

# Environmental Monitor

July 2012

## Military Munitions at PCD

By Chris Pulskamp, PCD Project Manager

Thirteen sites at Pueblo Chemical Depot (PCD) are designated as Solid Waste Management Units (SWMUs) because they may contain military munitions. Generally, these areas are located on the eastern and western edges of PCD. Military munitions refer to all types of conventional and chemical ammunition products and their components, produced by or for the military for national defense and security. Some acronyms that apply to military munitions:

- **Munitions and Explosives of Concern (MEC):** A general term that includes unexploded ordnance (UXO), discarded military munitions (DMM) and munitions constituents (MC).
- **Unexploded Ordnance:** UXO refers to military munitions that have been primed, fuzed, armed or otherwise prepared for action.

These items remain unexploded due to malfunction, design or any other cause.

- **Discarded military munitions:** DMM includes military munitions that have been abandoned without proper disposal or removed from storage for the purpose of disposal. They are not armed.
- **Munitions Constituents:** MC refers to any material originating from UXO, DMM or other military munitions and includes other media that may contain explosive concentrations large enough that the mixture itself presents an explosive hazard.

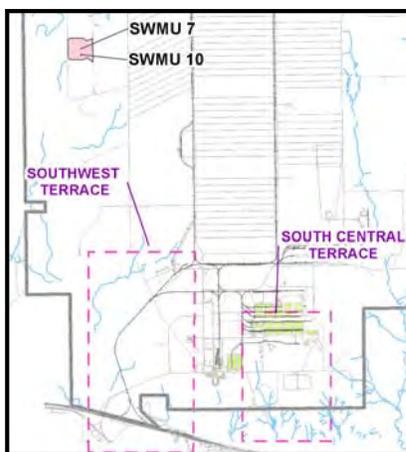
The PCD Environmental Management Office is responsible for investigating MEC SWMUs for nature and extent of contamination and then proposing remedial actions. Munitions remain sensitive over time; the most important thing to remember if you are in a suspected MEC area is **"If you didn't drop it, don't pick it up."** ♦

## Remediation Work begins at Two former Munitions Sites

By Chris Sundeen, Shaw Project Manager

Remedial investigation activities are beginning at two military munitions sites located in the northwestern corner of PCD: SWMU 7, North Burn Area, and SWMU 10, Pyrotechnic Burning Cage. PCD is identifying and addressing information gaps at these two sites.

**SWMU 7** (North Burn Area 2) covers 30 acres and was used for the incineration of discarded military munitions, generally in burn trays. Ash and residue from these operations were collected and reportedly piled in the



southeast corner. Fuel oil was often added to aid in burning materials. Intermittent operations began in 1953 and ended in 1990.

**SWMU 10** (Pyrotechnic Burning Cage) is contained within the southeast portion of SWMU 7, at the former location of a burning cage. This cage was used for burning various types of MEC and destroying illegal fireworks confiscated by local law enforcement. Operations began in the early 1960s and ended in 1985.

A site visit was conducted March 19 to observe current site conditions.

(See *Remediation Work Begins* on page 3)

## Calendar of Events

Important DATES!

**July 9, 2012: 6:00 p.m.** Restoration Advisory Board (RAB) Meeting at the **Boone Fire Station at 421 1st Street** in Boone. This meeting will be an annual update of PCD's restoration programs.

**October 15, 2012: 5:30 p.m.** RAB Meeting, Pueblo Chemical Depot Theater, Building 6. This meeting will be a **site tour**.

The *Environmental Monitor* is published quarterly by Pueblo Chemical Depot for the citizens of Pueblo County and surrounding communities. Editorial views and opinions expressed in this publication are not necessarily those of the Department of the Army.

The *Environmental Monitor* encourages comments, questions, and suggestions. Please direct all correspondence to the Public Affairs Office, Pueblo Chemical Depot, 45825 Hwy. 96E, Bldg. 1, Pueblo, CO 81006-9330, or call 719-549-4135.

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## Earth Day Events at the Depot



*Diana Miller of the Pueblo Raptor Center teaches Depot employees about raptor rescue*



*Chris Pulskamp presents an award to speakers from PuebloCares for teaching the workforce ways to eliminate hazardous household chemicals*



*Employees work to beautify the Depot*



*Larry Horns deposits recyclable materials in designated bins*

## Remediation Activities Underway at SWMUs 25 and 57

*by Chris Pulskamp, PCD Project Manager*



*SWMU 25, Sanitary Sewage Treatment Plant: Soil excavation activities to remove pesticide and polycyclic aromatic hydrocarbon (PAHs) contamination.*



*SWMU 57, Buildings 701, 706, and 731: Exposing the conveyance piping within the drainage ditch for excavation of contaminated soil. Contaminants are lead, polychlorinated biphenyls and PAHs.*



*SWMU 57: Exposed junction box within the drainage ditch*



# Environmental Monitor

## Pueblo Chemical Depot Environmental Honors Program

by Max Canestorp, PCD Natural Resource Manager

In 2003, Pueblo Chemical Depot (PCD) initiated a program to recognize PCD employees and contractors who demonstrate an exemplary level of environmental awareness and put that awareness into action. Each year during PCD's Earth Day celebration, one or more individuals or organizations are recognized by the PCD Environmental Honors program - they are given a letter of appreciation from the Commander and their names are added to the Environmental Honors plaque that hangs in the Headquarters Building. Past awardees have been acknowledged for raising environmental issues that require correction, implementing new and innovative approaches in the recycling program, protecting migratory birds and rescuing injured wildlife, and otherwise undertaking measures to protect PCD's natural resources.

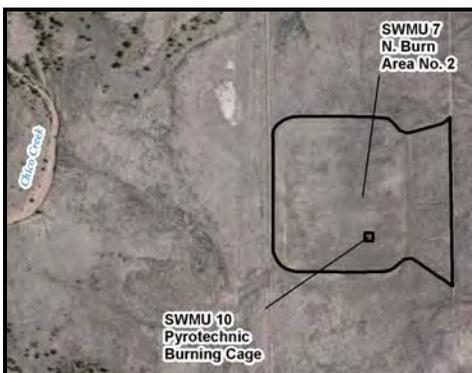


Lieutenant Colonel Tim Greenhaw presents an Environmental Honors award to Paul Zamora at the 2012 Earth Day Celebration

Below is a list of personnel who have been recognized by the PCD Environmental Honors program from 2003 to present. These individuals and organizations have shown due diligence to go "beyond the call of duty" to ensure a clean and safe environment for future generations. They are a credit to the workforce; it is with pride, gratitude and respect that PCD recognizes their efforts. ◇

2003: Norman E. Imblum Norm's Quality Construction	2003: Rodney G. Zimmerman Office of Public Works, PCD	2004: Philipp M. Mayer PCAPP Field Officer
2005: Frank H. Gonzales Office of Public Works, PCD	2005: Timothy L. Ross Environmental Mgmt. Ofc, PCD	2006: Carlos Estrada Office of Public Works, PCD
2006: Chris Hambric Environmental Scientist	2006: Eddie Dunn Facility Engineer	2007: Law Enforcement Operations Branch Guard Force
2007: Phillip J. Casias Office of Public Works, PCD	2007: Larry D. Horns Office of Public Works, PCD	2008: Jane M. Perkins Recreation Assistant
2008: Green Team PCAPP	2008: Clarence D. Mondragon Maintenance Mechanic	2009: Joe Provost PCAPP Construction Supt.
2010: Paul J. Ryall General Engineer	2011: Directorate of Logistics	2012: Paul Zamora Electromotive Mechanic

### Remediation Work begins (continued from page 1)



Observations included the general type, location, and density of munitions debris and other debris types visible on the ground surface; re-locating previously identified burn and disposal areas; and evaluating the effectiveness of past surface clearance/MEC removal efforts. Next activities include the development of a site-wide conceptual site model (CSM) followed by the development of a Supplemental RCRA Facility Investigation (RFI) Work Plan.

The CSM will provide an understanding of site conditions, potential contaminant sources, release mechanisms, exposure pathways, and potential chemical and MEC contamination risks. Further MEC investigation and groundwater, soil, and sediment

sampling will likely be required during the Supplemental RFI to address data gaps. ◇

**CONTACT US** If you have questions about the environmental restoration projects or base reuse, please call: Chuck Sprague, Pueblo Chemical Depot (PCD) Public Affairs Officer, 719-549-4135 • Chris Pulskamp, Chief, PCD Environmental Management Office, 719-549-4252

**Or return this form to:** U.S. Army Pueblo Chemical Depot, 45825 Hwy. 96E, Building 49, Pueblo, CO 81006-9330

Would you like to be added to our mailing list?  Yes  No

**Please complete the following:** Name \_\_\_\_\_ Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_ Phone (optional) \_\_\_\_\_ Email (optional) \_\_\_\_\_

The PCD Environmental Program schedules presentations that can be given to community groups, clubs, and schools. If you know of a group that might be interested, please complete the following:

Name \_\_\_\_\_ Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_ Phone \_\_\_\_\_ Email \_\_\_\_\_



## U.S. ARMY PUEBLO CHEMICAL DEPOT

# Environmental Monitor

### ***ENVIRONMENTAL MANAGEMENT OFFICE***

45825 Highway 96 East, Building 49  
Pueblo, Colorado 81006-9330

### **Information Repositories**

**Boone Fire Station:** 421 E. 1st St., Boone, CO (719) 947-3311  
Hours: 8 a.m. to 2 p.m. M-Th

**Robert Hoag Rawlings Public Library:** 100 East Abriendo, Pueblo, CO (719) 562-5600  
Hours: 9 a.m. to 9 p.m. M-Th; 9 a.m. to 6 p.m. F-Sat;  
1 p.m. to 5 p.m. Sun

**McHarg Park Community Center:** 405 2nd St., Avondale, CO (719) 947-4180  
Hours: 8:30 a.m. to 7:45 p.m. M-F

**Pueblo Chemical Depot Document Tracking Center**  
Environmental Management Office, Pueblo, CO (719) 549-4268  
Hours: 6:30 a.m. to 5 p.m. M-Th

### **Additional Contacts**

**Deb Anderson**, Project Manager, (303) 692-3379 or (888) 569-1831, ext. 3379  
**Jeannine Natterman**, Public Information Officer, (303) 692-3303 or (888) 569-1831, ext. 3303  
Hazardous Materials and Waste Management Division,  
Colorado Department of Public Health and Environment

**Vera Moritz**, Program Manager, U.S. Environmental Protection Agency, (303) 312-6981

**Heather Maio**, Environmental Health Director, Pueblo City-County Health Department, (719) 583-4321