



UNITED STATES MARINE CORPS

MARINE CORPS BASE
PSC Box 20004
CAMP LEJEUNE, NORTH CAROLINA 28542-0004

IN REPLY REFER TO:
5090.11.6
BEMD
DEC 17 2007

Mr. Peter Benjamin
Ecological Services Supervisor
United States Fish and Wildlife Service
Raleigh Field Office
Post Office Box 33726
Raleigh, North Carolina 27636-3726

Dear Mr. Benjamin:

In May of this year your staff assisted Camp Lejeune in reviewing the progress and effectiveness of our Integrated Natural Resources Management Plan (INRMP). That review utilized the Navy's Web-based Metrics Builder system, a new system devised by the Department of the Navy for use by all Navy and Marine Corps installations. To complete the annual INRMP review and meet Headquarters Marine Corps (HQMC) requirements, we have enclosed a final report that addresses our progress and activities during the year. You will note that the vast majority of all actions items were completed successfully as measured by the criteria your staff helped us develop during the most recent revision of our INRMP.

Highlights of this year's accomplishments include:

- Prescribed burning on 22,756 acres of forest land for fuel reduction and habitat improvement.
- An increase in the red-cockaded woodpecker population from 79 to 83 active clusters.
- Initiation of a base-wide Invasive Species Management Plan to identify potential issues related to non-native plants and recommend treatment actions.
- Implementation of a silvicultural plan that provides for endangered species habitat improvement as well as commercial timber income.
- Continued participation in regional conservation efforts in partnership with Onslow Bight Conservation Forum members. During FY07, two projects totaling 203 acres preserved habitat and compatible land use in areas adjacent to Camp Lejeune.
- Effective enforcement by our Conservation Law Enforcement staff of Onslow Beach recreational regulations, in order to

reduce potential affects on nesting sea turtles and other protected species.

In addition to the progress report, we are also enclosing an addendum page that addresses changes regarding public access to boat launching facilites, and due dates for four reports.

We consider our INRMP to be fully implemented in accordance with DoD guidance, as all "must fund" projects and activities were funded for FY07, we have sufficient numbers of professionally trained personnel available, our accomplishments are documented in the enclosed report, and we have coordinated annually with all cooperating offices. As such we believe that our INRMP continues to be sufficient to exempt MCB Camp Lejeune from future critical habitat designations for species known to occur on base.

HQMC requires that we document the review process in writing. Therefore, it is requested that you respond by letter acknowledging your receipt of these reports, and provide us with any questions, comments, or concerns within 30 days of receipt of this letter.

Your point of contact for this matter is Mr. William H. Rogers, Environmental Conservation Branch Head. He may be contacted at (910) 451-9384 or at william.h.rogers1@usmc.mil.

Sincerely,



JOHN TOWNSON
Director, Environmental Management
By direction of
the Commanding Officer

Enclosures: 1. FY07 Annual INRMP Report
2. FY07 Addendum page



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Mr. Fred Harris
Executive Director
North Carolina Wildlife Resource Commission
1701 Mail Service Center
Raleigh, North Carolina 27699-1701

Dear Mr. Harris:

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DEC 17 2007

Mr. Louis Daniel
Director
North Carolina Division of Marine Fisheries
3441 Arendell Street
Morehead City, North Carolina 28557

Dear Mr. Daniel:

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Copy to: Fritz Rhode (w/enclosures)

Action Title	Action ID #	Lead POC	Description	Unit of Measure	Measure of Success	07 EOY Review
Develop RCW Habitat/Ecosystem Management Model	04-01	Danny Marshburn	Model for natural resources integration management purposes. Determine the ongoing data collection process/strategy to good quality habitat according to the 2003 RCW Recovery Plan and recommend management actions to Base evaluation on parameters for good quality habitat according to the 2003 RCW Recovery Plan and recommend management actions to move habitat toward a good quality	N/A	Ecosystem Management Model, developed and implemented by 2011. Was the model developed? Collins, Colorado.	Development in progress. Contracted with Sanborn, Fort Collins, Colorado.
Evaluate RCW partitions covered in current forest prescription	04-02	Craig Ten Brink	Base evaluation on parameters for good quality habitat according to the 2003 RCW Recovery Plan and recommend management actions to move habitat toward a good quality	# partitions evaluated as part of forest prescription	100% partitions within current year's compartment cycle evaluated?	38 partitions
Evaluate high-priority RCW partitions that are outside the timber prescription cycle	04-03	Craig Ten Brink	Establish a baseline for good quality habitat according to the 2003 RCW Recovery Plan. Survey all RCW management acres	# high priority partitions evaluated	100% high priority partitions outside current year's compartment cycle evaluated?	37 partitions evaluated, 18 main-side and 19 in GSRRA.
Produce an RCW habitat inventory of RCW management areas based on 2003 Recovery Plan criteria for good quality habitat	04-04	Craig Ten Brink	Modify data collection process to ensure that parameters for good quality habitat as defined in the 2003 RCW management plan are being collected. As parameters change for determining good quality habitat, the type and quantity of data may also change.	Acres surveyed	36,000 acres surveyed by 2011?	9,604 acres surveyed to date. The data collection process will continue to be modified as required for determining good quality habitat or requirements to run the EMM. Panasonic Toughbooks have been purchased and the program is being developed for compatibility with the EMM.
Modify Base forest data collection to better quantify variables contributing to good quality habitat	04-05	Danny Marshburn	Convert off-site species to longleaf pine, based on the Ecological Classification System. Beneficial impacts will be to the training mission and the forest ecosystem. Conversion will be completed in compliance with the guidelines of the 2003 RCW Recovery	N/A	Data Collection modified by 2009?	In progress, based on the Fiscal Year 2007 Long Range Silvicultural Prescription Plan (LRSP). 455 acres were planted with containerized longleaf seedlings for FY07.
Restore longleaf pine within the guidelines of the 2003 Recovery Plan for the RCW.	04-06	Danny Marshburn	Provide mechanical treatments for control, maintenance and restoration of understory vegetation in support of T&E species management and ecosystem restoration.	Number of acres prescribed and planted with longleaf pine annually.	Did conversion of off-site species to longleaf pine occur?	699 acres completed
Mechanical Midstory Vegetation Control and Maintenance in support of the ESA	04-07	Danny Becker	Silvicultural activities such as thinning pine stands and removal of canopy hardwoods improve RCW habitat. Allowable hardwood canopy component for high quality RCW habitat must not exceed 10%.	Acres accomplished	600-800 acres of mechanical treatments are performed?	118 acres of hardwood removal completed, 234 acres mature pine thinned.
Promote high-quality RCW habitat through removal of canopy hardwoods and thinning of mature pine stands	04-08	Danny Marshburn				

ENCLOSURE (1)

Maintain sufficient numbers of cavities per cluster and use cavity restrictors when necessary	04-09	Craig Ten Brink	Maintain at least 4 suitable cavities per cluster either by drilling new cavities, using cavity restrictors, or replacing old insert cavities Maintain the number of unoccupied recruitment clusters at a number equal to at least 10% of the number of active clusters. Previously occupied clusters may count toward this number.	N/A	All clusters have at least 4 usable cavities?	Completed - 18 drilled cavities, 2 cavities restricted
Maintain sufficient number of unoccupied recruitment clusters	04-10	Craig Ten Brink	Use translocation to attempt to increase the rate of population growth and cluster occupation. Protect cavity and start trees from fire by bushcutting and clearing vegetation from around the base of each tree (terms and conditions of 1999 BO). Inspect the condition of cavity trees after prescribed fire (terms and conditions of 1999 BO). Ensure Range Safety Officer class includes RCW cluster and cavity tree protection information. RCW cluster buffer markings will be updated as paint fades and chips. Also, buffers will be reconfigured as new cavity trees are discovered or created, as trees die, or if clusters split or bud. Inspect high traffic clusters weekly to assess for violations of training restrictions related to RCW.	number of unoccupied recruitment clusters Number of birds translocated	Number of unoccupied clusters is equal to at least 10% of the number of active clusters? Was translocation attempted?	11 good sites available for 07 (2 marginal & 2 poor sites unoccupied - need management or may be removed from management) 1 female RCW translocated from cluster 79 to 89, is currently paired with a male at cluster 98p.
Translocation of RCWs	04-11	Craig Ten Brink	Number of active clusters protected from fire	100% of active cavity trees protected from fire?	79 clusters - (all active clusters - this is a count)	Completed - 4 10 active cavity trees in burned areas RSO classes, including RCW information were given once per week.
Protect RCW cavity trees from fire	04-12	Craig Ten Brink	N/A	100% of cavity trees inspected in burned areas? Information on RCW cluster restrictions presented in HSO class?	Maintenance/updates performed on all clusters needing it?	52 surveys completed
Inspect cavity trees after prescribed fire	04-13	Craig Ten Brink	Number of cluster buffers maintained/updated.	Inspections completed?		
Educate Marines to reduce impacts from training on cavity trees	04-14	Craig Ten Brink	N/A	Each year growth rate of active clusters averages at least 5% over 10 years (current year plus previous 9)?		83 active clusters in 07 = 5.0% increase - 10-year average is 6.0%
Maintain and update RCW cluster buffer markings.	04-15	Craig Ten Brink	N/A	Partition layer completed by Feb. 2006?		Completed
Inspect high traffic clusters weekly to assess impact.	04-16	Craig Ten Brink	N/A			
Maintain minimum growth rate of 5% per year (avg. over 10 years).	04-17	Craig Ten Brink	RCW population growth rate, based on number of active clusters, should meet or exceed 5%, when averaged over 10 years (current year plus previous 9 years) Create a GIS layer using potential cluster stands and forage habitat to determine viable RCW habitat partitions. Active cluster partitions will be determined either by home range follows, or using method in 2003 recovery plan. Recruitment partitions will			
Create a new GIS feature class representing RCW partitions	04-18	Craig Ten Brink	N/A			

Monitor 100% RCW population annually	04-19	Craig Ten Brink	Collect data on population demographics, reproductive success, home range and breeding statistics, including clutch size, fledge success, sex of fledglings breeding status of adult birds and number of helpers in the population. Monitor/collect other data	Number of clusters monitored	100% of active clusters monitored annually and report submitted by 31 Jan?	All active clusters monitored - Data collected by VA Tech crew working for Dr. Jeff Walters - Monitoring data submitted 8 Feb 2007
Survey annually for new cavities	04-20	Craig Ten Brink	Annually, survey RCW clusters and surrounding habitat for new cavity or start trees. Surveys may be systematic or completed during other tasks such as RCW fledge checks, forestry activities, RCW habitat evaluations, etc.	Surveyed acres.	Survey 100% of acres likely to contain RCW cavity trees?	Approximately 1500 acres surveyed. - Survey conducted in conjunction with annual nest checks/monitoring, as well as ACAT's, or if monitoring shows a reason to suspect a cavity in a given area.
Continue military impact monitoring.	04-21	Craig Ten Brink	Mark impacts of military training to unmarked RCW clusters. Track acreage of suitable or potentially suitable RCW habitat that is lost to RCW mgmt. No more than 10% of habitat in each RCW management area should be developed.	N/A	Military impacts monitoring continued?	Completed - Monitoring of unmarked clusters continues as in the past - Nest data can be compared to marked clusters
Track development of habitat.	04-22	Craig Ten Brink		% of each RCW management area developed	Developed habitat remains below 10% per RCW management area?	1/2 acre
Conduct home-range follows of selected RCW groups.	04-23	Craig Ten Brink	Collect data on home ranges of selected RCW clusters in order to make sound management decisions.	number of clusters	Were home range follows conducted?	Follows completed on 10 clusters.
Assess benefit of pond pine habitat to Camp Lejeune's RCW population	04-24	Craig Ten Brink	Assess pond pine habitat for RCW habitat suitability using 2003 habitat criteria and home range follows. Use Leitcher RCW population model to determine whether a development project will have an impact on the demographic stability of Camp Lejeune's RCW population as necessary.	Number of acres assessed	All pond pine habitat assessed by 2010?	508 acres evaluated
Apply RCW population model to forecast impacts to demographic stability from range and facility development	04-25	Craig Ten Brink	Continue expanded monitoring of affected RCW clusters and habitat for the live of the CBC.	N/A	Was Leitcher model used to determine impacts of projects as necessary?	Completed for G-10 Range Transformation
Monitor Company Battle Course	04-26	Craig Ten Brink	Implement strategy outlined in Chapter 4 by which training restrictions will be removed from RCW clusters as population milestones are met. Percentage of unmarked clusters increases as the overall population increases.	Report sent to USFWS?	Was report submitted?	Report sent Dec 2007
Implement management strategy which allows for removal of training restrictions as population milestones are met.	04-27	Craig Ten Brink		N/A	Were restrictions removed as milestones were met?	10 clusters de-marked

<p>Promote population growth by placing unmarked clusters in High-use training areas. Implement relaxed training restrictions with in 200 ft cluster buffer.</p>	<p>04-28</p>	<p>Craig Ten Brink</p>	<p>By removing restrictions on RCW clusters in high-use training areas, Camp Lejeune will increase the incentive to grow the RCW population in these areas. RCW growth in these areas will be limited only by habitat and population dynamics.</p>	<p>Number of new clusters in high-use areas</p>	<p>Were recruitment clusters placed in high-use areas? 100% of marked clusters subject to Army restrictions?</p>	<p>2 new clusters in high-use areas completed</p>
<p>Protect sensitive habitat at South Onslow Beach</p>	<p>04-30</p>	<p>Craig Ten Brink</p>	<p>Implement training restrictions in RCW clusters consistent with the 1996 Army RCW guidelines. Limit training and recreational use of beach strand south of Onslow Beach south tower. No tracked vehicles, and seasonal restrictions on recreational use. Term/condition #5 in Biological Opinion on the effects of current use and modification of training areas, dune stabilization, and continued recreational use of Onslow Beach (5/10/00).</p>	<p>N/A</p>	<p>Were restrictions implemented?</p>	<p>Completed Report will be sent in Jan 07 after completing analysis of late season turtle data.</p>
<p>Submit annual report to USFWS re: Implementing terms and conditions of Beach BO (2002)</p>	<p>04-31</p>	<p>Craig Ten Brink</p>	<p>Base Order restricts recreational driving on Onslow Beach during sea turtle and shore bird nesting season. CLEO inspects Onslow Beach daily during sea turtle season. If inspection reveals that military training is not physically impeding recreational access near time of hatching, ensure there are no tire ruts between nests and ocean.</p>	<p>Annual report to USFWS</p>	<p>Was report submitted by 28 Feb?</p>	<p>Daily inspections made every day beach was open. 1059 contact with individual users made</p>
<p>Enforce BO 11017 11 Rake ruts in front of sea turtle nests.</p>	<p>04-32 04-33</p>	<p>John Waters Craig Ten Brink</p>	<p>Sea turtle protocol incorporating monitoring, tagging, protection of nest sites, moving nests from training beach, etc. (incorporate BA and terms and conditions from beach BO).</p>	<p>Number of inspections during April 1 to October 1. Number of nests (if applicable)</p>	<p>Inspections performed daily from April 1 to October 1 Rake 100% of nests with ruts?</p>	<p>Completed Completed</p>
<p>Implement Camp Lejeune sea turtle protocol Conduct aerial surveys for sea turtle nests on Browns Inlet and North Onslow Monitor Browns Island fence for potential sea turtle impacts Reduce sources of artificial lighting on Onslow Beach</p>	<p>04-34 04-35 04-36 04-37</p>	<p>Craig Ten Brink Craig Ten Brink Craig Ten Brink Craig Ten Brink</p>	<p>Area can not be monitored on the ground due to UXO Conditions of consultation on fence installation. Retrofit existing lights and ensure that new lighting conforms to recommendations for sea turtle nesting beaches.</p>	<p>N/A Frequency of inspections N/A</p>	<p>Protocol implemented? Surveys conducted at least twice per week between May 15 and August 30? Fence inspected prior to nesting season and at least once per month or after storms during sea turtle nesting season? Lighting situation satisfactory?</p>	<p>Completed - 30 nests Completed Fence no longer exists, has been destroyed or burned by wind and water action. All beach structures fitted w/canister lights or timers. Other buildings and street lights to be addressed.</p>

GPS mid-tide level at least once per year.	04-38	Craig Ten Brink	In order to document changes to the shoreline of Onslow Beach, record the location of the estimated mid-tide line in November each year, using a global positioning system.	N/A	Mid-tide level (GPSed)?	Completed
Monitor recreational or training impacts to beach during sea turtle nesting season.	04-39	Craig Ten Brink	During morning sea turtle surveys or whenever on the beach during the nesting season, ECON personnel will monitor and report training or recreational violations.	Number of impacts.	Monitoring conducted and results reported? Populations monitored according to protocol, and reported to USFWS, NC Natural Heritage and Plant Conservation Program by 31 September?	8 violations by Marines or recreational users. None severe, and all were addressed quickly.
Implement RLL monitoring protocol	04-40	Craig Ten Brink	Report results to NC Plant Conservation Program. When RLL site is scheduled to be surveyed, re-GPS the extent of the site to be entered into GIS.	Report to NC Natural Heritage and Plant Conservation Program	All populations monitored re-GPSed, and GIS layer updated?	Completed - 5839 stems in level 2 and 3 sites, report submitted 12 Dec 06
Update GIS layer for RLL on a yearly basis	04-41	Craig Ten Brink	If RLL is found, address it through recommending changes to project or through consultation with USFWS.	Number of populations	100% of high-prob habitat surveyed for RLL prior to project?	22 populations were monitored - 10 at the level two and three, and 12 at level one
Survey high-probability RLL habitat in areas to be affected by management or development actions.	04-42	Craig Ten Brink	Use mower to reduce competition from tall or shrubby vegetation, when fire has not sufficiently reduce competition	N/A	All populations in need are treated?	Completed - <5 acres surveyed for specific projects - no RLL found
Mechanically treat RLL habitat with DFI mower.	04-43	Craig Ten Brink	Promote conservation of RLL, use prescribed burning treatments to maintain and improve RLL habitat.	Number of clusters treated mechanically.	three years?	7 RLL populations mowed
Prescribe burn RLL habitat.	04-44	Danny Becker	Buffer markings will be updated as paint fades and chips. Also, buffers will be reconfigured if necessary as new plants are discovered	N/A	100% of sites in need of maintenance or updating are treated?	14 of 51 sites burned this cycle
Maintain and update buffer areas around RLL sites.	04-45	Craig Ten Brink	Ensure that RLL sites are not impacted by changes to hydrology caused by development, road work, forestry activities, etc. Projects may be identified through the NEPA process.	number of sites maintained	Were potential hydrology impacts avoided?	Completed in Environmental Review process
Protect RLL sites from soil disturbance and changes to hydrology.	04-46	Craig Ten Brink	Document spatial and temporal establishment of SBA on Onslow Beach and report to USFWS.	N/A	Surveys done?	5 plants
Survey all possible habitat on Onslow Beach for seabeach amaranth annually.	04-47	Craig Ten Brink	Mark buffers to protect existing sites from military and recreational impacts.	number of acres/plants	Sites protected?	5 sites - each around an individual plant
Mark and protect SBA sites.	04-48	Craig Ten Brink	Restrict access and airspace around known bald eagle nest site. Inform Range Control when eagles arrive in order to restrict air space.	Number of sites/acres protected	Buffers maintained? Nest monitored weekly during nesting season?	Completed
Maintain protective buffers for known nest.	04-49	Craig Ten Brink	Monitor known nest for activity.	N/A		Completed
Monitor for nesting activity and nesting success.	04-50	Craig Ten Brink		N/A		Completed

Conduct annual surveys for potential nests along New River corridor.	04-51	Craig Ten Brink	Work with state of North Carolina to conduct surveys.	Number of nests (if applicable)	Surveys conducted?	Completed - no nests found
Conduct bi-weekly surveys for piping plover activity in accordance with monitoring protocol for piping plover.	04-52	Craig Ten Brink	Bi-weekly surveys for piping plover activity and nesting. Protect piping plover habitat. If breeding behavior or nests discovered outside military training portion of beach, these areas will be protected from military training, pedestrians and pets.	Number of surveys conducted. Number of piping plovers.	Surveys completed?	31 surveys, 10 plovers
Protect piping plover habitat from training and outdoor recreation impacts.	04-53	Craig Ten Brink	Survey for alligators on Mill, Stone, Wallace, French, Duck, Southwest, Muddy, and Whitehurst Creeks, New River watershed. Designate restricted areas (no vehicles) to protect species at risk, where such designation does not interfere with military training.	Acres of conservation area protected	Piping plover habitat protected as needed?	Approximately 100 acres of overwash and inlet - no breeding behavior detected Alligators observed = 31 total, 5 Wallace Cr, 1 Mill Cr, 7-Duck Cr, 3 French Cr, 15-Southwest Cr MK
Continue yearly surveys for alligators in likely habitat.	04-54	Craig Ten Brink	Designate Conservation Areas (when such protection does not interfere with military training requirements).	Number of Alligators observed.	Survey conducted?	none designated
Monitor species at risk.	05-02	Craig Ten Brink	Monitor those species that are not federally listed, but are significantly rare, and have a high percentage of their known population on Camp Lejeune.	Number or areas designated	Conservation areas designated?	completed for CGR
Consider the eight high priority natural community types in conservation management.	05-03	Craig Ten Brink	In the course of regular management (primarily the timber prescription process), Camp Lejeune will consider actions that protect and or enhance the quality of the eight high-priority natural community types listed in Appendix M.	Species monitored	Were species at risk monitored?	Completed
Post waterbird nest sites to discourage pedestrian impacts	05-04	Craig Ten Brink	Post waterbird sites on Onslow Beach to discourage impacts from pedestrians.	Number of areas designated	waterbird sites posted?	2 areas designated - at overwash and inlet
Continue necessary predator control to protect shorebirds	05-05	Craig Ten Brink	Assess the need for predator control to protect shorebirds on Onslow Beach and implement as necessary.	Number of predators removed	Necessary predator control actions taken?	Completed for 07 - no target predators captured
Participate in/conduct annual Audubon Christmas Bird Count	06-01	Martin Korenek	Perform a winter bird survey.	Number of surveys	Annual Survey Completed?	Survey completed
Participate in/conduct annual International Migratory Bird Day summer bird count.	06-02	Martin Korenek	Perform a summer bird survey.	Number of surveys	Annual Survey Completed?	Survey Completed 5May07
Conduct waterfowl and shorebird surveys in support of South Atlantic Migratory Bird Initiative	06-03	Martin Korenek	Perform waterfowl and shorebird survey.	Number of surveys	Survey Completed?	Survey Completed

<p>Promote the restoration of native warm season grass habitats with as much associated long leaf pine forest habitat as feasible. Exclude timber harvesting in bottomland hardwood drains</p>	<p>06-04 06-05</p>	<p>Martin Korenek Martin Korenek</p>	<p>Plant native warm season grasses during site preparation and long leaf pine conversion activities. Avoid timber harvest in bottomland hardwoods. LRSPP is a forest vegetation management plan, designed to meet ecosystem management and training mission requirements in accordance with the 2003 Recovery Plan for the RCW.</p>	<p>Acres planted in conjunction with site prep activities. N/A</p>	<p>Acres planted in conjunction with site preparation activities? Bottomland areas avoided? Yes 6.25 acres, LZ Heron</p>
<p>Develop annual LRSPP</p>	<p>07-01</p>	<p>Danny Marshburn</p>	<p>N/A</p>	<p>Number of compartments in the annual LRSPP, where implementation is initiated or under way.</p>	<p>Was the annual plan developed? Was the plan implemented? Draft FY08 LRSPP completed and presented for review to ECON staff on 9/11/07 Implementation in progress through timber marking, cruising, and sales contracts. Compartment 25 marking completed and timber sold. Marking completed and timber sold for Longleaf Research in Compartments 12, 15, 25, 30, and 35. Marking completed or initiated in Compartments 30, 46, 63, and 86.</p>
<p>Implement LRSPP</p>	<p>07-02</p>	<p>Danny Marshburn</p>	<p>Implement the LRSPP as approved and in accordance with the 2003 Recovery Plan for RCW.</p>	<p>Number of compartments updated</p>	<p>Timber data (EMM) was collected in compartments 2, 7, 14, 15, 27, 33, 49, 50, 51, 55, 70, 71, & 72. Compartment 78 data collection is in progress. Evaluation and execution of timber data collection & entry is documented in the Forest Management Internal Controls Review.</p>
<p>Maintain current and post-harvest timber data</p>	<p>07-03</p>	<p>Danny Marshburn</p>	<p>Collect timber data and update subject feature classes, in the enterprise geodatabase in eight to ten compartments annually for development of the LRSPP. Collect timber data and update subject feature classes in the enterprise geodatabase in all timber sites</p>	<p>Number of compartments updated</p>	<p>Is the timber data in the enterprise geodatabase current? Contractor (URS Corp) has submitted design documents for the upgrade of the mobile and desk top components of the Timber Management Tool and has completed approximately 60% of the code development in preparation for in progress review prior to calendar year end. Development of the EMM in progress. Contracted with Sanborn, Fort Collins, Colorado</p>
<p>Maintain/upgrade GIS custom tools to adapt to changing data and management processes.</p>	<p>07-04</p>	<p>Danny Marshburn</p>	<p>These tools are integral to the management process. It is necessary that they are maintained/upgraded as management and data processes or requirements change.</p>	<p>Number of tools utilized.</p>	<p>Current tool set is sufficient for all data and process management tasks and functions?</p>

Utilize pre-commercial thinning.	07-05	Danny Marshburn	The work is accomplished in naturally regenerated pine stands to reduce stocking levels while the seedlings/saplings are four to five feet high or less. Pre-commercial thinning may also be used in artificially regenerated areas to reduce competition for t	Number of acres precommercial thinned annually	Did precommercial thinning occur?	31 acres of pre-commercial thinning completed with the Hydroax in Compartment 30.
Utilize intermediate thinning.	07-06	Danny Marshburn	Intermediate thinning promotes a healthy forest by reducing competition for nutrients, sunlight and growing space. Intermediate thins are in accordance with the 2003 PCW Recovery Plan.	Number of acres thinned annually.	Did thinning occur?	Intermediate thins in progress per LRSP. 118 acres were thinned for the implementation of the SERDP research project.
As needed, utilize sanitation and/or salvage harvests.	07-07	Danny Marshburn	This action is dependant on natural disasters or insects and disease outbreaks	Number of acres salvaged.	Were salvage cuts initiated as needed?	Salvage or sanitation cuts were not required during this period
Control Southern pine beetle infestations.	07-08	Danny Becker	Perform Surveillance, ground checks, perform appropriate control actions and monitor sites.	Number of infestations	Were appropriate control actions taken?	13 total spots detected. Control action taken on two spots.
Reduce the number of acres bedded and/or root-raked to minimize disturbance to desired intact ground cover.	07-09	Danny Becker	Conserve desired ground cover communities by delimiting appropriate intensity of site preparation based on soil type, amount of woody competition, desired stocking density, and quality of existing herbaceous ground cover before harvest. Low intensity si	Number of acres bedded, number of acres root raked.	Are areas with desired intact ground cover not bedded and/or root raked?	0 acres bedded this cycle
Maintain/upgrade the Ecosystem Management Model as management and data processes/requirements change.	07-10	Danny Marshburn	The maintenance of the Ecosystem Management Model is integral to the management process--it is necessary that it is upgraded as data requirements change.	N/A	Was the Ecosystem Management Model maintained/updated?	EMM development continues. Contractor currently collecting EMM field data.
Utilize the shelterwood and small patch clearcut methods of natural regeneration for longleaf pine.	07-11	Danny Marshburn	These methods of natural regeneration will not be utilized until all conversions of long leaf pine within the compartment have been completed.	Acres of shelterwood and small patch cuts.	Were shelterwood and small patch clearcut methods utilized if longleaf regeneration needed?	Shelterwood method of regeneration not utilized during this period. The shelterwood method of natural regeneration of longleaf pine will not be utilized until all pine dominated stands considered offsite have been converted to longleaf.
Use Best Management Practices for all forestry-related activities	07-12	Danny Marshburn	BMPs are practices chosen to minimize erosion and prevent or control water pollution resulting from forestry operations. When properly applied, BMPs will protect the quality of our waters.	N/A	Were BMPs utilized during forestry operations?	Yes. BMPs are utilized during all timber harvest activities.

Ensure timber marking compliance.	07-13	Danny Marshburn	Conduct formal and informal marking operations to ensure timber is being marked in accordance with INRMP guidelines.	Number of inspections per marking crew.	Did minimal corrective actions occur during inspection period?	Timber marking occurred in compartments 25, 28, 46, 63 & 86 for this period. Timber marking also occurred in compartments 15, 25, 30, & 35 for the implementation of the research project of Joan Walker and at Oak Grove OLF for the construction of landing zones. Documented in the Forest Management Internal Controls Review (Vulnerability Assessment)
Ensure timber sales contract compliance.	07-14	Danny Marshburn	Conduct sales inspections to ensure harvesting is being conducted in compliance with contract guidelines.	Number of inspections per timber sale.	Did minimal violations occur during the inspection period?	Management Internal Controls Review (Vulnerability Assessment).
Restore forest structure to a condition more typical of an open longleaf pine by thinning to 60ft basal area.	07-15	Danny Marshburn	Based on requirements of the 2003 RCW Management Plan, pine stands containing stems greater than 10 inches DBH, will be thinned to a residual basal area of 60 sq ft/acre. Project consists of the collection of native, herbaceous seed and dispersing the seed on areas on which the herbaceous layer has been degraded.	Number of acres thinned to 60 sq ft/acre.	Were acres thinned to residual basal area of 60 sq ft/acre?	Yes. 61 acres in mature pine stands were thinned to 60 sq ft/acre.
Understory Restoration in Support of the ESA	07-16	Danny Becker	Based on forage habitat and longleaf pine conversion requirements, as documented in the 2003 RCW Management Plan, Camp Lejeune will experiment with planting longleaf pine seedlings under an overstory a residual loblolly pine basal area of 40 sq ft/acre.	Acres accomplished	Areas identified for restoration in cooperation with T&E species program are accomplished?	5 acres broadcast seeded.
Experiment with planting of longleaf pine under loblolly pine stands to retain suitable PCW forage habitat	07-17	Danny Marshburn	The harvest of timber products aboard Camp Lejeune is based on the improvement and maintenance of training areas and ecosystem health.	Number of acres planted in the understory of loblolly pine.	Did planting occur?	Containized longleaf seedlings were planted under an existing overstory of loblolly pine on 38 acres. The SERDP research project titled "Managing Declining Pine Stands for the Restoration of Red-cockaded Woodpecker Habitat" is being initiated in FY07.
Provide a sustainable flow of timber products.	07-18	Danny Marshburn	Board feet of pine and hardwood harvested annually. Cords of pine and hardwood harvested annually.	Were timber products harvested?	Yes. 8,281.9 cords pine pulpwood, 2,235.29 mbf pine sawtimber, 787.2 cords hardwood pulpwood.	

Promote hard mast producing species.	07-19	Danny Marshburn	This is contingent on the RCW goals and providing quality habitat for the RCW. This will be in contonment areas and areas where conversion will not occur.	Acres of treatment.	Were hard mast producing species promoted?	Yes, the promotion of hard mast is an ongoing process during timber harvest activities. A maximum of 10% mast species were left in pine dominated stands thinned for RCW management. No stands were thinned in contonment areas.
Continue forest inventory data collection on a 10 year cycle.	07-20	Danny Marshburn	Maintain a continuous forest inventory on a 10 year schedule	Number of acres surveyed	Was survey completed in 2009?	N/A this period. Scheduled for FY 2009
Continue established goal of prescribed burning 20-25K acres per year	08-01	Danny Becker	Perform prescribed burning for hazard fuels reduction, T&E species management, maintenance of open training areas, reforestation, and ecosystem maintenance and restoration	Acres burned	20-25K acres treated by prescribed fire?	22,756 acres accomplished.
Increase growing season burning to one fourth of total acres treated by prescribed burning per year.	08-02	Danny Becker	Conduct growing season burns for ecosystem maintenance and restoration in support of the ESA	Acres burned	1/4 of total prescribed burn acres completed in the growing season?	3,000 acres of GSB, (drought hampered our ability to do more acres)
Implement The Prescribed Burning Prioritization Model	08-03	Danny Becker	Development and implementation of the Prescribed Burning Prioritization Model will enable fire managers to prioritize burning based upon ecological criteria. Areas with less priority will be burned when high priority areas are not available.	N/A	Implemented process?	Implemented. FY 08 burn schedule out for review.
Collect and maintain data on Southern Pine Beetle infestations	08-04	Danny Becker	Monitor SPB activity and conduct aerial surveys when required. Collect infestation data by spot number and take appropriate control actions.	Number of infestations	SPB monitored and data collected?	13 infestations were discovered, 2 required treatment by logging and/or bulldozing. Data collected.
Collect and maintain data in the Gypsy Moth Trapping Program.	08-05	Danny Becker	Trapping Coordinator, USDA Forest Service, place and monitor Gypsy Moth traps. Prepare documentation and record moths trapped. Forward documentation to Trapping Coordinator.	Traps installed and monitored	Traps installed and monitored. Coordination complete?	Completed. 1 moth trapped during trapping season.
Collect and maintain data on prescribed burning and wildfire suppression activity	08-06	Danny Becker	Collect data to include dates, personnel, incident type, acreage, location, action taken and follow-up actions. Update GIS data layer.	N/A	Data collected?	Completed.
Maintain Fire Weather Stations and Weather Data.	08-07	Danny Becker	Ensure that at least one of the two forestry owned fire weather stations are operating at all times. Coordinate factory refurbishment of stations as required for maintenance.	N/A	Fire weather stations operating?	GSSRA station is fully functional. Fire tower station has been taken off line.

Apply limited suppression strategies to wildfires when safe and appropriate.	08-08	Danny Becker	Apply suppression strategies and tactics appropriate to each wildfire scenario. Limited suppression strategies will be used when appropriate on non-management ignited fires.	Number of wildfires with limited suppression	Limited suppression strategy implemented?	22 of 86 fires were allowed to burn under a limited suppression strategy. These 22 fires burned a total of 1176 acres compared to 1780 total acres burned in all fires.
Minimize plowlines.	08-09	Danny Becker	Continue to use natural and manmade barriers to contain prescribed fire spread. This action will minimize the need to construct of new plow lines. Pine stands within the identified 4 mile high hazard area will be thinned to 50-60 sq. ft. of basal area. Area will then receive mechanical vegetation control in the 200 foot buffer.	Miles of new plowlines.	Plowlines minimized?	0 miles of new lines were established during the cycle. 9.0 miles of roads and trails were c-famed. 3.2 miles of old line were refreshed.
Perform selective harvests and mechanical vegetation control to provide defensible space in identified high hazard areas.	08-10	Danny Becker	Install a series of photo-points Base-wide to visually monitor vegetation changes. Collect photo data annually.	Acres accomplished	one third of the total area is treated each year?	34 acres (33%) of the buffer has been treated with the mowing machines during this cycle
Track long-term changes in landscape.	08-11	Danny Becker	Install photo-points in FY-06	Number of photo-points in FY-06	New photos are taken annually and stored in a digital library?	73 photo points were installed.
Delineate wetlands and update Camp Lejeune's GIS wetland layer.	09-01	Martin Korenek	Delineate jurisdictional wetlands.	Acres delineated	Wetlands delineated?	7,000 acres of delineation under contract/in progress. 961 acre MARSCC Cantonment Completed
Comply with CWA Section 404 permits issued by the USACE for DOD Action on MCBCL.	09-02	Martin Korenek	Comply with CWA permit conditions.	Number permits issued/Number of Violations	No Notices of Violation (NOV) received?	SR-8 MPMG Range Individual Permit. MOUJ NWP 14
Identify and develop suitable wetland restoration areas.	09-03	Martin Korenek	Identify suitable wetland restoration areas, for possible mitigation.	Number of sites, number of acres	Sites identified?	1 site, 0.78 acres, Mirey Branch
Monitor Sensitive Wetland Areas to ensure impacts are minimized/mitigated.	09-04	Martin Korenek	Inspect training areas for wetland impacts.	Number of inspections/number of impacts.	Sensitive Wetland Areas Monitored?	In progress
Continue maintenance and monitoring of the GSRA Wetland Mitigation Bank until performance criteria are met.	09-05	Martin Korenek	Comply with GSRA Mitigation Bank Instrument.	NA	Annual report submitted to USACE?	Report to USACE submitted Mar 28 2007. Approval by USACE received 26 June 2007. GSRA Bank has met all criteria.
Perform Annual Inspections of the GSRA Mitigation Bank	09-06	Martin Korenek	Inspect roads, water control structures and vegetation in GSRA Mitigation Bank.	Annual Report	Annual report submitted to USACE?	Report to USACE submitted Mar 28 2007. Approval by USACE received 26 June 2007. GSRA Bank has met all criteria.
Monitor training effects on soils and coastal dunes.	10-01	Martin Korenek	Inspect training areas for erosion.	Number of Inspections/Number of Impacts.	Training Effects Monitored?	3 inspections
Close selected areas to training use for restoration and recovery of eroded sites.	10-02	Martin Korenek	Close severely degraded training areas.	Number of areas closed	Areas identified and closed as needed?	3 LZs (Parrot, Cardinal, Eagle) reopened for training after stabilization and restoration
Use native warm season grasses where practical in restoring eroded sites.	10-03	Martin Korenek	Plant native warm season grasses on eroded sites.	Number of acres planted.	Acres planted?	6.25 acres, LZ Heron

Implement soil conservation, restoration and maintenance projects.	10-04	Martin Korenek	Stop soil erosion in training areas.	Number of projects/acres	Were implemented projects effective?	3 roads (Lewis Ck, Everett Ck, & Kuzdu Rd.) reopened after maintenance and stabilization
Implement shoreline stabilization projects along New River	10-05	Martin Korenek	Stabilize eroding shorelines.	Number of projects/linear feet	Projects implemented?	Tennis Court Area Completed, 1000 LF shoreline stabilized
Stabilize, enhance, protect and restore coastal dunes using native vegetation and other approved methods within the training section of the beach.	10-06	Martin Korenek	Promote dune-building.	Number of plants/area	Military portion of beach stabilized?	20,000 plants planted in 2 separate plantings 13Jul and 14Sep
Develop annual wildlife clearing management plan.	11-01	Martin Korenek	Development of a GIS based Wildlife Clearing Management Plan.	N/A	Annual Plan Developed	Database developed
Manage wildlife clearings.	11-02	Martin Korenek	Manage (disc, plant, mow) a series of wildlife clearings.	Acres planted/maintained.	Acres planted/maintained?	134 (Fall 06 Planting) Currently planting Fall 07
Conduct annual surveys for important game species.	11-03	Martin Korenek	Annual surveys for deer, quail, turkey, bear, dove	Number of Surveys	Surveys Conducted?	Spring Turkey Gobbler Counts performed.
Collect data from harvested game species.	11-04	Martin Korenek	Harvest data collection at 3 maintained check stations.	N/A	Harvest data collected?	Harvest data collected for the 06-07 Hunting season. Deer Harvest reports provided to WFR. 736 wt deer harvested. 20 Turkey harvested
Maintain NCWFR/RC Cooperator Agent Status for data reporting.	11-05	Martin Korenek	Maintain NCWFR/RC Wildlife Cooperator status for data reporting and harvest authority	Agent Numbers	Cooperator Agent Numbers Obtained?	Yes
Manage green-tree reservoirs and impoundments.	11-06	Martin Korenek	Maintenance activities at green-tree reservoirs and impoundments.	Number green-trees, impoundments	Impoundments Maintained?	Yes, riser boards managed to adjust water levels as required. Brush trimmed from risers annually
Manage artificial nest boxes for wood ducks.	11-07	Martin Korenek	Maintain a series of artificial nesting structures for wood ducks	No. Boxes	Boxes Maintained?	approx. 70 boxes were inspected, wood shaving nest material put in place spring 07
Continue cooperation with NCWFR/RC on restricted airspace access for over-wintering waterfowl surveys.	11-08	Martin Korenek	Coordinate access along New River for NCWFR/USFWS sponsored winter waterfowl survey	No. Flights	Coordination Provided?	Airspace clearance for aerial survey flight provided by Rge Control. No action taken by LWF/RS
Manage shoreline vegetation to promote access for fishing.	11-09	Martin Korenek	Maintenance mowing and vegetation control around recreational fishing ponds	Miles Shoreline	Shoreline Maintained?	Shorelines around Orde, Hickory, Henderson, & Landfill Ponds mowed twice monthly.
Manage aquatic vegetation to promote access for fishing.	11-10	Martin Korenek	Maintain and control shoreline aquatic vegetation at fishing ponds to promote access	No. Ponds	Ponds Maintained?	Contract in progress. 8 ponds treated 3 times this year.
Stock game fish within managed Base ponds.	11-11	Martin Korenek	Fisheries Management Services Provide cyclic management of pond shorelines and repair/ replace overflow devices	Number of fish stocked	Ponds Stocked?	All stocking completed for Y07, received final invoice from vendor
Manage pond shoreline depths and water control devices.	11-12	Martin Korenek	Provide cyclic management of pond shorelines and repair/ replace overflow devices	N/A	Shoreline Depths Maintained?	no repairs needed, all devices operational.
Conduct annual fishing creel surveys.	11-13	Martin Korenek	Creel Surveys	Surveys	Surveys Conducted?	Surveys conducted
Monitor fish populations within ponds	11-14	Martin Korenek	Conduct Fisheries Surveys within Ponds	N/A	Ponds Monitored?	Attached to fisheries contract

Conduct annual amphibian surveys	11-15	Martin Korenek	Conduct Winter through Summer Auditory Surveys	No. Surveys	Survey Conducted?	Winter survey conducted on 2-26-07 by CAL
Maintain artificial nest boxes for blue birds, purple martins, and other non-game species.	11-16	Martin Korenek	Maintain nest boxes for blue birds, purple martins, and other non-game birds/mammals.	Number of boxes	Boxes Maintained?	9 Purple Martin Houses 25 Bluebird boxes 81 Wood duck boxes in impoundments/depression ponds
Survey natural freshwater depression ponds for native and endemic fishes.	11-17	Martin Korenek	Survey natural freshwater depression ponds for native fishes and amphibians	No. Surveys	Survey Conducted?	No Surveys conducted, funding requested for FY10
Implement BASH Program, Implement Wildlife Damage Management/Control program.	11-18	Martin Korenek	Implement a comprehensive BASH Program (Working Group, Harassment, Depredation)	BASH Actions	Program Implemented?	11 total actions, 9 Harassment and 2 Takes at MCASNR
Maintain updated Special Airfield Depredation permits.	11-19	Martin Korenek	Implement WDM Program via in-house and contract support	N/A	Program implemented?	yes
Update other Special Depredation permits to address wildlife damage control situations.	11-20	Martin Korenek	Maintain USFWS Migratory and NCMWRC Wildlife Depredation Permits for MCAS New River	Number of Permits	Reports sent to State/USFWS?	1 Federal Fish and Wildlife Depredation # MB047109-0
Develop educational materials for Base residents and other tenants on preventative measures to reduce wildlife/human interactions.	11-21	Martin Korenek	Obtain Special Depredation Permits for routine wildlife damage management actions.	No. Permits	Permits obtained?	2 NC Special Depredation Permits (small mammals & beavers/mustelid/muskatgrounndhog), 1 NC Wildlife Possession and Salvage Permit
Respond to nuisance wildlife complaints.	11-22	Martin Korenek	Develop education material for the military community to include tenants Units, Base, Residents and others	N/A	Education material developed?	Provided LWRHS info included on Hip Pocket Training Map for distribution to trainers.
Monitor non-native and exotic invasive plant and animal species on Camp Lejeune.	11-23	Martin Korenek	Provide timely wildlife damage management services to Base tenants and residents.	No. of Calls	Reports Sent to State?	report dtd 12Jan 2007 sent to Brad Gunn 119 calls
Implement necessary control actions on known infestations of non-native and exotic invasive species.	11-24	Martin Korenek	Monitor the extent of targeted invasive species	Number acres	Species Monitored?	FSC Contract in place treating JD/JE. Contract awarded for Inv spp. Mgmt plan.
Establish and Monitor Sentinel Site for Invasive Cactus Moth	11-25	Martin Korenek	Implement necessary control actions on both terrestrial and aquatic invasive species	Number of populations	Necessary Actions Taken?	Yes (JD training area, terrestrial)
Promote general public awareness of conservation-based recreational activities on Camp Lejeune.	11-26	Martin Korenek	Promote Cactus Moth Sentinel Site	Sites	Site Monitored?	Yes (Spring/Summer 2007)
Provide boat-launching access to the general public.	12-01	John Waters	Promote public education via educational materials and announcements	N/A	Promotions made?	Distributed 3050 orders and directives
Provide hunting and fishing opportunities to general public.	12-02	John Waters	Provide boat launch access permits to general public	Number of Permits	Permits issued?	273 boat launch permits issued
Provide hunting and fishing opportunities to authorized patrons.	12-03	John Waters	Administration of Permit Sales	Number of Permits	Permits sold?	1984 permits sold
	12-04	John Waters	Provide hunting and fishing opportunities compatible with military mission.	Number of trips/ Number of licenses purchased	Opportunities provided?	15898 trips provided

Create designated disabled person hunting areas.	12-05	Martin Korenek	Create a disabled sportsman accessible hunting area.	N/A	Area Created?	Concept plan developed and site officially designated as DHA on Base Hunting Map.
Enforce BO 5090.115	12-06	John Waters	Enforcement activities related to fishing, hunting, and trapping	Citations	Base order enforced?	330 citations issued
Sponsor an annual youth fishing event.	12-07	Martin Korenek	Sponsor an Annual Youth Fishing Event during National Fishing Week	Events	Event Implemented?	Event Sponsored on 2June07
Monitor beach ORRV use.	12-08	John Waters	Monitor Off-Road Recreational Vehicle Order Compliance.	Violations/permits.	Beach use monitored?	56 citations issued / 793 permits issued
Send CLEOs to FLET/CI/PRPT as necessary.	12-09	John Waters	Training for CLEO Staff	Training Classes	Necessary training obtained?	Training requirements current for five endowment officers per MCO 5090.4
Continue participation in Onslow Bight meetings.	13-01	Bill Rogers	Continue participation in Onslow Bight Meetings	Number of meetings in year	Participated in meetings?	6 meeting held during FY07, all meetings attended by MCB CL (rpt's)
Refine and Update Onslow Bight Conservation Design	13-02	Bill Rogers	Provide input and direction to Onslow Bight Conservation Design areas	N/A	Conservation design updated as needed?	Conservation Reserve design was updated in FY07.
Collaborate to identify encroachment partnering opportunities.	13-03	Bill Rogers	Work with Encroachment Partners to identify and conserve parcels	Number of acres conserved through encroachment partnering in year	Collaboration ongoing?	204 acres conserved. Collaboration ongoing. Another 578 acres in progress with partial funding secured.
Pursue an agreement with USFWS and NCVW/RC regarding RCW habitat conservation off base.	13-04	Bill Rogers	Explore opportunity for preserving habitat off base in a manner that will eliminate restrictions on base.	N/A	Agreement achieved?	No agreement achieved yet, but program is being worked on a daily basis. New RCW subcomm of NCOBCF stood up to assist. Meetings held with all potential partners at local, HOMC, and OSD levels.
Design and implement an environmental syllabus for different stages of a Marine's career at Camp Lejeune.	14-01	Martin Korenek	Develop Environmental Syllabus	Syllabus	Syllabus Developed?	No
Develop protocol to educate visiting foreign units prior to their use of Camp Lejeune.	14-02	Martin Korenek	Develop Environmental and Natural Resources Base Protocol for Foreign Troops	No. of Protocols	Protocols Developed?	No
Sponsor a Conservation Volunteer Program	14-03	Martin Korenek	Sponsor Conservation Volunteer Program	Number CVP Actions	CVP Sponsored?	2 Dune Grass Planting Events
Integrate environmental education into new employee orientation.	14-04	Martin Korenek	Integrate Env. Education into new employee orientations	Education Opportunities/Articles	Env. Education Provided to new Employees?	Environmental awareness for all MCB
Insert environmental considerations clause into contractual documents.	14-05	Martin Korenek	Insert Environmental Considerations clause into contracts	N/A	Clause contained in contracts?	Info provided to ECB
Conduct television interviews and radio shows for the base TV channel.	14-06	Martin Korenek	Provide stand-up interviews for important environmental conservation events/information.	Interviews	Interviews Conducted?	Yes. 2 articles published in local media, dove fields and dune grass
Develop a program of field trips and presentations to offer to Camp Lejeune DOD and Onslow County schools	14-07	Martin Korenek	Provide outdoor educational opportunities for CLDS and County Schools on a not to interfere basis w/ military training	No. Trips	Program Developed?	Yes

Addendum - MCB Camp Lejeune Integrated Natural Resources Management Plan
26 Nov 2007.

1. Public Access. On page 12-1 of the INRMP it states that "Boat launching is permissible to the general public, military personnel and civilian employees at ten locations." During FY07 changes in public access to Camp Lejeune were made in order to comply with DoD-wide security requirements. The general public can no longer have unrestricted access to the base for the purposes of launching a boat. State Highway 172 has been closed to the general public. Persons wishing to launch a boat on Camp Lejeune must now pass through the Main Gate and provide personal identification and vehicle information each time before entering the installation.

Therefore the information for Action item # 12-2, on page 12-1 should be changed to "Provide boat-launching access to the general public in accordance with base access procedures and subject to security requirements".

2. Annual Monitoring Reports. In Appendix C, three INRMP action items have recurring associated reporting requirements, but do not have due dates shown in the appendix. Therefore the following information should be inserted into the "Measure of Success" column:

- a. Action # 04-19 - change to: "100% of active clusters monitored and report sent to USFWS by 31 January?"
- b. Action # 04-31 - change to: "Was report submitted to USFWS by 28 February?"
- c. Action # 04-40 - change to: "Populations monitored according to protocol, and reported to NC Natural Heritage and Plant Conservation Program by 31 September?"

3. Other Reports. In Appendix C, one INRMP action item, "Monitor Company Battle Course" was mistakenly listed as having an annual reporting requirement. Therefore the following information should be inserted into the "Unit of Measure" column:

- a. Action item # 04-26 – change to: "Report sent to USFWS?"



☒ North Carolina Wildlife Resources Commission ☒

Fred Harris, Interim Executive Director

January 29, 2008

Mr. John Townson, Director
Environmental Management
United States Marine Corps
Marine Corps Base, PSC Box 20004
Camp Lejeune, NC 28542-0004
Reference-5090.11.6 BEMD

Dear Mr. Townson:

I received your letter concerning the Integrated Natural Resources Management Plan (INRMP) final annual report referenced above (5090.11.6 BEMD) on December 21, 2007 and have the following comments based on a review by my staff for your consideration.

We are pleased to report that overall, we are very satisfied with the implementation of Camp Lejeune's INRMP. Ongoing red-cockaded woodpecker habitat management and biological monitoring is going well. Likewise, conservation measures for nesting sea turtles are adequate. Camp Lejeune seems to be well focused on ecosystem management, and we are especially happy with the work Camp Lejeune has done with the Onslow Bight Conservation Forum.

We do however, have some concerns about implementation of management actions on Onslow Beach for waterbirds. We feel the actions taken are neither sufficient to reverse the declining trend of beach nesting waterbirds, nor adequate to help migratory and wintering shorebirds to maintain fat stores through the winter.

We feel posted areas are not large enough to encompass nesting areas. We are also concerned that posted signs state that only vehicular access is prohibited, and we feel strongly that pedestrians can and do inhibit beach nesting birds. Nesting areas should be posted from April through August 31. Twine tied between posts will greatly reduce the number of violations into the nesting area. Although disturbance at nesting, foraging and roosting sites are a major

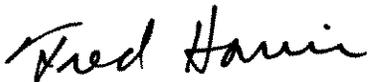
concern, nest predators can also impede productivity. Onslow Beach has a history of predation by mammalian predators on bird nests. Although predator trapping is stated as an objective in the INRMP, it appears that no mammalian predators were trapped this year. We recommend an aggressive trapping program to manage the number of mammalian predators at a level that significantly protects bird nests.

Likewise, disturbance in foraging and roosting areas during the non-nesting season makes it difficult for migratory and wintering birds to gain and maintain fat stores needed. We recommend maintenance of posted foraging and roosting areas during the non-nesting season as well.

Our field staff would be glad to meet with Camp Lejeune biological staff do discuss these suggestions. Your point of contact is Mr. David H. Allen, Coastal Region Wildlife Diversity Supervisor. He may be contacted at (252)448-1546 or at allend@coastalnet.com.

Once again, with the exception of a few waterbird issues on Onslow Beach, we are very pleased with the progress Camp Lejeune has made on implementation of the INRMP. We hope these comments are perceived as constructive, and look forward to further cooperation and thank you for the opportunity to comment on the IMRMP.

Sincerely,



Fred Harris
Interim Executive Director

FAH/chf



UNITED STATES MARINE CORPS

MARINE CORPS BASE
PSC Box 20004
CAMP LEJEUNE, NORTH CAROLINA 28542-0004

IN REPLY REFER TO:
5090.11.1

BEMD

MAY 20 2008

Mr. Fred Harris
Interim Executive Director
North Carolina Wildlife Resources Commission
1701 Mail Service Center
Raleigh, NC 27699-1701

Dear Mr. Harris:

The purpose of this letter is to respond to your concerns regarding Camp Lejeune's protective measures for shorebirds and colonial nesting waterbirds on Onslow Beach. On March 31, 2008, a meeting between Base personnel and Commission biologists David Allen and Susan Cameron was held at Camp Lejeune. This meeting was prompted by a North Carolina Wildlife Resources Commission (Commission) letter written January 29, 2008 regarding Camp Lejeune's annual report on Integrated Natural Resources Management Plan (INRMP) implementation.

Commission concerns regarding shorebird and colonial waterbird protection are summarized as follows: (a) areas posted for protection of potential nesting areas are not large enough, (b) posted areas do not restrict pedestrian access, which is a significant source of disturbance for beach nesting birds, (c) predator trapping is not sufficient, and (d) posted areas should be maintained during the non-nesting season to protect roosting and foraging birds.

Following are Camp Lejeune's responses:

a. In general, we post areas (with signs and taping) in order to capture large areas of potential habitat, while still allowing for safe driving (by Environmental Conservation and Range Control personnel during nesting season) along the beach strand. However there are areas, particularly where the beach has accreted, where protected areas could be enlarged. Consequently, this year we increased posting in areas that could be accessed from the Intracoastal Waterway or New River, in addition to the beach front.

b. Although strictly prohibiting pedestrian access to posted areas would require a change to the Protected Species Base Order, we

will modify signage to provide information and discourage pedestrian access to these areas.

c. Although the Commission letter referenced a lack of trapping data in Camp Lejeune's annual INRMP report, we neglected to include trapping data in that report - this omission has been corrected. The Base has undertaken a predator trapping program on Onslow beach resulting, so far this year, in capture of 2 gray foxes, 21 opossums, 1 raccoon and 3 feral cats. We plan to continue trapping activities each year. In addition, to trapping, researchers participating in Camp Lejeune's Defense Coastal Estuarine Research Program (DCERP) are collecting data on predator populations as well as predator/prey dynamics on Onslow beach. This information should help us to develop a more effective predator control program in the future.

d. Maintenance of posted areas during non-nesting season will not be a problem as long as maintaining these areas as off limits does not hinder access by Base and recreational vehicles during the non-nesting season.

Also discussed during the March 31 visit were posting of the North end of Onslow Beach, including the impact area and buffer, avoidance of wrack lines and tire ruts where chicks may hide, and locating and protecting nests outside of posted areas.

Recreational use of the north end of Onslow Beach (north of Onslow North Tower) is not permitted, and much of this area is either impact area buffer, or impact area which may contain unexploded ordnance. For these reasons, we do not post shorebird habitat in this area. However, Base personnel, and Marines that use this area are required to drive below the high tide line whenever possible.

Avoidance of driving over wrack lines is common practice due to the potential for damage to vehicles from debris. However Base personnel have been instructed to avoid driving over wrack lines in order to avoid potential chicks. As mentioned above, most driving is done below the high tide line, making most tire ruts shallow and temporary. However, where driving below the high tide line is not possible, Base personnel have been instructed to drive through these areas with caution, and avoid old ruts, if possible.

Camp Lejeune does not search the entire beach for nests, but will search for piping plover nests if piping plovers are seen during the nesting season. For at least this year and next year, DCERP researchers will be on Onslow Beach and will attempt to locate all shorebird and colonial waterbird nests on the beach, excluding the

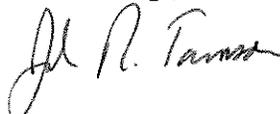
impact area. These researchers will inform Camp Lejeune of locations of new nests. Where nests are found outside protected areas, we will modify protected areas, or protect individual nests, where practical. The added resources provided by DCERP will not only let us know in the short term where to protect nests, but may help to identify new nesting habitat, and should provide some insight into the predator/prey dynamics on Onslow Beach.

In addition to the concerns addressed above, the Commission provided us with several resources related to shorebird and colonial waterbird protection. Where practical, Camp Lejeune will implement recommendations in these documents that were not mentioned above.

Camp Lejeune is a proud steward of its natural environment, including Onslow Beach, and the species that use it. It is this stewardship that allows the Base to maintain high quality training areas for its Marines. We also recognize that many species of beach nesting birds are in decline and need protection. It is our hope that implementation of the actions mentioned above will improve the situation for beach nesting birds on Camp Lejeune, without compromising its primary mission of training Marines.

Camp Lejeune values the good working relationship it has with the Commission, and the guidance your staff continue to provide. For further information please contact Craig Ten Brink, Environmental Conservation Branch, Environmental Management Division, Installations and Environment Department at (910)451-7228.

Sincerely,



JOHN R. TOWNSON
Director, Environmental Management
By direction of
the Commanding Officer



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Raleigh Field Office

Post Office Box 33726

Raleigh, North Carolina 27636-3726

June 12, 2008

Mr. John Townson
Director, Environmental Management Division
Marine Corps Base
PSC 20004
Camp Lejeune, North Carolina 28542-0004

Dear Mr. Townson:

The Fish and Wildlife Service (Service) has reviewed your December 17, 2007 letter, describing Camp Lejeune's progress in implementing the installation's Integrated Natural Resource Management Plan (INRMP). The current INRMP was implemented in November 2006 and is in effect for 2007 through 2011. Enclosed with your letter was a Fiscal Year, 2007 end-of-year progress report. Our comments are provided in accordance with the Sikes Act Improvement Act (SAIA) of 1997 (Public Law 105-85, 111 Statute 1629 (codified and amended at 16 U.S.C. § 670a (2000)) and section 7 of the Endangered Species Act (Act) of 1973, as amended (16 USC 1531 et seq.).

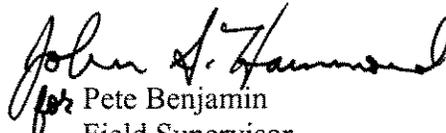
The report attached to your December 17, 2007 letter summarizes the progress Camp Lejeune has made toward reaching the objectives expressed in the November 2006 INRMP. This report demonstrates that Camp Lejeune is on schedule to meet the wide variety of objectives essential to manage the Base's high quality natural resources while providing ranges, impact areas, and maneuver and training areas critical for the installation to meet its national security mission.

Our letter is provided as recognition of our mutual agreement with Camp Lejeune regarding development and implementation of the INRMP. We also believe that the current INRMP continues to be sufficient to exempt Marine Corps Base Camp Lejeune from future critical habitat designations for species currently known to occur on the Base and given our current understanding of the exemption criteria. However, actual exemption from critical habitat designation must be made at the time of rule making and following criteria in existence at that time.

One of the metrics tracked in the INRMP is the annual RCW population growth rate. Specifically, the INRMP expresses this benchmark as "RCW population growth rate, based on the number of active clusters should meet or exceed 5% when averaged over ten years (current year plus previous nine years)." The number of active clusters increased 6.3% between 2006 and 2007 (79 to 84, according to Camp Lejeune's annual RCW report for 2007). The woodpecker's response to management is just one of many objectives outlined in the INRMP and one of several accomplishments documented in the EOY Report. However, this rate of growth is a major credit to the installation's efforts to develop and execute the INRMP and to adapt the plan to changing mission and conservation requirements.

The Service recognizes Camp Lejeune's commitment to protection and recovery of federally listed species and appreciates the installation's contributions to conserving fish, wildlife and their habitats for the continuing benefit of Marines, Sailors, and the American people. If you have any questions regarding this matter, please contact Mr. John Hammond at (919) 856-4520 (ext. 28). Thank you for your continued cooperation with our agency.

Sincerely,


for Pete Benjamin
Field Supervisor

cc: Will McDearman, USFWS
Tom Sinclair, USFWS

Rogers CIV William H

From: Louis Daniel [Louis.Daniel@ncmail.net]
Sent: Monday, January 07, 2008 1:52 PM
To: Rogers GS13 William H
Cc: Fritz Rohde; Catherine Blum
Subject: INRMP

Mr. Rogers,
I am in receipt of the INRMP for Camp Lejeune and feel it is complete.
I have no questions and feel the report is complete.
Thank you for the opportunity to comment.

Dr. Louis Daniel
Director, Marine Fisheries