

## Recognizing Outstanding Accomplishment in

Natural Resources Conservation

Cultural Resources Management

Environmental Quality

Pollution Prevention

Environmental Restoration

Weapon System Acquisition

2006

"The Department of Defense has been entrusted with some 30 million acres of this country's land on which to house and train our forces and to test the weapons that they will likely have to use in battle. The duty to protect the natural resources of those lands is a profound responsibility."



# LETTER FROM THE DEPUTY UNDER SECRETARY OF DEFENSE (INSTALLATIONS AND ENVIRONMENT)



Each year since 1962, the Secretary of Defense has honored installations, teams, and individuals for their outstanding achievements to protect and conserve the natural and cultural resources entrusted to the Department.

As the environmental steward for more than 30 million acres, we are responsible for sustaining our resources to not only preserve these lands for our future generations, but also to meet the security challenges of the 21st century.

By employing a strategy that reaches beyond mere compliance with environmental laws and regulations, we have transformed our business practices to enhance our partnerships with communities, integrate environment into our acquisition process, and implement management systems to ensure the long-term viability of these lands for future defense operations.

The outstanding efforts of this year's winners, and the valuable work of all of the nominees, demonstrate their commitment to this transformation. They have taken the initiative to find new and better ways to conserve and sustain the natural and cultural resources under our stewardship, to maintain a high level of environmental quality in defense activities, and to prevent pollution at its source.

The Department will continue to challenge our environmental professionals to do more to achieve a secure, sustainable future, one that contributes to the success of our armed forces, the environment, and our nation.

Congratulations to all of this year's winners.

Mr. Philip W. Grone

Deputy Under Secretary of Defense (Installations and Environment)

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## ABOUT THE AWARDS

#### Natural Resources Conservation

The Department promotes the conservation of fish and wildlife, preservation of forests and land resources, and protection of endangered plant and animal species on our installations and other lands we hold in the public trust. Investments made in our natural resources preserve and sustain these valuable environmental assets for all current and future generations.

#### Cultural Resources Management

An essential part of our mission is to protect our nation's heritage and cultural assets, such as historic sites and districts, archaeological sites, records, historic property, and sacred sites. Through cultural resources management programs, the Department identifies areas likely to contain historical assets and works to protect these resources in partnership with Native American Tribes and historic preservation authorities.

#### Environmental Quality

The Department seeks to protect air and water quality, prevent and eliminate pollution, and implement environmental management systems that promote sound environmental practices while continuously improving performance. Meeting or exceeding all environmental requirements, not only enhances the protection of our environmental assets, but also sustains our ability to effectively train and maintain readiness.

#### Pollution Prevention

Pollution prevention includes recycling and waste reduction, reducing or eliminating the use of hazardous materials and ozone-depleting substances, developing safer alternatives to these substances, and purchasing environmentally preferable products. The Department's investment in pollution prevention has decreased the pollution and hazardous wastes generated at our installations, reducing the risks to the public and the environment and resulting in cost savings.

#### Environmental Restoration

The Defense Environmental Restoration Program restores property that has been impacted by past defense activities. The restoration program addresses more than 30,000 sites at active and closing military installations as well as formerly used defense sites across the nation and U.S. territories. Restoring these properties protects both military personnel and the public from potential environmental health and safety hazards.

### Environmental Excellence in Weapon System Acquisition

The Department identifies and addresses environmental, safety, and occupational health risks throughout the acquisition process. Identification of environmental hazards in the weapon system acquisition life-cycle – from development to disposal – helps to eliminate, reduce, or mitigate the environmental risks and reduces the life-cycle cost of the weapon system.

## Marine Corps Base Hawaii

Natural Resources Conservation
Small Installation

Marine Corps Base Hawaii manages the installations and natural resources located on a total of 4,500 acres throughout the island of Oahu, including Camp Smith, Kaneohe Bay, Marine Corps Training Area Bellows, Manana Family Housing Area, Pearl City Warehouse Annex, and Puuoloa Range Complex. Through its Integrated Natural Resources Management Plan, the base conservation team works closely with other offices on the installation to manage storm water and erosion, spill response, recycling, and pollution prevention.



Marine Corps Base Hawaii



Volunteers helped clear more than 25 acres of invasive mangrove from wetlands.

Marine Corps Base Hawaii's Natural Resources Conservation Accomplishments:

- Led the Marine Corps in meeting new federal requirements for tracking environmental performance measures
- Enforced a 500-yard buffer around the base's 11-mile peninsular coastline to protect organisms in coastal waters and nearby bays, including live corals, seaweeds, threatened green turtles, endangered marine mammals, seabirds, dolphins, endangered humpback whales, and monk seals
- Reduced brushfire and erosion risks at training ranges by implementing innovative fire-suppression techniques, such as solar-powered water cannons
- Began construction on a \$1.1 million stream corridor and wetland restoration project
- Controlled invasive vegetation in Hawaiian stilt nesting areas
- Reached out to the community through educational tours in natural resource activities aimed at improving the native species habitat

## Minnesota Army National Guard Natural Resources Conservation Team, Minnesota

Natural Resources Conservation Team/Individual

The Minnesota Army National Guard Natural Resources Conservation Team is located at Camp Ripley, a 52,758-acre training site, and at Arden Hills Army Training Site, a 1,500-acre training site in central Minnesota. In addition to serving as a military training site, Camp Ripley is the second largest statutory game refuge in the state. The Minnesota Army National Guard Natural Resources Conservation Team manages not only the



Two packs of wolves are thriving on Camp Ripley, coexisting with troops in training.

natural resources at Camp Ripley, but also oversees the conservation programs of all other Minnesota Army National Guard facilities. The success of the Minnesota Army National Guard Natural Resources



Chief Warrant Officer Kelly Nokes, a Minnesota National Guard pilot, cleans snow off a Blackhawk helicopter.

Conservation Team in meeting the challenge of maintaining the varied ecosystems and habitats on these facilities is achieved primarily through their commitment to protection, sustainability, and partnerships.

"The people and natural resources of the great state of Minnesota benefit in many ways from the cooperative partnership of the Minnesota Army National Guard and the Minnesota Department of Natural Resources. We value this relationship and are committed to build upon it for future generations of Americans."

- Gene Merriam, MNDNR Commissioner Minnesota Army National Guard Natural Resources Conservation Team's Accomplishments:

- With support from St. Cloud State University, the team developed a system to evaluate natural resource requirements in planning military exercises
- Realized 50 percent cost savings by conducting land rehabilitation and erosion work in-house
- Implemented a forestry management plan for Camp Ripley
- Reduced the use of active pesticide ingredients by 50 percent
- Worked with local communities to set-aside land surrounding the installation to ensure military training activities are not adversely impacted by development
- Educated hundreds of school and community groups
- Engaged in partnerships to promote natural resources conservation with eight government, educational, non-profit, and tribal organizations

## Naval Air Weapons Station China Lake

Cultural Resources Management Installation

Naval Air Weapons Station China Lake spans 1.1 million acres in the remote high-altitude desert of east-central California. A wide variety of terrain, ecosystems, and climates makes China Lake ideal for research, development, testing, and evaluation of air-launched weapons systems. China Lake is also home to many important cultural resources, including ancient trails, petroglyphs, nut harvesting camps, former village sites, and hunting artifacts. One of the installation's ancient sacred sites, Coso Hot Springs, is still in use today by Native Americans. China Lake's cultural resources program uses an Integrated Cultural Resources Management Plan to ensure that cultural resources are considered in all facility and

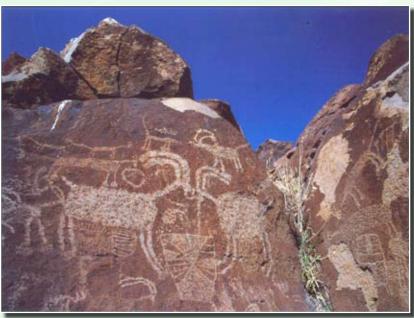


Basketry fragments from Naval Air Weapons Station China Lake South Range.

mission planning, including the reuse and preservation of historic buildings and maintenance of archaeological artifacts.

Naval Air Weapons Station China Lake's Cultural Resources Management Accomplishments:

- Developed a volunteer program to staff the curation facility, manage China Lake's archaeological laboratory, and conduct public outreach tours of the installation facilities
- Conducted inventories of more than 12,000 acres of land to determine eligibility for listing on the National Register of Historic Places
- Nominated 12 additional properties for placement on the National Register of Historic Places
- Established partnerships with four tribal governments to share archaeological information and ensure continued preservation of cultural resources
- Recruited local police and volunteers to assist in preventing vandalism of cultural resources in remote areas of the installation



In May 2005, China Lake dedicated Coso Rock Art as a National Historic Landmark. The 36,000-acre site is the largest and best preserved concentration of rock art in North America and the Department of Defense's largest National Historic Landmark.

## FORT CAMPBELL, KENTUCKY

Environmental Quality
Non-Industrial Installation

Fort Campbell, a 105,068-acre installation located on the border between Hopkinsville, Kentucky, and Clarksville, Tennessee, supports readiness and mission execution of its expeditionary forces, including the 101st Airborne Division, the 5th Special Forces Group, the 160th Special Operations Aviation Regiment, and the 86th Combat Support Hospital. Fort Campbell's environmental program focuses on meeting the installation's environmental challenges that support soldier readiness, while meeting or exceeding all regulatory requirements.



Fanny and Freckles teach stormwater management, pollution prevention, and recycling to kids.

"Fort Campbell has implemented one of the most progressive environmental management systems in the United States military and demonstrated an exemplary commitment to environmental improvements and sustainability."

- Gary Sondermeyer, Chief of Staff State of New Jersey Department of Environmental Protection (Army Awards Program Judge)



Soldiers tour the Pollution Prevention Operation
Center after receiving Environmental Management
Systems training. The Pollution Prevention Operation
Center conducts 20 two-hour facility tours for units,
commanders, students, and civilians every year.

Fort Campbell's Environmental Quality Accomplishments:

- Centralized management of hazardous materials, reducing risks, and increasing readiness
- Substituted an aircraft coating that reduced chemical pollutants by 75 percent and hazardous air pollutants by 95 percent
- Achieved significant cost savings by recycling 45,830 gallons of solvent; 27,700 gallons of antifreeze;
   292,918 gallons of used oil and fuel; and 263,565 pounds of lead
- Saved over \$1.5 million in procurement and disposal costs by testing and reissuing 55 percent of batteries
- Developed a Web site to provide environmental managers with cultural resource, natural resource, and erosion control information
- Expanded the Earth Day Program to make "Earth Day, Every Day"; encouraging competition among local schools to undertake environmental projects during the year

## TEAM DYESS, DYESS AIR FORCE BASE, TEXAS

Environmental Quality Team/Individual

Situated on more than 6,000-acres in Abilene, Texas, Dyess Air Force Base is home to the 7th Bomb Wing and 317th Airlift Group. Dyess Air Force Base has a long-standing commitment to environmental excellence and a flawless 5-year compliance history. The four-member environmental team, part of the Air Combat Command, is responsible for oversight of all environmental programs, including management of cultural and natural resources, safety, and occupational health issues, as well as environmental compliance.

## Team Dyess' Environmental Quality Accomplishments:

- Implemented a new environmental management system resulting in reductions in waste generation and emissions, increased efficiency, and reduced compliance costs
- Implemented Web-based environmental training program for the facility
- Formed a partnership with the City of Abilene to recycle residential hazardous chemicals
- Increased purchases of environmentally-friendly products by 6 percent
- Reduced energy consumption, harmful air emissions, and water usage, resulting in a savings of \$750,000
- Expanded recycling efforts to include interior collection stations
- Participated in numerous environmental events, programs, and conferences with the City of Abilene, schools and universities, and local agencies



The Dyess Air Force Base Team plants trees outside the Civil Engineering compound in celebration of Arbor Day.



Local school students are given a tour of the Municipal Recycling Facility at Dyess Air Force Base.

## TINKER AIR FORCE BASE, OKLAHOMA

Pollution Prevention Installation

Tinker Air Force Base, home of the Oklahoma City Air Logistics Center and 72nd Air Base Wing, provides worldwide technical logistics support to Air Force and Navy weapon system programs. Tinker Air Force Base manages 2,261 aircraft, including the B-1, B-2, B-52, C/KC-135, and E-3, and an inventory of approximately 23,000 jet engines. Strong leadership and a strategic vision enhanced Tinker Air Force Base's proactive approach in preserving their land, water, and biological resources. The Tinker Air Force Base Pollution Prevention Program focuses on reducing and eliminating hazardous material use, air emissions, and hazardous waste production.

Tinker Air Force Base's Pollution Prevention Accomplishments:

- Provided comprehensive pollution prevention training to personnel at all levels of the installation
- Introduced more environmentally-friendly aircraft paint strippers that produce less waste, save money, and result in cleaner air emissions
- Recycled more than 57,000 gallons of machine coolant, resulting in a savings of \$107,000 per year

Optimizing the Industrial Water Treatment Plant	3,450 tons hazardous waste reduction	
Reduction of VOCs by Use of Powder Coating	Resulting in a 1-ton VOC reduction	
Coolant Recycling	200-ton decrease in disposal	
Energy savings	25,000 MBtu/yr decrease for one project alone	
Solvent Substitution	Resulting in 16 tons of VOC reduction	
Metal Sludge Recycling	42 tons diverted from landfill	
Composting	30 tons diverted from landfill	
Use of Alternative Fuels	200,000 gallons used, resulting in a 20-ton air emissions decrease	
Recycling	17% diversion increase, 80 tons mixed paper, 100 tons pallets, 120% increase in white paper	
MBtu - million British thermal units, VOC - volatile organic compound		

Tinker Air Force Base significantly reduced waste generation on base.

- Surveyed more than one-fifth of base facilities to increase energy efficiencies
- Implemented a system to recycle mail, magazines, and shredded paper, eliminating 80 tons of waste from landfills
- Developed and maintained relationships with more than 50 environmental organizations, including universities, government agencies, industry, Native American tribes, and the local community



Through the use of alternative fuels, Tinker Air Force Base has reduced air toxins, ground level ozone, and carbon dioxide by 20 tons per year.

## FORT LEWIS, WASHINGTON

Environmental Restoration Installation

Fort Lewis, home to the Army's first two Stryker brigades, lies on 87,000 acres in northwest Washington. The Yakima Training Center, a 327,000-acre subinstallation of Fort Lewis, is a high quality training area located in the desert of central Washington. Under the Defense **Environmental Restoration** Program, Fort Lewis restores those areas of the installation that have been impacted by past defense activities, in cooperation with state agencies and the U.S. Environmental Protection Agency.



Strykers from Fort Lewis, such as the two shown above, trained for deployment at the Yakima Training Center.



At the former Evergreen Infiltration Range, a phosphate-based stabilizer is added to prevent lead in the soil from leaching during a soil recycling project.

"Fort Lewis has always gone beyond the minimal regulatory requirements – they don't just do what's necessary, they do what's right."

- Bob Kievit U.S. Environmental Protection Agency

Fort Lewis' Environmental Restoration Accomplishments:

- Used in-house professionals to undertake routine engineering tasks resulting in significant cost savings
- Re-invested those savings to accelerate restoration, initiating restoration at eight sites, and completing the restoration at two remaining sites
- Conducted research and pilot testing of additives to improve biodegradation of chemicals in groundwater
- Used an innovative technology to remove lead in the soil that minimized hauling and disposal
- Enhanced community relations by sponsoring an open house, field trips, and research projects

## Pyramid Lake Torpedo and Bombing Range Remediation Project Team

U.S. Army Corps of Engineers, Sacramento District

Environmental Restoration Team/Individual

The Pyramid Lake Paiute Tribe Reservation, located in the Great Basin area of Nevada, is home to the Northern Paiute Tribe and P.yramid Lake. Between 1944 and 1946, the Navy leased a portion of the property. known as the Pyramid Lake Torpedo and Bombing Range, from the tribe for military training. As part of ongoing efforts to restore properties formerly owned, leased, possessed or used by the military, the Department of Defense commissioned the Army Corps of Engineers to investigate and remediate any possible hazards remaining from the former training activities at the lake. Sacramento District worked in partnership with the Paiute Tribe, the U.S. Navy, and private contractors to restore the property.



Pyramid Lake Paiute Tribe Reservation

"The team solved problems, expanded the boundaries of known technologies, and successfully recovered ordnance from the sensitive environment with minimal disturbance."

- Norman Harry, Tribal Chairman



Navy divers prepare to conduct a deepwater ordnance recovery dive in Pyramid Lake.

Pyramid Lake Torpedo and Bombing Range Remediation Project Team's Environmental Restoration Accomplishments:

- Developed and tested protocols for special diving equipment needed for deep water at high altitudes
- Developed an innovative, one-of-a-kind deepwater ordnance recovery system
- Used a combination of partnerships and technology to achieve more than \$140 million in cost savings
- Recovered more than 13 tons of rockets and small arms munitions from the lake at depths up to 220 feet

## C-17 Pollution Prevention Integrated Product Team

Wright-Patterson Air Force Base, Ohio

Environmental Excellence in Weapon System Acquisition Team

The Aeronautical Systems Center located at Wright-Patterson Air Force Base, near Dayton, Ohio, is the main Air Force facility for the development, acquisition, modernization, and sustainment of the Air Force's aerospace systems. The Aeronautical Systems Center's C-17 Pollution Prevention Integrated Product Team consists of more than 60 members from across the country specializing in environmental, safety, and maintenance. Responsible for eliminating, reducing, and managing hazardous materials on the C-17 weapon system, the team integrated pollution prevention techniques into aircraft engineering and design, while minimizing cost and safety risks.

C-17 Pollution Prevention Integrated Product Team's Weapon System Acquisition Environmental Accomplishments:



The C-17 Integrated Product Team's investments in green alternative chemicals, including replacement of cadmium and chromium, improved the overall mission capability of the aircraft.

- Reduced the number of hazardous chemicals used in the project
- Developed a heat-resistant, environmentally-friendly coating to protect titanium slats on the aircraft wings
- Developed a plan to identify and minimize future safety risks, and introduce additional future pollution prevention initiatives
- Offered pollution prevention education to the community, sponsored a local high school career day, and created a Web site to keep the public updated on projects and initiatives



The C-17 Integrated Product Team consists of members from across the country.

## Defense Logistics Agency Environmental Management Systems Team

Special Recognition for Environmental Management Systems Implementation

The members of the Defense Logistics Agency Environmental Management Systems Team distinguished themselves by exceeding the goals set by the Department of Defense in implementing their environmental management systems. The team is comprised of representatives of the McNamara Headquarters Complex, nine field activities, and 142 qualifying sites. They met the Department of Defense environmental management systems goal in less than one year, a full year ahead of the Departmental deadline. The team then stepped up further implementation, completing mission-focused environmental management systems at 100 percent of qualifying sites by December 2005.



Vice Admiral Lippert signs Environment Management Systems policy with Federal Environmental Executive Ed Pinero and Dave Kling (U.S. Environmental Protection Agency).

The Defense Logistics Agency Environmental Management Systems Team's Accomplishments:

- Provided environmental management systems training for senior leaders and Defense Logistics Agency workforce worldwide
- Reviewed and validated that 100 percent of environmental management systems not only met requirements of the internationally recognized ISO 14001 Environmental Management System Standard but supported Defense Logistics Agency mission performance
- Established the first interagency environmental management system at the Hart-Dole-Inouye Federal Center in Battle Creek, Michigan in collaboration with the Federal Environmental Executive and General Services Administration
- Established new metrics for on-site verification of all environmental management systems by FY 2009, and a strategic plan objective for pilot studies with military services to improve use of agency products and services



The Defense Logistics Agency Environmental Management Systems Team provides training in Germany.

## HONORABLE MENTIONS

#### Natural Resources Conservation, Small Installation

Michigan Army National Guard Fort Custer Training Center Navy Information Operations Command Sugar Grove, West Virginia Hurlburt Field, Florida

#### Natural Resources Conservation, Team/Individual

Dr. Diane C. Drigot, Marine Corps Base Hawaii Naval Air Station Jacksonville Natural Resources Team, Florida Moody Air Force Base Natural Resources Team, Georgia

### Cultural Resources Management, Installation

Fort Leonard Wood, Missouri Marine Corps Base Camp Lejeune, North Carolina 611th Air Support Group, Elmendorf Air Force Base, Alaska

#### Environmental Quality, Non-Industrial Installation

Marine Corps Base Hawaii Naval Station Norfolk, Virginia 45th Space Wing, Patrick Air Force Base, Florida Defense Supply Center Richmond, Virginia Defense Commissary Agency, Fort Lee, Virginia

#### Environmental Quality, Team/Individual

Fort Stewart and Hunter Army Airfield Environmental Sustainability Management Team, Georgia Mr. James M. Wozniak, U.S. Marine Corps Headquarters Naval Air Depot Cherry Point Environmental Management System Team, North Carolina Defense National Stockpile Center, Fort Belvoir, Virginia

#### Pollution Prevention, Industrial Installation

Tobyhanna Army Depot, Pennsylvania Marine Corps Air Station Cherry Point, North Carolina Naval Air Depot North Island, California

#### Environmental Restoration, Installation

Marine Corps Air Station Cherry Point, North Carolina Naval Air Station Whiting Field, Florida Robins Air Force Base, Georgia

#### Environmental Restoration, Team/Individual

Former Marine Corps Air Station El Toro, California Team Pensacola, Naval Air Station Pensacola, Florida Mr. Lawrence R. Olderbak, Grand Forks Air Force Base, North Dakota

### Environmental Excellence in Weapon System Acquisition, Team

Army CO<sub>2</sub> Cooling Development Team, Communications-Electronics Research Development and Engineering Center, Fort Belvoir, Virginia

Programmatic Environmental, System Safety and Occupational Health Integration Division, U.S. Marine Corps Direct Reporting Program Manager, Advanced Amphibious Assault MH-60R Multi-Mission Helicopter Program, Naval Air Station Patuxent River, Maryland

## **J**UDGES

Volunteers from private industries, state and federal agencies, non-governmental organizations, and military retirees served as judges for the Secretary of Defense Environmental Awards.

- Mr. Israel Anderson, Environmental Protection Agency, Region VI
- Mr. Bob Ballard, Deputy Secretary, Florida Department of Environmental Protection
- Ms. Amy Butler, Chief, Michigan Department of Environmental Quality, Environmental Sciences and Services Division
- Mr. John Carty, Director, Zurich Insurance Environmental and Professional Claims
- Mr. Joe Cascio, Booz Allen Hamilton
- Dr. Richard Drawbaugh, Vice President, Technology, SAIC
- Mr. William Gauntt, Director, Business Development, Washington Group International, Inc.
- Col. Lewis Gorman, Military Liason, U.S. Fish and Wildlife Service
- Ms. Deborah Grubbe, Vice President, Group Safety, BP p.l.c.
- Dr. Betsy Kagey, Epidemiologist, Allegany Maryland County Health Department
- Dr. Julie King, Head, Maryland Archeology Conservation Lab
- Dr. Fran Kremer, Senior Science Advisor, Environmental Protection Agency, Cincinnati
- Mr. Donald Legg, Director, Environmental Health and Industry Safety, Bell Helicopter Textron
- Mr. Joseph Martone, Senior Environmental Consultant, SERCO North America
- Dr. Wayne Miller, University of California, Riverside
- Mr. Michael Penders, President/CEO, Environmental Security International
- Mr. Edwin Pinero, Federal Environmental Executive, Council on Environmental Quality
- Mr. John Roberts, Acting Chief, National Park Service
- Mr. Bruce Rosenlund, U.S. Fish and Wildlife Service
- Secretary Bill Ross, North Carolina Department of Environment and Natural Resources
- Ms. Nancy Schamu, Executive Director, National Conference of State Historic Preservation Officers
- Mr. Scott Schang, Environmental Law Institute
- Mr. Lenny Siegel, Executive Director, Center for Public Environmental Oversight
- Mr. Mervyn Tano, President, The International Institute for Indigenous Resource Management
- Mr. Tom Tillman, Associate Director, Pollution Prevention, Environmental Protection Agency, Office of Pollution Prevention and Toxics East
- Ms. Cherilyn Widell, Principal Historic Preservation, HNTB
- Mr. Harry Zimmerman, Booz Allen Hamilton

