STAFF REPORT: THE APPLICATION OF 15 NCAC 2L TO THE WELL CONTAMINATION PROBLEM AT THE CAMP LEJEUNE MARINE CORPS BASE, ONSLOW COUNTY

During July 1984 groundwater studies downgradient from the industrial area tank farm revealed the presence of organic contaminants in well HP-602. Expanded studies of the seventy-seven community water supply wells at the base.

Volatile organic compounds (mostly organic solvents) were found present in eight wells in the Hadnot Point System, and organic solvents were found present in two wells in the Tarawa Terrace System. Use of these wells were discontinued although no drinking water MCLS have been violated.

Figures 1 and 2 show the location of the impacted wells. Table 2 lists what is known about the construction details of the wells. Table 3 shows the available analytical data. The by lines which appeared in the Jacksonville and Wilmington newspapers are shown in Attachment I.

Presently, there is not sufficient data to identify the source(s) of this pollution problem. However, it is very probable that off-base sources have impacted the two Tarawa Terrace (TT) wells. Consequently, groundwater staff with the Wilmington Regional Office are inventorying those sources (dry cleaners?) which may be linked to the TT problem.

In summary, the data substantiates that standards assigned to GA classified groundwater have been (or will be) violated at the perimeter of compliance. Thus, it is recommended that the division send the Marine Corps a notice of violation which requires them to: 1) identify the source(s) of well contamination, 2) define the geometry of the contaminant plume(s), 3) define the quality characteristics of the plume(s), and 5) propose actions to remedy the pollution problems. Additionally, it is recommended that the Marine Corps provide us a schedule which shows when these

This report was written on May 15, 1985 by Mr. Rick Shiver, Regional Hydrologist, Wilmington Regional Office.

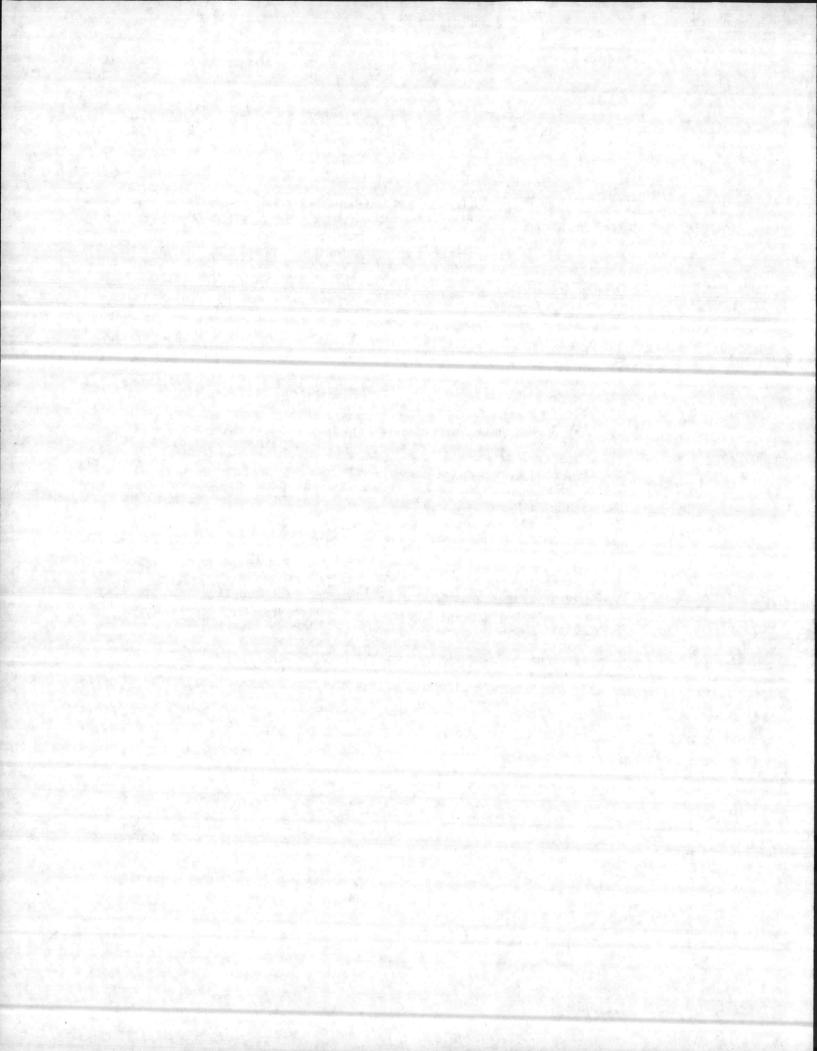


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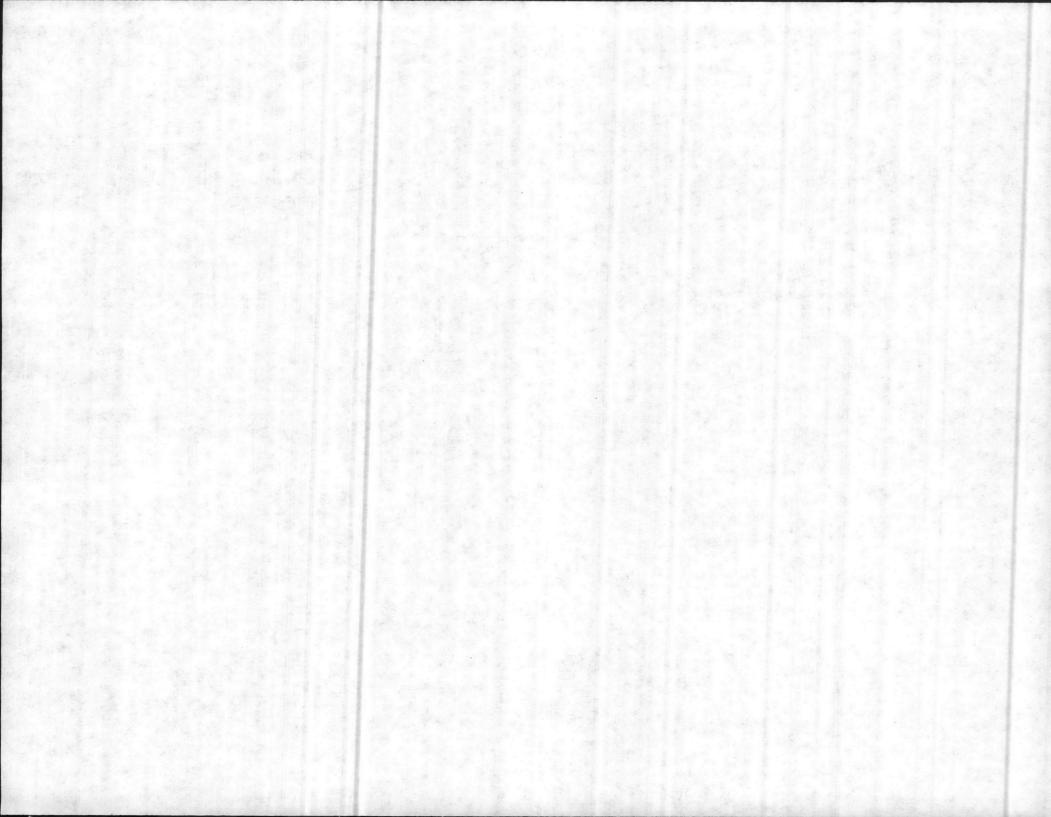
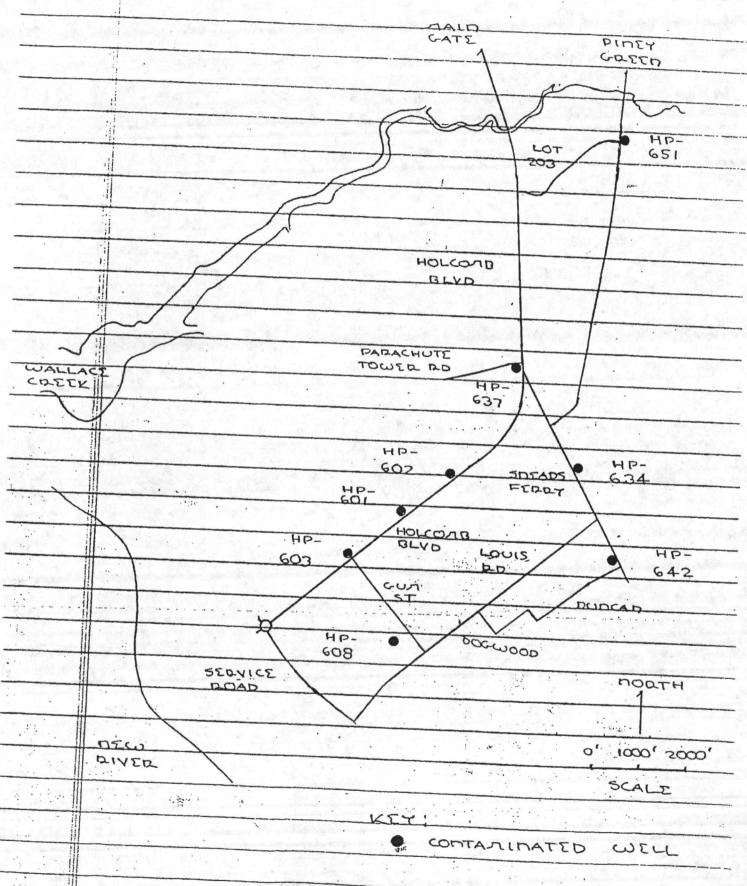


FIGURE 2: MAP WHICH SHOWS THE LOCATION OF THE CONTAMINATED WELLS, HAD-HOT POINT AREA, CAMP LETTURE MCB



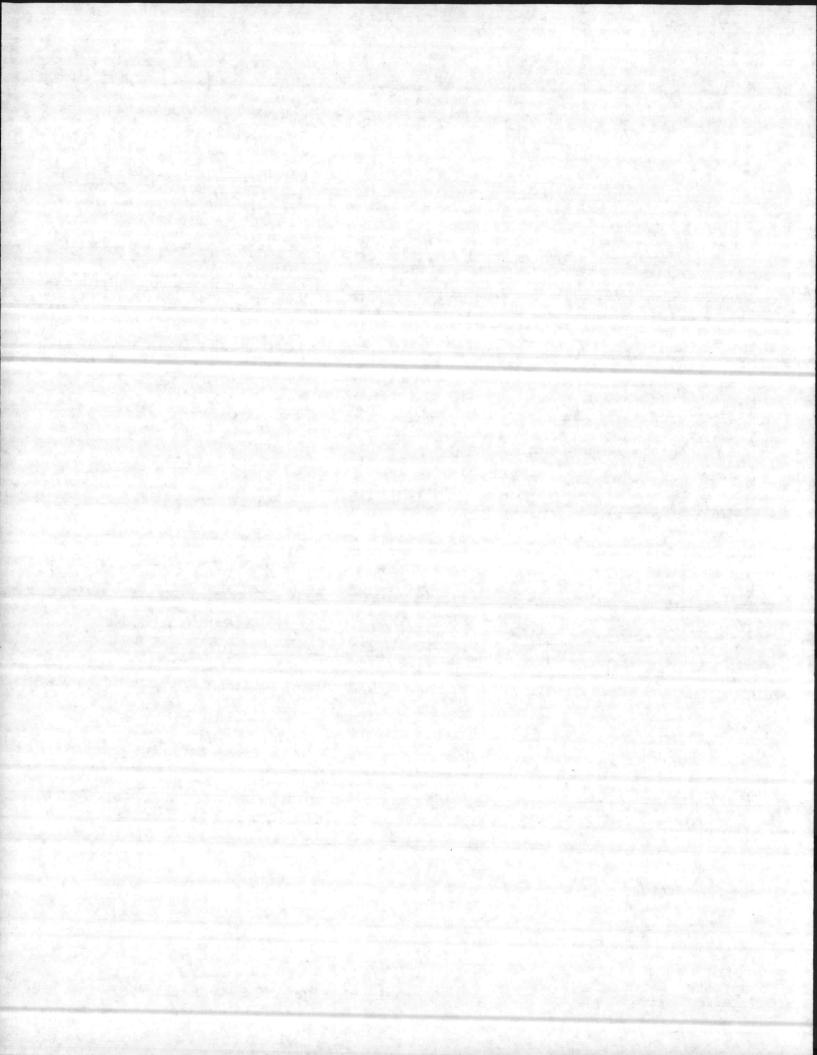


TABLE 1: ATTRIBUTES OF CONTAMINATED

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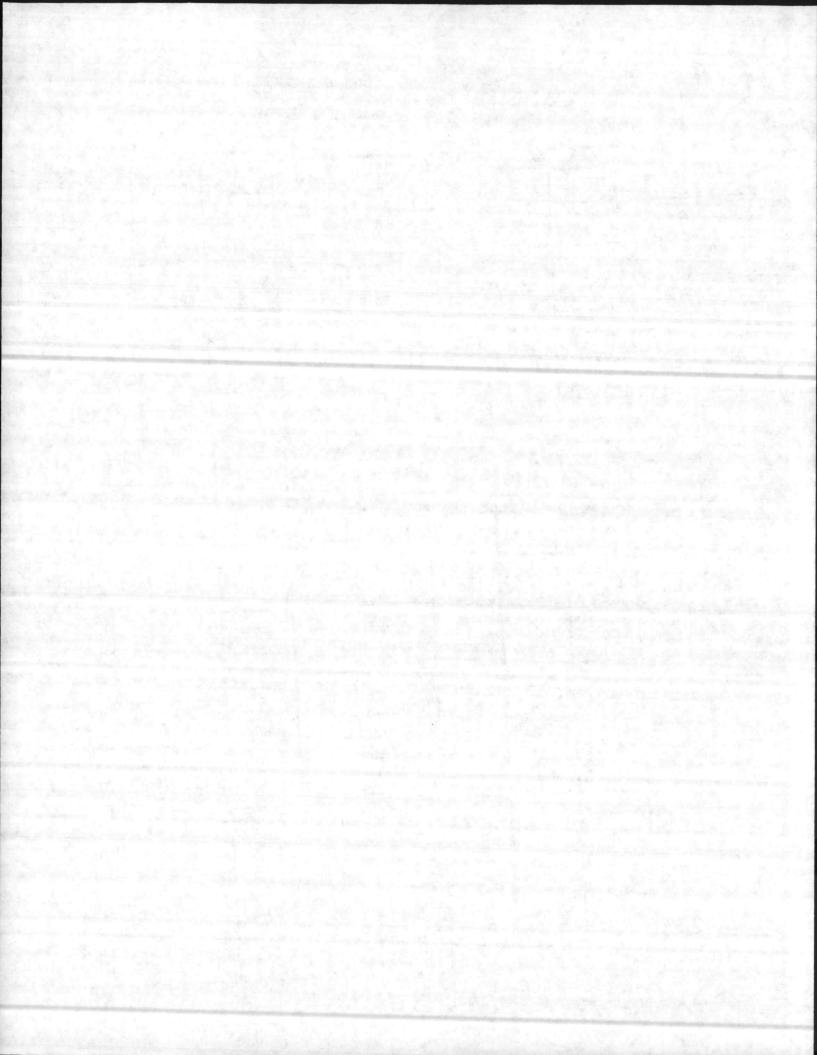


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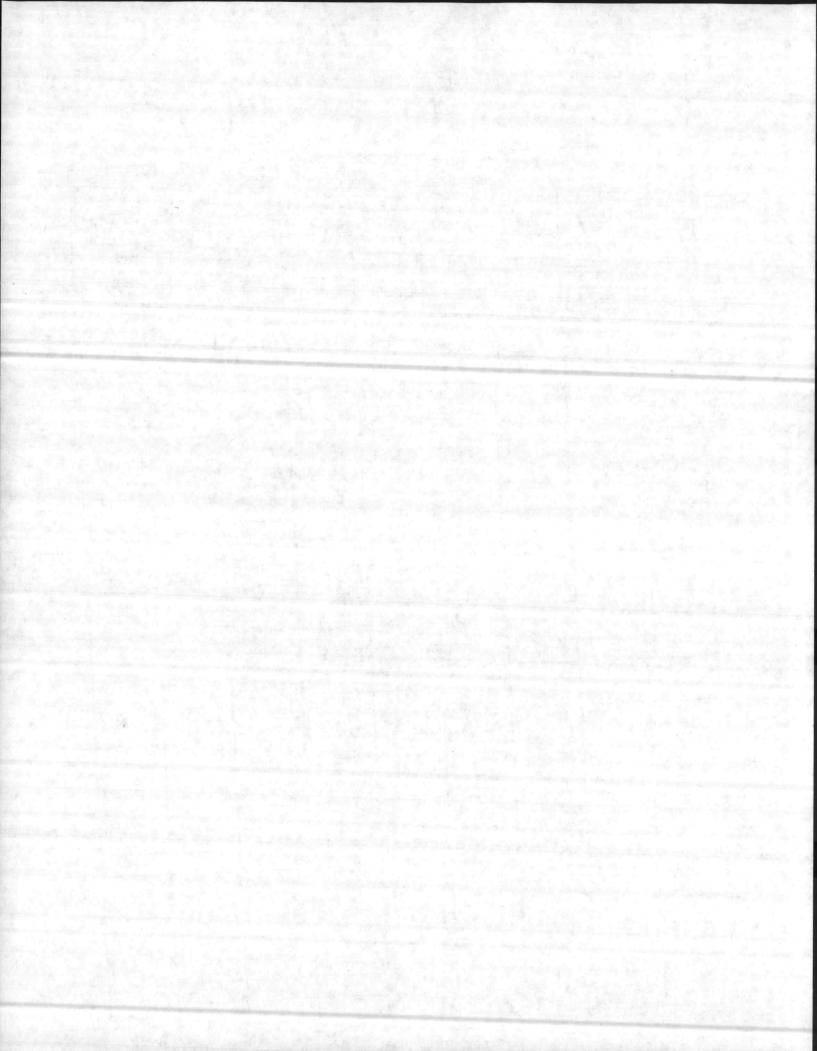


TABLE 2: ORGANIC ANALYSIS DESULTS
ON WATER ON WATER SAMPLES
COLLECTED FROM COMMUNITY WATER
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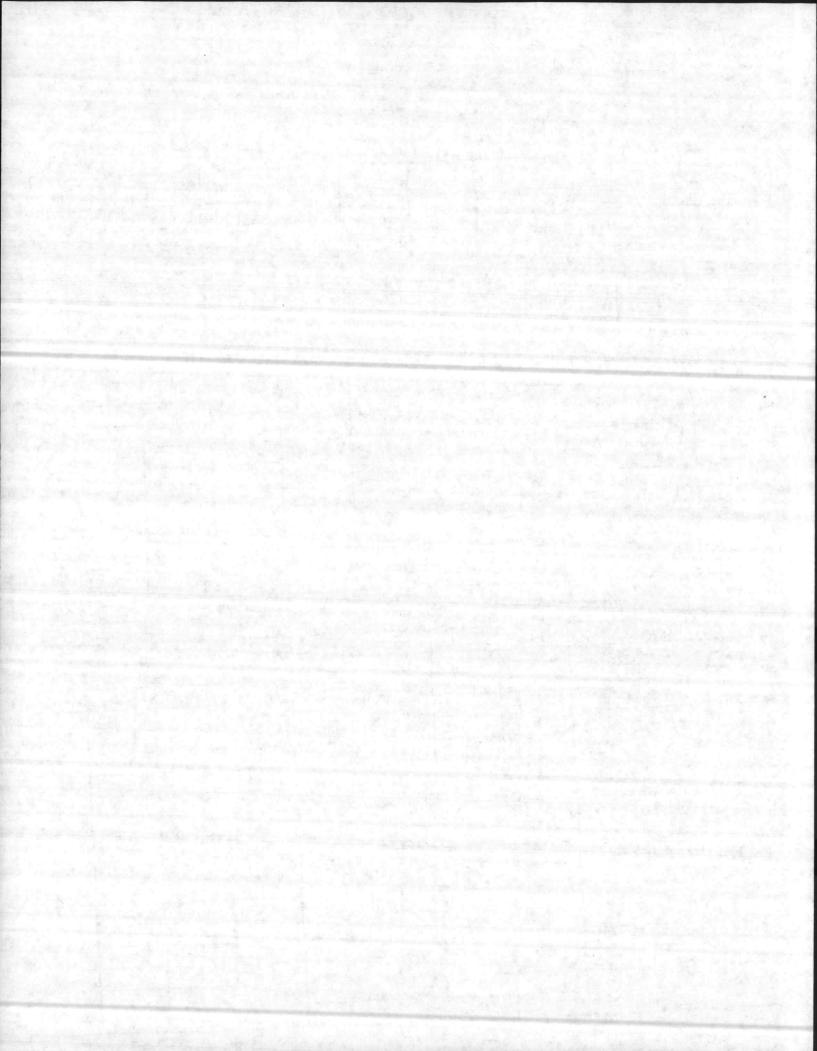


TABLE 2: DRUGATIC ANALYSIS DESULTS.

ON WATER ON WATER SAMPLES

COLLECTED FROM COMMUNITY WATER

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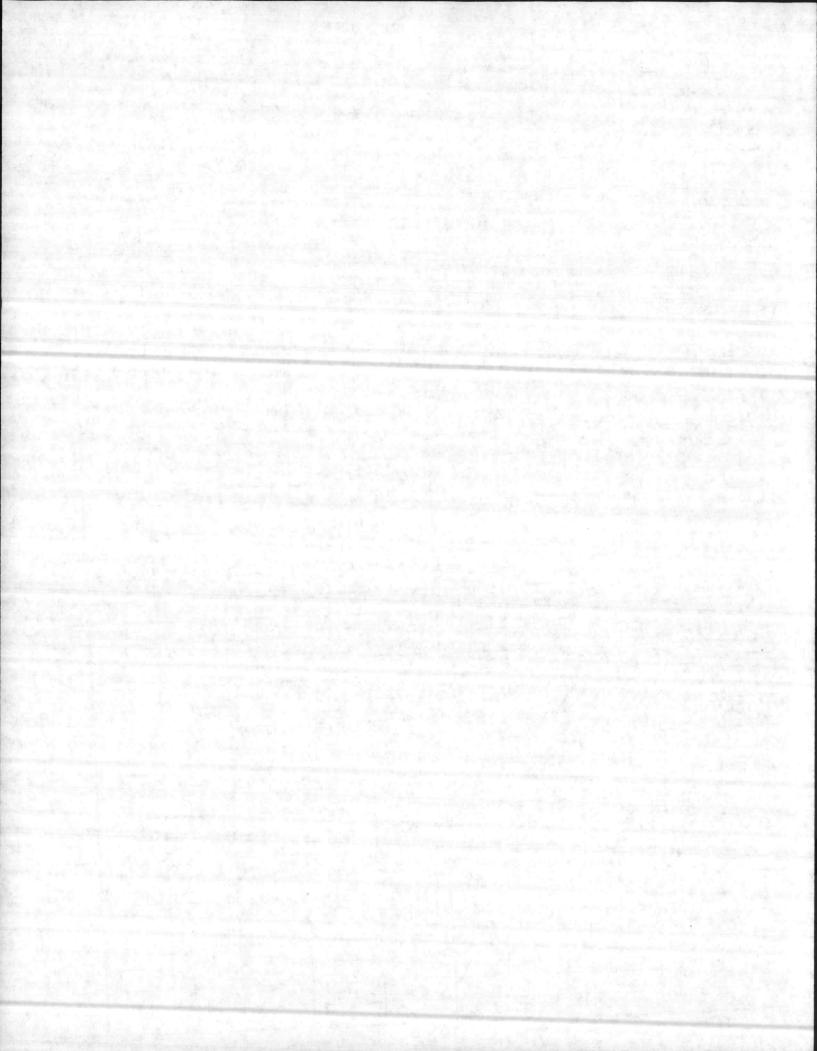


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ON WATER ON WATER SAMPLES

COLLECTED FROM COMMUNITY WATER

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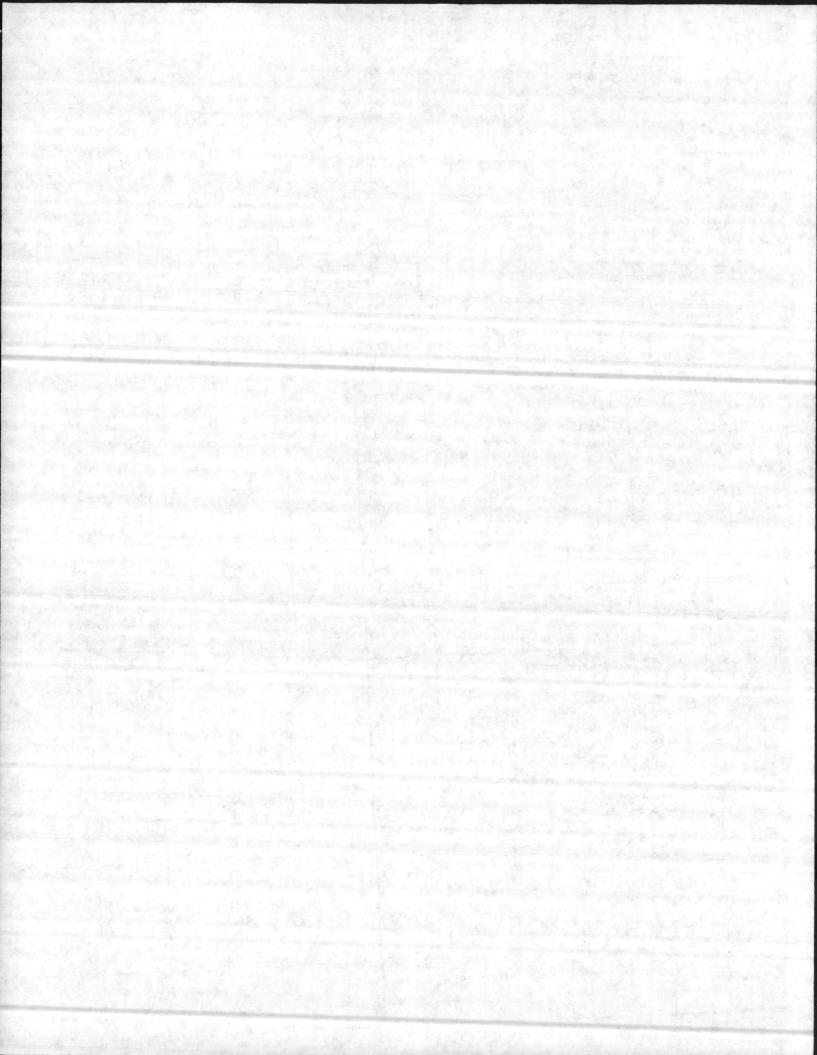


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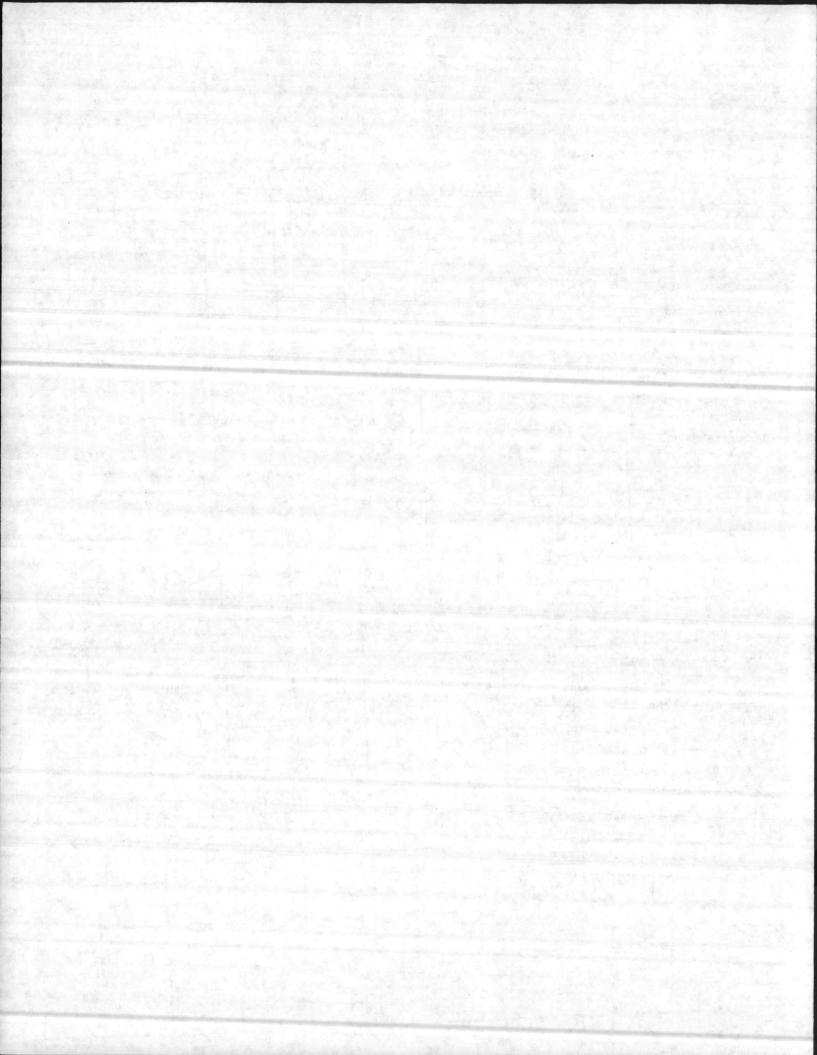


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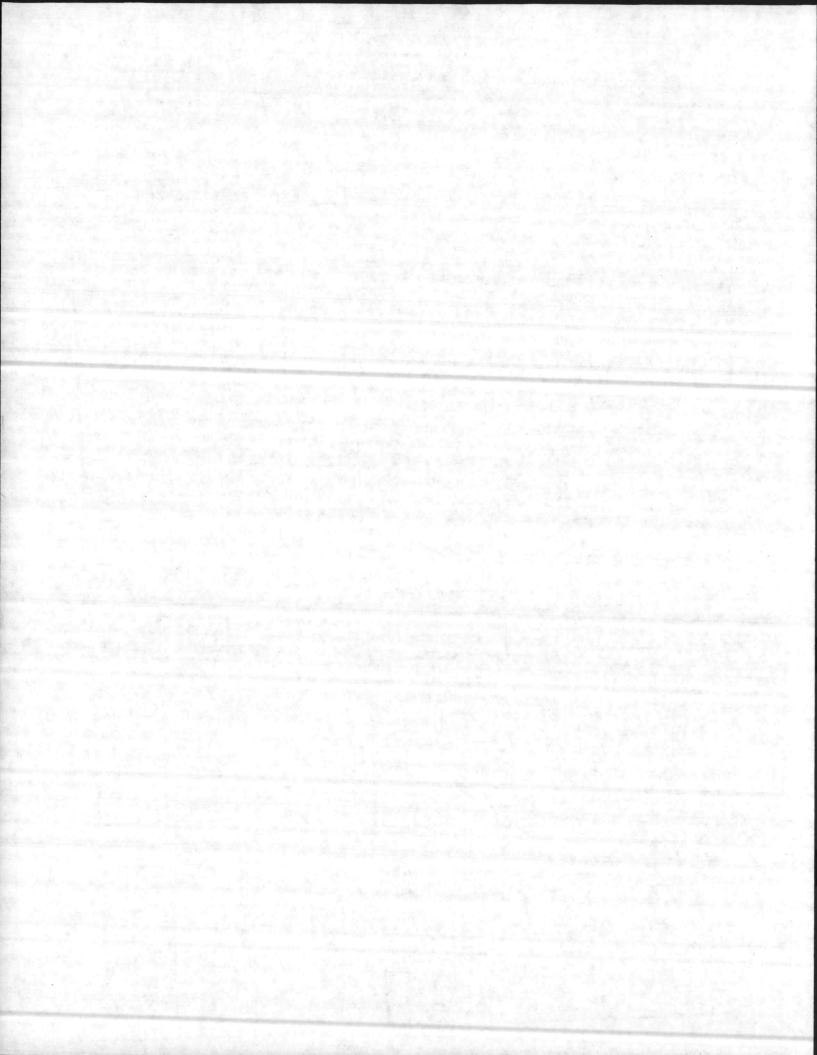


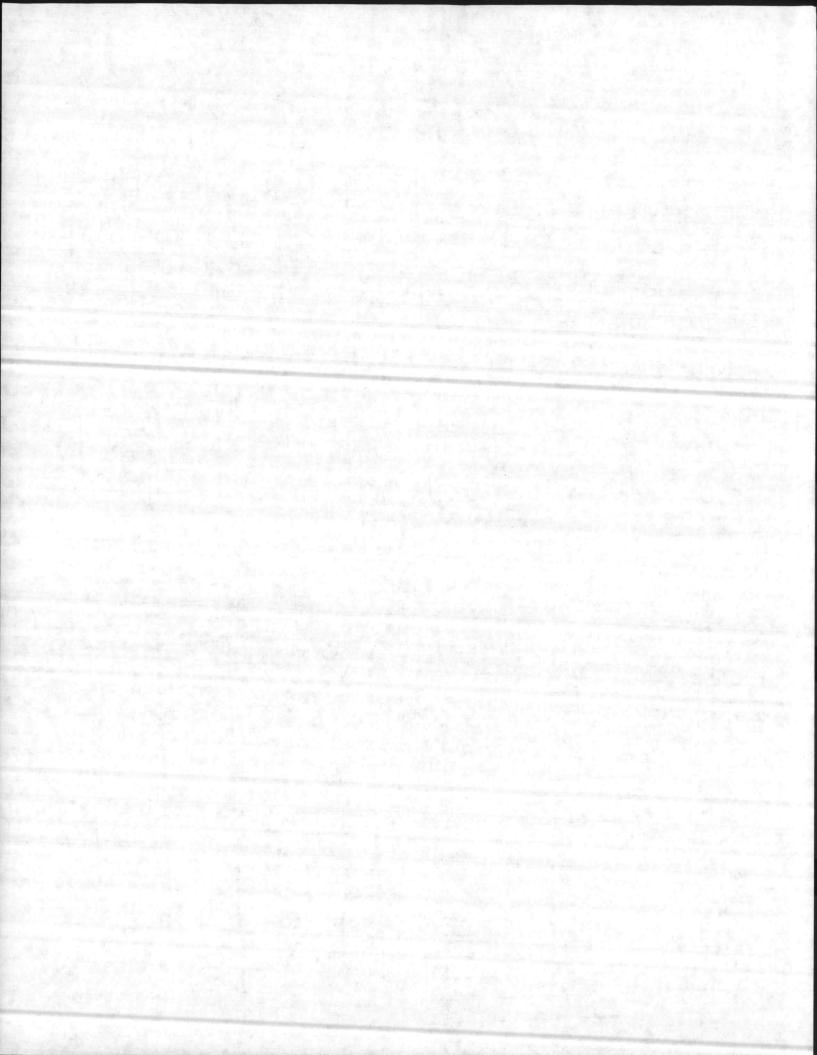
TABLE 2: ORGANIC ANALYSIS RESULTS

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Chemicals discovered in Lejeune water wells

By RICHARD F. SMITH Daily News Staff

A Navy study of industrial contamination has found volatile chemicals in 10 deep-water wells at Camp Lejeune, causing Tarawa Terrace residents to face restrictions on water use while a new line is built.

Substances found in the wells were described today as "volatile organic chemicals" by Gunnery Sgt. John Simmons of Lejeune's Joint Public Affairs Office.

He said he had no information on whether the well water is dangerous to humans.

"According to the memo from the . chief of staff, facilities, no federal or state regulations mandate an unacceptable level of these organic chemicals in drinking water." Simmons said

"The wells were ordered closed pending further study and analysis under the Navy Assessment and Control of Installation Pollutants Program," the spokesman said.

"Ten deep-water wells aboard base have been taken off-line since December as a result of a Navywide study of industrial contamination aboard Navy and Marine Corps installations," Simmons said.

"Eight of the closed wells are in the Hadnot Point water-supply system, which services the mainside area of the base. The other two wells are in Tarawa Terrace," he

"The well closures have not created any water-supply problems ' for Hadnot Point, but the Tarawa Terrace system can barely meet current demand for finished water.

"As a result, the commanding general (Maj. Gen. Louis H. Buehl III) has imposed some water restrictions on Tarawa Terrace residents," Simmons said.

"A recent bulletin sent to Tarawa Terrace housing residents urged . them to conserve water in the following ways: water lawns Monday through Thursday from 6 a.m. to 9 a.m. only, do not wash cars, do not let the water run while brushing your teeth or washing dishes and only flush toilets for sanitary

Base closes ten wells: wastes found

By Donna Long and Shannon Brennan

Ten wells serving Camp Lejeune housing areas have been closed due to chemical contamination.

The contamination apparently comes from one or more of 72 old waste disposal sites at Camp Lejeune, said Lee Mittelstadt, public information officer for the Solid and Hazardous Waste Management Branch of the N.C. Department of Human Resources.

The chemicals include chlorinated solvents - dichloroethylene, trichloroethylene and tetrachloroethylene - and are toxic, she said. They are found in many types of cleaning products.

Because Camp Lejeune is a federal reservation, the state cannot fine the base for its old disposal sites and the base is not eligible for federal Superfund cleanup money, she said.

Chuck Rundgren, head of the state's Water Supply Branch, said the Navy has contracted with a private firm to analyze the water further. Rundgren said he did not think Camp Lejeune residents need to worry about getting bad drinking water.

"I think we kind of caught it right at the beginning," he said.

Eight of the closed wells served the Hadnot Point housing area and two served Tarawa Terrace. The closures leave Hadnot Point with an adequate water supply, but Tarawa Terrace residents have been ordered to conserve.

"That system can just barely meet the current water demand, Gunnery Sgt. John Simmons of Lejeune's Joint Public Affairs office

10 wells serving two base housing areas have been closed.

said of Tarawa Terrace.

Lawns in the housing project may be watered only between 6 and 9 a.m. Monday through Thursday and washing cars is prohibited.

Residents are urged not to let water run while they wash dishes or brush their teeth and to flush toilets only for sanitary purposes.

Simmons said an auxiliary water line to ease the water shortage in Tarawa Terrace should be completed in éarly June.

The wells were closed after a Navy study in December of industrial contamination on Navy and Marine Corps bases, Simmons said.

Simmons said all 10 of the contaminated wells will remain closed pending "further study and analysis under the Navy Assessment and Control of Installation Pollutants Program."

Simmons said he could not say how the contamination got in the wells. He did not know how deep the wells were.

Simmons said that while there were no state or federal regulations that mandate an unacceptable level of such contaminants in drinking water, "we ordered the closure of all wells that showed even a trace amount."

Donna Long is a Star-News correspondent; Shannon Brennan is a staff .writer.

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