

# **ENVIRONMENTAL PERFORMANCE STANDARDS**

**March 19, 2026**

For Massachusetts National Guard Properties at the Joint Base Cape Cod

## **CAMP EDWARDS TRAINING AREA GENERAL PERFORMANCE STANDARDS**

**None of the following banned military training activities shall be allowed in the Camp Edwards Training Areas:**

- Artillery live fire
- Mortar live fire
- Demolition live fire training
- Artillery bag burning
- Use of 'CS', riot control, or tear gas for training outside the NBC bunkers
- Use of field latrines with open bottoms
- Field maintenance of vehicles above operator level

**Limitations on the use of small arms ammunition and live weapon fire fall into the following two categories:**

- Live weapon fire is prohibited outside of established small arms ranges. Live weapon fire is not allowed on established small arms ranges except in accordance with Environmental Performance Standard 19, other applicable Performance Standards, and a range-specific plan approved through the Environmental Management Commission (EMC).
- Blank ammunition for small arms and simulated munitions may be used in areas outside of the small arms ranges, using only blank ammunition and simulated munitions identified on an approved list of munitions. Joint review and approval for inclusion on the list shall be through by the Environmental & Readiness Center (E&RC) and the EMC.

Each user will be responsible for proper collection, management, and disposal of the waste they generate, as well for reporting on those actions.

Use and application of hazardous materials or disposal of hazardous waste shall be prohibited except as described in the Groundwater Protection Policy.

Vehicles are only authorized to use the existing network of improved and unimproved roads, road shoulders, ranges and bivouac areas, except where necessary for land rehabilitation and management, fire protection, water supply development, and remediation, or where roads are closed for land rehabilitation and management.

**Protection and management of the groundwater resources in the Camp Edwards Training Area will focus on the following:**

- Development of public and Joint Base Cape Cod water supplies.
- Preservation and improvement of water quality and quantity (recharge).
- Activities compatible with the need to preserve and develop groundwater resources.

All users of the Camp Edwards Training Area must comply with the provisions of the Groundwater Protection Policy and any future amendments or revisions to the restrictions and requirements. These will apply to all uses and activities within the overlays relative to Wellhead Protection, Zone II's within the Cantonment Area, and the Camp Edwards Training Areas.

Development of water supplies will be permitted within the Camp Edwards Training Area after review and approval by the managing agencies, principally the Department of the Army and its divisions, together with the Massachusetts Department of Environmental Protection, and the Massachusetts Division of Fisheries and Wildlife.

All phases of remediation activities will be permitted within the Camp Edwards Training Area after review and approval by the managing agencies, principally the Department of the Army and its divisions, together with the federal and state agencies who will have jurisdiction for remediation.

**Pollution prevention and management of the Camp Edwards training ranges will focus on and include the following:**

The Camp Edwards Training Area, including the Small Arms Ranges (SAR) and their associated "Surface Danger Zones," and any areas where small arms or other munitions or simulated munitions are used, shall be managed as part of a unique water supply area under an adaptive management program that integrates pollution prevention, and best management practices (BMP), including the recovery of projectiles. This will be done through individual range-specific plans that are written by the Massachusetts National Guard and approved for implementation through the EMC and any other regulatory agency having statutory and/or regulatory oversight. Adaptive, in this context, means making decisions as part of a continual process of monitoring, reviewing collected data, evaluating advances in range monitoring, design and technology, and responding with management actions as dictated by the resulting information and needs of protecting the environment while providing compatible military training within the Upper Cape Water Supply Reserve.

A range plan shall be designed and followed to reduce the potential for an unintended release to the environment outside of the established containment system(s) identified in the range-specific plans. All users must be aware of, and comply with, the Environmental Performance Standards that are applicable to all SAR activities. Any range specific requirements will be coordinated through the E&RC with the EMC, incorporating those specific requirements into the appropriate range-specific plans and range information

packets. Camp Edwards SAR Pollution Prevention Plan shall be followed to prevent or minimize releases of metals or other compounds related to the normal and approved operation of each SAR. The adaptive SAR management program components required in each range-specific plan shall include:

- Consultation with applicable agencies with oversight of the training area before undertaking any actions that are subject to state and/or federal regulatory requirements.
- Specific recovery plans for the removal and proper disposition of spent projectiles, residues and solid waste associated with the weapons, ammunition, target systems, and/or their operation and maintenance.
- Reduction of adverse impacts to the maximum extent feasible, including consideration for the design/redesign and/or relocation of the activity or encouraging only those activities that result in meeting the goal of overall projectile and/or projectile constituent containment.
- Internal and external coordination of documentation for the Camp Edwards range management programs and other related Camp Edwards management programs including: the Integrated Training Area Management Program, Range Regulations, Camp Edwards Environmental Management System, Civilian Use Manual, and Standard Operating Procedures.
- Long-term range maintenance, monitoring and reporting of applicable parameters and analysis.

The Massachusetts National Guard shall ensure that all training areas where munitions or simulated munitions are used or come to be located, including range areas, range surface danger zones, and any other areas within the Upper Cape Water Supply Reserve that are operational ranges are maintained and monitored following approved management plans that include planning for pollution prevention, sustainable range use and where applicable, restoration.

**Protection and management of the vegetation of the Camp Edwards Training Area for focus on the following:**

- Preservation of the habitat for federal- and state-listed rare species and other wildlife.
- Preservation of wetland resource areas.
- Activities compatible with the need to manage and preserve the vegetative resources.
- Realistic field training needs.
- Identification and restoration of areas impacted by training activities.

**Goals for the Adaptive Ecosystem Management approach to management of the Camp Edwards properties will be as follows:**

- Management of the groundwater for drinking water resources.
- Conservation of federal- and state-listed species.

- Management of federal- and state-listed species habitat for continuation of the species.
- Ensuring compatible military training activities.
- Allowing for compatible civilian use.
- Identification and restoration of areas impacted by training activities.

The Environmental Performance Standards will be incorporated into the programs and regulations of the Massachusetts National Guard as follows. Those standards relating to natural resources management shall be incorporated as standards into each of the state and federal environmental management programs and attached as an appendix or written into the documentation accompanying the plan or program. All the Environmental Performance Standards will be attached to the Integrated Training Area Management Plan 'Trainer's Guide' and to the Camp Edwards Range Regulations. Modification of the Standards Operating Procedures will include review and conformance with the Environmental Performance Standards for trainers and soldiers at Camp Edwards.

## **SPECIFIC RESOURCE PERFORMANCE STANDARDS IN THE CAMP EDWARDS TRAINING AREA**

### **1.0 Groundwater Resources Performance Standards**

- 1.1 All actions, at any location within the Camp Edwards Training Areas, must preserve and maintain groundwater quality and quantity, and protect the recharge areas 1:0 existing and potential water supply wells. All areas within Camp Edwards Training Areas will be managed as State Zone II, and, where designated, Zone I, water supply areas.
- 1.2 The following standards shall apply to designated Wellhead Protection Areas:
  - The 400-foot radius around approved public water supply wells will be protected from all access with signage. That protection will be maintained by the owner and/or operator of the well, or the leaseholder of the property.
  - No new stormwater discharges may be directed into Zone I areas.
  - No in ground septic system will be permitted within a Zone I area.
  - No solid waste may be generated or held within Zone I areas except as incidental to the construction, operation, and management of a well.
  - Travel in Zone I areas will be limited to foot travel or to vehicles required for construction, operation, and maintenance of wells.
  - No new or existing bivouac activity or area shall be located within a Zone I area.
  - All other areas will be considered as Zone II designated areas and will be subject to the standards of the Groundwater Protection Policy.

- 1.3 Land-uses activities that do not comply with either the state Wellhead Protection regulations (310 CMR 22.00 et seq.) or the Groundwater Protection Policy are prohibited.
- 1.4 All activities will support and not interfere with either the Impact Area Groundwater Study and/or the Installation Restoration Program. All activities shall conform to the requirements of Comprehensive Environmental Response, Compensation and Liability Act, the Massachusetts Contingency Plan, and the Safe Drinking Water Act.
- 1.5 Extraction, use, and transfer of the groundwater resources must not de- grade [e.g. draw down surface waters] in freshwater ponds, vernal pools, wetlands, and marine waters, unless properly reviewed, mitigated, and approved by the managing and regulating agencies.
- 1.6 Land use and activities in the Camp Edwards Training Areas will meet the following standards:
  - Will conform to all existing and applicable federal, state and local regulations.
  - Must be able to be implemented without interference with ongoing remediation projects.
  - Allow regional access to the water supplies on Joint Base Cape Cod.
- 1.7 The following programs and standards will be used as the basis for protecting groundwater resources in the Camp Edwards Training Areas:
  - Groundwater Protection Policy.
  - Federal and Department of Defense environmental programs: Integrated Natural Resources Management Plan, Integrated Training Area Management Program, Range Regulations, Spill Prevention Control and Countermeasures Plan (or equivalent), Installation Restoration Plan, Impact Area Groundwater Study, or other remediation programs.
  - State and federal laws and regulations pertaining to water supply.

## **2.0 Wetlands and Surface Water Performance Standards**

- 2.1 Since there are relatively few wetland resources found at Joint Base Cape Cod, and since they are important to the support of habitat and water quality on the properties, the minimum standard will be no net loss of any of the wetland resources or their 100-foot buffers.
- 2.2 Land uses and activities will be managed to prevent and mitigate new adverse impacts and eliminate or reduce existing conditions adverse to wetlands and surface water resource areas. Impacts from remediation activities may be acceptable with implementation of reasonable alternatives.

### 2.3 Wetland area management priorities:

- Protection of existing wetland resource areas for their contributions to existing and potential drinking water supplies.
- Protection of wetlands for federal- and state-listed species and their habitats.
- Protection of human health and safety.

2.4 Activities will be managed to preserve and protect wetlands and vernal pools as defined by applicable, federal, state, and local regulations. These activities will include replacement or replication of all wetland resource buffer areas, which are lost after completion of an activity or use.

2.5 All land altering activities within 100 feet of a certified vernal pool must be reviewed before commencement by the Massachusetts Department of Environmental Protection/Wetlands Unit and the Natural Heritage and Endangered Species Program within the Division of Fisheries and Wildlife for impacts to wildlife and habitat. The certification of vernal pools will be supported by the on-site personnel and will proceed with the assistance of the appropriate state agencies.

2.6 All new uses or activities will be prohibited within the wetlands and their 100-foot buffers, except those associated with an approved habitat enhancement or restoration program; those on existing improved and unimproved roads where appropriate sediment and erosion controls are put in place prior to the activity; or those where no practicable alternative to the proposed action is available. No new roads should be located within the 100-foot buffers. Existing roads within such buffers should be relocated provided that:

- The relocation does not cause greater environmental impact to other resources.
- There are funds and resources allocated for resource management and those resources are approved and available for the relocation.

2.7 During the period of 15 February to 15 May, listed roads/trails within 500 feet of wetlands will be closed to vehicle access to protect the migration and breeding of amphibians. Emergency response and environmental management activities will not be restricted:

- Donnelly and Little Halfway Ponds maneuver trails (excluding the permanently closed section along the eastern edge of Donnelly Pond) from Frank Perkins Road north to Wood Road.
- Red Maple Swamp trail from Wood Road north and east to Avery Road.
- Orchard and Jefferson Roads (continuous) from Cat Road south and east to Burgoyne Road.
- Maneuver trail(s) in powerline easement north of Gibbs Road from Goat Pasture Road west to the boundary of training areas C-13 and C-14.

- Grassy Pond trail (side access to Sierra Range) from Gibbs Road south to Sierra Range.
- Sandwich Road from the powerline easement north to the gas pipeline right of way.
- Bypass Bog/Mike Range Road from entrance to Mike Range south and west to Greenway Road.

2.8 No new bivouac area shall be located within 500 feet of any wetland. Any existing bivouac within a wetland buffer shall be relocated provided there are funds and resources allocated for the relocation.

### **3.0 Listed Species Performance Standards**

3.1 As the Natural Heritage and Endangered Species Program of the Massachusetts Division of Fisheries & Wildlife has identified the entire Upper Cape Water Supply Reserve as State Priority Habitat for state-listed species (version dated 2000-2001; updated 2021), all activities and uses must comply with the Massachusetts Endangered Species Act and its regulations.

3.2 Where activities and uses are not specifically regulated under the Camp Edwards Training Area Range and Environmental Regulations, including these Environmental Performance Standards, the Environmental and Readiness Center must review the activities for conformance with the Integrated Natural Resource Management Plan, and shall- consult with the Natural Heritage and Endangered Species Program regarding potential impacts to state-listed species.

3.3 All activities impacting federal- and state-listed species habitat must be designed to preserve or enhance that habitat as determined by the Environmental and Readiness Center in consultation with the Natural Heritage and Endangered Species Program.

3.4 Users are prohibited from interfering with state and federal listed species unless specifically permitted by appropriate authorities.

3.5 Users will report all sightings of recognized listed species, e.g. box turtles, within any area of Joint Base Cape Cod.

### **4.0 Soil Conservation Performance Standards**

4.1 Activities and uses must be compatible with the limitations of the underlying soils. Limitations on uses and activities may be made where the soils or soil conditions would not support the activity.

4.2 Agricultural soil types will be preserved for future use.

- 4.3 Any perennial or intermittent stream identified by the E&RC will be protected from siltation by retaining undisturbed vegetative buffers to the extent feasible.
- 4.4 Cultural resource evaluations must be completed before any earth-moving operation may take place in undisturbed areas with high potential for cultural resources, and earth moving may be limited to specific areas (See Cultural Resource Performance Standards).
- 4.5 An erosion control analysis will be made part of the land management programs (Integrated Natural Resource Management Plan, the Integrated Training Area Management Program, Range Regulations, Civilian Use, and Standard Operating Procedures) for the Camp Edwards Training Area, including appropriate mitigation measures where existing or potential erosion problems are identified.
- 4.6 For all improved and unimproved roads, ditches and drainage ways:
- All unimproved roads, ditches, roads and drainage ways identified for maintenance will be cleaned of logs, slash and debris.
  - Unimproved roads and roads may not otherwise be improved unless approved for modification.
  - Any trail, ditch, road, or drainage way damaged by activities will be repaired in accordance with the hazard and impact it creates.
- 4.7 Erosion-prone sites will be inspected periodically to identify damage and mitigation measures.

## **5.0 Vegetation Management Performance Standards**

- 5.1 All planning and management activities impacting vegetation:
- Will ensure the maintenance of native plant communities, and
  - Shall be performed to maintain or enhance the biological diversity.
- 5.2 Revegetation of disturbed sites will be achieved by natural and artificial recolonization by native species.
- 5.3 Timber harvesting or clear-cutting of forested areas should not occur on steep slopes with unstable soils or within the buffers to wetland resources.
- 5.4 Vegetation management, including forestry and fire protection, will be subject to the Integrated Natural Resources Management Plan prepared by the users in accordance with federal standards and carried out in a manner acceptable to the Massachusetts Division of Fisheries and Wildlife and other state agencies or commissions, as may be designated by the Commonwealth of Massachusetts.

## **6.0 Habitat Management Performance Standards**

6.1 The Camp Edwards Training Area will be managed as a unique rare species and wildlife habitat area under an adaptive ecosystem management program that integrates ecological, socio-economic, and institutional perspectives, and which operates under the following definitions:

- Adaptive means making decisions as part of a continual process of monitoring, reviewing collected data, and responding with management actions as dictated by the resulting information and needs of the system.
- Ecosystem means a system-wide understanding of the arrangements of living and non-living things, and the forces that act upon and within the system.
- Management entails a multi-disciplinary approach where potentially competing interests are resolved with expert analysis, user and local interest considerations, and a commitment to compromise interests when the broader goal is achieved to manage the Camp Edwards Training Area as a unique wildlife habitat area.

6.2 The adaptive ecosystem management program will include:

- Coordinated documentation for the management programs, Integrated Natural Resource Management Plan, the Integrated Training Area Management Program, Range Regulations, Civilian Use, and Standard Operating Procedures.
- The Massachusetts National Guard staff and necessary funding to support its ecosystem management plans, as related to the amount of training occurring and other ecosystem stressors.
- Cooperative agreements to create a management team of scientific and regulatory experts.
- Long-term land maintenance, monitoring of resources and trends, study and analysis.
- Recovery plans for species and habitats identified for improvement.
- Consultation with Federal and State agencies charged with oversight of federal- and state-listed species before any actions that may affect state and federal-listed species habitat.
- Reduction of adverse impacts to the maximum extent possible, including consideration for the relocation of the activity or encouraging only those activities that result in meeting a habitat management goal.
- Habitat management activities designed to promote protection and restoration of native habitat types.

## **7.0 Wildlife Management Performance Standards**

7.1 Native wildlife habitats and ecosystems management will focus on the following:

- Protecting federal- and state-listed species, and,
- Maintaining biodiversity.

7.2 Hunting, recreation and educational trips must be approved, scheduled, planned, and supervised through Range Operations.

7.3 Any activity or use will prioritize protection of life, property, and natural resource values at the boundaries of the Camp Edwards Training Area where wildlife interfaces with the surrounding built environment.

7.4 Wildlife management will include the following actions, specific to the species targeted for management:

- Development and implementation of a plan to monitor hunting of game species.
- Planning for multi-use objectives for recreation and hunting that incorporate public input and recommendations.
- Development of suitable monitoring programs for federal and state-listed species, and regular exchange of information with the Natural Heritage and Endangered Species Program.

## **8.0 Air Quality Performance Standard**

8.1 All uses and activities will be responsible for compliance with both the State Implementation Plan for Air Quality and the Federal Clean Air Act.

8.2 Air quality management activities will include air sampling if required by regulation of the activity.

## **9.0 Noise Management Performance Standards**

9.1 Noise management activities shall conform to the Army's Environmental Noise Management Program policies for evaluation, assessment, monitoring, and response procedures.

**10.0 Pest Management Performance Standards**

- 10.1 Each user will develop and implement an Integrated Pest Management Program to control pest infestations that may include outside contracting services. Non-native biological controls should not be considered unless approved by federal and state agencies.
- 10.2 Each user will be held responsible for management of pests that threaten federal- and state-listed species, or are exotic and invasive species, invasive plant species that may be considered pest species are those defined by the United States Fish and Wildlife Service, the Massachusetts Division of Fisheries and Wildlife, and the Massachusetts Invasive Plant Advisory Group. Site-specific analysis will be performed before implementation of any proposed pest management plans.
- 10.3 Pest vegetation control must be balanced against environmental impact and any proposed pest management activities, including the use of herbicides and mechanical methods, within rare species habitat areas must be approved by the Natural Heritage and Endangered Species Program, or in the case of federally listed species, by the United States Fish and Wildlife Service.
- 10.4 Only herbicide formulations approved by the United States Environmental Protection Agency, the Department of Agriculture, the agency managing the user, and the Commonwealth of Massachusetts may be applied.
- 10.5 Herbicides and pesticides will not be applied by aerial spraying unless required by emergency conditions and approved under applicable state and federal regulations.

**11.0 Fire Management Performance Standards**

- 11.1 All activities and uses shall manage, prevent, detect, and suppress fires on the Camp Edwards Training Area in coordination with the local and state fire services and Massachusetts National Guard natural resource managers.
- 11.2 Prescribed burning will be used to achieve wildland fuel hazard reduction, habitat management, and ecosystem health and diversity management goals and objectives, in support of training land support and landscape resilience.
- 11.3 Pre-suppression activities will include fuel break and fuels management in strategic areas as supported by the Integrated Natural Resource Management Plan and Fire Management Plan.
- 11.4 Other than the above, no open fires are allowed.

**12.0 Stormwater Management Performance Standards**

- 12.1 All stormwater facilities shall comply with the Massachusetts Department of Environmental Protection Guidelines for Stormwater Management, including Best Management Practices and all other applicable standards for control and mitigation of increased storm water flow rates and improvement of water quality.
- 12.2 All increases in stormwater runoff will be controlled within the user's property.
- 12.3 No new stormwater discharges will be made directly into wetlands or wetland resource areas.

**13.0 Wastewater Performance Standards**

- 13.1 All wastewater and sewage disposal will be in conformance with the applicable Federal and Massachusetts Department of Environmental Protection agency regulations.

**14.0 Solid Waste Performance Standards**

- 14.1 All solid waste streams (i.e., wastes not meeting the criteria for hazardous wastes) will be monitored and managed to substitute, reduce, recycle, modify processes, implement best management practices, and/or reuse waste, thereby reducing the total tonnage of wastes,
- 14.2 All users will be held responsible for collection, removal and disposal outside of the Camp Edwards Training Areas of solid waste generated by their activities.
- 14.3 All users must handle solid waste using best management practices to minimize nuisance odors, windblown litter, and attraction of vectors.
- 14.4 No permanent disposal of solid waste within the Groundwater protection Policy area/Camp Edwards field training areas will be permitted.

**15.0 Hazardous Materials Performance Standards**

- 15.1 Where they are permitted, use and application of hazardous materials shall be otherwise minimized in accordance with pollution prevention and waste minimization practices, including material substitution.
- 15.2 No permanent disposal of hazardous wastes within the Groundwater protection Policy area/Camp Edwards field training areas will be permitted.

### 15.3 Fuel Management

- 15.3.1 A Spill Prevention, Control, and Countermeasure Plan, is in place to reduce potential for a release. Camp Edwards Spill Response Plan is in place to respond to a release if an event should occur. All users will comply with these plans at the Camp Edwards Training Area.
- 15.3.2 If found, non-complying underground fuel storage tanks will be removed in accordance with state and federal laws and regulations to include remediation of contaminated soil.
- 15.3.3 Storage or movement of fuels in vehicle fuel tanks and in approved containers is permitted. Refueling in support of maintenance and construction activities utilizing a 150-gallon maximum capacity vehicle mounted day-tank is permitted under the supervision of Camp Edwards Range Operations and/or by appropriate user representatives. Refueling in support of maintenance, construction and/or military training with an approved military Heavy Expanded Mobility Tactical Truck (HEMTT) or civilian fuel tanker truck containing a maximum fuel load of 1500 gallons is permitted under the supervision of Camp Edwards Range Operations and/or by appropriate user representatives. HEMTT and civilian fuel tanker truck travel shall only occur on approved roads and refueling shall only occur at approved locations. Refueling activities shall only occur utilizing best management practices, proper equipment and with all required supervision and permits. All storage and movement of fuels shall comply with the Camp Edwards Standard Operating Procedures for Refueling, DoD directives and regulations and state and federal regulations.
- 15.3.4 New storage tanks are prohibited unless they meet the following requirements:
- Are approved for maintenance heating, or, permanent emergency generators and limited to propane or natural gas fuels.
  - Conform to the Groundwater Protection Policy and applicable codes.

### 15.4 Non-fuel Hazardous Material Storage

- 15.4.1 No storage above those quantities necessary to support field training activities will be allowed within the Camp Edwards Training Area except where necessary to meet regulatory requirements and where provided with secondary containment.
- 15.4.2 When required by applicable regulation, the user shall implement a Spill Prevention, Control and Containment/Emergency Response or other applicable response plan.

**16.0 Hazardous Waste Performance Standards**

- 16.1 All uses shall comply with applicable local, state, and federal regulations governing hazardous waste generation, management, and disposal (including overlays relative to Wellhead Protection, Zone II' s within the Cantonment Area).
- 16.2 Accumulation of hazardous waste shall be handled in accordance with regulations governing accumulation and storage.
- 16.3 Existing facilities must implement pollution prevention and waste minimization procedures (process modifications, material substitution, recycling, and best management practices) to minimize waste generation and hazardous materials use.
- 16.4 Occupants and users will be held responsible for removing all solid or hazardous waste generated during the period of use/tenancy/visitation upon their departure or in accordance with other applicable or relevant regulations.
- 16.5 Remedial activities undertaken under the Installation Restoration Program, the Impact Area Groundwater Study Program, the Massachusetts Contingency Plan, or other governing remediation programs are exempt from additional regulation (e.g., waste generation volume limits). Removal, storage, and disposal of contaminated material are required to comply with all state and federal regulations.
- 16.6 Post-remedial uses and activities at previously impacted sites will be allowed in accordance with terms and conditions of the applicable regulations.
- 16.7 All hazardous waste will be transported in accordance with federal Department of Transportation regulations governing shipment of these materials.
- 16.8 Transport shall reduce the number of trips for transfer and pick-up of hazardous waste for disposal to extent feasible. Tills may include planning appropriate routes that minimize proximity to sensitive natural resource areas, and reducing internal transfers of material, including transfers from bulk storage tanks to drums, tankers, carboys, or other portable containers or quantities.
- 16.9 No permanent disposal of hazardous waste within the Groundwater Protection Policy area/Camp Edwards field training areas will be permitted.

**17.0 Vehicle Performance Standards**

- 17.1 Vehicles within the Camp Edwards Training Area will be limited to the existing improved and unimproved road system except where required for natural resource management, fire protection or property maintenance or where off-road activity areas are located and approved by the Environmental and Readiness Center in

consultation with the Massachusetts Division of Fisheries and Wildlife.

- 17.2 Unimproved, established access ways will be limited to use by vehicles in accordance with soil conditions as described in the Soil Conservation Performance Standards.
- 17.3 The number of military and civilian vehicles within the Camp Edwards Training Area will be controlled using appropriate scheduling and signage.

## **18.0 General Use and Access Performance Standards**

- 18.1 General User Requirements. Requirements that will apply to all users, both public and private, in the Camp Edwards Training Area include the following:
- All acts that pollute the groundwater supply are prohibited.
  - No litter or refuse of any sort may be thrown or left in or on any property.
  - All users will be held responsible for providing, maintaining, and re- moving closed-system, sanitary facilities necessary for their use and activity.
  - No person shall wade or swim in any water body except for activities approved by the Massachusetts National Guard including remediation, scientific study, or research.
  - Vehicles may only be driven on roads authorized and designated for such use and parked in designated areas and may not cross any designated wetland.
  - Public users may not impede the military training activities.
- 18.2 Civilian Use Manual:
- To guide public conduct on the Massachusetts Military Reservation, a Civilian Use Manual will be prepared and periodically updated. All civilian users will obtain and follow this Manual.
- 18.3 Siting and Design Performance Standards
- 18.3.1 New or expanded buildings should not be proposed within the Camp Edwards Training Areas, with the following exceptions:
- Buildings to support allowed training, operations and activities, including upgrading of those facilities currently in place,
  - Buildings used for the purposes of remediation activities,
  - Buildings used for the purposes of development, operation and maintenance of water supplies,
  - Buildings used for the purpose of natural resource and land management.

## 19.0 Range Performance Standards

- 19.1 All operational ranges including but not limited to small arms ranges (SAR) shall be managed to minimize harmful impacts to the environment within the Upper Cape Water Supply Reserve. Range management at each range shall include to the maximum extent practicable metal recovery and recycling, prevention of fragmentation and ricochets, and prevention of sub-surface percolation of residue associated with the range operations. Camp Edwards shall be held responsible for the implementation of BMPs by authorized range users, including collection and removal of spent ammunition and associated debris.
- 19.2 Small arms ranges shall only be used in accordance with approved range plans. These plans shall be designed to minimize to the maximum extent practicable the release of metals or other contaminants to the environment outside of specifically approved containment areas/systems. Occasional ricochets that result in rounds landing outside of these containment areas is expected and every effort to minimize and correct these occurrences shall be taken. Failure to follow the approved range plans shall be considered a violation of this EPS.
- 19.3 All operational SARs shall be closely monitored by the Massachusetts National Guard to assess compliance of the approved range plans as well as the implementation and effectiveness of the range specific BMPs.
- 19.4 Camp Edwards/Massachusetts National Guard Environmental and Readiness Center shall staff and request appropriate funding to support its SAR management plans.
- 19.5 All users must use and follow Camp Edwards' Range Control checklists and procedures to:
- Minimize debris on the range (e.g. shell casings, used targets)
  - Minimize or control residues on the ranges resulting from training (e.g., unburned constituents, metal shavings from the muzzle blast)
  - Ensure the range is being used for the designated purpose in accordance with all applicable plans and approvals
- 19.6 Camp Edwards is responsible for following range operation procedures and maintaining range pollution prevention systems. Range BMPs shall be reviewed annually for effectiveness and potential improvements in their design, monitoring, maintenance, and operational procedures in an effort to continually improve them. Each year the annual report shall detail the range-specific activities including, but not limited to, the number of rounds fired, number of shooters and their organization, and the number of days the range was in use. The annual report will also detail active SAR groundwater well and lysimeter results, as well as any range maintenance/management activities that took place that training year and the result

of such activities, (i.e., lbs. of brass and projectiles recovered and recycled, etc.). The Massachusetts National Guard shall provide regular and unrestricted access for the EMC to all its data and information and will provide immediate access to environmental samples from the range, including range management and monitoring systems and any other applicable activities operating on the ranges.

- 19.7 Range plans and BMPs for training areas shall be reviewed and/or updated at least every three years. Management plans for new and upgraded ranges shall be in place prior to construction or utilization of the range. Range plans, at a minimum, will address long-term sustainable use, hydrology and hydrogeology, physical design, operation, management procedures, record keeping, pollution prevention, maintenance, monitoring, and applicable technologies to ensure sustainable range management. Range plans shall be integrated with other training area planning processes and resources.
- 19.8 The Massachusetts National Guard shall establish procedures for range maintenance and where applicable, maintenance and/or clearance operations to permit the sustainable, compatible, and safe use of operational ranges for their intended purpose within the Upper Cape Water Supply Reserve. In determining the frequency and degree of range maintenance and clearance operations, the Massachusetts National Guard shall consider, at a minimum, the environmental impact and safety hazards, each range's intended use, lease requirements, and the quantities and types of munitions or simulated munitions expended on that range.