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NAVAL SUBMARINE BASE**ENVIROUPDATE****KINGS BAY, GEORGIA****Installation Restoration Program Newsletter****June 1994**

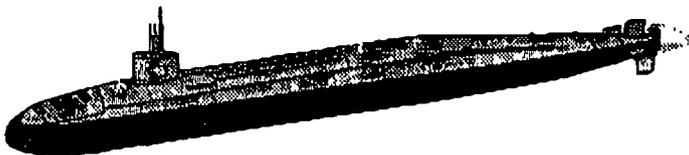
Volume 1, Number 2

This newsletter will be provided to the community on a quarterly basis or when significant developments occur in the environmental program. This edition of EnviroUpdate addresses the status of the Supplemental RCRA Facility Investigation (RFI) and associated field work, the pilot scale test for the groundwater cleanup technologies, and community concerns or questions. For more information, contact Robert Steller, Public Affairs Office, (912) 673-4714.

We'll miss you Captain Scullion!

Captain Len Scullion, Public Works Officer, has been instrumental in the environmental investigations at Kings Bay since 1991. His leadership has resulted in the Navy's proactive cleanup activities at the Old County Landfill. Captain Scullion has assumed command of the Public Works Center in Jacksonville and we wish him much success in his new position. Captain James Allen, Kings Bay's new Public Works Officer, will start working with you on the environmental restoration issues at Subase on July 13, 1994. Welcome to Kings Bay Installation Restoration Program, Captain Allen!

Also, a change in command has occurred at Subase. Our new Commanding Officer, Captain Williams assumed command on June __, 1994. He has replaced Captain O'Neil, and is looking forward to working with you on the environmental programs at Kings Bay. Welcome aboard, Captain Williams!

**UPCOMING EVENTS**

Supplemental RCRA Facility Investigation (RFI) field investigations of the landfill are scheduled to begin in early August and will continue into the fall of 1994. The field investigations will include sampling of

Porcupine Lake, digging test trenches, sampling surface soil, and monitoring air in the landfill in an effort to collect more data and, if possible, locate the source(s) of contamination. The upcoming investigations and what activities the community might expect to see are further described on the next page. The next issue of *EnviroUpdate* (September 1994) will provide you with an update on these investigations.

According to joint EPA and DOD guidance, Kings Bay will be in the process of establishing a Restoration Advisory Board (RAB) in order to promote increased community involvement and awareness of the environmental restoration programs. The existing Technical Review Committee (TRC) will be expanded to include more community representatives. This transition is expected to begin in July and be completed by October 1994 (see page 3 for more information).

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STATUS OF INVESTIGATIONS

Hot Times in the Landfill in August

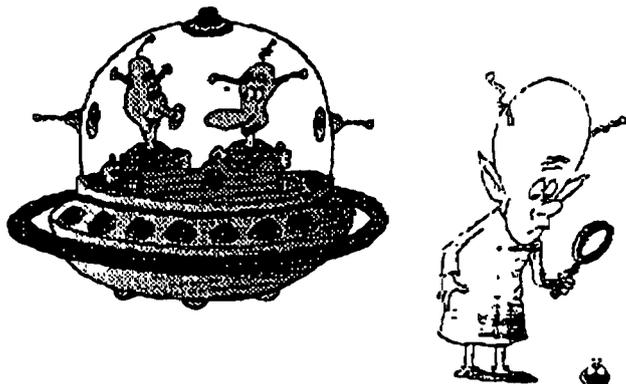
The Final Interim RFI Report, completed in December 1993, identified gaps in the environmental data required to complete the Health and Environmental Assessment and the Corrective Measures Study for the Old County Landfill site.

Therefore, the Navy and their environmental consultants designed the Supplemental RFI field program to collect the required data. The Supplemental RFI Work Plan was approved in April and includes the following activities:

- collect surface water and sediment samples from Porcupine Lake;
- excavate test trenches in the landfill;
- collect surface soil samples in the landfill;
- conduct air monitoring in the landfill and subdivision; and
- conduct two groundwater sampling events.

Field activities will start in early August in the landfill and surroundings area. Field work will be performed under the Occupational Safety and Health Administration (OSHA) standards. To protect workers who are potentially exposed to the chemicals of concern, workers in the landfill will wear a supplied air respirator, impermeable fullbody work clothing, protective gloves, boots, and a hard hat.

Due to the protective clothing requirements and the extreme heat in August, field work in the landfill may be conducted during the late afternoon and evening hours, and into the night. If this occurs, the field crew may have to set up adequate lighting to perform these activities. *Please, do not be alarmed, it may seem like an extra-terrestrial visit with the lighting and workers in moonsuits, but it is just our environmental team of investigators.*



The Supplemental RFI Work Plan which describes the activities, the sampling techniques, and health and safety procedures, may be reviewed by contacting the Public Affairs Office or by visiting the St. Mary's library. While the investigation is ongoing, if you have any questions or concerns, please contact Bob Steller, 673-4714, so that we may address the issue at the earliest possible time.

After completion of this field work, the data will be evaluated and the final RFI report will be prepared. This report is scheduled to be completed in the summer of 1995. As results and information become available, it will be shared with you through later editions of this newsletter or other appropriate method.

Groundwater Cleanup - Phase I Interim Measure

The pilot scale test for the groundwater cleanup technologies was initiated in March and completed on May 12, 1994. Air stripping and biological treatment were the two technologies tested for stopping further movement of the affected groundwater and for reducing the levels of chemicals found in the groundwater. For more information on these technologies and the interim measure, refer to the fact sheet entitled, *Containing and Cleaning Up Contaminated Groundwater from the Old County Landfill*, available from the Public Affairs Office.

During the pilot scale test, groundwater was pumped from the recovery wells to the treatment pad on the southwest edge of the landfill. First, groundwater was extracted from one recovery well for 7 days, then from two wells for 7 days, and finally from all five wells for a 30 day period. After treatment, groundwater samples were sent to an on-site laboratory for chemical analysis to evaluate the two treatment technologies, air stripping and biological treatment, for their effectiveness.

Currently, the results of the pilot scale test are undergoing evaluation and interpretation. The air stripping method appears to be a very effective technology to treat the groundwater. Under certain conditions, the biological treatment system is also effective; however, the test data requires further evaluation. An interim measure report is being prepared and is scheduled to be completed in September 1994.

Performance of the existing system will continue

over the next year. During this time, the Navy's environmental consultants will continue to oversee the operation on a daily basis. Residents can expect to frequently see the Navy's engineers and scientists in the subdivision taking water level measurements. Water quality samples will regularly be taken from the treatment system and analyzed.

RESTORATION ADVISORY BOARD (RAB)

The U.S. Environmental Protection Agency (EPA) and the Department of Defense (DOD) recognize the importance of community involvement at military installations that require environmental cleanup. Therefore, EPA and DOD have developed joint RAB guidance to improve community participation and awareness of the installation restoration process at these facilities. In carrying out this process, the existing TRC will be modified to become a RAB.

The TRC currently focuses exclusively on the technical review of cleanup program documents and plans and has two community representatives. The RAB will provide expanded opportunities for community participation in the environmental cleanup process while continuing to meet the requirements of

the TRC. By increasing the diversity and number of community representatives, the RAB will ensure that all interested parties have an increased opportunity to actively participate in the review of cleanup documents and plans and to provide input to be considered in the decision-making process.

All RAB meetings will be open to the public. This will further allow the RAB to act as a focal point for the discussion and exchange of information between Kings Bay, state agencies, and the local community regarding cleanup activities.

RAB members will include existing TRC members, community volunteer members who reflect the diverse interests of the local community, and representatives from the Navy, state environmental agencies, and EPA. RAB members will be asked to meet regularly to review and comment on technical documents and plans relating to the ongoing environmental studies and cleanup activities at Kings Bay. RAB members will serve as a liaison and be willing to meet with community members and groups to convey concerns about the environmental status of Kings Bay.

WHAT IS A RAB





Community Q&A

The Question and Answer column is a regular feature in this Newsletter. We request the community to direct any questions regarding the environmental investigations and the Installation Restoration Program to Robert Steller at the Public Affairs Office, (912) 673-4714. Responses to these questions will be shared with the community in a future mailing of this Newsletter.

When can the actual cleanup of the landfill be expected?

Comprehensive cleanup actions for the landfill will be evaluated and recommended in the summer 1995. However, the Navy has expedited steps to control the further movement of affected groundwater under the subdivision by implementing the interim measure (see page 2). We are also testing two promising groundwater cleanup technologies which may be part of the overall cleanup action. Through the interim measure, the Navy is starting to cleanup the groundwater now; large scale cleanup will begin in 1996 and may take several years or decades to restore groundwater.

Can groundwater from Private Irrigation Wells (PIWs) be used for general everyday use?

The Navy continues to recommend that residents avoid contact with the groundwater from these wells. The groundwater has been typically used for irrigation purposes, washing cars and yard items, and filling swimming/wading pools. Until additional data are collected and the Health and Environmental Assessment is completed, residents are asked to minimize contact with groundwater and not to provide groundwater for pets to drink.

Is there a reason to be concerned with the quality of water in Porcupine Lake?

The Navy conducted sampling of surface water and sediments from Porcupine Lake in late 1992. The types of chemicals found in the groundwater under and west of the landfill were not found in the samples from Porcupine Lake. Based on that data, the chemicals associated with the landfill have not affected Porcupine Lake. The Navy will conduct additional sampling of Porcupine Lake during the summer investigations.

Is the Navy investigating any other sites?

Because a release was identified from Site 11, the Old County Landfill, and affected groundwater had moved westward under the Crooked River Subdivision, the Navy has focused efforts and resources on investigating this site. However, under the Installation Restoration Program, additional sites are being investigated. Two sites, the Army Reserve Disposal Area, Towhee Trail (Site 5) and the Army Reserve Disposal Area (Site 16), will be further investigated. Planning documents for the investigations are being developed for these two sites and will be submitted to the State of Georgia in the fall of 1994.

The Army Reserve Disposal Area, Current Dry Dock (Site 12) has been investigated and it was determined that no further action is required at this site. The State of Georgia approved this action and a permit modification for "No Further Action" at Site 12 will be filed with the state.

Additionally, the Old Fire Fighting Training Area, (Site 2) will be investigated. Planning documents will be submitted to Georgia Department of Natural Resources in the Fall 1994.

What is the current schedule of anticipated activities?

The current schedule of anticipated activities in the RCRA Corrective Action process at the landfill is illustrated in the timeline on the back page of this newsletter. The top timeline shows the activities for the overall cleanup process and the middle one shows the activities for the interim measure process. The bottom timeline illustrates that the interim measure was started in the Spring 1994 and will continue until cleanup is completed.

Installation Restoration (IR) Program

WHAT IS THE INSTALLATION RESTORATION (IR) PROGRAM

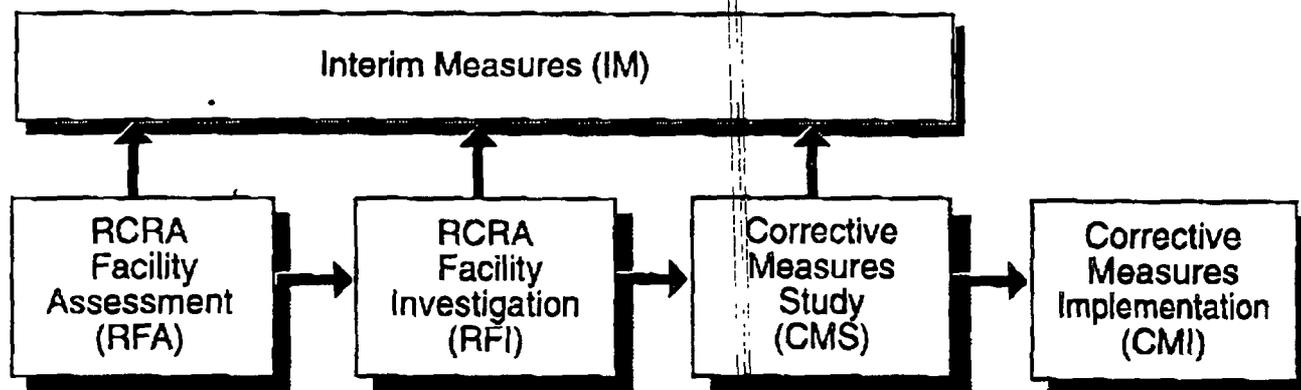
Before federal environmental cleanup laws were passed by Congress, the Department of Defense developed a proactive program to address the environmental conditions created by releases of chemicals and petroleum products, from past spills and disposal practices. The Installation Restoration (IR) Program is designed to investigate and cleanup environmental releases at military installations nationwide.

Resource Conservation and Recovery Act

The Resource Conservation and Recovery Act of 1976 (RCRA) and the Hazardous and Solid Waste Amendments of 1984 (HSWA) provide a regulatory framework for the proper management of solid and hazardous wastes. This federal law established a tracking system for hazardous wastes from generation through ultimate disposal. It also provides a permitting system for facilities that treat, store, and dispose of hazardous waste to ensure proper operation.

The 1984 amendments greatly expanded the scope of RCRA to require cleanups, or corrective actions, at facilities that are seeking or subject to a RCRA permit, whenever hazardous substances are released into the environment. The RCRA corrective action process identifies solid waste management units, determines the type and extent of contamination, and identifies and evaluates appropriate solutions, or corrective measures to clean up the site.

RCRA Corrective Action Process



Operating under an current RCRA permit and according to RCRA regulations, Kings Bay is conducting their environmental cleanup activities by following the steps outlined below.

INFORMATION REPOSITORY AND ADMINISTRATIVE RECORD FILE

The Information Repository and the Administrative Record are placed in a location to encourage public involvement in the IR Program. The Information Repository contains site information, program activities and findings. The Administrative Record includes documents which support site cleanup decisions. At Submarine Naval Base, the Information Repository is available at:

St. Marys Public Library
100 Herb Bauer Drive
St. Marys, Georgia 31558
Telephone: (912) 882-4800



Library Hours:

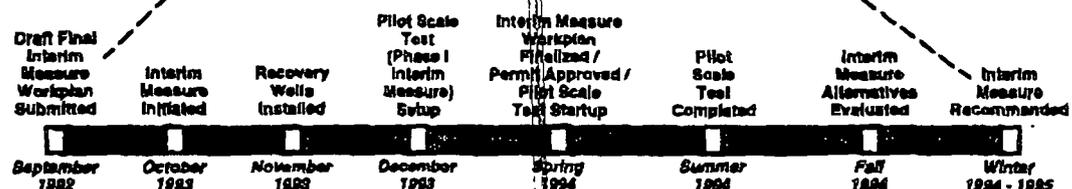
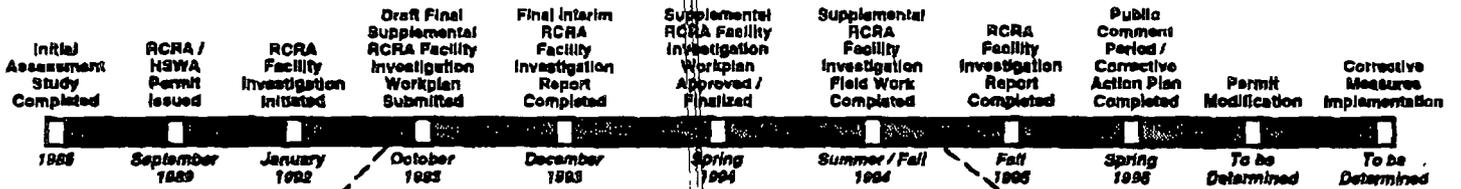
Monday, Wednesday, Friday: 10:00 to 5:00
Tuesday and Thursday: 10:00 to 8:00
Saturday: 10:00 to 12:00 noon
Sunday: CLOSED

WHERE TO GO FOR ADDITIONAL INFORMATION

For additional information or to be added to the mailing list for future mailouts, contact:

Robert Steller, Public Affairs Officer
Naval Submarine Base
1063 USS Tennessee Avenue
Kings Bay, Georgia 31547-2606
(912) 673-4714

RCRA Corrective Action Process for Site 11, Old County Landfill



Interim Measure Process for Site 11, Old County Landfill



Public Affairs Office
 Naval Submarine Base
 1063 USS Tennessee Avenue
 Kings Bay, Georgia 31547-2606