



UNITED STATES MARINE CORPS
MARINE CORPS BASE
PSC BOX 20004
CAMP LEJEUNE, NC 28542-0004

BO 5090.10

BEMD

04 DEC 2008

BASE ORDER 5090.10

From: Commanding Officer
To: Distribution List

Subj: INSTALLATION RESTORATION PROGRAM/HAZARDOUS WASTE SITE
CLEANUP IMPLEMENTATION

Ref: (a) Comprehensive Environmental Response, Compensation,
and Liability Act (CERCLA) of 1980, 42 U.S.C. 9601 and
Superfund Amendments and Reauthorization Act (SARA) of
1986 (NOTAL)
(b) Resource Conservation and Recovery Act (RCRA), 42
U.S.C. 6901 (NOTAL)
(c) 40 CFR 300 (NOTAL)
(d) 40 CFR 264
(e) Navy/Marine Corps Installation Restoration Manual
of August 2006 (NOTAL)
(f) MCO P5090.2A (NOTAL)
(g) OPNAVINST 8020.5 - MCO 8020.13 (NOTAL)
(h) Appropriations Bill 102-154 (NOTAL)
(i) Federal Facilities Agreement of 13 February 1991
(NOTAL)

Encl: (1) Installation Restoration (IR) Program Site List
(2) Active IR Program Site Map
(3) Munitions Response Program (MRP) Site List
(4) Active MRP Site Map
(5) Solid Waste Management Unit (SWMU) Site List
(6) Active SWMU Site Map

1. Situation. To provide policy, prescribe procedures, and
assign responsibilities for the implementation of the
Installation Restoration (IR) Program for the cleanup of past and
newly discovered hazardous waste sites located in and on the land
of Marine Corps Base, Camp Lejeune (MCB CamLej) and Marine Corps
Air Station (MCAS), New River complex.

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2. Cancellation. BO 6280.1A.

3. Mission

a. This policy and guidance applies to all contractors, Department of Defense (DoD) agencies, military organizations, and other authorized activities located on the MCB CamLej and MCAS New River complex and applies to all known and discovered hazardous waste sites.

b. Summary of Revision. This Order has been revised in its entirety and should be thoroughly reviewed.

4. Execution. The nation's hazardous waste site cleanup program was established by references (a) and (b). Federal regulations promulgated by the Environmental Protection Agency (EPA) to implement the IR Program are found in references (c) and (d). Marine Corps policy, responsibilities, and guidance are found in references (e), (f) and (g). Specific responsibilities for implementation of the IR Program for MCB CamLej and MCAS New River complex are found in reference (i).

5. Administration and Logistics

a. The Marine Corps uses hazardous materials and produces large quantities of hazardous waste. Lack of stringent legislation in the past led to the nationwide use of expedient disposal methods that threatened human health and the overall quality of the environment. Past hazardous waste disposal practices included burial, burning, or dumping. Although acceptable at the time, these methods have caused long-term problems through release of hazardous pollutants into the soil and groundwater. Nationally, residential and municipal wells have been contaminated by hazardous wastes improperly dumped or buried many years ago. In some cases, residential and commercial developments have been built on old disposal sites resulting in serious human health problems. These environmental and health problems have led to greatly increased national concern regarding past disposal practices.

b. The Department of the Navy (DON) established the Navy/Marine Corps IR Program, per the DoD concept plan to identify, evaluate, control, and correct past deficient waste disposal sites and practices. Similar to other DON environmental programs, the IR Program is oriented toward compliance with Federal and State environmental laws and regulations. The IR Program consists of identifying the presence of hazardous wastes

and evaluating effects on the environment, as well as identifying and programming any required corrective measures.

c. To properly address the various types of contamination and adhere to their respective regulatory requirements, the MCB CamLej IR Program is managed through three separate programs. However, to be consistent with program nomenclature as described in reference (e), all Environmental Restoration activities will continue be referred to as the IR Program.

(1) IR Program. The purpose of the IR Program is to reduce the risk to human health and the environment from legacy waste disposal operations and hazardous substance releases. The IR Program adheres to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) regulatory framework.

(2) Munitions Response Program (MRP). The MRP addresses response actions at munitions response sites (MRSs) where munitions and explosives of concern (MEC) and munitions constituents (MC) are present in the environment. The MRP also adheres to the CERCLA regulatory framework.

(3) Solid Waste Management Unit (SWMU) Program. The SWMU Program addresses contaminated sites where the process which generated the contamination is still in operation or the contamination is from a recent release. SWMU sites are permitted sites regulated by Resource Conservation and Recovery Act (RCRA) corrective action guidelines as described in the Base Hazardous/Solid Waste Amendment (HWA) permit.

d. Management processes for the IR and MRP programs maintain the same frameworks for response actions under CERCLA as described in the processes below.

(1) Preliminary Assessment/Site Inspection (PA/SI). The PA/SI involves an extensive review and evaluation of existing records located at the Installation and elsewhere, an examination of the activity's waste disposal history and identification of any potential, or existing groundwater pollution problems at the Installation. Water and Air Research Incorporated completed the initial PA/SI of MCB CamLej in April 1983, under the direction of the Naval Energy and Environmental Support Activity, Port Hueneme, California. Based on information from historical records, aerial photographs, field inspections, and personnel interviews, a total of 76 potentially contaminated sites were identified. Each site was evaluated with regard to contamination

characteristics, migration pathways, and pollutant receptors. The study concluded that while none of the sites pose an immediate threat to human health or the environment, 22 sites warrant further investigation to assess potential long-term impacts. Since the initial PA/SI, 21 additional sites have been added to the list bringing the total number of IR Program sites to 43. To identify all former and active ranges on MCB CamLej, an Archives Search Report (ASR), Range Identification and Preliminary Range Assessment documents were performed by the United States Army Corps of Engineers in February 2000. From this report, it was determined that 22 potentially contaminated former military ranges qualified for closure under the MRP Program. Although the PA phase of the PA/SI was completed through the ASR, SI phases at each site are currently being performed or are programmed for additional funding.

(2) Remedial Investigation/Feasibility Study (RI/FS).

An RI/FS verifies problems identified by the PA/SI through physical and/or analytical testing and monitoring of suspected hazardous pollutants. RI/FS studies include, but are not limited to, soil, sediment, surface water, and groundwater sampling and analysis, pollutant characterization, detailed analysis of remedial alternatives, as well as human and environmental health effects potentially induced by a respective IR or MRP site. RI/FS studies for the 43 IR sites and 22 MRP sites at MCB CamLej, as identified for further investigation, are being conducted by a private contractor through the Mid-Atlantic Division, Naval Facilities Engineering Command (NAVFACENGCOM). PA/SI studies and RI/FS studies for IR sites are funded from Environmental Restoration, Navy (ER,N) funds managed by NAVFACENGCOM. Funds for MRP sites are also managed by NAVFACENGCOM but are provided through the USMC Operations and Maintenance (O&M) account.

(3) Remedial Design/Remedial Action (RD/RA). The RI/FS study may indicate the need for remedial actions. First priority will be given to remedial actions to control contamination migrating from Marine Corps property when such migration poses an immediate threat to human health at the Installation or within an adjacent community. RA for IR sites will be programmed utilizing ER,N funds. Remedial actions for MRP sites will be programmed using the USMC O&M account.

e. Response actions under the RCRA framework follow a similar process as under the CERCLA but are permitted by the North Carolina Department of Environment and Natural Resources (NCDENR) under the Base HSWA permit. Funding for RCRA regulated sites are procured through the MCB CamLej portion of the USMC O&M account (Activity Funds).

(1) RCRA Facility Assessment (RFA). In accordance with the HSWA of 1984 HSWA, EPA and NCDENR conducted an RFA site inspection at MCB CamLej from 9-13 January 1989. An RFA report was prepared to present the results of an extensive file survey and the RFA site inspection as required by Section 3004(u). The RFA report also integrated the DON's future RCRA/HSWA responsibilities with ongoing CERCLA/SARA activities at MCB CamLej. An additional RFA was performed in July 1996 to include units such as landfills, surface impoundments, waste piles, tanks, container storage, septic tanks, drain fields, wastewater treatment plants and storm water conveyances. To date, 166 SWMU sites have been identified on MCB CamLej.

(2) SWMU Assessment Report (SAR). For all newly discovered sites, an SAR is to be submitted upon direction of the State. The SAR may include sampling of the release area, or an evaluation of the site and recommendation for further investigation, interim remedial measures, or No Further Action (NFA). The Base may elect to move directly to an Interim Measure (IM), a Confirmatory Sampling Investigation (CSI), or an RCRA Facility Investigation (RFI) in lieu of preparing a SAR.

(3) Confirmatory Sampling Investigation (CSI). If there is reason to suspect a release has occurred, a CSI is warranted to evaluate if site contamination is present at concentrations that would require remedial action. CSIs traditionally include only soil sampling, with the assumption that if the soil samples are contaminated (exceed screening criteria) then the underlying groundwater may be contaminated. If soil contamination is encountered during the CSI, a Phase II CSI may be conducted to further delineate the soil contamination and to conduct groundwater sampling. Based on the findings, the Base may elect to move directly to an IM or RFI in lieu of conducting a CSI.

(4) RCRA Facility Investigation (RFI). An RFI may be performed to characterize the site and to evaluate the risk associated with exposure to site contaminants. Fate and transport of the site contaminants are evaluated, and a baseline human health risk assessment (HHRA) and a screening level or baseline ecological risk assessment (ERA) (if there are ecological receptors) would be performed in conjunction with the RFI. The RFI is intended to provide a basis for decision for further response actions or NFA.

(5) Interim Measure (IM). An IM is an action necessary to minimize or prevent the further migration of contaminants and

limit actual or potential human and environmental exposure to contaminants while long-term corrective action remedies are evaluated and implemented. IMs may be conducted at any point in the RCRA corrective action process, and are typically implemented either upon discovery of a current threat to human health or the environment or upon completion of delineation. For remedial measures that are simple and relatively low-cost, IMs are often conducted before the Corrective Measures Study (CMS), and may lead to removal of site contamination and NFA. IMs may address only elevated levels of contamination, resulting in the remaining portion of the site under land use controls (LUCs) or long-term monitoring (LTM).

(6) Corrective Measures Study (CMS). A CMS is used to identify and develop remedial alternatives, evaluate the alternatives, and justify corrective measures at a SWMU. Remedial Goal Objectives (RGOs) are often developed during the CMS to identify corrective action levels that would be within acceptable risk levels for the proposed receptors. As described in the Part B RCRA Permit, the alternative technology types and process options are screened on the basis of the qualitative evaluation of four criteria: performance, reliability, implementability, and safety. Relative cost is also used in the evaluation of technology options.

(7) Corrective Measures Implementation (CMI). After the specific remedial technology is selected and approved, the corrective measures are implemented. The implementation includes preparing a Corrective Measures Design and conducting the RA. It may also include preparing a community involvement plan, LUC Implementation Plan (LUCIP), LTM plan, and the routine reports associated with RA operation.

f. Marine Corps policy, under references (e), (f) and (g), is to comply with local, State, and Federal regulations concerning investigation and remediation of hazardous waste sites. This Order implements the IR Program to determine where hazardous wastes have been deposited in the past, assess the present and future environmental and health effects of the wastes, and provide for control measures and remediation.

g. The Director, Environmental Management Division (EMD), Installations and Environment (I&E) Department is assigned responsibility for implementation of the IR Program at MCB CamLej. The IR Program Manager, Environmental Quality Branch (EQB), is designated the Installation point of contact to establish, direct, maintain, and coordinate the MCB CamLej and MCAS New River complex IR Program. The IR Program Manager will

coordinate accomplishment of specific tasks with the Environmental Compliance Branch, EMD, the Environmental Conservation Branch, EMD, the Environmental Quality Branch, EMD, the Office of the Staff Judge Advocate (OSJA), Base Public Affairs Office (PAO), Eastern Area Counsel Office (EACO), Director, Base S-3, Director, Base S-4/S-6/BPO, Director, I&E Department, Officer in Charge of Construction (OICC)/Resident Officer in Charge of Construction (ROICC), and the Environmental Affairs Department, MCAS New River. The IR Program Manager is responsible for long-term planning and management to accomplish the goals and objectives of the MCB CamLej IR Program. Responsibilities include:

(1) Documentation of IR, MRP and SWMU program studies and actions to include the maintenance of the administrative record.

(2) Establishment and implementation of a Technical Review Committee or Restoration Advisory Board to review and comment on MCB CamLej actions and proposed actions with respect to releases or threatened releases of hazardous substances from IR and MRP sites (SWMU program sites are RCRA permitted and information is distributed through the permit process). Membership shall include EPA, DoD, appropriate State and local authorities, Natural Resource Trustees, and representatives of the affected community.

(3) Development and implementation of a concise action plan in accordance with the IR Program's short and long-term objectives incorporating references (h) and (i).

(4) Compliance with Federal and State regulations under references (b), (c), and (d).

(5) Identification of program requirements, projects, and forwarding of funding requirement information to the Commandant of the Marine Corps (LF/LFL).

(6) Coordination with the EPA, appropriate State and local authorities, the IR Program Technical Review Committee, or Restoration Advisory Board, Natural Resource Trustees, environmental groups, DoD, Navy and Marine Corps representatives, and the local community.

(7) Negotiation of all agreements related to the IR Program are under references (a) through (i).

(8) Notification of any IR, MRP, or SWMU Program site requiring no further action and/or being deleted from reference (i) and enclosures (1) through (6) to all interested parties.

(9) Development and implementation of a formal Community Involvement Plan (CIP) for both remedial and removal actions. Guidelines are detailed in references (e), (f), and (g).

(10) Coordinate, direct, and review IR Program work, assure compliance with the National Contingency Plan (NCP), and recommend action for decisions. Based on reference (e), the IR Program Manager's "period of responsibility begins prior to initiation of the RI/FS (for CERCLA regulated sites), and continues through design, RA, No Further Response Action Planned (NFRAP) phase, or deletion of the site from the NPL."

(11) Coordinate with staff experts in the Environmental Conservation Branch and the Environmental Compliance Branch to ensure mitigation of environmental impacts of RA's on the affected resources and review proposed actions submitted to the Environmental Impact Working Group (EIWG) for impact to the IR, MRP, or SWMU Programs.

h. The OSJA and the EACO are responsible for:

(1) Legal advice and recommendations to ensure compliance with Federal and State regulations.

(2) Assistance in developing necessary interagency agreements required related to and resulting in Records of Decision.

(3) Assistance in citizen suits and other legal considerations such as Tort Claims, personal liability, and Freedom of Information Act (FOIA) requests.

i. The Base PAO is responsible for:

(1) Development of public affairs guidance concerning IR program activities.

(2) Serving as the initial Base point of contact for off-base inquiries from environmental groups, private citizens, and the media.

j. The Navy OICC/ROICC is responsible for:

(1) The management of construction associated with RA.

(2) Ensuring that the work is accomplished in accordance with plans and specifications, and in a fashion, which protects human health and the environment.

(3) Oversight of procedures to ensure compliance with the Occupational Safety and Health Act regulations (29 CFR 1910), as well as review the contractor's Health and Safety Plans, ensuring that any comments are addressed and necessary revisions are made by the contractor.

(4) Ensuring that the approved Quality Assurance/Quality Control plan is followed, both for implementing the selected alternative and for accomplishing field sampling to verify that cleanup levels are attained.

(5) Contract administration and management between MCB CamLej and RA contractors engaged in remedial designs/actions.

(6) Because the RA has been agreed on in consultation with regulatory agencies, the OICC/ROICC shall not make contract modifications or field changes without first coordinating with the IR Program Manager. In addition, the IR Program Manager will not give direction to contractors managed through the OICC/ROICC.

(7) Before the completion of the contract/delivery order, representatives from EQB and the OICC/ROICC office must jointly inspect the constructed remedial system.

k. All commands and organizations charged with planning or implementing construction projects, field activities, and troop training exercises are responsible for coordinating and ensuring that those activities do not affect and are not affected by the IR, MRP or SWMU sites identified in enclosures (1) through (6). This includes the adverse human health effects, which may arise from exposure of personnel, as well as site disturbance, which may exacerbate contamination and/or complicate the remediation process. All such activities in the proximity of identified IR sites should be coordinated with the Director, EMD, via the EIWG, to ensure protection of human health and to maintain the remedial process. Enclosures (2), (4), and (6) are maps identifying the general location of active IR, MRP and SWMU Program sites. If any planned activities are in the proximity of any site denoted on enclosures (2), (4), and (6), the organization planning the activity should contact the IR Program Manager for more detailed site information (as these areas may change over time, it is recommended that the Base IR Program Manager be contacted for updated maps as appropriate).

l. Intrusive Activities. Any planned activity that potentially impacts an IR, MRP or SWMU site or is to occur within 500 feet of the outer perimeter of an IR, MRP or SWMU site, must be coordinated through the IR Program Manager, EMD before commencing. Any individual/organization discovering either a previously unidentified hazardous substance or any buried or abandoned material deemed as suspicious or odd in appearance should call immediately to notify the IR Program Manager, EMD at 451-5068 and secure the site to the best extent possible to avoid disturbance of any contaminated material. Intrusive Activity training is provided annually by the IR Program section of the EMD to include the distribution of updated IR Program site maps as appropriate.

m. Reference (c) establishes significant requirements for Federal Facilities concerning CERCLA regulated sites. It defines the process for the identification, evaluation, and remediation of past hazardous waste sites under reference (a).

n. Reference (d) defines the process for the identification, evaluation and remediation of past hazardous waste sites under reference (b).

o. This Order formally establishes the IR Program for MCB CamLej and MCAS New River complex per the references.

6. Command and Signal

a. Command. This Order is applicable to MCB CamLej, MCAS New River and all tenant organizations.

b. Signal. This Order is effective the date signed.


W. A. MEIER
By direction

DISTRIBUTION: A

Installation Restoration (IR) Program Site List

I. List of Active Installation Restoration Program Sites

<u>IR #</u>	<u>SITE DESCRIPTION</u>
IR-2	Former Nursery/Day Care Center
IR-3	Old Creosote Plant
IR-6	Storage Lots 201 and 203
IR-15	Montford Point Dump Site (1948-1958)
IR-35	Camp Geiger Area Fuel Farm
IR-36	Camp Geiger Area Dump
IR-69	Rifle Range Chemical Dump
IR-73	Courthouse Bay Liquid Disposal Area
IR-78	Hadnot Point Industrial Area
IR-82	Piney Green Road VOC Area
IR-84	Building 45 Area
IR-86	Tank Area AS419-AS421 at MCAS
IR-88	Building 25 Base Dry Cleaners
IR-89	STC-868
IR-93	TC-942 Tanks
IR-95	Animal Dipping Vat

II. List of Installation Restoration Program Sites that
Require No Further Action but Maintain Land Use Controls

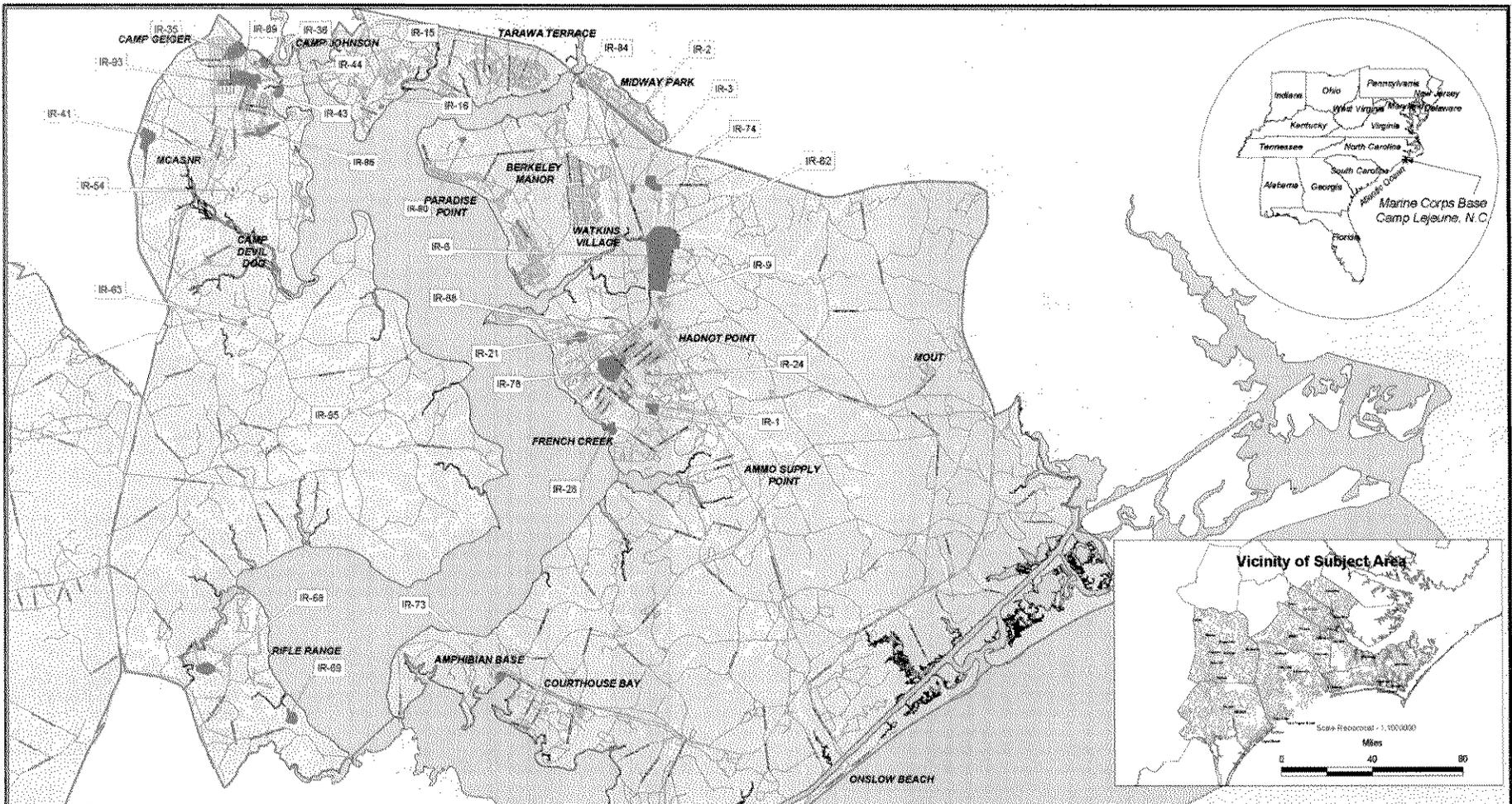
<u>IR #</u>	<u>SITE DESCRIPTION</u>
IR-1	French Creek Liquids Disposal Area
IR-9	Firefighting Training Pit at Piney Green Road
IR-16	Montford Point Burn Dump
IR-21	Transformer Storage Lot 140
IR-24	Industrial area Fly Ash Dump
IR-28	Hadnot Point Burn Dump
IR-41	Camp Geiger Dump Near Former Trailer Point
IR-43	Again Street Dump
IR-44	Jones Street Dump
IR-54	Crash Crew Fire Training Burn Pit at Air Station
IR-63	Verona Loop Road Dump
IR-68	Rifle Range Dump
IR-74	Mess Hall Grease Disposal Area
IR-80	Paradise Point Golf Course Maintenance Area

III. List of Installation Restoration Program Sites that
Require No Further Action

<u>IR #</u>	<u>SITE DESCRIPTION</u>
IR-4	Sawmill Road Construction Debris Dump
IR-5	Piney Green Road
IR-7	Tarawa Terrace Dump
IR-8	Flammable Storage Warehouse Building TP-451 & TP- 452
IR-10	Original Base Dump
IR-12	EOD-1 Range (Formerly EOD (G-4A))
IR-13	Golf Course Construction Dump Site
IR-14	Knox Area Riprap
IR-17	Montford Point Area Riprap
IR-18	Watkins Village (E) Site
IR-19	Naval Research Lab Dump
IR-20	Naval Research Lab Incinerator
IR-23	Roads and Grounds Building 1105
IR-25	Base Incinerator
IR-27	Naval Hospital Area Riprap
IR-30	Sneads Ferry Road - Fuel Tank Sludge Area
IR-31	Engineer Stockade - G4 Range Road
IR-32	French Creek
IR-33	Onslow Beach Road
IR-34	Ocean Drive
IR-37	Camp Geiger Area Surface Dump
IR-38	Camp Geiger Construction Dump
IR-39	Camp Geiger Construction Slab Dump
IR-40	Camp Geiger Area Borrow Pit
IR-42	Building 705 BOQ Dump
IR-46	MCAS Main Gate Dump
IR-47	MCAS Riprap Near Stick Creek
IR-48	MCAS Mercury Dump
IR-49	MCAS Suspected Minor Dump
IR-50	MCAS Small Craft Berthing Riprap
IR-51	MCAS Football Field
IR-52	MCAS Direct Refuel Depot
IR-53	MCAS Building 3525 Area
IR-55	MCAS East Perimeter Dump
IR-56	MCAS Oiled Roads to Marina
IR-57	Runway 36 Dump
IR-58	MCAS Tank Training Area
IR-59	MCAS Infantry Training Area
IR-60	EOD K-326 Range
IR-61	Rhodes Point Road Dump

<u>IR #</u>	<u>SITE DESCRIPTION</u>
IR-62	Race Course Area Dump
IR-64	Marines Road - Sneads Ferry Road MOGAS Spill
IR-65	Engineer Area Dump
IR-66	AMTRAK Landing Site and Storage Area
IR-67	Engineers TNT Burn Site
IR-70	Oak Grove Field - Surface Dump
IR-71	Oak Grove Buried Dump
IR-72	Oak Grove Coal Pile
IR-75	MCAS Basketball Court Site
IR-76	MCAS Curtis Road Site
IR-85	Camp Johnson Battery Dump
IR-87	MCAS Officer's Housing Area (Formerly Site A)
IR-90	BB-9 Tanks
IR-91	BB-51 Tanks
IR-92	BB-46 Tanks
IR-94	1613 1-4 MWR Gas Station

ACTIVE IR PROGRAM SITE MAP



Enclosure (2)

Enclosure 2
Installation Restoration (IR) Program Sites
Marine Corps Base,
Camp Lejeune, NC



- INFRASTRUCTURE**
- Existing Buildings
 - Base Boundary
 - Lanes & Roads
 - Creeks & Streams
 - Water Columns
- EQB DATA**
- IR Program Sites

N

Enclosure
2

CGDR, ITSD, EL 50
 219-461-8009

Prepared by: **Mr. Bob Lowder,**
EQ&EMD/5E
 Prepared for: **Environmental Quality Branch**
 Date: **10 July 2008**

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BO 5090.10

Munitions Response Program (MRP) Site List

I. List of Active Munitions Response Program Sites

<u>MR #</u>	<u>SITE DESCRIPTION</u>
UXO-01	LIVE HAND GRENADE COURSE
UXO-01	GAS CHAMBER (2D MAR DIV)
UXO-01	D-6, 50-FOOT INDOOR RIFLE AND PISTOL RANGE
UXO-01	B-3, GAS CHAMBER
UXO-02	UNNAMED EXPLOSIVE CONTAMINATED RANGE
UXO-03	D-3, PRACTICE HAND GRENADE COURSE
UXO-04	KNOX TRAILER PARK GRENADE (AREA A)
UXO-05	MINI ANTI-TANK RANGE (TANK BATT. TENT CAMP)
UXO-06	D-27, FORTIFIED BEACH ASSAULT AREA
UXO-07	D-6, PRACTICE HAND GRENADE COURSE
UXO-08	BASE CS CHAMBER AND NBC TRAINING TRAIL
UXO-08	LEJEUNE CANTONMENT 2.36" BAZOOKA RANGE
UXO-08	D-7, GAS CHAMBER
UXO-09	F-9, TRIANGULATION RANGE
UXO-10	D-11A, FLAME TANK AND FLAME THROWER RANGE
UXO-11	B-5, PRACTICE HAND GRENADE COURSE
UXO-12	1000-INCH RANGE (TENT CAMP AREA)
UXO-14	INDOOR PISTOL RANGE (RIFLE RANGE AREA)
UXO-14	GAS CHAMBER (RIFLE RANGE AREA)
UXO-15	1000-INCH RANGE (AMPHIBIOUS BASE AREA)
UXO-16	GUN POSITIONS 41A & 41B
UXO-17	FIRING POSITION # 2

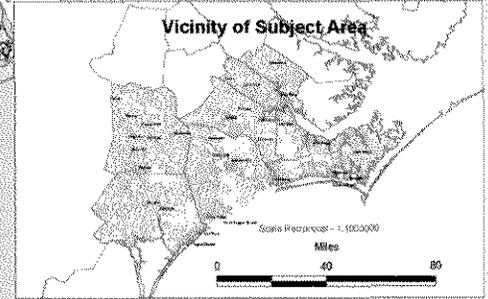
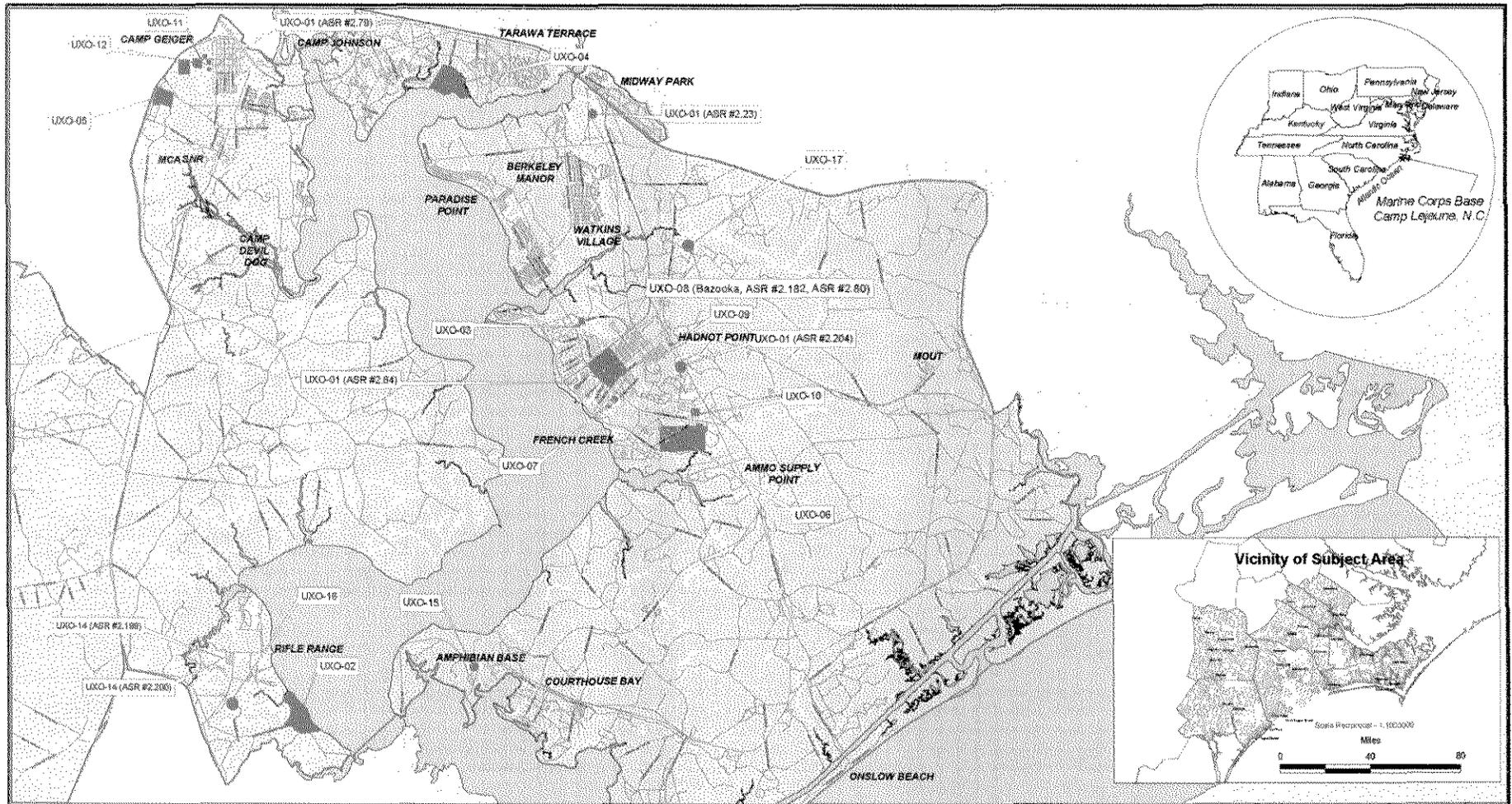
II. List of Munitions Response Program Sites that Require No Further Action but Maintain Land Use Controls

<u>MR #</u>	<u>SITE DESCRIPTION</u>
N/A	N/A

III. List of Munitions Response Program Sites that Require No Further Action

<u>MR #</u>	<u>SITE DESCRIPTION</u>
N/A	N/A

ACTIVE MRP SITE MAP



Enclosure 4
Munitions Response Program (MRP) Sites
Marine Corps Base,
Camp Lejeune, NC

Scale Reciprocal - 1:45000



INFRASTRUCTURE
 [Symbol] Existing Buildings
 [Symbol] Base Boundary
 [Symbol] Roads & Streets

EQB DATA



Enclosure
4

GSB, IT80, BL 60
 918-451-8559

Prepared by: Mr. Bob Lawden
EQB/ENR/IE
Prepared for: Environmental Quality Branch
Date: 10 July 2008

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Enclosure (4)

BO 5090.10

Solid Waste Management (SWMU) Site List

I. List of Active Solid Waste Management Unit Program Sites

<u>SWMU #</u>	<u>SITE DESCRIPTION</u>
261	1780-UST-1 Truck Company, Maintenance, HQBn, 2d MarDiv
297	1780-O/W-2 Truck Company Maintenance, HQ Btry, 2d MarDiv
303	AS515-AST-E HMM 266 HMM 261
307	G649-Rack Base Maintenance Wash Rack
318	AS515-O/W Near Building AS 515
323	Existing Landfill (Permit # 67-08)
336	Paint Stripper Tank Building 4106, MALS 29
470	Courthouse Bay BB28 POL Contaminated Site
471	GSRA Asbestos Shingle Dump Site
473	HP-237 Hydraulic Lifts
474	Courthouse Bay BB52 Maintenance Facility Dump Site
476	Old Landfill Septic Leachfield
477	Dogwood Road Mixed Waste Dump Site
483	Camp Johnson Battery Dump Site
485	RCRS Used Oil Containment Release
486	FC-100 Buried Oil Filters/POL Site
501	BB-50 Trench
502	BB-177 Floor Drain
347	UST-S889/S891 Above Ground Storage Tanks (2)
350	UST-STT61-66 Used oil storage tanks
118	UST-728-2 Gottschalk Marina
420	Former Hazardous Waste Container Storage Facility & current 90-day Storage Facility (Building 490)
342	RCRA Interim Status K-2 OB/OD Facility (5000 lb/hr)
343	RCRA Interim Status G-10 OB/OD Facility (20,000 lb/hr)
97	RCRA 90-day Storage Facility (Building S-962)
124	RCRA 90-day Storage Facility (Building AS-4225)
360	UST-1817 Warehouse and Supply

II. List of Solid Waste Management Unit Program Sites that Require No Further Action but Maintain Land Use Controls

<u>SWMU #</u>	<u>SITE DESCRIPTION</u>
43	IR-11 Pest Control shop
177	UST-333-C 2d MLG Inspector's Office
269	816 O/W 8th Engineer 2d MLG
299	AS114-Used Oil AST MCAS Auto Hobby Shop
322	IR-29 Base Sanitary Landfill (Permit # 67-03)
423	Building 970 Area
475	MCAS New River White Street Stormwater Pond

III. List of Solid Waste Management Unit Program Sites that Require No Further Action

<u>SWMU #</u>	<u>SITE DESCRIPTION</u>
1	1014 - Container Storage
2	1700 Pond A Base Maintenance
3	236 Backwash MCB Swimming Pool
4	540 Backwash MCB Area 5 Training Pool
5	575-Rack 2d LAI, 2d MarDiv Wash Rack
6	A1-Rack 2d AA Bn, 2d MarDiv
10	AS-Curtis Ditch Skimmer MCAS11
11	AS-Longstaff-Ditch Skimmer MCAS
12	AS-Primington-Ditch Skimmer
13	AS199-Rack Base Motor Transport
14	AS226 Solvent Reclamation Still
15	AS3003 Ditch Skimmer MCAS
16	AS4151 Basin Base Maintenance Oil/Water Separator/Spill Containment Basin
17	AS5020 MCAS Drainage Ditch Skimmer
20	Backwash Pond for Building 670 WTP
21	Backwash pond for Onslow Beach WTP
22	Backwash Basins for Hadnot Point WTP
23	Backwash Ponds for MCAS WTP
24	BB-190 Backwash Basin
25	BB9-Basin MCB (Spill Containment Basin)
26	Industrial Dumpsters, Basewide (169)
27	Non-Industrial Dumpsters, Basewide (2885)
30	FC19 Rack H&S Battalion, 2d MLG Wash Rack
31	Grease Traps Basewide (33)
32	H36 Rack HQSVCCO Engr II MEF Wash Rack

<u>SWMU #</u>	<u>SITE DESCRIPTION</u>
33	Less than 90-Day HW Sites, Basewide (81)
35	M105 Rack
36	Oil/Water Separators Basewide (97)
37	PCB Warehouse TP-464
38	PT33-Pile MCB
39	S1001 Basin MCB
40	Sanitary Sewer Basewide
41	SAS137 Basin Building SAS137
42	Silver Recovery Units, Basewide (32)
53	IR-26 Coal Storage Area
89	SCLH785-Basin Base Maintenance
90	SM264 Rack
91	ST32-Construction Debris Soil Pile - Tarawa Terrace
92	STC872-Pile DRMO
93	Stormwater Collection System
94	TC364 Basin
95	TP45-Rack Truck Driving School
96	Used Oil Tanks Basewide (190)
130	UST-AS-4159-2 Refueling Bay
196	45-Pond MCB
207	DRMO Yard Near Building TC-861
209	Former SA22-Pile Near Building SA 21
253	1205-AST HSCO HQSVCCO. II MEF Used Oil
254	1408 Base Motor Transport Dumpster
255	1502-O/W-1 MCB Logistics Vehicle Maintenance Oil/Water Separator and Grit Chamber
256	1700-OW-1 Base Maintenance
257	1700-OW-2 Base Maintenance
258	1745-O/W Truck Co Operations, HQ Btry, 2d MarDiv
259	1775 Dumpster
260	1780-O/W-1 Truck Co Maintenance, HQBn, 2d MarDiv
261	2d MarDiv
262	1780-UST-2 Truck Co Maintenance, HQBn, 2d MarDiv
263	1808 Dumpster
264	2611-Container Gun Club
265	2615-O/W Officer's Club
266	2616 Officers Club BOQ Dumpster
267	511 2d MarDiv - 2d Recon Bn Dumpster
268	522 2d MarDiv Dumpster
270	902 2d MLG Dumpster
271	AS410 MWR Gas Station Dumpster

<u>SWMU #</u>	<u>SITE DESCRIPTION</u>
272	AS137-Basin MCAS
273	BA 128/BA 105 Dumpster
274	BB-245 Exchange Dumpster
275	BB-48 Construction Shop Dumpster
276	BB-49 Base Maintenance Dumpster
277	FC 120 2d MLG, CEB
278	FC-190 2d MLG Dumpster
279	FC200-O/W 8th Engineer Bn, 2d MLG
280	FC285-AST Maintenance Bn, 2d MLG
281	H100 2d MarDiv, 8th Mar Dumpster
282	LCH 4034 MWR Gas Station/7 Day Store
283	Dumpster
283	Release (FC279) 8th Motor Transport Bn, 2d MLG
284	S947-Container Environmental Management Dumpster
285	S947-O/W Environmental Management
286	S947-Pile Environmental Management Waste Pile
292	1106/1107-Used Oil AST Motor T Auto Hobby Shop MWR
287	Site 45 Base Maintenance Dumpster
289	TT 2453 MWR Hobby Shop Dumpster
290	TT 2478 MWR Gas Station Dumpster
291	034 Ditch 5th Bn, 10th Mar, 2d MarDiv
293	1106/1107-O/W Motor T Auto Hobby Shop
294	1203-O/W Base Maintenance
295	1601-Used Oil AST 2d MLG
296	1700-Basin-B Base Maintenance Coal Pile Runoff Collection Basin
298	1780-OW-3 Near Building 1780
300	AS118-Used Oil AST Logistic Motor Transportation
301	AS4115-AST HMLA 167, MAG 26, 2d MAW
302	AS504-AST HMH 362 (AS 566)
304	BA130-O/W Motor T, 2d Recon Bn, 2d MarDiv
305	BB224-Pile MCB
306	FC230-O/W-1 8th Comm Bn, 2d SRIG
308	GP19-O/W 8th Engineer, 2d MLG
310	PT33-Pond-O/W MCB Kitchen Grease Dewatering Unit
311	S1619-O/W 8th Comm Bn, 2d SRIG
312	S1735-O/W Base Maintenance
313	S1753-O/W-AST Small Craft Co, HQBn, 2d MarDiv

<u>SWMU #</u>	<u>SITE DESCRIPTION</u>
314	SM187-O/W Marine Corps Combat Service Support Schools
315	SM269-Basin Near Building M 200 Containment Basin
316	TC733-O/W School of Infantry
317	TT2453-Release Near Building TT 2453
319	Camp Geiger Wastewater Treatment Plant
320	Camp Johnson Wastewater Treatment Plant
321	Courthouse Bay Wastewater Treatment Plant
324	Hadnot Point Wastewater Treatment Plant
325	Existing Permitted Hazardous Waste Container Storage Facility (Buildings TP-451 and TP-463)
326	Incinerator NH-100
327	Onslow Beach Wastewater Treatment Plant
328	Stormwater Ponds Basewide (12)
329	Rifle Range Wastewater Treatment Plant
330	Tarawa Terrace Wastewater Treatment Plant
333	FC-280 2d MLG, Vat 3
334	FC-280 2d MLG, Vat 4
335	FC-280 2d MLG, Vat 5
331	FC-286-6 2d MLG, Vat 1
332	FC-286 2d MLG, Vat 2
337	Paint Stripper Tank, Building 518, MALS 26
338	FSC-282 2d MLG Storage
339	Sandblaster, Building 4146, MALS 26
358	Borrow Pit, Battery Dump
359	Lot 201 Battery Dump
362	Dog 11 Area
363	M-21 Arresting Gear
468	UN234 - Septic Tank
469	UN1184 - Septic Tank
482	GSRA Reserve Center Dump Site
484	GSRA Carbon Fiber Soil Contamination

