



ENVIRONMENTAL *News*



EFA Northeast,

Naval Facilities Engineering Command

Winter 2002

New Tricks With Old Dogs

EFANE Hosts RAC/CLEAN Contract Closeout Meeting

By Dave Rule

Director, Environmental Contracts Division



Success is in the cards when (from left) Dave Rule, Director Environmental Contracts Division, Roger Boucher, Head Environmental Contracts Technical Branch and Christi Davis, RAC COTR get together to close out old contracts.

The NAVFAC environmental leadership asked EFANE to host an Integrated Process Team (IPT) meeting on closeout of old RAC/CLEAN contracts. The meeting was held in EFANE's new Command Business Office conference center in March . More than 30 participants represented NAVFAC HQ, EFDLANT, EFANE, EFDPA, EFDSW, EFANW, and EFACHES. The purpose was to map out a strategy for accelerating and prioritizing contract close-outs. The team was successful in gaining an understanding of the difficulties some commands are experiencing and agreed to a step-by-step approach focusing on faster, easier closeout of individual task orders.

(Continued on page 7)



From the Department Head's Desk

By Conrad Mayer, P.E.
Head, Environmental Department

The word must have gotten out. Bill Mansfield's chair up at Northeast Region was still warm when Bob Jones announced his own upcoming retirement. Bill must have told Bob some good things about post-Federal employment living.

In other personnel news, it appears that Greg Apraham got some wanderlust and will be leaving the Environmental Director position at NAS Brunswick, ME to work at NAS Sigonella. Since luring Greg to Sigonella will be one of CAPT Raines' last actions before he leaves there to assume command of EFA Northeast, I hope he's ready to take some heat!

And a final personnel item. I was happy to hear that Sid Allison was selected to fill the SES position as Head of NAVFAC's Environmental Programs. Sid was my counterpart at SOUTH DIV in Charleston, SC, and is a good friend. I'm certain he will do a great job, and keep the environmental ship steering the same progressive tack established by Dr. Jim Wright. Dr. Wright has moved over to assume the Chief Engineer position. Together, Sid and Jim will make a great team at NAVFAC Headquarters.

Best wishes to our retiree, our traveler and our new leader!



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New Hazardous Materials Storage Facility for NAS JRB Willow Grove, PA

By John Puglisi, Malcolm Pirnie, Inc. and Lien Nguyen-Gale, Environmental Engineer, Hazardous Waste Branch, EFANE

In November 2001, the EFANE team completed year-long construction of an 8,400 sq. ft. hazardous materials storage and distribution facility at NAS JRB Willow Grove, PA. The facility was designed by Malcolm Pirnie, Inc. of White Plains, NY, constructed by Volmar Construction of Brooklyn, NY with overall design and construction project management by EFANE. The facility was officially opened on February 6, 2002 at a ribbon cutting ceremony hosted by the Commanding Officer, NAS JRB Willow Grove.

Before the construction of the new facility, NAS JRB environmental personnel operated the Station hazardous materials supply program from cramped spaces in one of the main operational hangars. Hazardous and flammable materials were stored in a collection of portable flammable material storage lockers located outside of the hangar. Safe material handling was extremely problematic when the weather was bad. Decentralized material storage made inventory management very challenging.

The NAS JRB Public Works Department worked with both the Station Environmental Branch and the Supply Department to develop a facility plan for hazardous materials storage which included construction of a new facility to be located adjacent to the base fire department.

Throughout the design process, the EFANE design team worked closely with the Station



CAPT J.C. Blake, (center), CO of NAS JRB Willow Grove stands poised to cut the ribbon on the new HAZMAT storage facility. Supporting cast includes, from left: Dana Jones (ROICC); LCDR Schoen (PWO); John Puglisi (A&E designer); Wayne Lawrence and Bill DiGiacomo (Volmar reps.); Paul Greco (environmental director) and Paul Stewart (NAVSUP).

Supply, Public Works and Environmental staffs to ensure that material storage and distribution requirements would be integrated into the new facility.

The new facility has 5,300 square feet of interior hazardous material storage area complete with integral secondary containment, industrial ventilation and material storage shelving. Over 3,100 sq. ft. of administrative support area complete with a centralized distribution point and computer networking and telecommunications connectivity will support the new Hazardous Substance Management System (HSMS).

Key Station project staff for this project were Gloria Abarca, Paul Greco, John Dibuono (NAS JRB Willow Grove) and Dana Jones. EFANE's Jim Briggs was the Design Manager on the project.



Sediment water interface offshore of McAllister Point Landfill, Newport, RI

RISK CORNER

Let's Muck It Up With Sediments



**Risk Assessment
Self Directed Work Team**

Dave Barclift Jason Speicher



Welcome back to the risk corner and for this newsletter the hot topic is anything and everything having to do with sediments. We have a new CNO policy on sediments, upcoming new NAVFAC assessment and management of sediment guidance, and upcoming new NAFVAC sediment background guidance. You may ask yourself why have sediments become such a big deal? During a 2001 IR conference presentation, it was shown that the Navy has approximately 223 sediment sites with a potential treatment cost of \$1.3 billion! We're sure that statistic raised the eyebrows of a couple of people. Anyway, we digress....

So, let's start with the basics. What are sediments? According to Mr. Webster, a sediment is "finely divided solid material that settles to the bottom of a liquid." That's right, we are talking about the sandy, silty, clayey, mucky stuff at the bottom of ponds, lakes, creeks, streams, rivers, bays, oceans... you probably get the picture. The problem with sediment investigations is that they are for several reasons, much more dynamic and complex when compared to your standard everyday, run-of-the-mill soil investigations. (1) there are no sediment quality criteria that are readily acceptable (or in legalese, fully promulgated), (2) risk-based thresholds (sediment benchmarks) do not exist for many constituents, (3) the media of sediments is closely associated with the overlying water and the water between sediment particles (porewater), (4) sediment sites located on large waterbodies can be influenced by non-Navy inputs, (5) sediments move more than soils via processes such as tidal flux, currents, and severe storm events (6) because

(Continued on page 8)



sediment profile showing eelgrass and mussels offshore of McAllister Point Landfill, Newport, RI.

Christi Davis Named Atlantic Division's Employee of the Year

During the recent EFA Northeast Commissioning Ceremony, our own Christi Davis was honored as Atlantic Division's 2001 Employee of the Year. RDML Phillips, Atlantic Division's Commander presented the award to Christi.

As part of Atlantic Division's Employee Recognition Program, this award recognizes outstanding performance by individuals throughout the Atlantic Division. Individuals from all LANTDIV components (LANTDIV HQ, EFA Northeast, EFA Chesapeake, EFA Mediterranean, OICC Naples and all field offices) compete for this award.



Christi proudly displays her award with hubby, EFA NE pest management professional Jeff Davis.



Witnessed by CAPT Joe Zorica and a gathering of over 200, Christi Davis receives congratulations and a plaque from RDML Robert Phillips during EFA NE's recent Commissioning Ceremony.

Christi is a Registered Professional Engineer working in the Environmental Department's Environmental Contracting Technical Branch. Her primary duties are those of Contracting Officer's Technical Representative (COTR) for our Remedial Action Contract (RAC). Her achievements during the past year have earned her this special recognition.

Attributes evaluated by the selection panel that reviews all nominations go far beyond the individuals specific job performance. Prospective nominees for the LANTDIV "Employee of the Year" must also demonstrate: accomplishments beyond immediate assignments; educational self-improvement achievements; honors and awards; participation in command, office and employee activities; and civic activities.

CONGRATULATIONS CHRISTI!!

OH, TO HAL WITH IT!

According to HTIS (Jan. – Feb. 2002), to eliminate all halogenated organic compounds in the environment, we would have to ban volcanoes, forest fires, mammalian immune systems, insect pheromones, some antibiotics, cabbage, termites, algae, and soil, all of which naturally produce halogenated fluoro-, chloro-, bromo-, or iodo-organics.

LET'S GET THE SHPO ON THE ROAD

By Tina A. Deininger

Historic Preservation Officer



The annual Department of Navy Cultural Resource Managers Meeting will be held 7-9 May 2002 at the Naval Support Activity Mid-South in Millington, TN. This assembly is the *only* in-person forum that the Navy uses to discuss and disseminate Navy-wide cultural resource policy and practices. The Cultural Resources Program includes the management of following types of resources/requirements: historic buildings and structures, archaeological sites and areas of sensitivity, State Historic Preservation Officer (SHPO) consultations, Native American graves and associated objects and Native American consultation.

This meeting will be the first to *officially* include the Marine Corps. Some of the planned agenda items include: Navy and Marine Corps Cultural Resources Program Updates, Federal Ar-

chaeology Report and Other Data Calls, Native American Graves Protection and Repatriation Act (NAGPRA) Consultations, Army Section 106 Alternative Procedures, Integrated Cultural Resources Management Planning (Regional applications and RSIP-LINK users as well), Historic Family Housing PA, Public Private Venture (PPV), National Environmental Policy Act (NEPA)-National Historic Preservation Act (NHPA) 106 Integration, Anti-Terrorism Force Protection. Mr. Donald Schregardus, our new Deputy Assistant Secretary of the Navy, Environment (DASN(E)) will provide the keynote address.

Cultural resource professionals from the NAVFAC family will be there. Claimant and activity cultural resources personnel should plan to attend or be represented in some way. This is a unique opportunity to be immersed, for a few days, in a program that might not be your only responsibility, but certainly has the potential to cause impacts to the projects you work on.

For more info, please contact our Historic Preservation Officer, Tina Deininger, at (610) 595-0761 or deiningerta@efane.navy.mil.

Items of Interest



ADUSD (E) Visits Philadelphia and New England

John Paul Woodley, Assistant Deputy Under Secretary of Defense (Environment) visited the Philadelphia area, EPA Region 3, the Connecticut/Rhode Island/Massachusetts area and EPA Region 1 during the period of January 14-24. EFANE provided input to the Regional Environmental Coordinators (CNRMA and CNRNE respectively) who coordinated the visits.

EFANE's Joe Roche participated in the Philadelphia tour and briefed on the BRAC

environmental accomplishments at the former Philadelphia Naval Base. Mr. Woodley toured Subbase New London and NAVSTA Newport, where he was briefed on environmental work and tribal interests at Nomans Land Island.

Feedback indicates that all tours, briefings and meetings went smoothly and were well received.

Going, Going, Gone

On November 21, 2001, the Girard Point Hazardous Waste Site became the last parcel of the former Naval Station Philadelphia, conveyed to the Philadelphia Authority for Industrial Development. All BRAC conveyances in Philadelphia have now been completed.

Old Dogs *(Continued from front page)*

The meeting was motivated by Admiral Johnson's increased emphasis on closing out "old dog" contracts. In keeping with the canine theme, we were asked to develop a "best of breed" contract closeout process.

EFANE has just recently closed out its first RAC contract. This is the first environmental cost contract to be closed out in the NAVFAC family. In addition, EFDLANT has closed out half of all task orders under our contracts. Speaking for EFANE were Dave Rule, Director, Environmental Contracts Division; Roger Boucher, Head, Environ-

mental Contracts Technical Branch; and Christi Davis (RAC COTR). Also representing EFANE were Joanne Mull, contracts specialist; Barbara Sanginiti, financial specialist; and Zully Moreno-Walsh, engineering technician. The variety of work titles speaks to the teamwork and coordination that is needed to manage and eventually close down complex environmental contracts.

Special acknowledgement goes to Zully and Christi for their efforts in planning and coordinating the conference. The new conference center drew rave reviews from all who attended. It is a top-notch facility that EFANE is pleased to offer for any NAVFAC-wide meeting.

"Drum E" Role Please!

Ed Boyle Selected as EFANE Restoration Employee of the Year

By Bob Lewandowski

Head, Restoration Management Branch, Delaware Valley Team

Ed Boyle was recently presented with the coveted "Drum E" award for FY01 at the Navy's annual Cleanup Conference in Pt. Hueneme, CA. This CNO-sponsored honor is given annually to the non-supervisory technical employee who made the most significant contribution to the Installation Restoration Program during the fiscal year.

As the remedial project manager (RPM) for the NPL activity NSA Mechanicsburg, PA, Ed has lead a highly successful partnering effort with EPA, Pennsylvania DEP and the Activity, leading to impressive achievements since its inception in FY97. Prior to this partnering effort, only 20% of the sites and no areas of concern (AOCs) were closed out. As of the end of FY01, those closeout numbers increased to 70% of the sites and 75% of the 49 AOCs.

Ed was also the RPM for the former NAWC Trenton, NJ BRAC III activity, whose last parcel was recently sold, culminating in the complete transfer of all Navy property at this facility. Ed has taken over RPM responsibilities for the former CBC Davisville, RI; an NPL and BRAC II activ-



Ed Boyle (right) proudly accepts the CNO-sponsored DRUM E award from N-45's Dave Olson.

ity, and continues to pursue a closeout of NUWC Fishers Island.

Ed has approached each of these challenges with the same combination of determination, integrity and hard work, and his results have been consistently impressive. He is truly deserving of this honor.

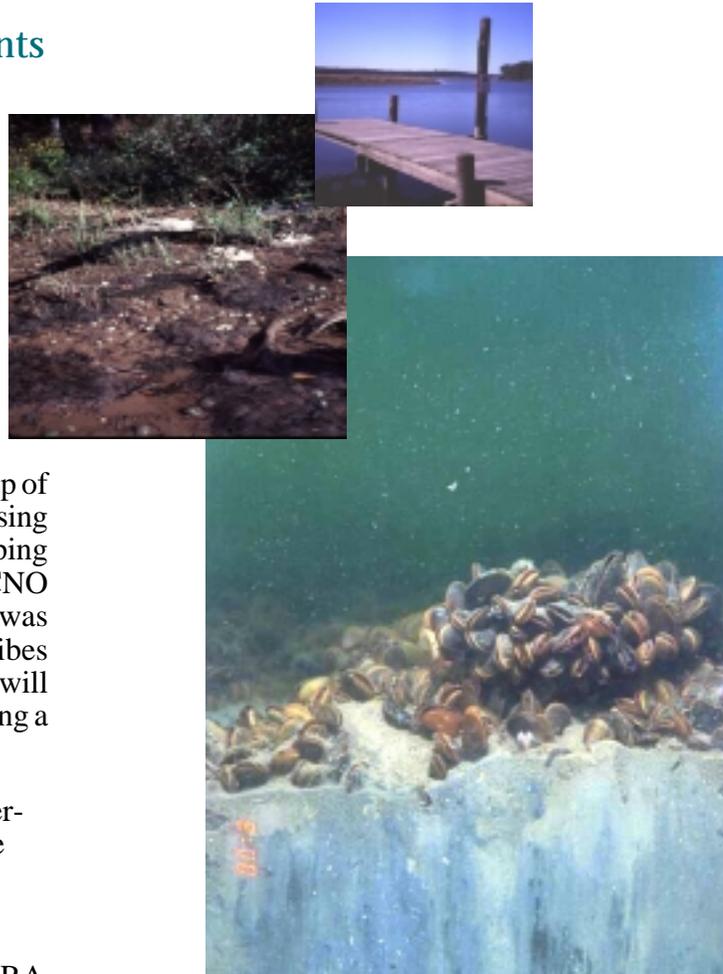
Let's Muck It Up With Sediments

(Continued from Risk Corner on page 4)

of their dynamic nature, it is often difficult to discern between Navy and non-Navy contributions and therefore sediments often require specialized methods for sampling analysis and remediation.

Discussions of these above-mentioned complexities at a NAVFAC RAW (risk assessment workgroup) meeting lead to a request to NAVFAC HQ and CNO for a Navy policy on sediment investigations. A subgroup of the RAW was formed to address issues of assessing and managing sediments in addition to developing sediment specific guidance supporting the CNO policy. CNO policy was developed and was signed on February 8, 2002. The policy describes six important principles that project managers will need to consider when initiating and completing a sediment investigation:

1. All sources shall be identified to determine if the Navy is solely responsible for contamination.
2. All investigations shall be primarily linked to specific Navy CERCLA/RCRA sites.
3. All sediment investigations and response actions shall be consistent with Navy policies on risk assessment and background chemical levels.
4. Sediment cleanup goals shall be developed based on site-specific information and shall be risk-based.
5. The Navy shall not clean up contamination from a non-Navy source where the Navy has not contributed to the risk in sediments. The Navy will not clean-up a site before the source is contained. Any potential re-contamination by non-Navy sources shall be documented.
6. A monitoring plan with exit strategies shall be developed before collecting the first monitoring sample.



(Top) Mattawoman Creek, Indian Head Naval Surface Warfare Center, Maryland; (center) unnamed tributary Site 42 Olsen Landfill, Indian Head Naval Surface Warfare Center, Maryland and (bottom) sediment profile showing mussels offshore of McAllister Point Landfill, Newport, RI.

Two guidance documents will support the CNO sediment policy: The "NAVFAC Implementation Guide for Assessing and Managing Contaminated Sediment at Navy Facilities" which is planned for debut in the summer of 2002 and the "Environmental Background Analysis, Volume 2: Sediment" which will be distributed widely in late summer of 2002.

[Editor's note: For further information on sediments or any other risk assessment-related issues, please contact either one of EFANE's hard-working biologists, Jason Speicher or Dave Barclift.]

EFA Northeast Supports War On Terroristic Nematodes

By Steve Kincaid

Head, Biological Sciences Branch

The pinewood nematode is a microscopic parasitic worm that is carried by beetles that feed on coniferous trees. They are known to occur in the United States, Canada, Mexico, Japan, China, Taiwan and Korea. The pinewood nematode was introduced into Asia around 1900, and has since caused extensive mortality in pine trees. Although the pinewood nematode is found in the US, it is not a pest here. However, the Commission of European Union (EU) Communities is concerned about its introduction in Europe and possible subsequent damage to forests there.

To help prevent its introduction into Europe, the EU imposed a quarantine on the importation of all non-manufactured wood packing material (NMWP) such as pallets and crates entering any EU country. The quarantine began on October 1, 2001 and requires that all NMWP from the US, Canada, China, and Japan be treated and marked as nematode-free.

Soon after 9-11 last year our Environmental Department's Biological Sciences Branch was contacted by the Fleet Hospital Support Office (FHSO), NWS Yorktown Cheatham Annex, Williamsburg VA. They were concerned about how to best comply with the new EU quarantine.

The Fleet Hospital program mission is to provide medical support to Navy and Marine Corps forces engaged in combat operations. We were informed that the shipment of a fleet combat hospital would be delayed unless the new EU quarantine regulations were met. The 500 bed, \$23 million hospital was scheduled to be shipped in 45 days and any delay could have adverse effects on overseas operations.

The major problem was that almost all the



hospital supplies were in shipping containers packed in/on 400 untreated NMWP crates or pallets.

At the time, guidance on how to comply with the quarantine was limited. The DoD was still in negotiations with the EU attempting (unsuccessfully it turned out) to get an exemption. So it fell on EFANE to examine the guidance and apply it to assist FHSO in formulating a plan of action.

The US Department of Agriculture recommends heat-treating NMWP to comply with the EU quarantine. While heat treatment is the most environmentally friendly method of complying with the quarantine, the pre-packaged containers would need to be unpacked and consequently repacked. This was not a practical option, as repackaging alone could cost at least \$1,000,000.

Most, if not all, of the containers would need to be fumigated (a practical and acceptable alternative).

(Continued on page 12)

Personals



Nittany Lionesses Welcomed Aboard

Two fresh new faces grace EFANE's Environmental Department. Welcome aboard to **Alison DeBree** and **Naomi Dash**, our recent additions through the Department of the Navy's Acquisition Intern Program.

Alison DeBree



Alison, who joins the Hazardous Waste Branch, is a 2001 Chemical Engineering graduate of Penn State University with a minor in Environmental Engineering. Among the many programs and projects she will be involved in, Alison is currently working on the Hazardous Substance Management System (HSMS) and the Solid Waste program.



Naomi, who is working in the Environmental Compliance's Air Quality Branch, is also a 2001 graduate of Penn State with a degree in Environmental Systems Engineering. Initially, she will be active in the Environmental Quality Assessment Program.

Naomi Dash



WHEN IT RAINS IT POURS

Navy Environmental People Pool at Navy and Marine Corps Water Program Managers Conference

By Elizabet Glancey

*Environmental Engineer,
Water Programs Branch*

The 2001 Navy and Marine Corps Water Program Managers Conference was held last December in San Diego. This annual event gives installation water managers the opportunity to discuss successful (or not so successful) water projects, innovative technologies and upcoming regulatory issues. Presentations covered a wide variety of water-related topics including stormwater, drinking water and

wastewater, not to mention oil/hazardous substances and spill prevention programs. Of particular interest were workshops regarding the definition and establishment of total maximum daily loads (TMDLs) as well as the upcoming Phase II stormwater regulation. In addition, exhibitors and poster session presenters (from CNO, NAVFAC, and NFESC) shared knowledge gained and/or lessons learned from recent Navy projects, including GIS applications, environmental management systems, and spill clean-ups.

A Slice of Personal Philosophy

The most precious thing we have is life. It is wise to enjoy it and live it to the fullest because it has absolutely no trade-in value.

The next time you feel like complaining remember: Your garbage disposal probably eats better than thirty percent of the people in this world.

What If...?

Water System Security in Insecure Times

By Mark Cairns

*Environmental Engineer,
Water Programs Branch*

"It has long been recognized that among public utilities, water supply facilities offer a particularly vulnerable point of attack to the foreign agent, due to the strategic position they occupy in keeping the wheels of industry turning and in preserving the health and morale of the American populace."

- J. Edgar Hoover, FBI Director, 1941.

We drink it. We bathe in it. We prepare food with it. We clean wounds, hospitals, dishes, and day care centers with it. With it we wash parts, vehicles, aircraft, and just about everything else. We wash away waste. We fight fire with it. We make steam to produce electricity and heat.

But what if our water supplies were threatened? What if they were taken away from us? It is our job — everybody's job — to ensure that this does not happen.

But isn't that the job of our Base Security/Force Protection?

Yes and no. Your security folks know security. You know water. You know your system, its strengths & weaknesses, what it takes to keep it running, what can make it fail. When you ask "What if..." you will probably think of things many others haven't. They need your expertise.

This need is already heralded in the world of regulators. In 1998, the Clinton administration

enacted Presidential Decision Directive 63 (PDD 63) "Policy on Critical Infrastructure Protection", which addresses the importance of protecting our water supplies to ensure the strength of our nation's military and our economy. *PDD 63 also designates the EPA as the lead agency for critical infrastructure protection as it applies to water supply.* While agencies such as FEMA, FBI, or DoD might take charge in response to an attack on a water supply, EPA's mission is focused on prevention and pre-planning.

Additionally, on 12 Dec, the House of Representatives passed a bill (H.R. 3448) with an Amendment to the SDWA addressing water system security. The amendment would require all community water systems serving a population greater than 3,300 to conduct an assessment of vulnerability to "terrorist attack or other intentional acts intended to substantially disrupt the ability of the system to provide a safe and reliable supply of drinking water". Each system would have to incorporate the results of

these vulnerability analyses into

Emergency

Response

Plans. Additionally,

the amendment would

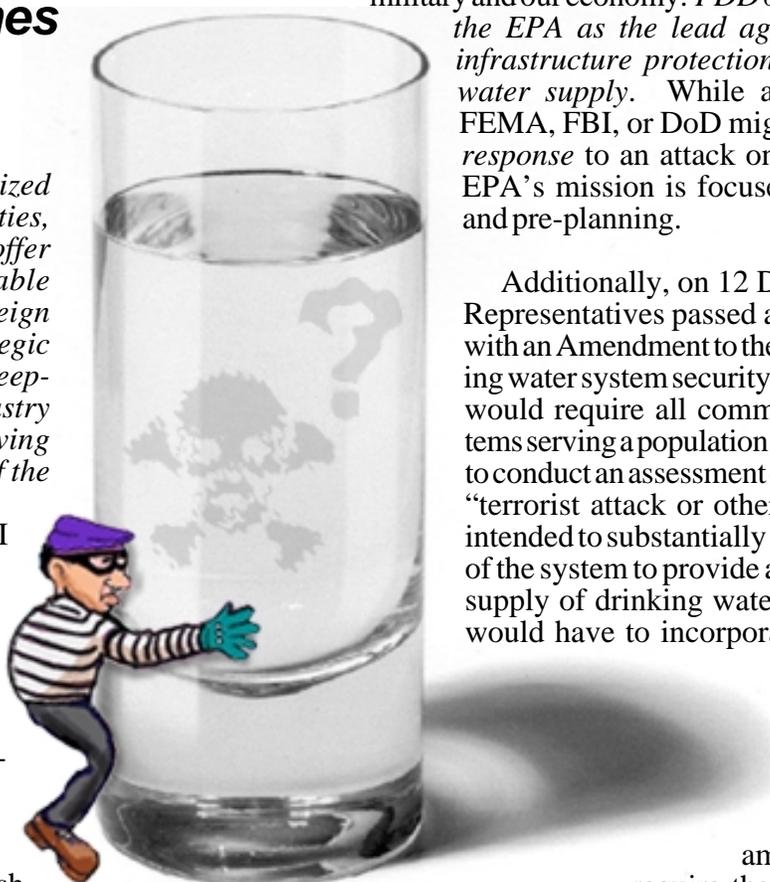
require the EPA & CDC to

work together to study methods to prevent, detect and respond to the intentional introduction of chemical, biological or radiological contaminants into water systems, as well as other physical means that a terrorist might use to disrupt the supply of safe drinking water.

The impetus is on all of us then, as water system managers, operators, consumers, and stakeholders to look for means to further protect our water supplies.

How?

Begin with the question "What if?" What if someone could get access to a valve box? A storage tank? What if someone disrupted the delivery of treatment chemicals? What if someone dumped a



(Continued on page 12)

What If...?

(Continued from previous page)

truckload of “something” into our reservoir? What if someone knew the location of our only supply main outside the fence line? etc.

And then: How do we prevent these things? How would we react if prevention failed? And how should we best prepare for such contingencies?

For more information, contact your claimant Water Manager or Force Protection specialists, or your base Physical Security folks. Also, more information and assistance is available from Mark Cairns at EFANE: 610-595-0567 ext.123 (DSN 443); CairnsMF@efane.navy.mil. Information and services can also be provided by NFESC's Anti-Terrorism & Force Protection Services: <http://atfp.nfesc.navy.mil/index.html>.

Additional online sources of information include:

EPA Counterterrorism:

www.epa.gov/ebtpages/ecounterterrorism.html

EPA Alert on Chemical Accident Prevention and Site Security:

www.epa.gov/ceppo/pubs/secale.pdf

U.S. Centers for Disease Control & Prevention:

www.bt.cdc.gov

Association of Metropolitan Water Agencies:

www.amwa.net/isac/amwacip.html

American Water Works Association:

www.awwa.org

National League of Cities:

www.nlc.org/nlc.org/site/newsroom/terrorism_response

Terroristic Nematodes

(Continued from page 9)

The selection of the proper fumigant was very critical. The wrong fumigant could have damaged sensitive electronic equipment or even put hospital staff and patients at risk of pesticide poisoning. All options for pesticide fumigants were considered. Many days were spent researching chemicals and speaking with technical support representatives from both the DoD and industry. Throughout the process, the client was kept involved and informed to insure that requirements and schedules were met. This work resulted in recommendations for the FHSO which were used to formulate a plan for addressing the EU requirements.

The FHSO decided to use a combination of heat treatment and fumigation to certify their pallets and crates as pinewood nematode-free. All new pallets and crates were automatically heat treated and any pallets or crates that could be unpacked were unpacked and heat treated. All other pallets and crates were fumigated with methyl bromide. The hospital was shipped on-time and in compliance with the current quarantine regulations.

[EDITOR'S NOTE: Bravo Zulu to Applied Biology Program Manager Steve Kincaid who knows how to delight his clients and to entomologist Christine Eisner who did much of the technical “grunt work” developing a safe, effective, commodity-friendly treatment protocol.]

Environmental Factoids

The Earth has been around for 4.6 billion years. Scaling this time down to 46 years we have been around for 4 hours and our Industrial Revolution began just 1 minute ago. During this short time period we have ransacked the planet for ways to get fuels and raw materials, have been the cause of extinction of an unthinkable number of plants and animals, and have multiplied our population to that of a plague.

Despite all of the damage we have caused the environment, most of it is reversible. We can restore habitats and return species to them; clean rivers; renovate buildings; replenish the topsoil and replant forests. However, we still have to fix the source of the problems, us and our vision that we must progress.

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