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SWMU 60, the JP-8 product line near Taxiways 2 and 3, exhibits benzene and other fuel-related constituents. At this site, the Base has installed 25 AS wells and 25 SVE wells to remove the constituents from the subsurface. Constituents removed will be destroyed by treatment in a thermal oxidation system.



Pad and utilities ready for equipment installation at SWMU 60

Glossary

- AFB- Air Force Base
- AS- Air Sparge
- BTEX- Benzene, Toluene, Ethylbenzene, and Xylenes
- EM- Environmental Management Directorate
- EPA- Environmental Protection Agency
- ERP- Environmental Restoration Program
- GA EPD- Georgia Environmental Protection Division
- GBIA- Greater Base Industrial Area
- GW&PCA- Georgia Water & Pollution Control Association
- GWTP- Groundwater Treatment Plant
- POL- Petroleum, Oil, and Lubricants
- RAB- Restoration Advisory Board
- SVE- Soil Vapor Extraction
- SWMU- Solid Waste Management Unit
- TCE- Trichloroethylene
- WR-ALC- Warner Robins Air Logistics Center

The schedule for both SWMUs 59 and 60 anticipates operation of the completed systems beginning in June. The projects were initiated in October of 2002, with process piping installation during January 2003 and anticipated arrival of the thermal oxidation equipment in April.

For more information regarding the RAB, contact
Ms. Charline Logue,
Robins AFB RAB Manager
 (478) 926-1197, ext. 128.



A well array and pipe run at SWMU 59



Process piping within a vault at SWMU 59

Restoration Advisory Board Members

Mr. Steven Coyle, Robins AFB Installation Co-Chair	Dr. Dan Callahan, Warner Robins Community Member	Mr. Mike Maffeo, Macon Community Member
Mr. James Harden, Warner Robins Community Co-Chair	Ms. Marianne Golmitz, Warner Robins Community Member	Dr. M.B. Neace, Macon Community Member
Ms. Dawn Taylor U.S. EPA Region 4 Federal Facility, Hazardous Waste Div.	Mr. John Harley, Centerville Community Member	Dr. Brian E. Rood, Macon Community Member
Ms. Mary Brown GA EPD Hazardous Waste Management	Dr. Joyce Jenkins, Fort Valley Community Member	Ms. Kathy Stege, Macon Community Member
Mr. Kevin Long, Robins AFB Chief, Environmental Management Operations Division	Mr. Steve Johnson, Macon Community Member	Dr. Joseph Swartwout, Fort Valley Community Member
	Mr. Broderick Lowe, Warner Robins Community Member	Mr. Don Thompson, Macon Community Member



Robins Air Force Base Restoration Advisory Board (RAB) *Fact Sheet*



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The Robins AFB RAB

Recognizing the importance of public involvement in environmental restoration, Robins Air Force Base established the Restoration Advisory Board in 1994. The mission of the RAB is to encourage community participation in the Air Force Environmental Restoration Program cleanup process and allow community members and other stakeholders to have meaningful dialog with Base officials. The RAB includes members from the community, regulatory agencies, and the Base, and holds four public forums per year. The RAB serves to advise Robins AFB management and disseminate information to the public.

March RAB Meeting

The spring meeting of the RAB was held March 13, 2003, at Robins AFB, Georgia. The theme of this meeting was "Spring 2003 Remedial System Construction." The tour portion of the meeting included a windshield tour of several SWMUs with stops and detailed briefings at several others. Upon completion of the tour, the RAB members reassembled at the Groundwater Treatment Plant (GWTP), Building 378, for the meeting portion of the program, which included a summary presentation on GWTP operations. **The next RAB meeting will be held on 12 June 2003.**

This RAB *Fact Sheet* provides a summary of the information and topics discussed in the meeting.

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Remedial Systems Construction at SWMUs 59 and 60 Underway

Mr. Matt Haupt, CAPE/URS, briefed the RAB during the tour of remedial systems construction. During a stop at the SWMU 59 and 60 site, he provided details of the systems being installed and the projected schedule for beginning operation.



RAB member Kathy Stege asks a question as other RAB members look on during the briefing on remedial systems construction underway at SWMUs 59 and 60.

SWMU 59, the JP-8 product line along the main taxiways, exhibits benzene and other fuel-related constituents in the subsurface.

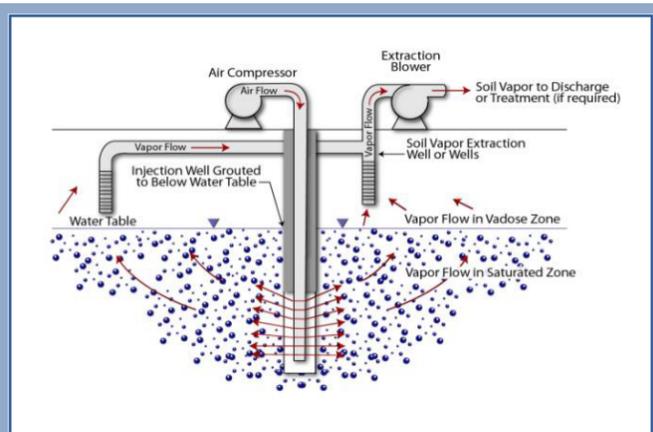
The Base has installed 25 air sparge (AS) wells along with 20 soil vapor extraction (SVE) wells in the area to remove fuel contaminants. The constituents removed from the subsurface will be destroyed by treatment in a thermal oxidation system to be installed at a concrete pad on the site.

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A Primer on Remediation and Systems Seen During the 2003 Tour

Air sparge (AS) - a remediation process for removing volatile constituents from groundwater by blowing air into the groundwater, thereby volatilizing the constituents

BTEX - As described during the briefing, fuel contamination usually results in a groundwater plume containing the chemicals benzene, toluene, ethylbenzene, and xylenes, known as BTEX.



Schematic of an air sparge system with associated soil vapor extraction. The air compressor feeds air to the air sparge well and the volatilized constituents are removed by application of vacuum to the vapor extraction wells installed above the water table.

Carbon adsorption - a process for removing constituents from a vapor or liquid stream by adsorption of the constituents onto activated carbon, which is replaced or regenerated periodically

Catalytic oxidation and thermal oxidation - processes for destroying volatile organic compounds removed from the subsurface

Soil vapor extraction - a remediation process for removing volatilized constituents from the subsurface involving application of a vacuum

RAB Welcomes New Members

During the past several months, three new faces have joined the RAB. At the January 2003 meeting, Dawn Taylor was introduced as the newly appointed US EPA Remedial Project Manager. At the March 2003 meeting, Mr. Coyle announced that Ms. Mary Brown is the new Georgia EPD Hazardous Waste Management Branch RCRA Corrective Action Program Manager assigned to Robins. Also, he announced that Mr. John Harley has joined the RAB as a Community Member representing Centerville. We welcome these individuals to the RAB and look forward to their participation and contributions.



At center of photo, new RAB members Dawn Taylor, John Harley (in background) and Mary Brown observe the SWMU 59 and 60 system components and listen during the site briefing.



Following the tour of remediation system construction sites, the RAB convened at the GWTP for a meeting. Here new RAB members (l to r) John Harley, Mary Brown, and Dawn Taylor listen during the meeting.

Remedial Systems Construction at Numerous Sites Described and Observed During March 2003 Tour

Briefings were provided during the March tour on a number of remedial system construction programs. In addition to activities associated with SWMUs 59 and 60, described elsewhere in this Fact Sheet, SWMUs 40, 20, 10B, and 61 activities were summarized.

At SWMU 40, chlorobenzene is the contaminant of concern. The Base has installed five vertical SVE wells and two horizontal wells; the extracted chlorobenzene will be destroyed by thermal oxidation. Process piping installation is in progress; the oxidation equipment is scheduled to arrive in April, with system operation anticipated to begin in June.

At SWMU 20, within the Greater Base Industrial Area (GBIA), trichloroethylene (TCE) is the contaminant of concern. The Base has installed 13 AS wells and 11 SVE wells, and the extracted TCE will be captured by carbon adsorption. Process piping installation is in progress, and the adsorption equipment is scheduled to arrive in April, with system operations anticipated to begin in June.



Welding of HDPE piping at SWMU 61

At SWMU 10B (POL), known as JP-4 Spill Site B, benzene and other fuel-related constituents are the contaminants of concern. The Base has installed 19 AS wells and 25 SVE wells, and the recovered constituents will be destroyed by thermal oxidation. Process piping installation is scheduled for April, with thermal oxida-

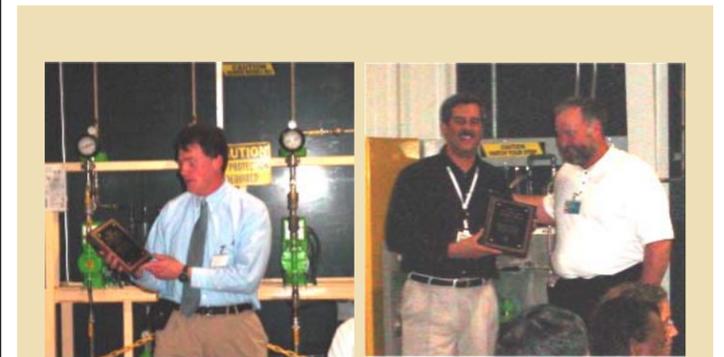
Our web address:
www.em.robins.af.mil

tion equipment arrival in April and system operations beginning in June.

At SWMU 61, the JP-8 product line near the south end of the main runway, benzene and other fuel-related constituents are the contaminants of concern. At this site, the Base has installed 11 AS wells and 11 SVE wells, and the recovered constituents will be destroyed by thermal oxidation. Process piping installation is in progress, with thermal oxidation equipment arrival in April and system operations commencing in June.

At SWMU 10B (Biosparge), the contaminant of concern is benzene and other fuel-related constituents. The treatment technology selected is AS; the Base has installed four AS wells. Process piping installation is scheduled for March with air sparge equipment arrival in April and system operations beginning in June.

EM Wins GW&PCA Best in State Award for Third Time



The Georgia Water and Pollution Control Association (GW&PCA) presented its "Best in State" award to Robins AFB for the GWTP at its annual meeting in Atlanta in March. At left, Kevin Long describes the plaque and the fact that Robins has won for three of the past four years. The one year of the past four that did not see a Robins win was one in which the association ruled the Base ineligible to apply because of the number of prior wins. At right, Nelson Rosa of Earth Tech and Phil Manning display the plaque.