## ollution seeping into groundwat y Tricia Robertson

iff Writer

Turn on the faucet and out pours the water you can drink.

If you're like most people, you n't give much thought to where it nes from.

The fact is, 55 percent of North rolinians get their drinking wa-

from vast expanses of water-urated rock or soil known as ifers. In the eastern half of the te, the percentage is even higher. A lot of counties rely solely on undwater," said Rick Shiver, a rogeologist with the state Diviof Environmental Manage-

ut only in the last 20 years have been passed to protect this imant source of drinking water. ironmentalists say the efforts 't enough, while chemical comes and agricultural interests plain that proposed new rules oo stringent.

ie odds are that if your water s from a well, whether individor a community system, it is ively free of harmful contamin-

Groundwater is less exposed llutants than rivers and other ce sources, but toxic subes are finding their way into ground water sources.

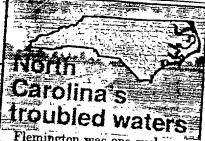
ndfills, hazardous waste s, faulty wastewater treatsystems, underground tanks idustrial spills are among the common polluters.

ert Borden, assistant profes-f civil engineering at N.C. University, said a number of s indicate that only a small stage of the nation's groundis contaminated. That isn't comfort if your well happens colluted.

problem is, contamination to be where the people are," said.

s often the case, state and groundwater standards l out of necessity, Shiver hen he went to work for the the early 1970s, his depart and just started looking at water pollution te wasn't a whole lot of sup pass and implement ground uality regulations," Shiver

e 0s wore on however, in roundwater contamina ord publicity and began to



Flemington was one such case. In 1978, New Hanover County's landfill, operated by Waste Industries, was linked to contaminated well water found in the tiny rural community.

The discovery led to a federal lawsuit against the state, the county, the city of Wilmington and a number of private parties, including Waste Industries. That suit,

which is still pending, has cost the defendants more than \$500,000 for water tests and countless more in legal fees.

Flemington "brought some prominence to the problem of groundwater pollution," Shiver

In 1973, when it received a permit, the landfill met state specifica-

Regulations designed to prevent another Flemington will require counties to spend \$100,000 an acre or more on lined landfills and, in some cases, systems to treat the

Recent water tests at the nowabandoned Flemington landfill indicate a much smaller level of pollution than when the contamination was first discovered, but the EPA has not yet determined whether the defendants will have to pay to remove the contents.

Borden said the apparent dissipation is to be expected.

Over time, if you eliminate the source of pollution, the groundwater will gradually try to clean atself up. " feet consequent

Even the smallest concentrations sof some substances can be potential. dangerous however

For example, a gallon of frichlor pethylene 1 a common solvent used An dry cleaning and typing correction fluid can contaminate I billion gallons of groundwater, Borden

ion gallons of groundwater, portients and the state adopted in series of agroundwater protection laws in 1983. Those regulations which is find the groundwater beneath aindustries or landfile be kept pure are being revised this year.

Among the proposed revisions is the addition of more than 50 subn stances to the list of monitored con-"taminants.

Existing groundwater standards are basically the same as state and federal drinking water laws, said Perry Nelson, chief of the ground-"water section for Environmental Management.

Nelson explained that drinking water standards apply to the treatment of polluted water to the point. that it is suitable for human consumption.

"Groundwater is about as pris-

tine as any of our resources," Nelson said. "If we have an unpolluted source, then we want to keep pollution out of it."

Abiding only by drinking water guidelines, he said, is akin to sanctioning the pollution of aquifers.

Under the proposed regulations, long-term health risks would be taken into consideration in setting maximum contaminant levels. But, Nelson said, the bottom line is: "If we can detect it, then there's too much of it.

The proposed guidelines have drawn opposition from agricultural and industrial groups, Nelson said.

Farmers are worried that the regulations will be so stringent that they will have to cut back on the use of pesticides and fertilizer, making them less competitive than their counterparts in other states.

And companies that produce the chemicals fear the regulations will cost them business. If farmers aren't using the product, then there is no market for it.

We don't want to place an obstacle for them," Nelson said. "Yet we have an obligation to protect our resources.

He said the industries' concerns are still being weighed. He did not know whether the opposition would change the scope of the regulations.

Environmental groups see a number of deficiencies in the cur-

5090.60

Wilmington, NC 8 Tues, 7 Mar 89

Pages: la & 9A

ent regulations and an that pressure from other interests or parallel diffuse the review guideline # Joseph Hughes of the Clear ter Fund of North Carolina said one of the biggest problems with groundwater regulations has been the lack of centralization various agencies in the departments of Hip man Resources and of Natura sources and Community Develop ment have been responsible for en forcing different parts of the groundwater regulations. Hughes is director of a groundwater research project for the Clean Water Fund, a private, non-profit group. The study, he said, will examine "hundreds of confirmed cases"

of groundwater pollution." one agency that deals with the problem of groundwater," he said.

"There is truth to what they say,"

Shiver agreed.

He said a proposal to consolidate: government agencies has been before the General Assembly andcould help solve that problem.

Enforcement also was hampered late last year, when the N.C. Court of Appeals ruled that state agencies do not have the authority to determine civil fines. The ruling is being reviewed by the N.C. Supreme Court.

"If it is upheld, we certainly would have less regulatory clout," Nelson said. The division would still be able to revoke permits and require clean-ups, however.

I think there is a reasonable amount of enforcement authority. Nelson said.

Another deficiency environmental groups see is that to date, most regulations have been adopted only in response to incidences of pollution, and they deal primarily with clean-up efforts rather than preven-

Shiver agreed that regulations have been slow in coming.

"You've got to convince the public and the lawmakers there's a need for it," Shiver said. Usually, that means waiting for a disaster to hap-

But he thinks the state and the

around
As an example he cited new federal regulations on underground storage tanks. Although part of the legislation requires owners to carry. insurance to cover clean up costs in case of a spill of also sets our anni mum standards for all underground storage tanke Those regulations apply both to existing and new tanks, with a stipulation that the older tanks which are most likely to lear be the first to comply "I think we're beginning to make progress on it." Shiver said "The bottom line is, it is far cheaper to prevent (pollution) than to clean it up." My sense of things is the state is making some slow progress, said Bill Holman, lobbyist for the Sierra Club and the Conservation Council of North Carolina. "But while we

are making progress on the regula-

tory front, there's more ground-

water pollution every day.

CLW 0000001817

City: Wilmington, NC Pub: Morning Star

Date: Tues, 7 Mar 89

Pages 1A & 9A