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Drawings based on a May 1990 report by the U.S. Army Corps of Engineers, New England Division

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THE

DITORIAL BOARD

DAMAGE 🖥 Begin the cleanup

Dage editor

As studies and debate drag on, PCBs remain buried in river silt

Key the start of t

Actesses to the other free inter year. I happened again in 1982 and 1983, after which PCB levels in the Hudson's prized striped bass went up and didn't idip below 1981 levels for five years. Na-ture being what it is, a flood is due again too

Dredging the river's buried chemicals would stop the poisonous flow of PCBs. 'It would keep the chemicals from con-faminating wildlife, entering the food (chain - and, just possibly, ending up on dinner plates. Ocean fish are increas-ingly turning up with PCBs in their bod-ies from the Hudson and other sources. "State officials hope to recover 77,000 pounds of PCBs in about 40 concentrated areas of the river, called "hot spots," north of Troy. Another 92,000 pounds 'are too spread out in the upper river to be retrieved.

be retrieved. The General Electric Co., which dis-charged the chemicals from two plants, argues that removing the PCBs may not given result in cleaner fish. That argu-ment is based on questionable scientific speculation. And it is flawed for other reasons that ought to anger anyone who loves the Hudson River. Its premise is t that the upper Hudson is rife with PCBs anyway, removing the ones within reach would be meaningless. The irony is that argument is strengthened with every passing day that a cleanup isn't under-taken. What a worth taking

Risks worth taking

Endless studies and hearings on the Hudson River's PCB problem, first ac-knowledged in 1975, have so delayed ac-tion that the amount of PCBs that can be tion that the amount of FCBs that can be recovered grows smaller each day. It is not insignificant, however, Just one pound of PCBs is enough to contaminate a half-million pounds of fisht to the un-safe level set by the federal government.

safe level set by the federal government. Dredging PCBs from a riverbed is not risk-free. Some FCBs will be stirted up and sent downriver on the current. "Dredging," states a GE flyer, "would virtually destroy environmentally sig-nificant wetlands and devastate a healthy ecosystem that could take de-cades to recover." The claims are far-fetched when compared with studies of projects in which PCB-laced sediments were dredged. And while some wetlands, "mostly river shallows, would be

-To comment on a cleanup of the Hudson's PCBs, write to Constantine Isidarion-Eristoff, Regional Administrator, U.S. Environmental Protoccion Agency, 26 Federal Plaza, New York, NY 10278. Send copies to New York, NY 10278. Send copies to I local federal and state representatives. - whose support of the cleanup is ressential.

dredged, any harm would be less than the long-term damage of PCBs them-

New research by the U.S. Army Corps of Engineers, on a PCB-contaminated river in New Bedford, Mass., demon-The Corps recently the definition of the state of the second state ommenaea 10 lion cleanup.

A cutterhead dredge was used in the study, essentially a pointed rotating bas-ket at the end of a long suction pipe. Cutterheads are more precise than old clamshell dredges that merely scoop sediment from the bottom. Combined with silt curtains, which are weighted plastic sheets that help contain silt dur-ing digging, cutterhead dredges can limit PCBs from escaping in dredging.

fest dredging method first

Jest dredging method first GE says that dredging will be ham-pered by shallow water, buried debris and overhanging trees, and that it will create barge traffic on the river. The claims are specious. Cutterhead dredges can be used in shallow water, and sub-merged wood from bygone lumber oper-ations should be soft enough to be dredged. While buried tires and such may create problems, those are to be expected, as is the need to trim trees.

expected, as is the need to trim trees. As for barge traffic, there isn't much to begin with: river traffic has dropped by 75 percent since 1981, partly because the channel is clogged with PCB-laced sediment that can't be removed. And along half the route there won't be any traffic - 15 miles of pipeline will carry the sediment to its burial place.

the sediment to its burial place. Cutterhead dredging must first be tested on the Hudson. The Hudson's sedi-ments may differ in their tendency to diffuse when disturbed. And the Acush-net's far more concentrated PCB prob-lem makes recovering them easier. A test using clamshell dredging was con-ducted on the Hudson near Fort Edward in 1977. Only 2 percent of the PCBs in the sediment were lost in the operation, offering hope that a cutterhead can do even better.

The U.S. Environmental Protection The U.S. Environmental Protection Agency rejected a Hudson River cleanup in 1986 in part because the "reliability and effectiveness of current dredging technologies in this particular situation is subject to considerable uncertainty." Some of that uncertainty has been re-solved. The EPA, should order a pilot study of cutterhead dredging in the Hud-son — followed by a full cleanup if suc-cessful. cessful

There are other PCB cleanups nation-wide where dredging has been used

Two rivers, two problems

The Hudson River is in a sense two rivers, separated by the Troy barn, 78 miles north of Pough-keepsie. The upper Hudson is where toxic PCBs were discharged and where they remain in highest concentrations. But the 150-mile lower Hudson, with Poughkeepsie at the mil-way point, is where the polychlorinated biphenyls in-witchin and up contride by cormal curevitably end up, carried by normal cur-rents or floods.

AN EDITORIAL SERIES/ PART III

'Vacuuming' the Hudson

The state proposes using a cutterhead dredge to remove the Hudson River's PCBs. A rotating cutter dislodges sediment and guides it to a suction pipe, in effect vacuuming it from the bottom. The sediment is pumped to its point of disposal. Research has shown that, contrary to general perceptions, cutterhead diredges do not kick up large amounts of sediment.

on: U.S. Army Come of End

The General Electric Co., in its at-The General Electric Co., in its at-tempt to avoid a river cleanup, often cifes a 1989 Manhattan College report that predicted PCBs levels in lower river fish if the chemicals were re-moved or if they were left in place. Using a highly complex model, re-Besturners conclused that usere would be little difference, either way, 95 per-cent of fish in the lower river would fall below the acceptable level of 2 parts per million by 2004. But that prediction it only slightly.

But that prediction is only slightly more reliable, many scientists say, than a crystal ball. In discussing the model, a report by the federal Environmental Protection Agency said, "In any model, there is often a great deal of skepticism concerning the various simulations."

Among the major uncertainties is the amount of PCBs flowing from the upper to lower river. The model estimated

safely. Moreover, these cleanups are testing methods that could apply to the Hudson:

Other tests show promise

In the Sheboygan River in Wisconsin, PCB-contaminated sediment has sin, PCB-contaminated sediment has been dredged and subjected to a range of tests to render it relatively free of toxics. In one experiment, 2,700 cubic yards of PCB-laden sediment are being fed minerals, nutrients and, afterward, oxygen to speed up the two-step process under which PCBs break down. step process

The Hudson's PCBs should be treated in a similar manner. Such treatment eliminates one argument against dredg-ing: that it merely moves the problem from one place to another.

If on one place to another.
In the Suckegan Harbor, Chicago, where 300,000 pounds of PCBs were dumped, sediments have been removed with a cutterhead dredge. The material was placed in a large boat slip that was lined with clay to prevent leakage and cut off from the harbor by a high, thick

that three pounds of PCBs enter the lower river daily, a state researcher contends it is more like five or six pounds daily, which could signifi-cantly change the model's outcome. Moreover, the researchers con-tended that there are major PCB sources downriver that contribute as much as 90 percent of the PCBs in striped bass in the lower river. But those sources have never been docu-mented; the model estimated the con-tribution of sewage treatment plants, street runoff and even atmospheric deposition. deposition.

deposition. The model assumes that other PCBs from the lower river are so influenc-ing the fish that cleaning the upper Hudson won't help. But it is flawed first because most other sources of PCBs are in the New York-metropol-itan area. There are no PCB sources north of that point would surely bene-fit from a cleanup — and so would the fish and wildlife that live in it. Further, the model ignores the im-

rusa and wildlife that live in it. Further, the model ignores the im-pact of a cleanup on fish in the upper river alone. Fish there are highly con-taminated. The upper river is a dy-namic ecosystem. It deserves to be cleaned, even if a cleanup doesn't af-fect the lower river at all — which is doubtful.

wall. The PCBs are relegated to a place where they will not enter the food chain. In the Hudson Valley, under a plan formulated by the Department of Envi-ronmental Conservation, three million

rommenia Conservation, three million cubic yards of sediment, containing about 250,000 pounds of PCBs, would be taken to a 253-acre tract in Washington County and buried in a clay-lined land-fill. The facility, wisely, would be de-signed so that the sediment could be de-contaminated if a feasible method was developed only after it was buried. The sediment would include the 77.000 pounds removed from along the riverbank and 127,000 pounds removed from areas where they were improperly dumped before the problem of the PCBs in the Hudson River sediment was known.

known.

The state's plan, unfortunately, is on hold. It awaits a decision by the federal Environmental Protection Agency — now already three years overdue — on whether to order a cleanup of the Hud-son. Under federal law, the Potentially

Responsible Polluter, in this case Gen-eral Electric, would have to pay for the cleanup, and it should. The EPA's first assessment of the PCB problem in the Hudson took 18 months. This one will last about 44 years, should it conclude in mid-1994 a planned. For the Hudson, that's too loo GE must be held accountable, now.

Next week

Next Sunday: What do PCB do to people?

