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FOR YOUR INFORMATION.....

The Information Repositories are at the following locations:

The Memphis Depot Business Park,
2163 Airways Blvd., Memphis, TN (901) 774-3683
The Community Outreach Room is located in Building 144.
Please call ahead for an appointment to ensure that we are
available to help you.

Memphis/Shelby County Public Library,
Cherokee Branch, 3300 Sharpe Ave.,
Memphis, TN (901) 743-3655
The Cherokee Branch is open Monday to Thursday
from 10 a.m. to 6 p.m. and Saturday from 10 a.m. to
6 p.m. Closed on Friday & Sunday.

HOW TO REACH US....

If you have any questions or comments about the Depot's environmental cleanup program,
please feel free to contact any one of the following:

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EnviroNews is published by the Memphis Depot to
update the public on the environmental cleanup
program. If you have comments, questions, or
suggestions for future articles, please call
Ms. Alma Black Moore at (901) 774-3683

Visit the Depot's website at www.ddc.dla.mil/environmental/memphis

EnviroNews

Winter 2006/07



Cleanup continues on Main Installation

In September, the environmental team finished installing groundwater wells at the Main Installation as part of the groundwater cleanup process. Once installed, the team began injecting an organic nutrient, called *sodium lactate*, into the wells to treat the affected groundwater in the shallow aquifer (approximately 90 feet below the surface). This process is referred to as Enhanced Bioremediation Treatment (EBT).

Thirty-seven injection wells were installed in the southwest corner of the Main Installation (Treatment Area 1) to introduce sodium lactate into the groundwater. Twelve injection wells were installed in the southeast corner (Treatment Area 2), just west of the Memphis Police Department's Southeast Precinct.

A second cleanup remedy is also being used to treat groundwater beneath the Main Installation. It's called Monitored Natural Attenuation (MNA). Natural attenuation is a process that already exists in nature. Some compounds found in the groundwater will break down naturally over time.

The environmental team will monitor the progress of natural attenuation to ensure the environmental conditions are improving over time. It will take approximately eight years to reach the cleanup goals in the MNA areas. Land-use restrictions are also in place to prevent exposure to the affected groundwater and ensure the Main Installation remains protective of human health and the environment. These controls are used to restrict certain activities on the site, such as the drilling



The Depot's environmental contractors operate the sodium lactate injection system that is being used to treat groundwater beneath the Main Installation.

of drinking-water wells. They will remain in place until the groundwater cleanup goals are achieved.

The Main Installation Record of Decision, Remedial Design and Remedial Action Work Plan are available for public review online in the Administrative Record and in the Depot's Information

The sodium lactate injections are expected to continue for two years. They will occur every two weeks during the first year, and once a month during the second year. The cleanup goals in these areas are expected to be reached by Fall 2008.

Repositories (see back page of this newsletter for locations).

For more information about this groundwater cleanup project, please contact the Depot's Community Relations Office at (901) 774-3683. □

Community Relations Report: Depot community speaks out

As the Depot's environmental team enters the final stages of the cleanup program, it is also necessary to evaluate our community relations progress and continue to work toward meeting our communication goals.

On October 20, 2006, the Depot's Community Relations staff conducted focus groups with 35 randomly selected members of the Memphis Depot community.

The purpose of the focus groups was to talk about the Depot's ongoing communication efforts and to better understand community concerns related to the cleanup. In addition to these interviews, a telephone survey of 325 residents in South Memphis was also conducted in November.

Watch for the results of this community-based research in our next issue of EnviroNews. □



Season's
Greetings!

The Memphis Depot environmental team would like to wish all of our EnviroNews readers, community members, neighbors, Restoration Advisory Board (RAB) members, staff, and contractors a very happy and safe holiday season!

The next Restoration Advisory Board Meeting (RAB) will take place on April 19, 2007. Please watch the Tri-State Defender and Silver Star News for more information or call the Community Relations line at 901-774-3683.

Check out our new, user-friendly website www.ddc.dla.mil/environmental/memphis

On track for a clean future!

The Depot's environmental team has reached another important goal on Dunn Field!

In August, the U.S. Environmental Protection Agency (EPA) approved the final cleanup report for the work completed at the Dunn Field Disposal Sites. That means we have now completed one of the three cleanup remedies for Dunn Field, as outlined in the Record of Decision (ROD)!

A Finding of Suitability to Transfer (FOST) for this portion of Dunn Field is expected to be conducted in 2010, once the cleanup is completed on the remainder of Dunn Field. The land will then be environmentally suitable for transfer and future reuse.

The planned future land use for this area is light industrial. Permanent deed restrictions will be put in place to prevent future residential development on Dunn Field.

Environmental contractors completed field work at the five former disposal sites on the western portion of Dunn Field in early March 2006. The Final Remedial Action Completion Report (RACR) provides more details about the cleanup activities.

The report is available for public reference in the Information Repositories (see back page of EnviroNews for hours and locations).

Dunn Field property for sale online

In July 2006, the U.S. Department of the Army listed a portion of Dunn Field for public sale.

The Army did not receive any suitable bids, so they have hired the U.S. General Services Administration (GSA) to oversee the marketing and public sale of the land, using the Internet.

The property listed for public sale includes the Eastern Parcel of Dunn Field only.

This parcel consists of approximately 39 acres and is environmentally suitable for transfer. It is bordered by Dunn Avenue on the south, Hays Road on the east, and continues toward Persons Avenue on the north. The western boundary of the land generally runs along the former railroad spurs located on the property.

The Western Parcel of Dunn Field, consisting of approximately 26 acres, is not available for sale at this time due to ongoing environmental cleanup. This parcel will be available for sale or transfer at a later date when the cleanup has been completed.

The GSA Property Disposal Division manages a website to conduct auctions for some government surplus properties, including the Dunn Field property. Please visit www.Auctionrtp.com for more information concerning the sale of the Dunn Field property. The online auction for the Dunn Field property opened on October 30, 2006.

The Memphis Depot completed a Finding of Suitability to Transfer (FOST #4) in March 2005

for the Eastern Parcel of Dunn Field, and conducted a Public Comment Period in order for the community to review the FOST and provide comments. FOST #4 outlines the history, site conditions and rationale for transferring the property. It was reviewed and approved by the Department of the Army, U.S. Environmental Protection Agency, and Tennessee Department of Environment and Conservation.

The Dunn Field Record of Decision (ROD) identified the eastern half of Dunn Field as being 'available for unrestricted reuse' - meaning it can be safely used for any purpose.

The Dunn Field ROD and FOST #4 are available for public review in the Memphis Depot's Information Repositories and in the Administrative Record (AR). To access the AR online, go to www.adminrec.com/DLA.asp, click on the link for Memphis and search for documents under "Quick Search." □

For more information, please contact:

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Cleanup moves forward at Dunn Field

In 2007, the environmental team will complete the Remedial Designs for the cleanup of soil and groundwater at Dunn Field.

The team is working in consultation with the U.S. Environmental Protection Agency (EPA) and Tennessee Department of Environment and Conservation (TDEC) to ensure the safest and most effective methods of environmental cleanup at the Depot site.

Source Areas Remedial Design

The cleanup technologies to be implemented on the Dunn Field Source Areas are:

- Soil Vapor Extraction (SVE)
- SVE in the top layer of the soil, to be enhanced with thermal heating to allow for a more timely cleanup
- Zero-Valent Iron (ZVI) injections in groundwater

SVE is one of the most frequently used treatment methods to remove solvents that evaporate when exposed to air.

This proven technology uses an underground vacuum system to pull air through the soil, turning the solvents to vapor. The air containing the vapors is fully contained within the system until it passes through a series of filters that remove the solvents. The application of thermal heat will enhance the SVE by significantly speeding up the process.

The ZVI cleanup method involves injecting natural iron particles into the groundwater. When the iron particles come into contact with certain chemicals present in the groundwater, there is a reaction that breaks down the chemicals into safe, natural compounds.

Next Steps:

- Final RD expected to be completed in Spring 2007
- Public briefing to be scheduled in Summer 2007
- Remedial Action Work Plan to be completed in Fall 2007
- Cleanup activities expected to begin in Fall 2007

Off-Depot Groundwater Remedial Design

As part of the Remedial Design for affected groundwater at Dunn Field, the environmental team completed the construction of a Permeable Reactive Barrier (PRB) test wall in June 2006.

The test wall was installed approximately 75 feet below ground surface, along a vacant lot located west of Rozelle Street and south of the Canadian National railroad tracks.

The environmental scientists analyzed groundwater-sampling data to determine the effectiveness of the PRB. This data, along with new sampling results collected from monitoring wells in the Off-Depot area, indicates that the PRB may not be the most effective method of groundwater cleanup.

Therefore, the environmental team is now working with the EPA and TDEC to examine an alternative cleanup remedy that may replace the PRB remedy to treat affected groundwater. The team provided a preliminary update to the Restoration Advisory Board (RAB) at its October 19 meeting.

The alternative cleanup method was presented to the Base Realignment and Closure (BRAC) Cleanup Team (BCT) in November. They discussed the benefits of the proposed remedy and the potential need to change the Dunn Field Record of Decision (ROD) (signed in April 2004).

A potential amendment to the ROD would require a public review and comment period. We will provide an update in early 2007 as new information becomes available about this alternative cleanup remedy and next steps.

Once the preferred cleanup remedy has been determined, the environmental team will complete the Off-Depot Groundwater Remedial Design, in consultation with the regulators.

- The Final RD is expected to be completed in Fall 2007
- Public briefing to be scheduled in early 2008
- Remedial Action Work Plan to be completed in early 2008
- Cleanup activities expected to begin in early 2008 □

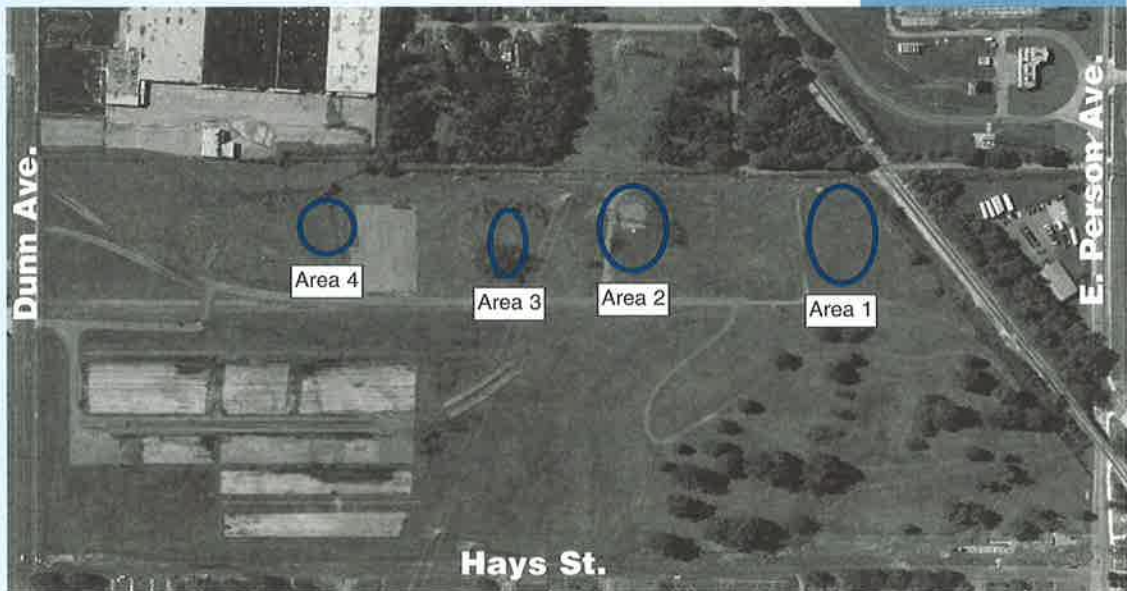
Remedial Design (RD)

The RD is part of the overall cleanup process as outlined in the Comprehensive, Environmental Response, Compensation and Liability Act (CERCLA). It involves a complete analysis of the selected remedy and provides a detailed set of plans for implementing the cleanup.

Source Area

The area where a hazardous substance may have been stored or disposed. There are four source areas on Dunn Field that will be cleaned up.

This aerial map of Dunn Field identifies the four source areas that will be cleaned up.



Looking ahead...

Milestones for 2007 and beyond

The cleanup program at the former Memphis Depot made important strides toward our goals in 2006.

So far this year, field work was completed at the Dunn Field Disposal Sites, and groundwater cleanup began at the Main Installation. The Off-Depot Groundwater and Source Areas Remedial Designs are currently being reviewed by the U.S. Environmental Protection Agency (EPA) and Tennessee Department of Environment and Conservation (TDEC), with plans to start the cleanup in 2007.

There's more work ahead in the New Year. The environmental team has set the following schedule to achieve more of these important program milestones:

Winter 2006

- Continue injections to treat affected groundwater in the shallow aquifer beneath the Main Installation
- Continue Dunn Field Source Areas Remedial Design (RD)
- Continue Dunn Field Off-Depot Groundwater RD

2007

- Complete Dunn Field Source Areas RD
- Conduct Dunn Field Source Areas RD Public Briefing
- Begin Dunn Field Source Areas Remedial Action (RA) -- Zero-Valent Iron (ZVI) and Soil Vapor Extraction (SVE)
- Complete Dunn Field Off-Depot Groundwater RD

2008

- Conduct Dunn Field Off-Depot Groundwater RD Public Briefing
- Begin Dunn Field Off-Depot Groundwater RA
- Complete Five-Year Review for Main Installation and Dunn Field
- Receive Operating Properly and Successfully (OPS) determination from the Environmental Protection Agency (EPA) for the Main Installation RA
- Conduct a Public Comment Period for the Finding of Suitability to Transfer (FOST) #5 (remainder of Main Installation)

2009

- Continue long-term monitoring for Main Installation and Off-Depot Groundwater
- Operate and maintain Dunn Field Source Areas SVE

2010

- Receive OPS determination for the Dunn Field Source Areas and Off-Depot Groundwater RAs
- Conduct a Public Comment Period for FOST #6 (remainder of Dunn Field)

This technical schedule is based on current projections and may be subject to change as new information is made available through the field work.

As we continue to achieve our goals for the cleanup program, the Depot's environmental team is committed to keeping the community informed. Study documents and resources are available at our two Information Repositories. The public is also invited to attend meetings of the Restoration Advisory Board (RAB), which are advertised in the local media.

Progress updates will also be shared through community information sessions, media releases, fact sheets and future issues of EnviroNews.

For more information, please contact the Community Relations Office at (901) 774-3683. □

What's new at your local Information Repository?

Need to check a document or find more information on the environmental cleanup program at the Memphis Depot? You'll find technical documents, meeting minutes, historical files and other data at our two public Information Repositories, located in the Depot community. Please see the back cover of this newsletter for locations and contact information.

New Documents

The following documents have been added to the Information Repositories:

- Dunn Field Disposal Sites Remedial Action Completion Report, Rev. 1, July 2006
- BRAC Cleanup Plan Version 9, Rev. 1, July 2006
- Administrative Record Update, May 2006
- Annual Operations Report - 2005, Dunn Field Groundwater Interim Remedial Action, Rev. 0, February 2006. □