



**UNITED STATES MARINE CORPS**  
MARINE AIR GROUND TASK FORCE TRAINING COMMAND  
MARINE CORPS AIR GROUND COMBAT CENTER  
BOX 788100  
TWENTYNINE PALMS, CALIFORNIA 92278-8100

CCO 5090.1D Ch 1  
4F

MAR 03 2009

COMBAT CENTER ORDER 5090.1D

From: Commanding General  
To: Distribution List

Subj: ENVIRONMENTAL PROTECTION

Ref: (a) DoD Instruction 4715.3  
(b) MCO P5090.2  
(c) CCO P5090.2  
(d) CCO 4010.1  
(e) CCO P3500.4  
(f) MCAGCC's Integrated Natural Resources Management Plan  
(g) CCO 5090.4  
(h) Biological Opinion for the Base-Wide Training Operations and Routine Maintenance Program, 1-8-99-F-41, March 7, 2002  
(i) Desert Tortoise Management Plan  
(j) Endangered Species Act of 1973, as amended

Encl: (1) Commanding General's Environmental Policy Statement  
(2) MCAGCC Environmental Protection References and Policies

1. Situation. To publish guidelines and assign responsibilities for the management and protection of the environment, including natural and cultural resources aboard Marine Air Ground Task Force Training Command (MAGTFTC), Marine Corps Air Ground Combat Center (MCAGCC), Twentynine Palms, California. The references establish federal, state, local, and Combat Center environmental laws. The enclosures outline the Combat Center policies, constraints, and guidelines for environmental issues. Enclosure (1) provides descriptions of the references and enclosures.

2. Cancellation. CCO 5090.1C.

3. Mission

a. MAGTFTC, MCAGCC is the Marine Corps' premier site for live-fire and maneuver training. The increasing demand to conduct joint and combined exercises at MCAGCC indicates that future demands on the training lands will increase Combat Center. To ensure the continued viability of MAGTFTC, MCAGCC's training lands, both environmental issues and training mission requirements must be balanced and focused on long-term use of this unique desert training area.

b. All commands and organizations aboard MAGTFTC, MCAGCC must comply with applicable federal, state, and local environmental laws. This obligation, in accordance with the references, includes compliance with the National Environmental Policy Act (NEPA), the Endangered Species Act (ESA), the Sikes Act Improvement Act (SAIA), the National Historic Preservation Act (NHPA), the Archeological Resources Protection Act (ARPA), the Resource Conservation and Recovery Act (RCRA), the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), the Toxic Substance Control Act (TSCA), the Clean Water Act (CWA), the Clean Air Act (CAA), other executive orders, and laws.

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

Individuals who violate, aid, abet, counsel, command, induce, procure, or willfully cause violations of any provisions of these laws may be held personally liable for civil and criminal penalties and fines. Ignorance of regulatory law is not a defense. Information and assistance may be obtained by contacting the Natural Resources and Environmental Affairs Division at 830-7396.

4. Execution

a. Directors, Commanding Officers, Supervisors and Managers

(1) Enforce MAGTFTC, MCAGCC's environmental protection measures listed in enclosure (2).

(2) Ensure that violations and violators are promptly reported to MAGTFTC, MCAGCC's Natural Resources and Environmental Affairs (NREA) Division.

(3) Post enclosure (1) on all bulletin boards.

b. Assistant Chief of Staff G-4

(1) Ensure that the G-4 Directorate meets the responsibility for maintenance of long-term mission viability as the Class I and Class II property owner.

(2) Head, NREA Division

(a) Ensure that all mandated environmental awareness training is provided.

(b) Ensure that all permits for facilities and operations are obtained, remain current, and a consolidated database is established for reference.

(c) Ensure that the appropriate funding is programmed and available for permits, fees, facilities, and operational environmental deficiencies.

(d) Coordinate training access through Bureau of Land Management (BLM) administered lands.

(e) Provide in-house and contracted support for biological and cultural surveys, environmental documentation, operational and facility studies, and corrective actions for environmental deficiencies.

(f) Act as the Point of Contact for all matters regarding the Military Munitions Rule on MCAGCC's Training Areas and Off-Range Areas.

c. Assistant Chief of Staff G-3

(1) Ensure that all units training at MAGTFTC, MCAGCC receive a brief of this Order, and are familiar with its contents prior to utilizing training areas and ranges.

(2) Ensure adherence to management conditions in MAGTFTC's Integrated Natural Resources Management Plan (INRMP), Integrated Cultural Resources Management Plan (ICRMP), Biological Opinion and Baseline Training NEPA documents.

(3) Coordinate with G-4 (PWD Real Estate) to ensure that training area maintenance projects, target placements, range modifications, the

establishment of new ranges, and any significant change in the training tempo or the use of new weaponry is coordinated with the NREA Division.

(4) Record the annual training area usage in a manner that will provide documented comparative usage data by training area. This record, at a minimum, will include the training area used, days used, number of personnel, number and type of vehicles, and weapons used. Record the types and amounts of ordnance used. Such records shall be created and maintained in order for the installation to remain in compliance with the Environmental Protection and Conservation Recovery Act (EPCRA). These records shall also indicate known and suspect areas, positively identify contamination by nomenclature, hazard, quantity, exact locations, and dud rates.

(5) Ensure that range inspectors are vigilant for environmental violations.

d. All Units/Directorates. Ensure that the requirements of the National Environmental Policy Act (NEPA), as identified per reference (h), are completed on actions requiring environmental documentation. NEPA requires that Federal agencies consider the environmental impacts of proposed actions which may have the potential to impact the human environment. Any action meeting the NEPA threshold must be documented. The consideration and documentation must be accomplished and completed early in the planning process before a decision is made to take an action. NEPA documentation is required for both new and continuing activities and for activities such as trenching, digging, road widening, earth movement and most construction activities; significant changes in ongoing training processes (e.g. significant change in size, number or scope of ongoing training exercises; and deployment of new equipment aboard the installation. This list is not intended to be all-inclusive). Reference (h) should be consulted for further details and NREA should be consulted early and continuously during the planning process. NEPA documentation shall be completed prior to the physical initiation of the action.

5. Administration and Logistics. Distribution Statement A directives issued by the Commanding General are distributed via e-mail. This Order can be viewed at <http://www.29palms.usmc.mil/dirs/manpower/adj>.

6. Command and Signal

- a. Command. This Order is applicable to the Marine Corps Total Force.
- b. Signal. This Order is effective the date signed.

  
R. J. ABLITT  
Chief of Staff



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CCO 5090.1D Ch 1

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SEP 17 2010

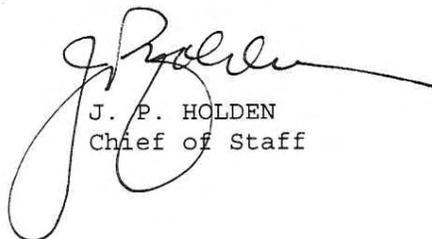
COMBAT CENTER ORDER 5090.1D Ch 1

From: Commanding General

To: Distribution List

Subj: ENVIRONMENTAL PROTECTION

1. Purpose. To transmit pen changes to the basic order.
2. Action. On enclosure (2) paragraph 3 add the following:
  - i. Raven proof covers and doors on trash dumpsters are to be closed at all times when dumpsters are not being actively filled or emptied.
3. Filing Instructions. File this transmittal immediately behind the signature page of the basic Order.

  
J. P. HOLDEN  
Chief of Staff



## COMMANDING GENERAL'S ENVIRONMENTAL POLICY STATEMENT

The two most important national functions of the Marine Corps are making Marines and winning battles. Training for combat is integral to performing these functions. By respecting and maintaining the natural and cultural resources entrusted to the Marine Corps, the training opportunities enjoyed by today's Marines will be preserved.



In combat, leaders consider and conserve the amount of resources expended to achieve the mission. Protecting the environment and conserving natural and cultural resources while performing the training mission of the Marine Corps Air Ground Combat Center are no different. I am committed to applying sound environmental management practices to our Command's resources and continually improving these practices to strengthen our training mission.

Sustaining future operations requires that we continually improve how we manage ranges, training areas, support facilities, and even our homes. I will use a formal, comprehensive Environmental Management System (EMS) to maintain our freedom of action and control risks to operational readiness posed by the environmental impacts of our actions. The EMS integrates environmental stewardship into our daily decision-making and long-term planning processes across all missions, activities, and functions. I will also use our Integrated Natural Resources Management Plan and Integrated Cultural Resources Management Plan to comply with laws and regulations dedicated to conservation and environmental stewardship.

As Marines, we uphold the Constitution by obeying the Nation's laws. Environmental laws are no exception. I am committed to complying with all applicable environmental legal requirements and continually improving EMS performance to minimize these risks to mission. Environmental compliance, pollution prevention, environmental training/awareness, conservation, reporting and responding to contaminated sites or un-permitted releases, and long-term management of training areas are keys to environmental stewardship and mission accomplishment. As good stewards, all Commanders shall strive to generate environmental awareness through leadership and training.

The Marine Corps Air Ground Combat Center's Natural Resources and Environmental Affairs Division Staff is committed to preserving your training mission while conserving natural and cultural resources and complying with our nation's environmental laws. They can be reached at 830-7396 or 7516, if you have any questions.

C. M. GURGANUS  
Brigadier General  
United States Marine Corps  
Commanding General

COMBAT CENTER'S NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION

1. General References and Policies

a. Reference (a) is the Department of Defense Instruction for the "Environmental Conservation Program," which provides specific guidance for the integrated management of natural and cultural resources on property under DoD control.

b. Reference (b) is the Marine Corps' Environmental Compliance and Protection Manual. It provides Marine Corps policy, identifies statutory and regulatory requirements, and assigns responsibilities for the management of the Marine Corps Environmental Program.

c. Reference (c) is MCAGCC's Standing Operating Procedures for Hazardous Waste Management, which includes the management of hazardous materials, hazardous waste and hazardous substances.

d. Reference (d) is MCAGCC's Recycling Materials Program, which stresses the reduction, reuse and recycling of solid waste by each individual aboard the MCAGCC.

e. Reference (e) is MCAGCC's Standing Operating Procedures for Range/Training Areas and Airspace.

f. Reference (f) is MCAGCC's Integrated Natural Resources Management Plan (INRMP), which provides guidance to MCAGCC's five year plan for management and improvement of land usage. It represents a cooperative agreement between MCAGCC, the United States Fish & Wildlife Service (USFWS) and the California Department of Fish & Game (CDFG). This plan also includes a preliminary Wildfire Management Plan and information detailing MCAGCC's compliance with Executive Orders and regulations regarding Invasive Species.

g. Reference (g) is MCAGCC's Order regarding National Environmental Policy Act (NEPA) Compliance. The order details specific information regarding the environmental review and approval process prior to performing or taking an action that may effect the environment.

h. References (h), (i) and (j) address the specific management and legal requirements of the Desert Tortoise, a threatened species protected by federal and state law.

2. Enclosures

a. Enclosure (1) is the Commanding General's Environmental Policy Statement. It details the Combat Center's commitment to balancing training needs with the requirements of conserving resources and complying with our nation's environmental laws.

b. Enclosure (2), this document, contains the majority of environmental protection requirements at the Combat Center.

c. Enclosure (3) is a map showing Special Use Areas and Pre-Designated Range Training Support Sites.

d. Enclosure (4) is detailed maps showing Special Use Areas (#1). These areas are designated as "No Off Road Travel or Maneuver, No Live Fire."

e. Enclosure (5) is the Wildlife Calls Response Matrix. It provides telephone numbers and other information that personnel should refer to when wildlife interferes with training, maintenance, housing or administration.

f. Enclosure (6) is a details MCAGCC's compliance with the Migratory Bird Treaty Act. It lists allowed and prohibited activities regarding bird nests and other situations when birds negatively interact with humans.

g. Enclosure (7) is a listing of animal and plant "Species of Interest." It includes all current species that are listed as Endangered, Threatened, or otherwise protected by the U.S. Fish and Wildlife Service (excluding the Migratory Bird Treaty Act), the State of California Department of Fish and Game, and the California Native Plant Society.

h. Enclosure (8) is Field Wastewater Guidelines. It includes requirements and recommendations for decontamination, equipment washing and "gray" and "blackwater" disposal.

i. Enclosure (9) provides information regarding MCAGCC's Pre-Designated Range Training Support Sites. Units are encouraged to utilize these sites for Forward Logistics Bases, Refueling Points, Field Kitchens and other such uses when they can be incorporated into training scenarios. Little additional environmental documentation is required for use of these sites.

j. Enclosure (10) is a request for Training Access to MCAGCC via Bureau of Land Management administered lands. Cooperation with the agency that administers the majority of lands adjacent to the Combat Center is encouraged, and units requesting tactical equipment movement over these routes are required to process this request via Operations and Training Directorate.

### 3. Waste Management

a. Each organization will designate, in writing, an officer or senior Staff Non-Commissioned Officer (SNCO) as the unit Hazardous Waste Manager. A copy of the appointment letter will be forwarded to the Commanding General; Head, Natural Resources and Environmental Affairs (NREA) Division (Box 788110, Bldg. 1451) (Reference (b), paragraph 2002.1).

b. The use of hazardous materials, including petroleum, oil and lubricants (POLs), and the procedures for management of hazardous waste and the response to spills will be conducted in accordance with reference (c). The use of hazardous materials and the generation of hazardous waste shall be accomplished in a way that minimizes wasteful use and promotes recycling.

c. The treatment of a hazardous material, hazardous waste or hazardous substances, to include empty containers, to minimize its volume or toxicity or to change or remove a physical or chemical characteristic, is only authorized by obtaining a treatment permit or variance. Contact the NREA Division prior to obtaining any equipment or beginning an operation that will perform a treatment process. Treatment is defined as any method, technique or process, including neutralization, designed to change the physical, chemical, or biological character or composition of any hazardous waste so as to neutralize it, or render it non-hazardous or less hazardous, or to recover it, make it safer to transport, store or dispose of, or amenable for recovery, storage, or volume reduction.

d. Spills and incidents occurring at Mainside, Camp Wilson or the Expeditionary Airfield (EAF), involving Petroleum, Oils, Lubricants (POLs), hazardous materials and hazardous waste, known or suspected, will be reported to the Combat Center Fire Department (CCFD) and the NREA Division. If a release of less than five gallons occurs, the unit is directed to initiate cleanup immediately and notify NREA upon completion. Spills greater than five gallons must be reported immediately (Training Areas - Bearmat; Mainside/Camp Wilson - Fire Department and NREA).

SEP 17 2010

e. If a release of any quantity occurs in a training area, the following actions will be taken: (a) Contain the spill; (b) Notify BEARMAT, which will notify the NREA Division; (c) Provide the eight digit grid coordinate (d) Identify a knowledgeable party as the POC; and (e) The responsible unit and NREA will coordinate the cleanup effort. Unless the spill poses an immediate danger to personnel or equipment, the training exercise may continue.

f. All units and individuals aboard MCAGCC shall minimize, reuse and or recycle their solid waste to the maximum extent possible, and shall be specifically cognizant of food waste disposal, as food waste may attract predators of the desert tortoise (refer to section 7). Reference (d) provides specific information on MCAGCC's recycling program.

g. MAGTFTC (via NREA) will normally recycle range residue (i.e., scrap metal) directly from its live-fire and maneuver areas. The single exception to this general rule is when surge or unexpected operations create range residue amounts exceeding the recycling center's capacity, making direct removal and recycling of range residue impracticable. When this occurs, to ensure public safety by discouraging trespassers from entering live-fire and maneuver areas to recover scrap metal, MAGTFTC will temporarily consolidate range residue at a single location on an active range (grid coordinate 579000/3806000).

h. No hazardous material, hazardous waste, suspected hazardous item or solid waste (garbage and litter, including communication wire) is to be disposed of, left, buried, or abandoned in the training areas.

i. Raven proof covers and doors on trash dumpsters are to be closed at all times when dumpsters are not being actively filled or emptied.

#### 4. Air Quality

a. Painting of vehicles using a High Volume-Low Pressure spray gun in open areas is limited to less than one gallon (paint and solvent combined) per day per area. Touch-up painting is considered to be an area of 2 square feet or less. Aerosol painting is allowed for touch-up applications only.

b. Tactical Support Equipment (Mobile Assets excluding Prime Movers) with Internal Combustion Engines (ICE's) such as Generators, Fuel Pumps, Welders, Emergency Lighting, and other equipment exceeding 50 Bhp must be registered with the State of California. Non Tactical Equipment (Stationary Assets) with ICE's at or above 100 Bhp are required to be permitted with the local Air District. Each MAGTFTC organization owning this equipment must submit a list to NREA by 28 February annually. This requirement applies only to equipment based at MCAGCC. Equipment based at other installations must be registered at that location, if required by that state.

c. Containers/Equipment used to store and transfer waste oil with a capacity of 3000 liters (793 gallons) or more require a permit.

d. Gasoline stored in a container larger than 251 gallons requires a permit. Portable gasoline containers may not exceed 5 gallons. Hand pumping of gasoline without a vapor recovery system is allowed only in emergencies.

e. Diesel Fuel/JP8 Storage exceeding 36,000 gallons requires a permit.

f. Maintain speed limits and conduct other activities to reduce dust emissions to the maximum extent possible.

g. Open fires of any kind are strictly prohibited, except for Fire Department personnel engaged in training. No burning is authorized during weather inversions.

5. Water Usage

a. Limit use of potable (drinking) water for non-drinking uses (i.e. landscaping) to the maximum extent possible. Utilize non-potable water for vehicle/equipment washing, compaction and dust control. Xeriscaping (use of cacti and other plants with reduced water needs) should be utilized for all landscaping whenever possible and practical.

b. Washing of vehicles in the training areas or parking lots is prohibited. Only the use of designated vehicle wash areas is authorized (refer to enclosure (8)). The discharge of any wastewater or waste to storm drains, ditches or floor drains is prohibited (EXCEPTION: The washing of privately-owned vehicles or car washes for fund raising events. Coordinate fund raising car washes through the Provost Marshal's Office, Staff Judge Advocate and the NREA Division).

c. Numerous test and active groundwater wells and water pipelines are located in MCAGCC's training areas. Mainside, EAF/Camp Wilson area and the Sand Hill training area host the majority of these sensitive sites. All well sites and pipelines are to be avoided.

d. The use of groundwater wells for training purposes must be requested through, and approval obtained from, both the G-3 and G-4 Directorates (NREA Division, Public Works Division).

e. Wastewater from field kitchens and showers (graywater) may be discharged to land areas. Earthen berms are not authorized unless approved by the NREA Division.

f. Liquid messing wastewater (blackwater) shall not be disposed of to surface waters or to the ground. Blackwater shall be discharged to a preventative medicine-approved greasetrap or through approved collection and removal processes. All messing spoils shall be disposed of as wet garbage at appropriate disposal sites (see enclosure (8)).

6. Portable Toilets. MAGTFTC, MCAGCC owned portable toilets shall be dumped at the Camp Wilson lift station or at the Southwest Region Fleet Transportation facilities (SWRFT). Access to these dumping sites can be obtained through Public Works Division (PWD) or SWRFT. The dumping location and requirements for contracted or rented chemical toilets shall be specified in the contract (see enclosure (8)).

7. Natural Resource Protection

a. The desert tortoise is listed as a threatened species by the U.S. Fish and Wildlife Service under the Endangered Species Act, and by the State of California. It is illegal to possess, harass, injure or kill a threatened or endangered species. Do not pick up a desert tortoise unless it is to save the animal's life. If a desert tortoise is impeding training, notify BEARMAT for additional instructions. If an emergency situation exists, and a tortoise must be moved out of immediate danger, the animal may be moved to an adjacent shaded area (normally plant cover) out of direct sunlight, then notify BEARMAT and the NREA Division.

b. Accidental death or injury to a desert tortoise is not subject to prosecution or penalty if and only if it is reported promptly to NREA Division and Bearmat.

c. Prior to any federal action that "may affect" the desert tortoise, a site survey must be accomplished by a qualified biologist, a biological assessment completed as required, and consultation completed with the United

States Fish & Wildlife Service (USFWS). Due to seasonal activity of the tortoise, the USFWS will only accept "may affect" surveys conducted March 25 through May 31, and, on a case by case basis, in the fall. The required survey and coordination could take up to a year; in most cases coordination is completed in 90 to 120 days, contact NREA Division. Time limitations on other surveys are variable.

d. All camouflage netting must be staked at least 18 inches off the ground in order to prevent entanglement of desert tortoises and other wildlife.

e. No pets are allowed in the training areas (excluding Mainside). Military working dogs will be permitted under control of their handler.

f. Look under vehicles that have been stationary, as tortoises may seek a source of shade. If a tortoise is seen and is impeding movement, notify Bearmat.

g. The possession of otherwise legal captive desert tortoises aboard MCAGCC, including base housing, is prohibited. Under no circumstances are legal captive or wild tortoises from off-base to be released into MAGTFTC, MCAGCC's population. For assistance with information regarding off-base tortoises, contact Joshua Tree Turtle & Tortoise Rescue at (760) 369-1235.

h. Certain migratory and native bird species aboard MCAGCC require special consideration. Bird species, their nests and eggs may not be disturbed, moved, collected or destroyed without consultation with the NREA Division. However, personnel are allowed to "harass" birds attempting to build a nest by indirect means such as bright lights, loud noises, etc. Refer to enclosure (6). Only three bird species found in this area do not require special consideration: the Rock Dove (pigeon), the European Starling, and the Common House or English Sparrow. Tree trimming is not recommended during the nesting season months of February through September.

i. Hunting is prohibited aboard MCAGCC.

j. Recreational use of MCAGCC's training areas is prohibited. Designated locations in the Mainside area are authorized for certain recreational purposes.

k. Several plant and animal species aboard MCAGCC are considered sensitive, and may be listed as threatened or endangered if their populations decline; therefore, respect and protect all native desert wildlife and plant life.

l. The feeding of wildlife aboard MCAGCC is prohibited. Unauthorized feeding of desert wildlife creates an imbalance in the food chain and reduces the animals' natural fear of humans, which places humans, wildlife and domestic pets at risk.

m. The release of exotic wildlife, domesticated pets, aquatic species and those vertebrate and invertebrate species not native to the area is strictly prohibited (reference (b), chapter 11105).

n. The capture of wildlife for any reason is a strictly controlled activity and is only authorized by trained professionals. Animals should be captured only when they are clearly injured, are a direct threat to persons or property, or are themselves at risk of injury or death. The NREA Division, Fire Department and Provost Marshal's Office are equipped and trained to capture wildlife when necessary. Pest species in buildings are the responsibility of the Facilities Maintenance Division. See enclosure (5) for a response matrix.

o. Deceased domestic animals (dogs, cats) and wildlife (mammals and reptiles only, see next paragraph for discussion of birds; tortoises, refer to paragraph b, above) may be disposed at the MAGTFTC, MCAGCC landfill (maximum 50 pounds). Wear gloves when handling dead animals. Animals taken to the landfill should be double-bagged, and landfill operations staff must be informed prior to deposition. Large animals (horses, cows) and dead animals found off the installation may not be disposed of at the MCAGCC landfill (refer to 29 Palms Department of Animal Control-Enclosure (5)).

p. Dead birds where cause of death is known (i.e. killed by cat, roadkill) should be disposed of as in paragraph l, above. If cause of death is unknown, report to PMO or NREA. Wear gloves when handling dead animals. Specimens should be double-bagged and sent to the installation Veterinary Services section (U.S. Army) for determination by that office if the animal should be tested for West Nile Virus or other diseases. If Veterinary Services is unable to take immediate possession, keep the double-bagged specimen on ice or refrigerate (but do not freeze).

q. The introduction of any exotic plant life is prohibited aboard MCAGCC (reference (b), chapter 11105).

r. Open fires and the harvesting or cutting of any native vegetation are prohibited.

#### 8. Cultural Resources

a. Cultural resources aboard MAGTFTC, MCAGCC are protected by federal and state laws that carry substantial civil and criminal penalties if they are damaged, removed or destroyed.

b. Prior to any Federal undertaking, the proposed site(s) must be surveyed for cultural resources and any required consultation must be coordinated with the State Historic Preservation Officer (SHPO) and the Advisory Council on Historic Preservation prior to implementation. This action can require up to 90 days to coordinate and obtain concurrence. Actions that require consultation include construction projects, earth movement (of any depth), and some types of military exercises that require changes in the landscape. If earth movement of any type is proposed, the NREA Cultural Resources Manager needs to be contacted to determine whether cultural resources are or could be involved. If cultural resources are involved, consultation must proceed.

c. If artifacts are discovered during construction or training activities, halt the activity immediately and report the occurrence to the NREA Division and Bearmat.

d. Do not deface any petroglyph or pictograph, or pick up or remove any artifacts, to include arrowheads, from where they are found. Damaged, defaced sites or artifacts must be reported to NREA Division and Naval Criminal Investigative Service.

e. Cliffs, rock formations, etc., cannot be defaced, painted, or damaged in any way. With prior clearance, rocks may be arranged in patterns for operational needs, or in command areas, as long as the areas are returned to their natural condition.

f. The removal and painting of rocks from the field for landscaping or signage is prohibited.

9. Training Area Activities

a. Coordination and Scheduling

(1) Personnel and units training aboard MAGTFTC, MCAGCC must receive all briefings required by the G-3 Directorate, to include a complete environmental briefing by qualified staff.

(2) Pre-Designated Range Training Support Sites (PRTSS) have been designated within several MAGTFTC, MCAGCC Training Areas. The use of these sites greatly reduces the level of environmental coordination. The PRTSS should be selected in advance and developed into the training scenario. PRTSS areas will be scheduled by the Range Management Section, G-3 Directorate. See Enclosure (7).

b. Access and Trespass Incidents

(1) Prior to operating on land not within MAGTFTC, MCAGCC's boundaries, such as that managed by the Department of Interior, Bureau of Land Management (BLM), the requesting unit must coordinate the proposed action through the O&T Directorate. The O&T Directorate will coordinate the required environmental actions with the NREA Division. See Enclosure (10).

(2) The "Cleghorn Lakes Wilderness Area," located to the south of the Cleghorn Pass, Bullion and America Mine Training Areas, is managed by the BLM. Accessing or departing the southeastern ranges through this area is strictly prohibited. No entry is allowed in this protected area. There is no authorized access to the Cleghorn Pass, Bullion or America Mine Training Ranges from a southerly direction.

(3) The "Ord-Rodman Critical Habitat" for desert tortoise and two associated wilderness areas are adjacent to the Sunshine Peak Training Area. No entry is allowed in these protected areas.

(4) Incidents involving trespassing and dropping, firing, or detonating ordnance or weapons off-base will immediately be reported the Director, G-3, Head, NREA and Staff Judge Advocate (SJA).

c. Vehicle Operations

(1) Comply with posted or established speed limits in training areas and in garrison. Excessive speed is a safety hazard; it creates excessive stress on equipment and increases maintenance and repair costs and it contributes significantly to dust emissions.

(2) All training units should limit off-road activity to that which is absolutely necessary to directly support the mission. Off-road maneuver exercises will be planned to emphasize the use of already damaged sites.

(3) "Neutral Steer" turns of tracked vehicles shall be limited to emergency situations only. The O&T Directorate will coordinate with the NREA Division to identify authorized areas for practicing "Neutral Steer" turns. No unit shall practice neutral steers in sensitive areas (see enclosure (3)), such as the Sand Hill Training Area.

d. Land Disturbance

(1) Approval must be obtained from both the G-3 Directorate and the NREA Division prior to clearing land (grading) or conducting any vegetation removal action in the training areas.

(2) Trenches, defilades, "tank traps" and fighting positions must be filled to original grade and excess material leveled after each use.

e. Camouflage Netting: Camouflage netting is to be erected a minimum of 18 inches above the ground to prevent the entanglement of desert tortoises and other wildlife. See "Natural Resources Protection" (page 3) of this order for more information on the Desert Tortoise.

f. Special Use Areas (Category 1)

(1) The following sites are designated no impact, no mechanized maneuver areas aboard MAGTFTC, MCAGCC. Access to these sites under emergency situations is allowed, but should be limited as possible until NREA Division is consulted. These sites are set aside for the purpose of protecting and studying important biological and cultural resources. Refer to enclosures (3) and (4) for detailed maps. No bivouacs, no off-road vehicles, nor any training involving vehicle activity is authorized within these areas:

(a) Surprise Spring/Sand Hill: All military training vehicles must remain on established Main Supply Routes (MSRs). Only NREA and authorized Facilities Management Division (water and maintenance crews) personnel will enter areas off the MSRs. UTM grid coordinates: from NW corner 648982 to 705985 to 720958 to 759978 to 760972 to 710942 to 646942 and back to the NW corner. No excavation or collection of artifacts is authorized in the Surprise Spring Archeological District (Grid 71/95).

(b) Foxtrot Petroglyphs: UTM grid coordinates: SW 97/09 to NE 00/10. This area, a site listed on the National Register of Historic Places, is strictly off-limits to all military training, personnel and equipment. All forms of graffiti, defacement, or removal of rock art (petroglyphs and pictographs) are illegal and incidents will be reported to the Commanding General.

(c) Deadman Lake Cultural Resource Management Area: The south and western shores of Deadman Lake (UTM Grids 80/95, 79/96, 78/98 and SW 77/98 to NE 79/00). All military training and vehicles must remain on established Main Supply Routes. Collecting artifacts, excavations and otherwise damaging any of these sites is prohibited. This area is fenced and all trespass within the fenced area is prohibited.

(d) Emerson Lake/Lavic Lake Historic Sites: The south face of the Pisgah lava flow (SW 59/37 to NE 62/38). The southern shore of Emerson Lake (SW 550/085 to NE 580/105). Stay on MSR's. Collecting artifacts, excavations and otherwise damaging any of these sites is prohibited.

(e) Historic Mines and prospects: All abandoned mines and prospects on the Combat Center are considered historic resources and are protected by law. They are also sensitive for biological resources. Additionally, historic mines are extremely hazardous due to their age and structural integrity. All mines and prospects are strictly off limits to all personnel and equipment.

(f) Lead Mountain Study Plots: Grid 97/16 is off-limits to off-road vehicular and other training activity. Cultural and Biological Resources in this area are considered sensitive. In grid 00/22, vehicles are allowed on the MSR, only.

g. Special Use Areas (Category 2)

(1) The following sites, shown in enclosure (3), are designated as Special Use Areas determined by different qualities of environmental

sensitivity. While there are no limitations to training specified in this order, units are cautioned to be aware of the sensitive natural and cultural resources located in these areas. Improper utilization of these areas may result in future environmental constraints:

(a) Sand Hill: the area south of the restricted area and west of the Expeditionary Airfield.

(b) Emerson Lake/Acorn: the area south of the 08 and west of the 58 gridlines. The rectangle, SW corner: 566570 E / 3799740 NNE corner: 568345 E / 3800580 N.

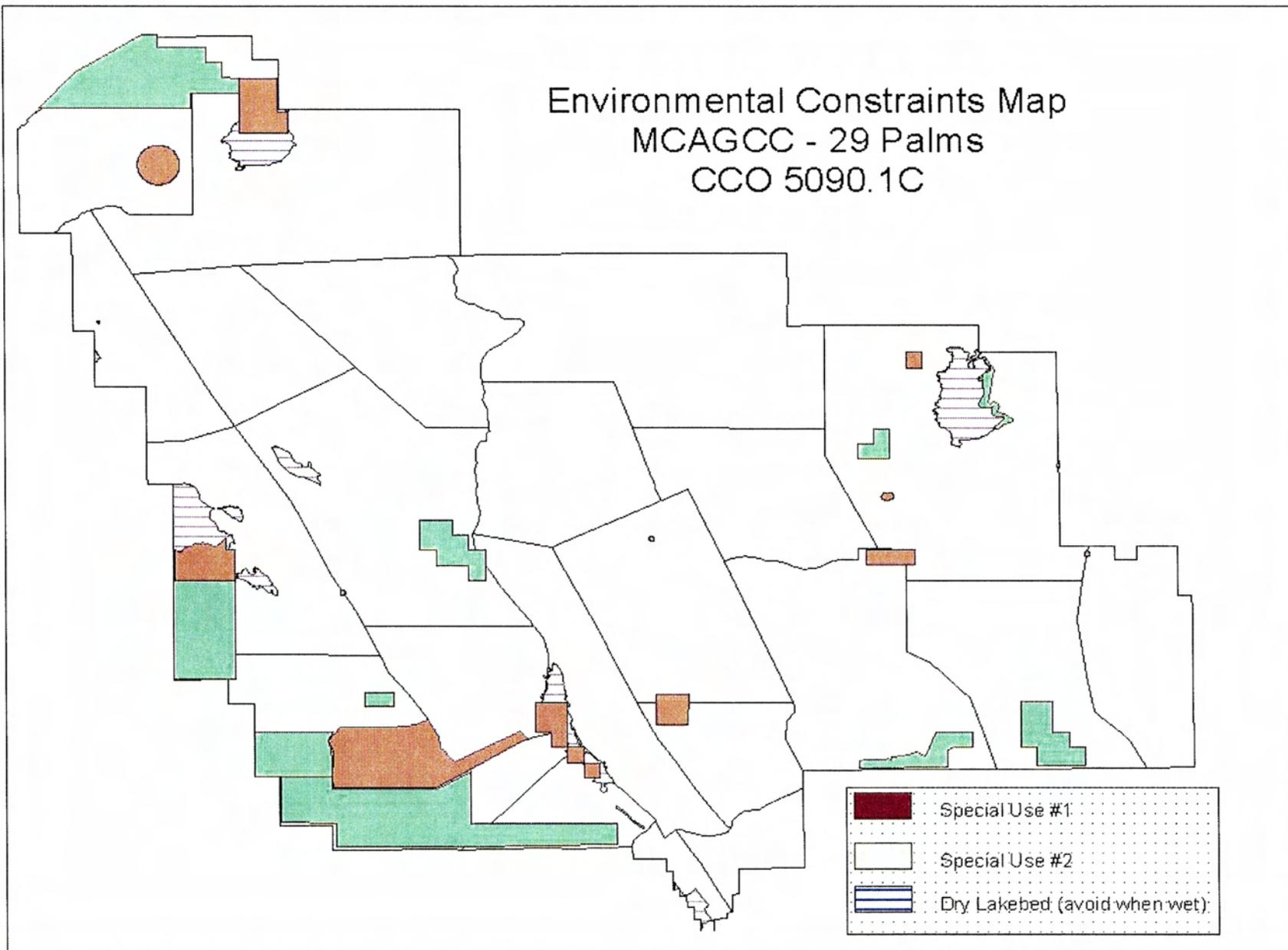
(c) Cleghorn Pass: southern Cleghorn Pass Training Area, less the fixed ranges (400, 410, 410A, 500, BZO).

(d) Wood Canyon: Located in east-central Quackenbush Lake, this area has sustained significant impact from transit traffic. This has damaged the desert willow "cover" which is both rare and highly desirable for training purposes. Units should utilize other routes when possible, preferably the MSR northeast of Wood Canyon.

(e) Northern Sunshine Peak, Northwest Lavic Lake: These remote areas are sensitive due to their proximity to BLM Wilderness and "Critical Habitat" for the Desert Tortoise.

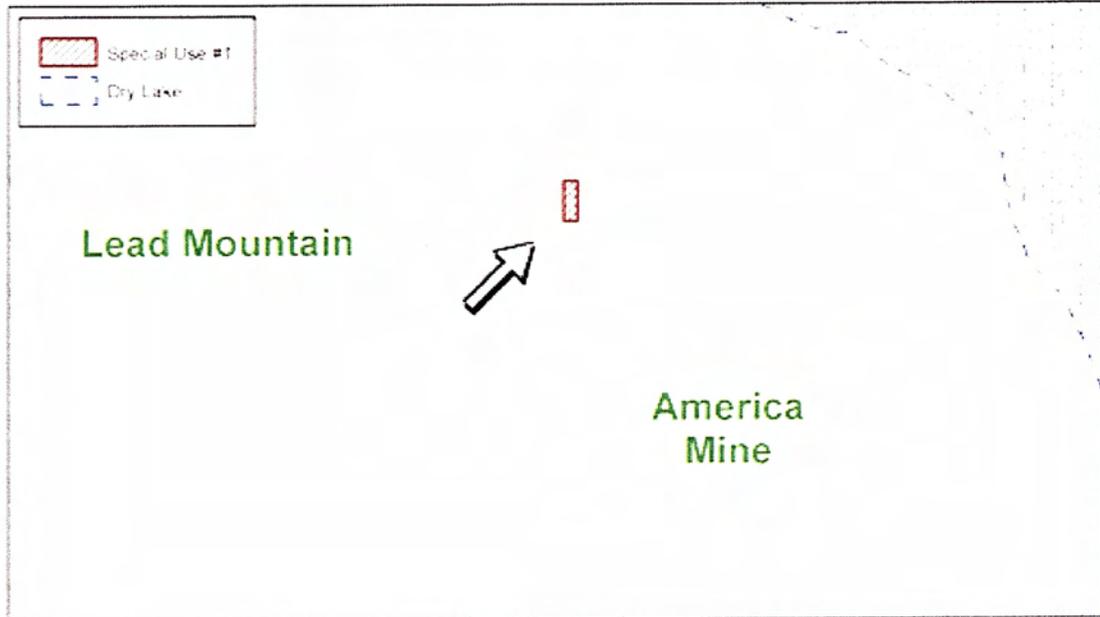
(f) Southern Bullion: This remote area is sensitive due to its proximity to BLM Wilderness.

h. Dry Lakebeds. All dry lakebeds (Lavic Lake, Emerson Lake, Quackenbush Lake, Deadman Lake, Ames Dry Lake, Mesquite Lake and Dry Lake--Lead Mountain Training Area) are sensitive areas that should be avoided when wet (refer to Enclosure 2). Vehicles may easily become stranded in the mud, and very significant ground disturbance would also occur. Additionally, units should be aware that the now-dry lakebeds were the focal point of historic and pre-historic land use by Native Americans and others. For this reason, several of the nearby lakeshore areas contain protected cultural resources, and are protected by the National Historic Preservation Act and the Archeological Resources Protection Act--refer to section 8a(1).



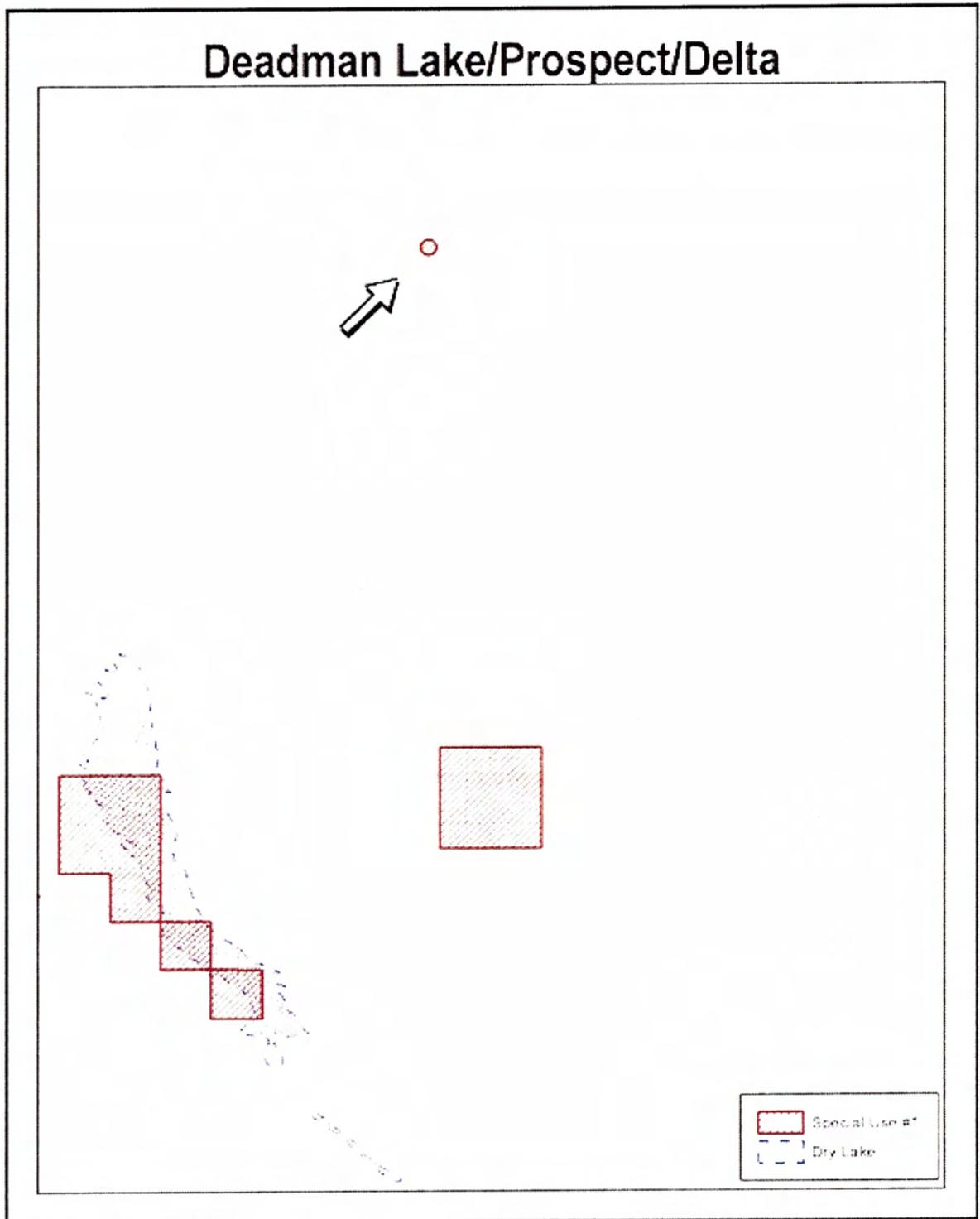
# SPECIAL USE AREAS

## America Mine

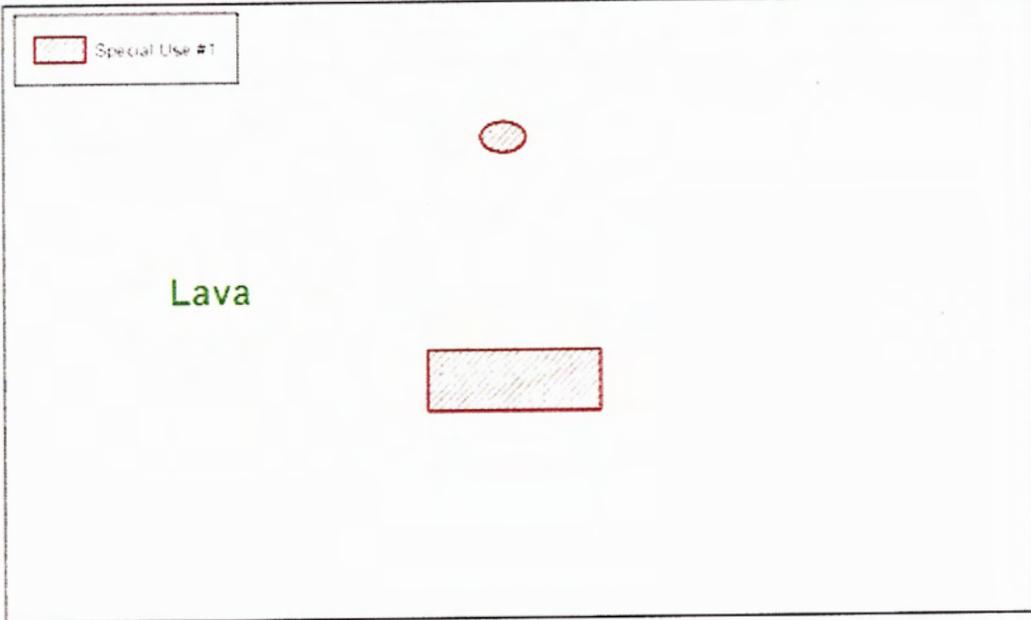


## Emerson Lake

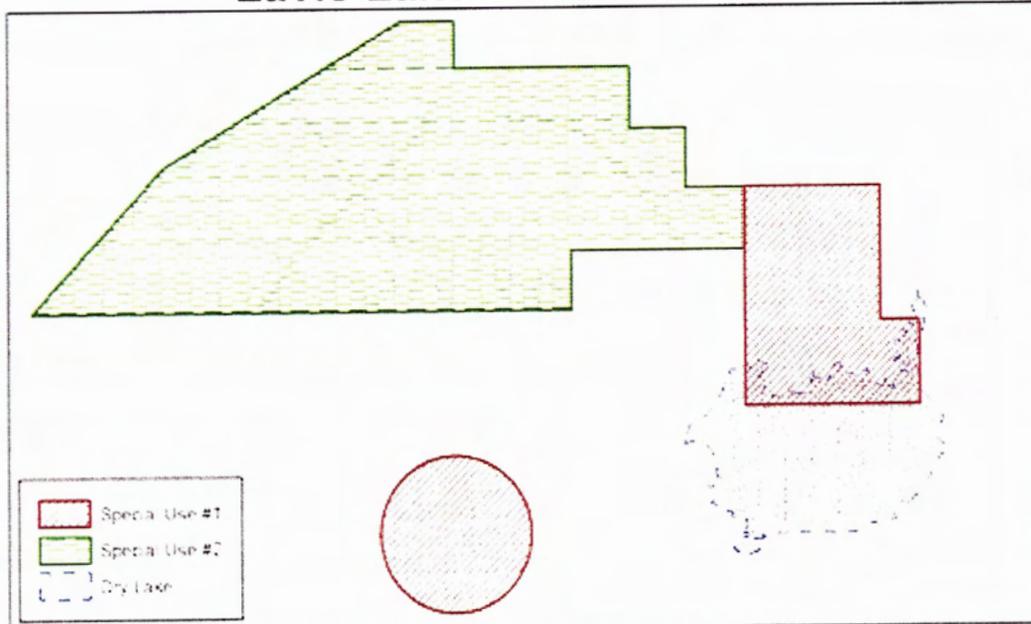




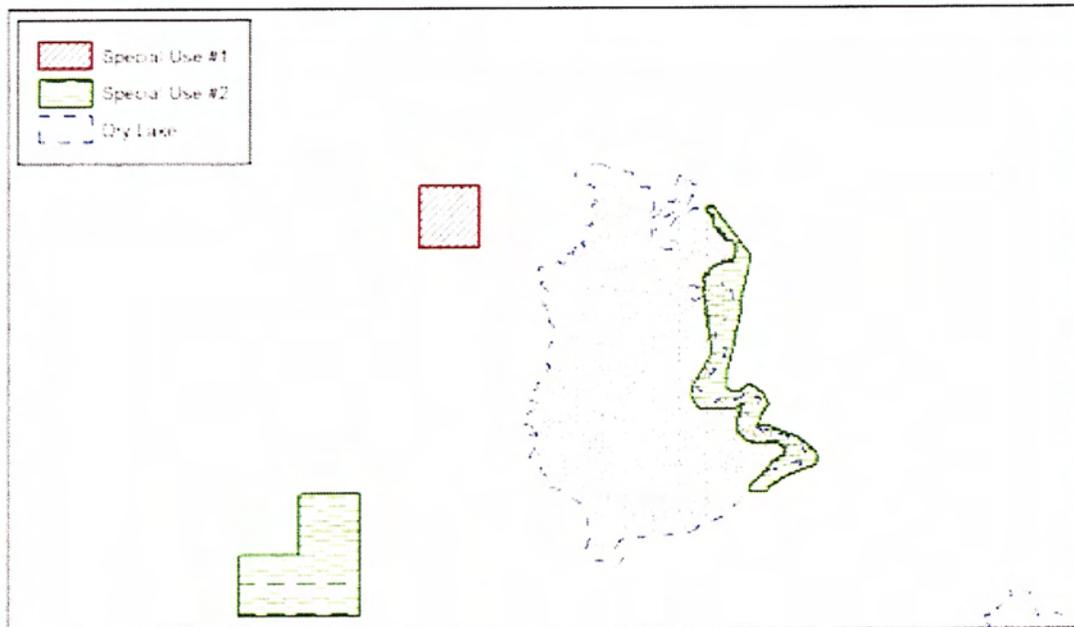
## Foxtrot Petroglyphs



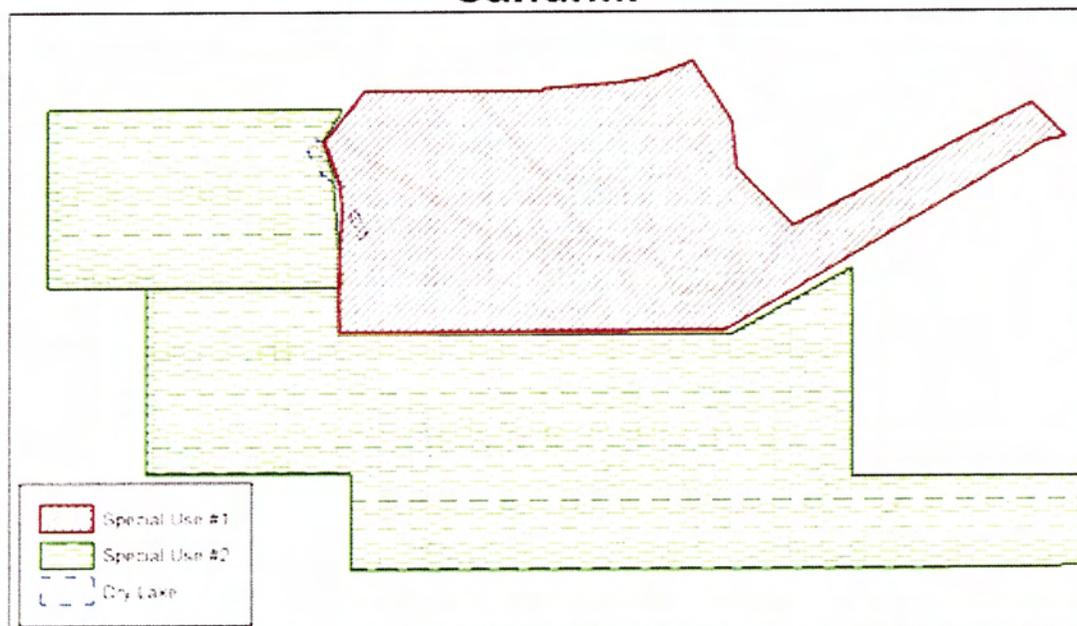
## Lavic Lake/Sunshine Peak



## Lead Mountain



## Sandhill



"Animal Issues" Response Matrix

Animal	Primary Response	Phone	Secondary Response	Phone	Consultation	Phone
Bats (structures/buildings)	NREA	7396	PWD (After hours)	7796	NREA	7396x236
Bees	PWD (Pest Control)	6650	PWD (After hours)	7796	S.B.Cnty.Dep t.Agric. (909)	387-2105
Birds of Prey <sup>1</sup>	NREA	7396	C.V. Wild Bird Center	347-2647		
Birds (Pests) <sup>2</sup>	PWD (Pest Control)	6650	PWD (After hours)	7796		
Birds (Other) <sup>3</sup>	NREA	7396	C.V. Wild Bird Center	363-1966		
Coyotes	PMO	6800	NREA	7396	29 Palms Animal Control	367-0157
Domestics (Dogs/Cats)	PMO	6800	n/a	----	29 Palms Animal Control	367-0157
Insects / Household Pests	PWD (Pest Control)	6650	PWD (After hours)	7796	n/a	----
Road-kill	PMO	6800	n/a	----	29 Palms Animal Control	367-0157
Rodents (Household)	PWD (Pest Control)	6650	PWD (After hours)	7796	n/a	----
Snakes *	NREA	7396	Fire Department	6871		
Tortoises <sup>4</sup>	NREA	7396	Bearmat	6535	PMO	6800

<sup>1</sup> Birds of Prey include **hawks, falcons, eagles, kestrels** and owls.

<sup>2</sup> Pest bird species: **Pigeon (Rock Dove), European Starling, English House Sparrow.**

<sup>3</sup> Other bird species may be protected. At certain times of the year, the protection level changes (i.e. nesting season). Response may vary.

<sup>4</sup> Tortoises: **Mainside:** Call NREA 24 hours, 7 Days (PMO has callback numbers). **Training Areas:** Bearmat (Range Control)

\* **In case of snakebite, call 911 immediately !!!**

**Training Areas: Range Control (Bearmat) is responsible for all wildlife issues that involve/impede training.**

**"Primary response" is the initial point of contact. If this office is closed or otherwise unavailable, the reporting party should then contact the "Secondary response" office listed.**

**"Secondary response" should be notified when the "Primary response" office is unavailable.**

**RESIDENTS OF "801 Housing": All animal issues are the responsibility of Twentynine Palms Animal Care and Control Department, 367-0157 or the Fire Department for emergencies (911). PMO may respond under certain circumstances (6800).**

GUIDANCE FROM NREA DIVISION

MIGRATORY BIRD TREATY ACT

What you should know:

Passed in 1918, the Migratory Bird Treaty Act (MBTA) protects birds that live, reproduce or migrate within or across international border areas. The law applies to federal agencies including the U.S. Marine Corps.

This Act states that... it shall be unlawful at any time, by any means or in any manner, to pursue, hunt, take, capture, kill, attempt to take, capture or kill, possess, offer for sale, sell, offer to barter, barter, offer to purchase, purchase, deliver for shipment, ship, export, import, cause to be shipped, exported or imported, deliver for transportation, transport or cause to be transported, carry or cause to be carried or receive for shipment transportation, carriage, or export, any migratory bird, any part, nest or egg of any such bird, or any product...of any such bird or any part, nest or egg thereof.

Through the MBTA, Congress has made it unlawful to harm protected birds or their nests.

At MAGTFTC 29 Palms, virtually all birds are protected by this law. One notable exception is the common pigeon (Rock Dove).

What you should do:

- Inspect vehicles (especially tactical vehicles), equipment and buildings frequently. Some birds like to build nests in engine compartments and in tactical vehicles.
- Close hangars, K-Spans and other large, open buildings whenever possible, especially during spring, to discourage birds from constructing nests inside.
- Limit tree trimming to maximum possible extent, Feb - Oct (consult NREA).
  - You may use deterrents such as lights, noise, etc. to discourage nest construction, but deterrents must stop when eggs are laid.
- You may not expose MBTA protected birds to any harm, including intentional injury or death.
  - Movement of nests:
    - With coordination from the NREA Division, under some circumstances, nests can be moved or dismantled before eggs are laid
    - Only NREA Division personnel may move a nest with eggs or hatched young! (This action requires a permit from the United States Fish & Wildlife Service and is permitted only on a case-by-case basis, which may take 7 to 10 days).

Who you should call:

NREA Division, 830-7396. After hours, call the Fire Department 830-6475 or PMO 830-6800.

# NATURAL RESOURCES

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## Animals

### Federally Listed (resident)

Desert tortoise (T)

Golden eagle<sup>1</sup>

### Federally Listed

#### (migratory)

Willow flycatcher (E)

Bell's vireo (E)

Snowy plover (T)

### Federal Species of Special Concern

### Reptiles

Chuckwalla

### Birds (resident)

Burrowing owl

Loggerhead shrike

### Birds (migratory)

White-faced ibis

Black tern

Ferruginous hawk

### Mammals

Pallid San Diego pocket mouse

Western mastiff bat

Townsend's big-eared bat

Small-footed myotis

Long-eared myotis

<sup>1</sup> Bald and Golden Eagle  
Protection Act

E -- Endangered

T -- Threatened

## SPECIES OF INTEREST TO MCAGCC

### California Listed (resident)

Desert tortoise (T)

### California Listed

#### (migratory)

Peregrine falcon

Gilded flicker

Willow flycatcher

Bell's vireo

### California Species of Special Concern

### Reptiles

Mojave fringe-toed lizard

### Birds (resident)

Long-eared owl

Burrowing owl

Golden eagle

LeConte's thrasher

Northern harrier

Sharp-Shinned hawk

Cooper's hawk

Prairie falcon

Loggerhead shrike

### Birds (migratory)

California thrasher

Yellow warbler

Short-eared owl

American white pelican

Double-crested cormorant

White-faced ibis

Snowy plover

Long-billed curlew

California gull

Black tern

Ferruginous hawk

Osprey

Merlin

Vaux's swift

Brown-crested flycatcher

### Mammals

Pallid bat

California leaf-nosed bat

Long-eared myotis

Small-footed myotis

Western mastiff bat

Pallid San Diego pocket mouse

Townsend's big-eared bat

ENCLOSURE (2)

# NATURAL RESOURCES

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CCO 5090.1D  
MAR 03 2009

## Plants

### SPECIES OF INTEREST TO MCAGCC

#### California Listed

(none)

#### Federally Listed

(none)

#### Calif. Sensitive Species

#### Federal Sensitive Species

White-margined  
beardtongue  
Foxtail cactus  
California Barrel Cactus  
Crowned muilla  
Sand linanthus  
Parish's onion

White-margined  
beardtongue  
Foxtail cactus  
Crucifixion thorn  
Jackass clover  
Alkali goldfields  
Parish's onion  
Utah cynanchum  
Crowned muilla  
Rough stemmed forget-me-  
not  
Narrow-leafed bedstraw  
Sand linanthus

MARINE AIR GROUND TASK FORCE TRAINING COMMAND (MAGTFTC)  
MARINE CORPS AIR GROUND COMBAT CENTER (MCAGCC)  
29 PALMS, CALIFORNIA

**FIELD WASTEWATER GUIDELINES**

1. **FIELD WASTEWATER.** Field Wastewater consists of contaminated water that is discharged from field shower and laundry units as well as water discharged from field kitchen and messing. Contaminated water discharged from laundry and shower units is identified as "Gray Water". Contaminated water discharged from field kitchens and mess facilities is identified as "Black Water".

**"Gray Water"** is water contaminated with biodegradable laundry detergents discharged from field laundry units and water contaminated with body hygiene soap or shampoos discharged from field laundry and personnel hygiene shower equipment. Gray water is an authorized wastewater discharge to any area in the field that restricts the movement of the discharged gray water to the immediate area of the discharge by naturally occurring or developed ground surface impoundment that detains the wastewater on site for the purpose of evaporation and percolation disposal. A constructed ground surface impoundment is created by utilizing sandbags. If sand bags are used, they are to be emptied and removed upon cessation of operations or final movement from the operation area.

**Note 1:** Seepage pit excavation or earthen berms established by engineer equipment is not authorized unless approved by the MAGTFTC MCAGCC NREA Division.

**Note 2:** At no time will individual or crew served weapons be cleaned in personnel shower/decon units that discharged to ground surface impoundments.

**Note 3:** Gray water generated by field laundry equipment used to clean petroleum product soiled work clothing or rags soiled with petroleum products must be containerized for appropriate petroleum contaminated wastewater disposal.

**"Black Water"** is water contaminated with food particles and grease generated by food preparation and cleaning of messing operations in the field. Field messes/kitchens will collect all food wastes as well as grease-trap type grease in appropriate containers for proper disposal. Food wastes may be disposed of at the MAGTFTC MCAGCC landfill (if it is de-watered to 50% or less) or in approved dumpsters at Camp Wilson. Grease-trap type grease will be appropriately containerized and disposed of at the grease collection bin located behind Building 2347 (the Warrior Club) at Camp Wilson. At no time will grease-trap type grease or wastewater contaminated with grease-trap type grease or food chunks be discharged to ground. Black Water is considered contaminated with grease-trap type grease if it accumulates more than a one eighth inch scum when left to stand undisturbed. Black Water is considered contaminated with food chunks if it contains particles of food greater than one-eighth inch in diameter.

3. **VEHICLE/EQUIPMENT WASHING.** Vehicle/equipment maintenance washing IS NOT AUTHORIZED in the field, with the exception of decontamination NBC training with unit organic sanators. Maintenance washing will take place only at authorized facility wash areas.

4. **INFORMATION.** For questions concerning field sanitation/wastewater disposal, contact the MAGTFTC MCAGCC Natural Resources and Environmental Affairs Division, Water Resources Office, Building 1450, (760) 830-7883, DSN 230-7883.

# PRE-DESIGNATED RANGE TRAINING SUPPORT SITES

## MAGTFTC MCAGCC, 29 Palms

### General Information:

Pre-designated Range Training Support Sites (PRTSS) are intended to be multiple use areas. They are authorized for use including bivouac, berm construction, trenching, Forward Ammunition Resupply Point (FARP), Forward Logistics Base (FLB), field mess, field showers, etc. Note different sizes of PRTSS in chart below.

MAGTFTC, MCAGCC has established the multiple use PRTSS as a means to reduce the environmental burden on training units, ensure environmental compliance, and extend the use of our valuable training lands.

Refer to base map on reverse. Enlarged maps of each area are available from Range Scheduling Section (contact info next paragraph).

IN MOST CASES, ENVIRONMENTAL CLEARANCE IS NOT REQUIRED FOR USE OF THESE AREAS. Coordinate directly with G-3 Directorate, Range Scheduling Section, Operations and Training Directorate, (760) 830-6313, DSN 230-6313.

**The management of wastewater discharge, bulk fuel storage and hazardous waste, etc. each have specific requirements** and need to be coordinated with the Natural Resources and Environmental Affairs Division (NREA), (760) 830-7396, DSN 230-7396.

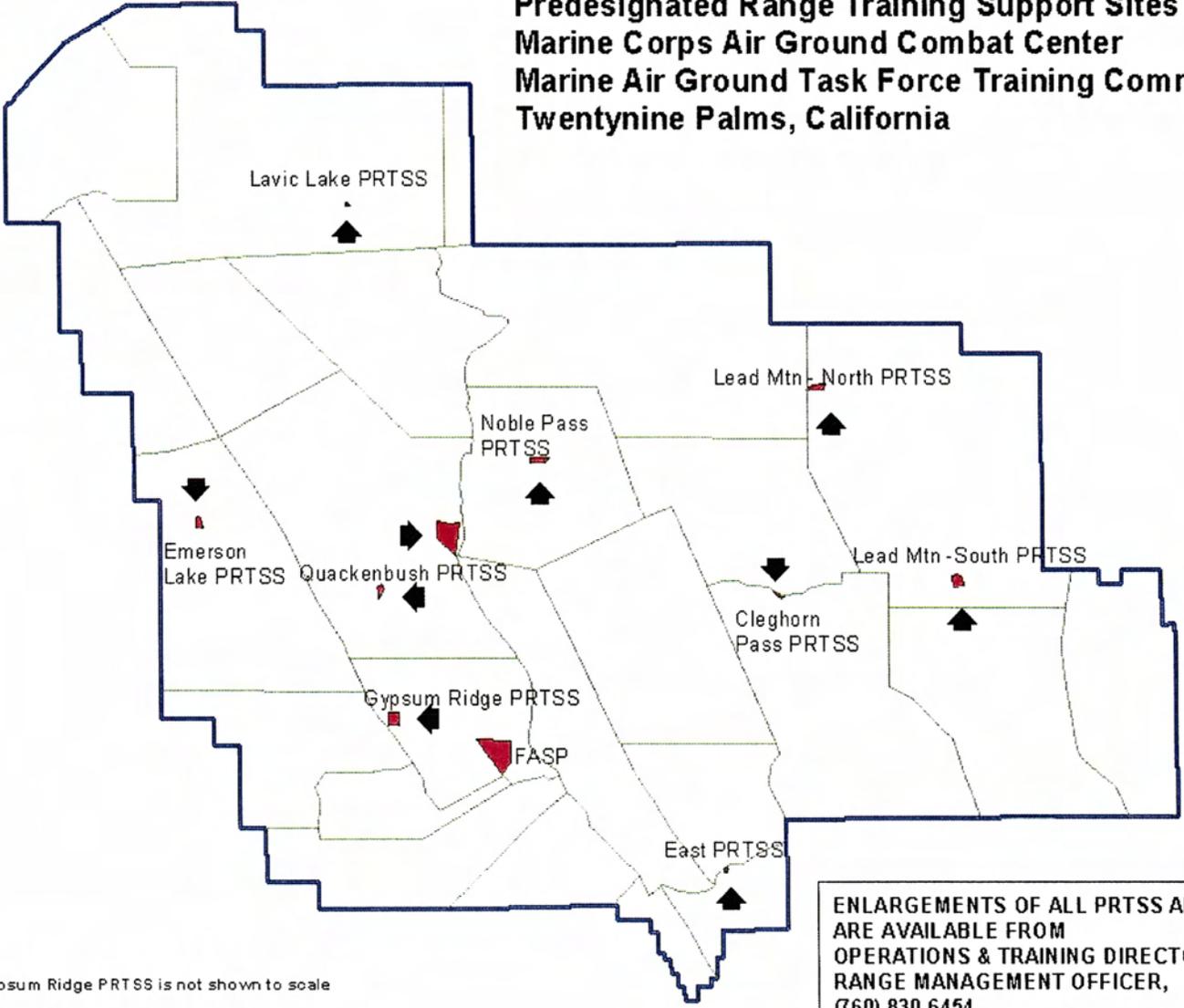
If the established PRTSS do not meet your training needs, the NREA Division and G-3 Directorate will consider additional sites. However, this action requires advance planning and survey efforts (coordinate 30-60 days in advance if possible). Contact NREA to initiate this process.

### Grid location (approximate center point):

**WGS 84 / NAD 83      Bold numbers are the four-digit grid reference.**

Site Name (in alphabetical order)	Acre (approx)	EASTING	NORTHING
CLEGHORN PASS	19.7	5 <b>93</b> 100	38 <b>08</b> 700
EAST	16.6	5 <b>89</b> 750	37 <b>92</b> 500
EMERSON LAKE	55.7	5 <b>57</b> 200	38 <b>13</b> 000
FASP	595.7	5 <b>75</b> 750	37 <b>99</b> 400
GYPSUM RIDGE	2.7	5 <b>69</b> 300	38 <b>01</b> 500
LAVIC LAKE	10.3	5 <b>66</b> 600	38 <b>31</b> 850
LEAD MOUNTAIN NORTH	83.9	5 <b>95</b> 500	38 <b>21</b> 050
LEAD MOUNTAIN SOUTH	99.2	6 <b>04</b> 170	38 <b>09</b> 550
NOBLE PASS	79.8	5 <b>78</b> 300	38 <b>16</b> 700
QUACKENBUSH NORTH	469.6	5 <b>72</b> 600	38 <b>12</b> 300
QUACKENBUSH SOUTH	48.0	5 <b>68</b> 400	38 <b>09</b> 000

**Predesignated Range Training Support Sites  
Marine Corps Air Ground Combat Center  
Marine Air Ground Task Force Training Command  
Twentynine Palms, California**



Note: Gypsum Ridge PRTSS is not shown to scale

ENLARGEMENTS OF ALL PRTSS AREAS  
ARE AVAILABLE FROM  
OPERATIONS & TRAINING DIRECTORATE,  
RANGE MANAGEMENT OFFICER,  
(760) 830-6454  
[DSN 230-6454].

**REQUEST FOR ACCESS TO  
MCAGCC TRAINING AREAS  
THROUGH BLM LAND**

**The following information must be provided to the Head, NREA via the Director, G-3, by any unit, contractor, or other authorized personnel requesting access to MCAGCC training ranges through BLM land:**

UNIT/ORGANIZATION: \_\_\_\_\_

POC/TEL NO: \_\_\_\_\_

TYPE OF VEHICLE(S): \_\_\_\_\_

NUMBER OF VEHICLES: \_\_\_\_\_

NUMBER OF PERSONNEL: \_\_\_\_\_

REASON FOR ACCESS: \_\_\_\_\_

ACCESS LOCATION (GC): \_\_\_\_\_

TIME/DATE OF ACCESS/EGRESS: \_\_\_\_\_

LOCATION IN TRAINING AREA (GC): \_\_\_\_\_

MAP (SHOWING ROUTE AND POSITION): \_\_\_\_\_

**The following requirements must be adhered to while accessing/egressing BLM land:**

1. Wheeled vehicle/pedestrian traffic **only**.
2. Speed limit not to exceed 25 mph.
3. **NO** tactical maneuver on BLM land. If traveling at night, lights must be on.
4. **NO** cross-country travel. Access **MUST** be over established roads identified on maps. MCAGCC
5. Report any observed unexploded ordnance to Bearmat ASAP, and mark accordingly. Police litter  
as appropriate.
6. Be observant to the presence of animals, especially the federally listed Threatened species, desert tortoise. If a tortoise is crossing the road, allow it to cross before proceeding. To avoid unnecessary damage to the terrain, do not negotiate vehicles around the tortoise.
7. All off-base land access must be pre-approved by Dir, G-3 and Head, NREA.

\_\_\_\_\_  
Director, G-3 - Date Head, NREA - Date