	
		ST-299	Bldg 751 Septic System, Rnge & Ammo	
	86	ST-300	Bldg 20199 Septic System	NFA-N
	87	ST-301	Bldg 20560 Septic System	NFA-N
	88	ST-302	Bldg 20599 Septic System	NFA-N
	89	ST-303	Bldg 20749 Septic System	NFA-N
	90	ST-304	Bldg 20797 Septic System	NFA-N
	91	ST-305	Bldg 28054 Septic System	NFA-N
		ST-306	Bldg 28054 Septic System	
	92	ST-307	Bldg 30101 Septic System, Manzano Gate	NFA-N
		ST-315	Bldg 30102 Septic System, Manzano Gate	
	93	ST-308	Bldg 37511 Septic System	NFA-N
	94	ST-309	Bldg 37504 Septic System	NFA-N
	95	ST-310	Bldgs 37507/37508/37513 Septic System	NFA-N
		ST-322	Bldgs 37507/37508/37513 Septic System	
	96	ST-311	Plant 1 and Bldg 37501 Septic System	NFA-N/ICM
	97	ST-312	Plant 2 and Bldg 37503 Septic System	NFA-N
	98	ST-313	Bldgs 37529/37530 Septic System	NFA-N
	99	ST-293	Bldg 37570 Septic System	NFA-N
	100	ST-314	Bldgs 48056/48059 Septic System	NFA-N
		ST-353	Building 48057 Septic Tank	
		ST-354	Sheep Grooming Septic Tank	
		ST-355	Building 48062 Septic Tank	
	101	ST-316	Bldgs 57003/57012 Septic System, CERF	NFA-N
		ST-317	Bldg 57011 Septic System, CERF	

SWMU No.	CAU No.	KAFB No.	DESCRIPTION	CURRENT PHASE
ST-340		ST-340	Bldgs 57001 and 57002 Septic System, CERF	
10-21	102	ST-318	Bldg 37200 Septic System	NFA-N
	103	ST-319	Bldg 37541 Septic System	NFA-N
	104	ST-320	Bldg 20149 Septic System	NFA-N
	105	ST-323	Bldg 29042 Septic System	NFA-N
	106	ST-324	Bldg 29051 Septic System	NFA-N
	107	ST-330	Bldg 1032 Septic System	NFA-N
	108	ST-333	Bldg 66001 Septic System, SOR	NFA-N
		ST-342	Bldg 66029 Septic System, SOR	
		ST-343	Bldgs 66000/66008 Septic System, SOR	
		ST-344	Bldg 66042 Septic System, SOR	
		ST-345	Bldg 66006 Septic System, SOR	
	109	ST-346	Trestle Site Septic Tank	NFA-N
LF-56	110	LF-056	Landfill D	NFA-N
WP-58	111	WP-058	Bldg 20451, East Laundry	NFA-N/ICM
ST-59	112	ST-059	ART Drum	NFA-N/ICM
ST-60	113	ST-060	ART Pit	NFA-N/ICM
ST-64	114	ST-064	COE Vehicle Maintenance Yard	NFA/ICM
		(Former ST-337)		
SS-65	115	SS-065	Horizontal Dipole Drum Rack	NFA-NI/ICM
		(Former ST-338)		
ST-66	116	ST-066	Trestle Facility OWS and Pit	NFA-N/ICM
RW-68	117	RW-068	Radium Dump/Slag Pile & Cratering Area	NFA-Y/ICM
SS-69	118	SS-069	Drum Storage Area	CMS/ICM
ST-70	119	ST-070	Bldg 333/334 OWS & Sediment Trap	CMS
		(Former ST-202 & ST-203)		
	120	ST-070	Bldg 377 OWS, Tank, & Drying Rack	CMS/ICM
		(Former ST-210)		
	121	ST-070	Bldg 381, Oil/Water Separator	CMS
		(Former ST-211)		
	122	ST-070	Bldg 471, 2 Oil/Water Separators	CMS
		(Former ST-215 & ST-216)		
	123	ST070	Bldgs 481/482 Oil/Water Separator	CMS/ICM
		(Former ST-219)		
	124	ST070	Bldg 2637 Oil/Water Separator	CMS
		(Former ST-247)		
	125	ST070	Bldg 20205 Oil/Water Separator	CMS
		(Former ST-248)		
	126	ST070	Bldg 20375 Oil/Water Separator	CMS
		(Former ST-256)		
	127	ST-070	Bldg 20422 Oil/Water Separator	CMS
		(Former ST-260)		
ST-72	128	ST-072	Bldg 30146, MWSA Security Garage OWS	RFI/ICM
		(Former ST-265)		
ST 73	129	ST-073	CERF Drain	CMS
OT-74	130	OT-074	Pistol Range Sites	CMS
ST-326	131	ST-326	Waste Oil Storage Tank, Bldg 20375	CMS/ICM
WP-339	132	WP-339	Contractor Yard West of Bldg 20423	RFI
ST-341	133	ST-341	Condensate Tank, Bldg 1033	CMS/ICM

**UNITS NOT LISTED ON RCRA PERMIT
(Recommended but no Class I Modification)**

SWMU No.	CAU No.	KAFB No.	DESCRIPTION	CURRENT PHASE
N/A	134	SS-076	Fuel Tank Burn Area	NFA-N/ICM
N/A	135	SS-077	Abandoned Railroad Spur	RFI
N/A	136	SS-078	Water Tower Soils	RFI
N/A	137	SS-079	Bldg 381 Spill Site	RFI/ICM
N/A	138	ST-080	Bldg 30124, Auto Hobby Shop	RFI
N/A	139	SS-081	Bldg 907 Detention Pond and Yard	RFI
N/A	140	RW-084	Manzano Burial Sites	SAR/ICM
N/A	141	WP-087	Grab Site Waste Pile	RFI/ICM
N/A	142	DP-088	Trestle Site Disposal Area	RFI

**UNITS NOT LISTED ON RCRA PERMIT
(Recommended For No Further Action or Insufficient Data)**

SWMU No.	CAU No.	KAFB No.	DESCRIPTION	CURRENT PHASE
N/A	143	DP-067	Three Mine Shafts	NFA-N
N/A	144	SS-082	ALECS Facility	NFA-N/ICM
N/A	145	SS-083	Skeet Range and Landfill Road	NFA-N/ICM
N/A	146	OT-086	Former Small Arms Range	RFI
N/A	147	SS-089	Transportation Yard	SAR
N/A	148	SD-090	JATO Rocket Motor Disposal Site	SAR
N/A	149	OT-091	South Coyote Firing Site	SAR
N/A	150	DP-099	Bldg 29015 Disposal Pit	SAR
N/A	151	ST-328	Blast Overpressure Sites Cesspools	RFI
N/A	153	ST-100	Coyote Springs Cesspool	SAR
N/A	154	DP-101	Old EOD Disposal Pits	SAR
N/A	155	SS-102	ARES Test Facility	SAR
N/A	156	ST-347	Building 29015 Cesspool	SAR
N/A	154	ST-356	Skeet Range Septic Tank	SAR

**UNITS NOT LISTED ON RCRA PERMIT
(Not RCRA, But Require NMED Oversight or Review)**

SWMU No.	CAU No.	KAFB No.	DESCRIPTION	CURRENT PHASE
N/A	152	WP-026	Sewage Lagoons & Golf Course Pond	PC/ICM
N/A	N/A	OT-010	Radiation Training Sites 5-8	SC/ICM
N/A	N/A	RW-075	South Tijeras Rad Trench	SC
N/A	N/A	RW-085	Manzano Maintenance Bldg	SC

NFA-Y: No Further Action, Regulator Approved
 NFA-N: No Further Action, Pending Regulator Approval
 ICM: Interim Corrective Measure Completed or Underway
 SAR: SWMU Assessment Completed or Underway
 RFI: RCRA Facility Investigation Completed or Underway
 CMS: Corrective Measures Study Completed or Underway

P: NFA Planned for 2000
 PC: Pre Closure
 SC: Site Characterization
 CMI: Final Corrective Measure Underway
 CMD: Corrective Measure Design Underway

III. SUMMARY OF ACTIVITIES AND FINDINGS

A. SWMU Assessments and New AOCs:

1. SWMU Assessments:

- SWMU WP-339, Contractor Yard West of Bldg 20423 (WP-339): We submitted the work plan for a soil gas survey at a previously uncharacterized portion of the site.
- AOC DP-99, Building 29015 Disposal Pit: We began preparing the SWMU Assessment Report. Limited TPH contamination was found above soil screening levels.
- AOC OT-91, South Coyote Firing Site: We began preparing the SAR. Limited contamination (explosives, metals, and TPH) was found above soil screening levels. Sandia National Laboratories is conducting a technology demonstration at this site. The objective of the study is to generate a model that will derive radiation levels in pCi/gm from a direct-reading survey instrument (plastic scintillator). Study results are inconclusive at this time.

2. New AOCs:

- AOC SS-102, ARES Test Facility, CAU No. 155 (new): Building 20754 of the ARES Test Facility is located southeast of the East-West Runway in the northwest portion of Kirtland AFB. This building houses the facility's pulsar unit, which is used to study the effects of electromagnetic pulses (EMP) on various systems, devices, and instruments. The system utilizes dielectric oil as an insulation medium in this high voltage heat-generating environment. The dielectric is contained in a 1,500-gallon vessel inside the building and a 4,800-gallon vessel located outside the building with the two totally enclosed vessels connected by a diaphragm. Stained soil was recently discovered adjacent to the building, indicating that one or both of the tanks may have leaked.
- AOC ST-347, Building 29015 Cesspool, CAU No. 156 (new): This cesspool is located west of Building 29015 near the intersection of Lovelace Road and Mortar Range Road. Building 29015 was constructed as a hangar and served as a support facility for a dirt airfield located directly north. The dirt airfield was active in the 1940s and, upon cessation of airfield activities, the hangar was used by the Aero Club for a few years but now serves as a warehouse.

- AOCs ST-348 - ST-352, Additional 600 Area Septic Tanks to be added to Corrective Action Unit No. 83
 - ST-348, Building 610 Septic Tank: A 5,400-gallon septic tank system located east of Building 610, outside the fenced area. There appear to be two leach fields associated with this system.
 - ST-349, Building 626 Septic Tank: A 750-gallon septic tank system located approximately 150 feet north of Building 626 and east of Pad 1. This system is believed to have been installed in 1974.
 - ST-350, Field Office Septic Tank: A possible septic tank system located south of a portable field office west of Building 619. The leach field is adjacent to the office and is enclosed within a barbed wire fence.
 - ST-351, Building 635 Septic Tank: A possible 1200 gallon septic tank associated with the now-demolished Building 635 located south of Pad 1. This tank is depicted on an old base map with no other information available.
 - ST-352, Building 613/614 Septic Tank: A possible septic system located adjacent to Building 614 on the north side. The only indication of a possible septic system is a set of posts driven into the ground in a corner area near Buildings 613 and 614. This is a technique employed at various locations throughout the base as a means of protecting a septic tank installed below the ground surface.

- AOCs ST-353 - ST-355, Additional Riding Stables Area Septic Tanks to be added to Corrective Action Unit No. 100
 - ST-353, Building 48057 Septic Tank: A 500-gallon septic tank installed at an unknown date is associated with Building 48057. The building has a drain inside it, and there are drain ports located along the edge of a concrete slab that extends beyond the building. The drain and drain ports are connected to a septic tank located off the northeast corner of the slab. The facility was reportedly used for washing horses.
 - ST-354, Sheep Grooming Septic Tank: A septic tank is associated with a concrete slab located about 100 feet southeast of Building 48057. Size and installation date are unknown. The facility was reportedly used for sheep grooming, shearing, and wash-down activities. The septic tank is located off the southwest corner of the slab. A wooden shed is currently situated on the slab, and the drain ports appear to have been sealed.
 - ST-355, Building 48062 Septic Tank: A 1,400-gallon septic tank is connected to a mobile home that serves as the residence of the riding stable manager. The septic tank is located adjacent to Building 48062, and it is unknown if this building or any others were previously connected to the system.

- AOC ST-356, Skeet Range Septic Tank, Corrective Action Unit No 157 (new): There is a septic tank located on the southeast side of Building 20719, the former skeet range clubhouse. The septic system served the restrooms located inside the clubhouse. There are no surface indications to help identify the specific location of the septic system and leach field.

B. RCRA Facility Investigation (RFI):

1. Sampling and Analysis Plans (SAPs):

- SWMU 6-30, Radioactive Burial 11 (RW-06): We completed and submitted the RFI Addendum work plan to install a monitoring well.
- SWMU 8-28, Building 20338 Oil/Water Separator (ST-250): We completed and submitted the RFI SAP for installation of a groundwater monitoring well.
- SWMU 8-35, Waste Oil Storage Tank, Building 471 (ST-214): We completed and submitted the RFI SAP for installation of a groundwater monitoring well.
- SWMU 10-21, Trestle Site Septic Tank (ST-346): We completed and submitted the RFI SAP for installation of a groundwater monitoring well.
- SWMU WP-339, Contractor Yard West of Bldg 20423 (WP-339): We completed and submitted the Phase IV RFI SAP for additional groundwater monitoring wells.
- AOC SS-81 Bldg 907 Detention Pond and Yard: We completed and submitted the RFI work plan.
- AOC OT-86 Former Small Arms Ranges: We completed and submitted the RFI work plan.
- AOC SS-78 Water Towers Soils: We completed and submitted the RFI work plan.
- AOC DP-88 Trestle Site Disposal Area: We completed and submitted the RFI work plan.

2. Field Work:

- SWMU 6-30, Radioactive Burial 11 (RW-06): We installed a monitoring well as part of an Addendum to the RFI.
- SWMU ST-72, Building 30146, MWSA Security Garage OWS (ST-72): We initiated sampling of soil to continue post-demolition RFI activities.
- SWMU WP-339, Contractor Yard West of Bldg 20423 (WP-339): We initiated and completed the installation of a groundwater monitoring well and initiated sampling of the regional aquifer.

3. Reports: No Activity

C. Risk Assessment:

1. Ecological Risk:

a). We completed Screening-Level Ecological Risk Assessments for SWMU 10-1, Sanitary Sewer System (A-H); SWMU 10-3, Used Oil Underground Storage Tank (ST-249); SWMU 10-7, 41 Oil/Water Separators, Sediment Traps, Area Drains; and SWMU ST-66, Trestle Facility.

b). We submitted the Screening-Level Ecological Risk Assessments at SWMU 6-1, Landfill No. 1 (LF-01); SWMU 6-2, Landfill No. 2 (LF-02); SWMU 6-3, Landfill No. 3 (LF-07); SWMU 6-4, Landfill No. 4, 5, 6 (LF-08); SWMU 6-7, Landfill A (LF-18); SWMU 6-8, Landfill B (LF-15); SWMU 6-10, Abandoned Landfill (LF-09); SWMU 6-11, Fill Area SE of Sewage Lagoons (LF-44); SWMU 6-15, Unnamed Dump (LF-45); SWMU 6-16, Kirtland Fire Training Area (FT-13); SWMU 6-22, Lake Christian (OT-46); SWMU 6-24, Manzano Sewage Treatment Facility (WP-16); SWMU 6-29, Manzano Landfill (LF-20); and SWMU 6-31, McCormick Ranch Range (OT-28). These assessments, coupled with the Human Health Risk assessments will support risk-based cleanup/closure of these SWMUs.

c). We submitted the Ecological Risk Screening Assessment for AOC SS-76, Fuel Tank Burn Area as part of the ICM Report.

d). We completed and submitted an ecological risk assessment for AOC SS-83, Skeet Range and Landfill Road, as part of NMED Compliance Order HRM 97-01.

2. Human Health Risk:

c). We submitted the Human Health Risk Screening Assessments for AOC SS-76, Fuel Tank Burn Area as part of the ICM Report.

d). We completed and submitted a human health risk assessment for AOC SS-83, Skeet Range and Landfill Road, as part of NMED Compliance Order HRM 97-01.

D. Corrective Measures Study (CMS):

1. Work Plans:

- SWMU 8-28, Building 20338 Oil/Water Separator (ST-250): We completed and submitted the CMS work plan.
- SWMU 8-35, Waste Oil Storage Tank, Building 471 (ST-214): We completed and submitted the CMS work plan.
- SWMU 9-4 Waste Accumulation Area, Bldg 617: We continued preparing the CMS work plan.

- SWMU 9-15, Neutralization Pit, Bldg 617 (ST-271): We completed and submitted the CMS work plan addendum.
- SWMU 9-16, Evaporation Pond, Building 617 (ST-272): We completed and submitted the CMS work plan addendum.
- SWMU SS-69 Drum Storage Area: We continued preparing the CMS work plan.
- SWMU ST-73, CERF Drain: We continued preparing the CMS work plan.
- SWMU OT-74, Pistol Range Sites (OT-74): We submitted the CMS work plan.
- AOC ST-80 Bldg 30124, Auto Hobby Shop: We continued preparing the CMS work plan.
- SWMU ST-341 Condensate Holding Tank and Evaporation Pond, Bldg 1033: We continued preparing CMS work plan.

2. Study and Field Work:

- SWMU ST-70 KAFB Oil/Water Separators: We continued the pilot-scale bioventing test at the Bldg 481/482 OWS site and completed the Soil Vapor Extraction Pilot-Scale test at Bldg 471.
- SWMU OT-72, Pistol Range Sites (OT-74): We initiated and completed all field activities to collect additional data to support the CMS.

3. Reports:

- SWMU 6-1, Landfill No. 1 (LF-01): We continued preparing the CMS report.
- SWMU 6-2, Landfill No. 2 (LF-02): We continued preparing the draft CMS report.
- SWMU 6-4, Landfill No. 4,5,6 (LF-08), Kirtland Landfill (LF-268): We continued preparing the CMS report.
- SWMU 6-22, Lake Christian (OT-46): We suspended work on preparing the CMS report pending completion of the ICM.
- SWMU 6-29, Manzano Landfill (LF-20): We continued preparing the CMS report.
- SWMU ST-64, COE Vehicle Maintenance Yard (ST-64): We continued preparing the CMS report.
- SWMU OT-74, Pistol Range Sites (OT-74): We began preparing the CMS report.

E. Voluntary and Interim Corrective Measures (ICMs):

1. Work Plans:

- SWMU 9-20, Bldg 909 Waste Accumulation Area (SS-62): We completed the ICM work plan.
- AOC SS-78, Water Tower Soils: We began preparing the ICM work plan.
- AOC SS-79, Bldg 381 Spill Site: We began preparing the ICM work plan.

- AOC WP-87, GRABS Site Waste Pile: We initiated preparation of an ICM work plan.

2. Field Work:

- SWMU 6-2, Landfill No. 2 (LF-02): We continued construction of the bank stabilization ICM. Work accomplished included excavation, channel widening, construction of the training dike, and installation new gabion mattresses and spur dikes.
- SWMU ST-72, Building 30146, MWSA Security Garage OWS (ST-72): We initiated the demolition of the building to allow for additional RFI sampling and have begun removal of contaminated soil.
- SWMU ST-341, Evaporation Pond and Condensate Holding Tank, Bldg 1033 (ST-341): Completed remote monitoring pilot study and analyses of data.
- AOC SS-83, Skeet Range and Landfill Road: We completed confirmation soil sampling. All soil samples were analyzed for lead, antimony, arsenic, and copper, and ten percent of the samples were also analyzed for TCLP-lead. The soil sampling results identified two small areas that exceeded the cleanup criteria of 400 mg/kg lead as specified in the compliance order. A 20-ft by 20-ft area was over excavated around each of the two sample locations. The soil from the over excavation was placed in 55-gallon drums at the site pending analysis. Two additional confirmation samples were collected from each over excavated area and analyzed for total lead. Lead concentrations in the additional confirmation samples were all below the HRMB-approved background concentration of 39 mg/kg.
- AOC RW-84, Manzano Burial Sites: We completed field activities consisting of trenching and sample collection. Results of field observations and field screening indicate no source was encountered. Soil sample analyses is expected to confirm no source exists at the project site.

3. Reports:

- SWMU ST-341, Evaporation Pond and Condensate Holding Tank, Bldg 1033 (ST-341): We began preparing the remote monitoring pilot study ICM report.
- AOC SS-76, Fuel Tank Burn Area: We completed and submitted the ICM Report.
- AOC SS-83, Skeet Range and Landfill Road: We submitted an ICM report in accordance with Compliance Order HRM-97-01

F. Corrective Measures:

1. Designs:

- SWMU 6-1, Landfill No. 1 (LF-01): We began preparing the concept and preliminary level designs.
- SWMU 6-2, Landfill No. 2 (LF-02): We began preparing the concept and preliminary level designs.

- SWMU 6-4, Landfill No. 4,5,6 (LF-08): We began preparing the concept and preliminary level designs.

G. Other Investigations and Activities:

1. Groundwater Monitoring:

a). We submitted the Colloidal Borescope Monitoring report for five wells within the perched aquifer. The wells included in the report are KAFB-0310, -0313 and -0314 at LF-08/LF-268, KAFB-0506 at WP-26 Sewage Lagoons and KAFB-3391 at WP-339.

b). Monitoring well KAFB 0216 was abandoned in place to allow for construction of arroyo bank stabilization measures associated with SWMU 6-2. The monitoring well was a side-gradient well near the end of its usefulness due to declining water table conditions in the area.

c). We submitted the Groundwater Monitoring System Plan Detection Monitoring Report for Kirtland AFB Landfill, LF-08/LF268, in accordance with NMSWMR detection monitoring schedule requirements. We submitted the March Semiannual report for all LTM program sites, as well as the Semiannual Report for all LTM program sites (SWMUs 6-1, 6-2, 6-4, 6-16, 6-22, 6-29, 6-31 and WP-339, and site WP-26, Golf Course Main Pond and Sewage Lagoons), with the exception of the Tijeras Arroyo wells, which are sampled on an annual schedule. We also submitted the final report for the June sampling event for the new wells at SWMUs 6-4, 6-29, and WP-339, and Site WP-26. We initiated the mid-September Annual LTM sampling event, which included water level measurements and sample collection from all wells in the LTM program. A summary of June 1999 quarterly sampling results for new wells is presented below.

i). At SWMU 6-4, arsenic (1.7 to 7.3 ug/l), barium (68.3 to 178 ug/l), boron (34.4 to 48.1 ug/l), selenium (6.9 to 49.8 ug/l), calcium (64,500 to 191,000 ug/l), magnesium (12,200 to 32,900 ug/l), vanadium (2.7 to 5.4 ug/l, and sodium (25,800 to 39,000 ug/l) were detected in all three wells. Manganese and nickel were detected in KAFB-0313 at 72.6 ug/l and 20.1 ug/l, respectively. Selenium concentrations of 11.0 and 49.8 ug/l in wells KAFB-0313 and KAFB-0314 exceeded the NMSWMR health-based groundwater standard of 10 ug/l. Manganese at 72.6 ug/l exceeded the NMSWMR aesthetic groundwater standard of 50 ug/l. Chloroform was detected in KAFB-0313 at 0.5 ug/l. No other VOCs were detected. No PCBs, pesticides, or chlorinated herbicides were detected. Some inorganic analytes were detected. Nitrate as N (18 mg/l) and Total Nitrogen (19 ug/l) in KAFB-0312 exceeded the NMSWMR health-based groundwater standard of 10 mg/l. Sulfate at 280 mg/l exceeded the NMSWMR aesthetic groundwater standard of 250 mg/l. Total Dissolved Solids (1,000 mg/l) in KAFB-0314 exceeded the NMSWMR aesthetic groundwater standard of 500 mg/l.

ii). At SWMU 6-29, arsenic (2.9 to 6.8 ug/l), barium (45.2 to 64.7 ug/l), selenium (16.2 to 36.4 ug/l), and sodium (54,000 to 169,000 ug/l) were detected in all three wells. Calcium (111,000 ug/l), magnesium (26,100 ug/l) and potassium (7,460 ug/l) were detected in KAFB-2003. Iron (56 ug/l) was detected in KAFB-2001. Bromodichloromethane (0.7 ug/l and 0.6 ug/l duplicate) was detected in KAFB-2003. Chloroform and trichloroethene were detected

in all wells at concentrations ranging from 0.6 to 1.6 ug/l and 0.9 to 5.3 ug/l, respectively. Carbon tetrachloride (0.6 ug/l) was detected in KAFB-2002. No pesticides or chlorinated herbicides were detected. Concentrations of fluoride ranging from 2.2 to 2.6 exceed NMSWMR health based standard of 1.6 ug/l in all three wells. Sulfate was detected in all three wells at concentrations ranging from 260 to 630 mg/l, exceeding the NMSWMR aesthetic groundwater standard of 250mg/l. TDS was detected in all three wells at concentrations ranging from 620 to 1,400 mg/l, exceeding the NMSWMR aesthetic groundwater standard of 500mg/l. All gross alpha and gross beta detections were below SDWA MCLs for radioactivity.

iii). At SWMU WP-339, arsenic (5.7 ug/l), barium (94.4 ug/l), calcium (146,000 ug/l), magnesium (22,400 ug/l), potassium (2,140 ug/l), selenium (22.4 ug/l), and sodium (29,300 ug/l) were detected in KAFB-3391. Selenium (22.4 ug/l) exceeded the NMSWMR health-based standard of 10 ug/l. No other metals were detected. No VOCs were detected. No pesticides or chlorinated herbicides were detected. Some inorganic analytes were detected. Sulfate was detected in KAFB-3391 at a concentration of 270 mg/l, exceeding the NMSWMR aesthetic groundwater standard of 250 mg/l. All detected concentrations, except selenium, were below applicable NMSWMR health-based groundwater standards and the Safe Drinking Water Act (SDWA) MCLs for radioactivity except gross beta at 7.7 pCi/l.

iv). At WP-26, arsenic (5.4 ug/l), barium (171 ug/l), calcium (122,000ug/l) magnesium (16,900 ug/l), potassium (1,980 ug/l), selenium (19.2 ug/l), and sodium (23,600 ug/l) were detected in KAFB-0506. Selenium concentrations exceeded the NWMSR health-based standard of 10 ug/l. 1,4 dichlorobenzene (1.5 ug/l) and 1,1 dichloroethene (6.5 ug/l) were detected in KAFB-0506, Trichloroethene (8.7ug/l) exceeded the NMSWMR health-based standard of 5ug/l. No pesticides, and chlorinated herbicides were detected. Some inorganic analytes were detected.

2. Base-Wide Background and Hydrogeology: No activity.

3. TCE Characterization and Abatement: We continued to analyze samples from the LTM program for TCE.

4. Nitrate Contamination: No activity.

5. Management Action Plan Update: No Activity.

6. No Further Action (NFA):

- SWMU 6-14, Sewage Effluent Line (ST-51): We continued preparing NFA documents.
- SWMU 8-5 OWS, Bldg 255 (ST-201): We continued preparing NFA documents.
- SWMU 8-6 Silver Recovery Unit (WP-47): We continued preparing NFA documents.
- SWMU 8-26 OWSs, Bldg 1063 (ST-242, ST-243): We continued preparing NFA documents.
- SWMU 8-28 OWS, Bldg 20338 (ST-250): We continued preparing NFA documents.
- SWMU 8-29 OWS, Bldg 20344 (ST-251): We continued preparing NFA documents.
- SWMU 8-31 OWSs, Bldg 20348 (ST-252, ST-253): We continued preparing NFA documents.
- SWMU 8-41 Bldg 20423, Waste Battery Storage (ST-274): We continued preparing NFA documents.
- SWMU 8-47 OWS, Bldg 20423 (ST-261): We continued preparing NFA documents.
- SWMU 8-49, Fuel Shop Battery Storage Area, Building 20677 (SS-61): We continued preparing NFA documents.
- SWMU 8-53 Bldg 20681, Floor Drain (ST-335): We continued preparing NFA documents.
- SWMU 8-55 CE Wash Rack OWS (ST-262): We continued preparing NFA documents.
- SWMU 8-58 Bldg 57007, Battery Storage Area (ST-321): We continued preparing NFA documents.
- SWMU 9-14 Bldg 617, Buried Caustic Drain Line (ST-270): We continued preparing NFA documents.
- SWMU 10-1 Sanitary Sewer System (A-H) (ST-278 thru ST-284 and ST-327): We continued preparation of the No Further Action request.
- SWMU 10-2E, Jet Engine Test Cell, Building 702 (SS-63): We continued preparing NFA documents.
- SWMU 10-3 Used Oil UST, Bldg 20205 (ST-249): We continued preparing NFA documents.
- SWMU 10-7 Oil/Water Separators, Sed Traps, Area Drains (ST-204 through 209 212, 213, 217, 218, 222 through 241, 244, 245, 246, 254 through 257, 259, 263, and 264): We continued preparing NFA documents.
- SWMU LF-56, Landfill D (LF-56): We began preparing NFA documents.
- SWMU ST-59, ART Drum (ST-59): We began preparing NFA documents.
- SWMU ST-60, ART Pit (ST-60): We began preparing NFA documents.
- SWMU SS-65, Horizontal Polarized Dipole Drum Rack (SS-65): We continued preparing NFA documents.
- SWMU ST-66, Trestle Facility (ST-66): We continued preparing NFA documents.

- SWMU ST-273, Bldg 618 Septic Tank: We continued preparing NFA documents.
- SWMU ST-326, Waste Oil UST, Bldg 20375: We continued preparing NFA documents.
- SWMU ST-340, Septic Tank, Bldgs 57001/2: We continued preparing NFA documents.
- AOC DP-67, Three Mine Shafts (DP-67): We began preparing NFA documents.
- AOC RW-85, Manzano Maintenance Building (RW-85): We began preparing NFA documents.

7. Base-Wide Plan: No Activity

8. HSWA Survey: No Activity

9. Post Closure Care at Site WP-26, Sewage Lagoons and Golf Course Main Pond (WP-26): We continued preparation of the post closure characterization report. We completed drilling and installation of a regional aquifer groundwater monitoring well at the north end of the sewage lagoons. During drilling operations, three perched water-bearing zones were identified in the 200-foot to 300-foot interval of the borehole. Regional groundwater was encountered at 497 feet below ground surface (bgs), and a 25-foot, schedule 80 PVC well screen was set between 495 and 529 feet bgs. The well was developed on July 27, 28, and 29 using a submersible pump and bailer. Geophysical logging of the well, including conductivity, magnetic induction, gamma, and neutron logs was performed on August 10, 1999. We collected surface soil samples within the Sewage Lagoons to confirm contaminant levels in surface soil/sludge.

10. Radiation Training Sites 5-8 (OT-10): We continued to conduct effectiveness and cost analysis studies of various remediation technologies as possible alternative cleanup measures for the sites.

H. Budget and Program: Headquarters Air Force Material Command validated our Fiscal Year (FY) 2000 budget and program for IRP and ECP sites. In addition, we received excess FY99 "fallout" funds for projects to abandon monitoring wells, prepare and NRC decommissioning plan, fund FY 2000 LTGWM, develop a Military Munitions Rule Implementation Plan, and remove surface debris and solid waste. The final FY 2000 budget is \$11,691,000 for 30 projects.

I. Restoration Advisory Board (RAB): The July 15, 1999 RAB meeting was held at the Airport Wyndham Hotel. Kirtland AFB/JA provided an overview of environmental law, and PA provided an update on the status of public involvement. Montgomery Watson Environmental, Inc., gave a presentation on the cleanup project at the Skeet Range.

J. Perchlorate Survey: We began preparing the Survey of Perchlorate-Related Sites at Kirtland AFB.

K. Military Munitions Rule: No Activity

IV. SUMMARY OF PROBLEMS

A. SWMU Assessments and New AOCs: No problems encountered

B. RCRA Facility Investigation: No problems encountered.

C. Risk Assessment: No problems encountered.

D. Corrective Measures Study (CMS): No problems encountered

E. Voluntary and Interim Corrective Measures: No problems encountered.

F. Corrective Measures: No problems encountered.

G. Other Investigations and Activities:

1. Groundwater Monitoring: No problems encountered.

2. Base-Wide Background and Hydrogeology: No problems encountered.

3. TCE Characterization and Abatement: No problems encountered.

4. Nitrate Contamination: No problems encountered.

5. Management Action Plan Update: No problems encountered.

6. No Further Action (NFA): No problems encountered.

7. Base-Wide Plan: No problems encountered.

8. HSWA Survey: No problems encountered.

9. Post Closure Care at Site WP-26, Sewage Lagoons and Golf Course Main Pond (WP-26): During construction of the initial regional aquifer monitoring well at the sewage lagoons, the heat of hydration from the grout caused the casing to soften and collapse at about 462 feet bgs. The casing was cut off above the top of the grout lift at approximately 410 feet bgs. The casing was then drilled out to the original borehole depth. A second well was constructed in the borehole, a packer placed in the well casing, and water was circulated in the well during grouting of the second well completion. In spite of these efforts, the casing still blistered at approximately 344 feet bgs. The blistering caused a constriction in the well casing and prevented removal off the packer. Alconox® solution was added to the well to lubricate the packer, aid in its removal, and salvage the well completion. The casing diameter is estimated to be 3 to 3.5 inches in the 344 to 346 feet bgs interval. The remaining well construction activities were completed without incident. Over 3,000 gallons of development water were produced in an effort to remove as much Alconox® solution from the surrounding formation as possible. The

well was successfully sampled as part of the KAFB Long-Term Groundwater Monitoring Program in September.

10. Radiation Training Sites 5–8 (OT-10): No problems encountered.

H. Budget & Program: No problems encountered.

I. Restoration Advisory Board (RAB): No problems encountered.

J. Perchlorate Survey: No problems encountered.

K. Military Munitions Rule: No problems encountered.

V. PROJECTED WORK FOR THE NEXT REPORTING QUARTER

A. SWMU Assessments:

- SWMU WP-339, Contractor Yard West of Bldg 20423 (WP-339): We will conduct the soil gas survey.
- AOC OT-91, South Coyote Firing Site: We will complete and submit the SWMU Assessment Report (SAR).
- AOC DP-99, Building 29015 Disposal Pit: We will complete and submit the SWMU Assessment Report (SAR).
- AOC SS-102, ARES Facility: We will begin background research and initiate field investigations.
- AOC ST-347, Building 29015 Cesspool: We will begin background research and initiate field investigations.
- AOCs ST-348 - ST-352, Additional 600 Area Septic Tanks: We will begin background research and initiate field investigations.
- AOCs ST-353 - ST-355, Riding Stables Septic Tanks: We will begin background research and initiate investigations.
- AOC ST-356, Skeet Range Septic Tank: We will begin background research and initiate field investigations.

B. RCRA Facility Investigation

1. Sampling and Analysis Plans (SAPs): No activity planned

2. Field Work:

- SWMU 8-28, Oil/Water Separator Bldg 20338 (ST-250): We will initiate the installation of a groundwater monitoring well and sampling of the regional aquifer.
- SWMU 8-35, Waste Oil Storage Tank, Bldg 471 (ST-214): We will initiate the installation of a groundwater monitoring well and sampling of the regional aquifer.

- SWMU 10-21, Trestle Site Septic Tank (ST-346): We will initiate the installation of a groundwater monitoring well and sampling of the regional aquifer.
- SWMU WP-339, Contractor Yard West of Bldg 20423 (WP-339): We will continue sampling of the regional aquifer.
- AOC SS-78 Water Towers Soils: We will initiate and complete RFI field activities.
- AOC SS-81 Bldg 907 Detention Pond and Yard: We will initiate and complete RFI field activities.
- AOC OT-86 Former Small Arms Ranges: We will initiate and complete RFI field activities.
- AOC DP-88 Trestle Site Disposal Area: We will initiate and complete RFI field activities.

3. Reports: No activity planned

- AOC SS-78 Water Towers Soils: We will begin preparing the RFI report.
- AOC SS-81 Bldg 907 Detention Pond and Yard: We will begin preparing the RFI report.
- AOC OT-86 Former Small Arms Ranges: We will begin preparing the RFI report.
- AOC DP-88 Trestle Site Disposal Area: We will begin preparing the RFI report.

C. Risk Assessment:

1. Ecological Risk:

a). We will review comments received from NMED and finalize the Screening Level Ecological Risk Assessments at the following SWMUs:

- SWMU 6-1, Landfill No. 1 (LF-01)
- SWMU 6-2, Landfill No. 2 (LF-02)
- SWMU 6-3, Landfill No. 3 (LF-07)
- SWMU 6-4, Landfill No 4,5,6 (LF-08)
- SWMU 6-7, Landfill A (LF-18)
- SWMU 6-8, Landfill B (LF-15)
- SWMU 6-10, Abandoned Landfill (LF-09)
- SWMU 6-11, Fill Area SE of Sewage Lagoons (LF-44)
- SWMU 6-15, Unnamed Dump (LF-45)
- SWMU 6-16, Kirtland Fire Training Area (FT-13)
- SWMU 6-22, Lake Christian (OT-46)
- SWMU 6-24, Manzano Sewage Treatment Facility (WP-16)
- SWMU 6-29, Manzano Landfill (LF-20)
- SWMU 6-31, McCormick Ranch Range (OT-28)

b). We will initiate Ecological Risk Assessments/Screenings at the following SWMUs and AOCs:

- SWMU 9-4, Waste Accumulation Area Bldg 617 (ST-276)
- SWMU 10-21, Septic Tanks (multiple sites)
- SWMU ST-341, Condensate Holding Tank and Evaporation Pond (ST-341)
- AOC SS-77, Abandoned Railroad Spur
- AOC SS-82, ALECS Facility
- AOC WP-87, GRABS Site Waste Pile

c). We will complete Ecological Risk Assessments at the following SWMUs:

N/A

2. Human Health Risk

a). We will initiate Human Health Risk Assessments/Screenings at the following SWMUs:

- SWMU 8-35, Waste Oil Storage Tank (ST-214)
- SWMU 10-21, Septic Tanks (multiple sites)
- AOC SS-77, Abandoned Railroad Spur
- AOC SS-79, Bldg 381 Spill Site
- AOC ST-80, Bldg 30124 Auto Hobby Shop
- AOC SS-82, ALECS Facility
- AOC WP-87, GRABS Site Waste Pile

b). We will complete Human Health Risk Assessments at the following SWMUs

D. Corrective Measures Study (CMS)

1. Work Plans:

- SWMU 9-4, Waste Accumulation Area, Building 617 (ST-276): We will complete and submit the CMS work plan.
- SWMU SS-69, Drum Storage Area: We will complete and submit the CMS work plan.
- SWMU ST-73, CERF Drain: We will complete and submit the CMS work plan.
- SWMU ST-341, Condensate Holding Tank and Evaporation Pond: We will complete and submit the CMS work plan.
- AOC ST-80, Bldg 30124 Auto Hobby Shop: We will complete and submit the CMS work plan.

- SWMU 10-21, Septic Tanks (multiple sites): We will begin preparing NFA documents.
- SWMU LF-56, Landfill D (LF-56): We will continue preparing NFA documents.
- SWMU ST-59, ART Drum (ST-59): We will continue preparing NFA documents.
- SWMU ST-60, ART Pit (ST-60): We will continue preparing NFA documents.
- SWMU SS-65, Horizontal Polarized Dipole Drum Rack (SS-65):. We will continue preparing NFA documents.
- SWMU ST-66, Trestle Facility (ST-66): We will submit a NFA petition.
- SWMU ST-273, Bldg 618 Septic Tank: We will submit a NFA petition.
- SWMU ST-326, Waste Oil UST, Bldg 20375: We will submit a NFA petition.
- SWMU ST-340, Septic Tank, Bldgs 57001/2: We will submit a NFA petition.
- AOC DP-67, Three Mine Shafts: We will continue preparing NFA documents.
- AOC SS-77, Abandoned Railroad Spur: We will begin preparing NFA documents.
- AOC RW-85, Manzano Maintenance Building: We will continue preparing NFA documents.

7. Base-Wide Plan: No activity planned.

8. HSWA Survey: No activity planned.

9. Post Closure Care at Site WP-26, Sewage Lagoons and Golf Course Main Pond: No activity planned.

10. Radiation Training Sites 5-8 (OT-10): We will continue to conduct corrective measures studies to determine the preferred cleanup alternative for the sites and begin preparing the decommissioning plan for the NRC.

H. Program and Budget: We anticipate receiving FY 2000 funds in December 1999.

I. Restoration Advisory Board (RAB): We will hold our next meeting on Oct 21, 2000.

J. Perchlorate Survey: We will submit the Survey of Perchlorate-Related Sites at Kirtland AFB.

K. Military Munitions Rule: We will initiate an Implementation/ Management Action Plan for the Military Munitions Rule.



CHRISTOPHER B. DEWITT, R.P.G.

Chief, Restoration Branch
Environmental Management Division