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**Environmental Management Commission  
Building 1805  
Camp Edwards, Massachusetts  
April 11, 2013  
2:00 p.m.**

**Meeting Minutes**

<b><u>Members:</u></b>	<b><u>Organization:</u></b>	<b><u>Telephone:</u></b>	<b><u>E-Mail:</u></b>
Commissioner Mary Griffin	EMC/DFG	617-626-1550	
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Commissioner Ken Kimmel	EMC/DEP	617 292-5856	
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Lance Lambros	Senator Murray	508-746-9332	Lance.lambros@masenate.gov
H. Carter Hunt	MassDevelopment	508-563-2785	chunt@massdevelopment.com

**Handouts Distributed at Meeting:**

1. EMC Draft Meeting Minutes: December 11, 2012
2. MMR Joint Land Use Study Update & Community – Military Partnership Study Progress Report – *Sharon Rooney, Cape Cod Commission*
3. MA Army National Guard Updates – *Michael Ciaranca, E&RC*
4. Request for Joint Review and Approval M69 Hand Grenade Simulator Reserve/Camp Edwards Training Area – *MAJ Michael DeSimone, ARNG Camp Edwards*

**Agenda Item #1. Review of Meeting Minutes**

Environmental Management Commission (EMC) Chair Mary Griffin convened the meeting at 2:00 p.m. with general comments.

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Commissioner Lambert made a motion to approve the minutes from the December 11, 2012, EMC meeting, and Commissioner Griffin seconded the motion. The minutes were approved as written.

Commissioner Griffin announced that it was COL Crivello's last EMC meeting. COL Crivello stated that for the past 34 years he has been active in the military and has been part of the Massachusetts Military Reservation (MMR) working on training and protecting the environment. Commissioner Griffin noted that COL Crivello was a pleasure to work with and wished him well.

**Agenda Item #2. Advisory Council Report – Mimi McConnell, Community Advisory Council**

Ms. McConnell stated that the Community Advisory Council (CAC) recently had a meeting. She said that there was a presentation by Sharon Rooney on the Joint Land Use Study. The CAC is interested in what happens beyond Camp Edwards, the base as a whole, and partnership with the towns.

Ms. Rooney stated that the CAC at the last meeting approved the Joint Land Use Study recommendations.

**Agenda Item #3. MMR Joint Land Use Study Update**

Ms. Rooney gave a brief update on the MMR Joint Land Use Study (JLUS) and Community – Military Partnership Study Progress Report. She stated that the background of the JLUS program is a cooperative planning effort between military installations and surrounding communities. Ensure that future community growth is compatible with military training/operations. Reduce operational impacts of military operations on adjacent land.

Ms. Rooney stated that during the 2005 Joint Land Use Study the MMR was nominated by the Army due to the increase in number of range training days, surrounding population growth, and land use conflicts with base operations. Cape Cod Commission prepared the Joint Land Use Study in 2005 with a grant from DoD, Office of Economic Adjustment. Assistance from Policy/Technical Advisory Committees including representatives from MMR and four Upper Cape towns. Ms. Rooney noted that as a result of the BRAC process was one of the reasons that the MMR was nominated for the 2005 Joint Land Use Study change in mission and land use.

Ms. Rooney stated that during the 2012 Joint Land Use Study MMR was nominated by the Army to update the Joint Land Use Study. Factors included: changes in mission and land use from the 2005 BRAC process, potential encroachment/land use conflicts, need for improved communication tools, develop alternative energy policies; investigate potential community – military partnerships. OEA contracted with Cape Cod Commission to complete update. The effort was guided by Policy Committee (MMR Military Civilian Community Council).

Ms. Rooney displayed a graph of tasks completed and to be completed from July 2012 through July 2013.

Ms. Rooney stated that the work completed to date includes mapping: protected open space, renewable energy projects on/surrounding MMR, updated Chapter 40B permits, and MMR land use and occupancy. There was a report on shared services agreements, updated buildout analysis and first workshop on community-military partnerships.

Ms. Rooney displayed maps of Protected Open Space and Renewable Energy Projects, Chapter 40B Permits, MMR Land Use, Buildout Summary, Wastewater Capacity and Need Summary, and Transportation Capacity Summary.

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Ms. Rooney gave an update of the public partnerships shared service agreements added focus of 2012 JLUS update which explored potential for partnerships among military installations on the MMR and surrounding towns.

Ms. Rooney stated that there was a February 27 MMR Table Top Exercise where participants prioritized and there was a list of fifteen probable shared services and the top ones included public works, wastewater, renewable energy, solid waste/recycling, fire/emergency services, higher education and training.

Ms. Rooney stated that the next steps include a May 2<sup>nd</sup> workshop to refine top priority community military partnerships and conceptual plan for each partnership. Cape Cod Commission staff will prepare a feasibility report in May-June, Model Agreement (June-July), Outreach to Boards of Selectmen/Planning Boards on draft report (May-June), Final JLUS Report (July).

Commission Kimmel asked how the wastewater capacity jives with the area-wide Section 208 Water Quality Management Plan for Cape Cod. Ms. Rooney replied that there is a good opportunity for potential partnership between the towns and the base. The towns are at different stages of planning, and the Cape Cod Commission is definitely going to look at the base at least as a potential to treat some of the communities' wastewater.

Commissioner Kimmel asked under the renewable energy topic, will you be looking at anaerobic digestion and taking some portion of the Cape's food waste and processing it and getting renewable energy out of it? Ms. Rooney said that will be included under solid waste/recycling, we haven't looked at that specifically yet, but that is a possibility. Pat Daley, the Cape Cod Commission's deputy director, has been very involved in the Cape's solid waste issues and she will be looking at that.

**Agenda Item #4. Army National Guard Update – Dr. Mike Ciaranca, Deputy Director, Environmental & Readiness Center, Massachusetts Army National Guard**

Dr. Ciaranca, E&RC Deputy Director, discussed the programmatic changes; Jacob McCumber was recently hired as the Natural Resources/ITAM Manager, Mr. McCumber was previously employed as the Texas Army National Guard Natural Resources Manager. Community Involvement: the JLUS is a component of the Military Civilian Community Council (MC3) the body that advises on Cantonment area issues. Selectmen Briefings were scheduled for April 1 in Falmouth, April 2 in Bourne, April 4 in Sandwich, and April 22 in Mashpee.

COL Crivello explained that the Site Consolidation Plan is in final draft form, some corrections are being made. COL Crivello said that the update includes the Reserve. The plan incorporates everything the Guard is doing, a process that's important for transparency to the public. The second piece of the plan is the Guard's dual missions: training troops for overseas deployment and responding to civil emergencies. Camp Edwards is used as a staging area during domestic issues. One thing the plan looks at is climate change and its effect on the mission.

Mr. Begley stated that NStar was stationed on base during the February 2013 blizzard for outage repairs on the Cape. The authorization with the gasoline refueling went smoothly with supervision. NStar is interested in developing a MOA with the Massachusetts National Guard (MANG) to have in place again during emergency outages.

Dr. Ciaranca said that sixty deer were taken during the 2012 deer hunting season. No deer were taken during the paraplegic hunt; five deer were taken during archery season, fifty-two were taken during shotgun, and three were taken during primitive fire arms season. The Natural Resource Program

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continues to study the New England Cottontail. They collared and tracked nine rabbits since the beginning of the year; currently they are tracking three rabbits. Trapping, collaring and pellet searches continue through winter and early spring. Dr. Ciaranca said all the summer field crew has been hired and all the crew will be present by 24 May. Prescribed fires will be conducted as conditions and resource availability allow.

Dr. Ciaranca updated the EMC on alternative energy initiatives: Lt. Governor Timothy Murray visited the MMR in January 2013 to announce energy audits that will be conducted in the Commonwealth at six military installations. Cape Cod Air Force Station will begin construction on two wind turbines located near the PAVE PAWS facility in spring 2013. The turbines will reduce the facility's power consumption by 50%. There are several solar projects planned both on-site and off-site. Dr. Ciaranca pointed out an off-site project north of the landfill in Bourne. There are two on-site projects: the US Coast Guard is partnering with DCA to study the development of one area; another solar project is planned for the capped base landfill. The MESA process with Natural Heritage is complete for that project and mitigation measures have been developed. Another off-site project is planned by a developer who originally wanted to build housing, but now wants to place solar panels instead.

Dr. Ciaranca stated that Ambri, a company that is developing a liquid metal battery for storing alternative energy, would like to use MMR as a test site. Mr. Hunt, MassDevelopment, said the company approached MassDevelopment, the Air Guard and the Army Guard to look for place to do demonstration of the project as a ramp up. The company has tested small batteries and is now doing larger cells, which are held in a 40 foot container for use on the solar field or wind turbine site.

Commissioner Kimmel said that it was described to him as game changing technology. He thinks it's excellent that the MMR would be used for a testing area for the company.

Commissioner Griffin asked if there are any environmental issues associated with the MassDevelopment process. Mr. Hunt replied that the chemical battery operation is very contained. Mr. Begley stated that he attended that meeting at Ambri in Cambridge and was able to ask questions of the chemists and engineers and the answers were encouraging.

Dr. Ciaranca said that NStar continues to work on the SEMA project on the upper part of the base. Dr. Ciaranca pointed out the site and said they have poured foundations and are bringing the structures in and they will start stringing lines across the Canal in the next month or so. Mr. Begley said he has done spot checks and they're paying attention to the spill prevention and refueling.

Dr. Ciaranca discussed the mitigation for the solar project on the capped base landfill. Natural Heritage asked for mitigation, which has two parts: first, a parcel of land under Air Guard control that was intended to be managed for grassland bird species will be actively managed. Dr. Ciaranca said we will help them manage that parcel, acting as advisors, because their environmental program doesn't have expertise in that area. Second, parcels near the southern boundary of MMR, which have been leased to the Division of Fisheries and Wildlife (DFW) Crane Wildlife area for years. Those parcels were given to DFW as direct mitigation for the project.

Dr. Ciaranca discussed the inconsistencies in the Reserve's southern boundary line. Various documents have inconsistencies between the verbal description of the Reserve boundary and the maps. The same document may have four or five versions of where the southern boundary is located. Dr. Ciaranca showed example of the differences of the boundary lines. Dr. Ciaranca said that he and COL Crivello worked with Mr. Begley to create a boundary of what they felt was reflective of Chapter 47 of the Acts of 2002. He showed a map with the suggested Reserve boundary.

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Dr. Ciaranca said that the Guard has been conducting training with Unmanned Aircraft Systems (UAS) at Camp Edwards. The Raven UAS are flown at KD range; they are approximately 12 lbs and are hand launched. MIT Lincoln Labs has proposed using Camp Edwards as a test site for an aircraft-launched UAS. They want to do 48 test flights potentially during July 2013. The UAS to be used are the Raven and the Puma.

COL Crivello noted that the air space over the northern training area is restricted and what the Guard flies has to stay within that restricted air space. Flights are coordinated with the FAA and the USCG aircraft tower. Mr. Begley said that there was an article recently in the Cape Cod Times and the public has been informed about it and there have been no issues with the base using UAS for training.

Dr. Ciaranca provided an update on the small arms ranges. Exceedences of antimony have been found on India Range, per the action level. Dr. Ciaranca said the action level is a very low level and is designed to be very responsive. The antimony was found in the lysimeter's pore water. Juliet and Kilo ranges also had exceedences. The MAARNG is working in coordination with the Small Arms Range Working Group (MassDEP, EPA, EMC, and the MAARNG). Denis LeBlanc from the US Geological Survey has an antimony expert in his shop, who feels that changing the geochemistry of the soil by trying to keep its pH neutral to keep lead from being mobile might have inadvertently made antimony mobile. Dr. Ciaranca said that we have collected all kinds of research articles, and mobility issues were reported in a Swedish study. The consensus is that the MAARNG will continue to place lime on Juliet Range and will not put lime on Kilo Range to see if there's a difference over the course of this next training.

Commissioner Griffin asked if the antimony exceedences trigger any reporting requirements. Dr. Ciaranca said that this doesn't trigger a notification, but per the OMMP, the MAARNG is required to take the next step, which is to resample the lysimeters. If the action level is triggered again, then the next step is soil removal. Dr. Ciaranca said we don't want to remove soil above the lysimeter yet, when there a collection system that may be concentrating the antimony. Most of the research articles say that antimony is amphoteric; both low and high pH can make it mobile. Dr. Ciaranca said that the MAARNG wants to be sure that's not what's being caused here.

Dr. Ciaranca stated that the Supplemental Environmental Project resulted from a 2009 violation from EPA. The project will remove 14 acres of bituminous surface form grasslands on the northern area of MMR. Dr. Ciaranca said that 1.82 acres have been removed to date. The project will be completed by 5 August 2013. Mr. Begley asked how the bituminous surface will be disposed. Dr. Ciaranca replied that most of the material that is being removed will be stored at the UTES site; some will be processed and used to build up an area where equipment sits in muddy water when it rains, and the rest will be hauled to the PA Landers site in Sandwich. Mr. Begley asked if to date the MAARNG has been using MassDEP's asphalt, brick and concrete policy and coordinating with Mark Baker, the section chief for the southeast region. Dr. Ciaranca confirmed that the policy is in place and the MAARNG will keep Mr. Baker apprised of how it is being used.

COL Crivello stated that the material that will be brought to PA Landers will be recycled and reused.

Commissioner Griffin asked if the reason this is being done is the hope that this will become grassland bird habitat. Dr. Ciaranca replied that it will return to a natural grass habitat.

Dr. Ciaranca stated that the M781 40 mm (Grenade) Training Round at Lima Range is currently The MAARNG is at the final point of developing the OMMP for the use of the range and for monitoring. utilizing Best Management Practices/SOP final draft. Range preparation is ongoing.

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Mr. Begley noted that the clean up was completed and a decision document was signed off on by EPA under the administrative orders.

**Agenda Item #5: Proposed Use of M69 Practice Hand Grenade --**

*MAJ Michael DeSimone, Camp Edwards Plans and Training*

MAJ DeSimone gave a presentation on the M69 practice hand grenade: The M69 practice hand grenade is used for individual and collective training. It provides realistic training and familiarizes the soldier with the function and characteristics of the M69 fragmentation hand grenade. The components and characteristics were listed.

MAJ DeSimone explained that each soldier is required to throw up to 12 M69 practice hand grenades armed with the M228 detonating fuse. Soldiers will be given instruction on installing and removing the M228 fuse; a company-size element will use several hundred. All dunnage is turned into the ammunition supply point; this includes the pin, spoon, and the fuse body.

Commissioner Griffin asked how the residue is recovered. MAJ DeSimone said that there are no pieces to pick up.

Mr. Begley stated that the EPA letter out for public comment expressed their opinion on those constituents and the number of munitions proposed and saw no risk to the aquifer.

The hand grenade qualification course layout was displayed and detailed. It consists of seven stations with a minimum of one grenade at each station. Each participant is issued ten hand grenades and must successfully engage seven targets, MAJ DeSimone said. The MAARNG's goal is to achieve joint support and approval to use the new pyrotechnic grenade simulator in time for annual training in June 2013.

Mr. Begley asked for clarification of the location of use of M69 practice hand grenade and the standard operating procedures for use. MAJ DeSimone replied that restricted areas would apply and they would only be used in designated training areas, i.e., the Soldier Validation Lane; and any sensitive area would not be utilized.

**MAARNG Request – M69 (M228 fuse):**

Consistent with the recommendations received from the SAC, CAC, the Environmental Officer, the MAARNG requests that the EMC support the M69 Hand Grenade Simulator with the M228 Fuse being added to the list of approved munitions under the Camp Edwards Training Area General Performance Standards.

***Motion***

Commissioner Lambert made a motion consistent with the recommendations received from the SAC, CAC, and the Environmental Officer to support the M69 Hand Grenade Simulator with the M228 Fuse be added to the list of approved munitions provided that the Best Management Practices to remove debris has been presented to us and implemented.

Commissioner Griffin seconded the motion and all voted in favor of the motion.

**Agenda Item #6. Public Comment**

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Ms. McConnell asked what the deadline was for the Cape Cod Commission on the Joint Land Use Study which is in July. She asked how the military feels about having the waste water treatment facility on the base and may not solve the problem.

Ms. McConnell asked what the deadline was for the Cape Cod Commission on the Joint Land Use Study, which is in July

COL Crivello stated that he is optimistic that the Joint Land Use Study will provide a mechanism on how to resolve those issues. Prior to BRAC there were benefits and when the mission changed how to manage the utilities on base changed; therefore, a Site Consolidation Plan was needed.

Commissioner Griffin requested a future update on the Joint Land Use Study.

Mr. Begley replied that at the next EMC meeting it would be beneficial. He said that the Joint Land Use Study is one study and the Site Consolidation Plan is going to be part of a larger consolidation plan.

COL Crivello stated that each service is developing their own master site consolidation plan based on the mission. There are four services sharing the same land and utilities and the study is looking into if there is a way internally to coordinate. MassDevelopment is developing a unified plan where common ground is concerned.

Commissioner Griffin stated if there are decisions during the planning process that would impact issues inside of the Northern Reserve that there be communication.

**Agenda Item #7. Adjourn**

The next meeting was tentatively scheduled for September. The meeting adjourned at 3:30 p.m.