

20 Part I—Wed., Jan. 20, 1971

Los Angeles Times 24

# Volunteers Join Effort to Clean Up Spilled Oil

**Continued from Third Page**  
On the ocean shore in San Francisco, a dozen volunteers collected an estimated 50 oil-soaked birds, cleaning them with a combination of cornmeal, mineral oil and rags, treating them with eye-drops and sending them on to State Fish and Game authorities for further care.

"They are so heavily soaked they can't fly," said a young man. "We have to give them three or four baths apiece."

State Fish and Game officials said they had established three main collection centers in the Bay area and that several, perhaps a dozen, other collection points had been set up by volunteers.

Asked about the effect of the spill on fish in the bay, Hubbard replied: "At this point, there appears very little likelihood of fish losses . . . and probably no major effects on deep water-marine habitat."

He said the mobility of the fish and the tidal "flushing" action of the bay itself were factors that would help protect marine life.

**Efforts Praised**  
Standard Oil cleanup efforts drew praise from McCarty, who termed the company "extremely cooperative." He noted that new provisions in federal law called for heavy fines if an offending company does not adequately clean up a spill for which it is held responsible—but that it was "doubtful at this point" that such heavy penalties would be assessed against Standard.

Standard Oil reported it had employed 500 men and a large amount of equipment to try to remove the oil from bay waters and the shoreline.

A spokesman said the company was providing two boats, as well as cleaning materials, financial assistance and manpower, to conservationists and other volunteers working to save birds caught up in the mixture.

The company said it was using 10 tugboats, 25 specially equipped charter craft, seven "skimmer" barges (equipped to draw spilled oil from the water), 30 "vacuum trucks" (drawing oil from the shore), 15 tanker trucks, 20 dump trucks and four Caterpillar tractors.

**Floatable Boom**  
In addition, a spokesman said, more than 7,000 bales of hay were used to soak up the oil and about 10,000 feet of floatable boom was used to try to contain the oil so that it could be drawn into tankers.

The Standard official said he was unsure how long it would take to complete the operation.

"Right now we're going as fast as we can with every bit of equipment we can lay our hands on," he said. "Hopefully, we'll be able to clean it up in a few days."

Michael McCloskey, executive director of the Sierra Club, noting that early reports indicated "substantially more oil" was released here than in the initial stage of the Santa Barbara incident, said:

"Most shipping had closed down when the fog became a serious threat to navigation. Why were

these two vessels with the greatest potential for environmental mischief out in the bay?"

(A Standard official declined comment on the question but observed that "scheduling matters" were important in the oil business.)

Early Tuesday, the Standard Oil of California office building in San Francisco was struck by what were described as several plastic bags containing granular oil. Other oily substances and dead fish were thrown into a pond outside the building.

Several young persons were reported to have scrawled messages on the building and adjacent sidewalks, reading "Standard Destroys" and "Ecology Groves Out of the Barrel of a Gun."

## South S.F. Bans Non-Returnables

**SOUTH SAN FRANCISCO**—The City Council enacted Tuesday an ordinance banning the sale of drinks in cans or no-return bottles.

The measure, effective July 1, provides a \$100 fine or 30 days in jail for violations.

## EFFECTS

**Continued from Third Page**  
Bunker fuel, as it is called, is what is left after the lighter oils are refined out of crude oil. It is sometimes referred to as "residual fuel oil."

Most biologists believe that the most toxic elements of petroleum are contained in the lighter oils.

This it would seem that bunker fuel, from which most of the lighter oils have been removed, may be less toxic than crude oil. However, experience with bunker spills has been so limited in the past that biologists are hesitant to make that claim.

One of the largest bunker spills in recent years occurred last winter off Nova Scotia's Chedabucto Bay. The tanker Arrow ran aground and broke up in early February, 1970, dumping more than 2 million gallons of bunker C into the water. That is approximately the same amount spilled into San Francisco Bay on Monday.

"We did not find bunker C to be particularly toxic," Dr. David J. Scarratt of the Canada Fisheries Research Board told The Times in a telephone interview. The board con-

ducted extensive research into the Nova Scotia spill. "The most serious effect was mechanical," Dr. Scarratt said.

"The hardest hit were the birds (which were coated with the oil) and animals that were burrowed in the mud and

were thus smothered," Scarratt said.

Also, if large amounts of oil are trapped inside the bay, the accumulation on the bottom could be deeper than along the coast of Canada and Santa Barbara and the mechanical effects of the spill could be even greater.

At the time of the Canadian spill, the temperature was 10 degrees below zero. It could be that bunker fuel will have an entirely different effect on the warmer waters of the San Francisco Bay.

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• 100% fabric  
• 100% paper  
• 100% fabric  
• 100% paper  
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• hand-carved  
• 10 bottles  
• 100% wood  
• 100% natural  
• 100% finished  
• 100% polished  
• 100% smooth  
• 100% durable  
• 100% sturdy  
• 100% elegant  
• 100% decorative  
• 100% functional  
• 100% practical  
• 100% useful  
• 100% beautiful  
• 100% charming  
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• 100% cotton  
• 100% natural  
• 100% finished  
• 100% polished  
• 100% smooth  
• 100% durable  
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• 100% graceful  
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• 100% lovely  
• 100% lovely  
• 100% lovely  
each 1.99

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• 100% natural  
• 100% finished  
• 100% polished  
• 100% smooth  
• 100% durable  
• 100% sturdy  
• 100% elegant  
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each 35c

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• 100% wool  
• 100% silk  
• 100% linen  
• 100% rayon  
• 100% polyester  
• 100% nylon  
• 100% spandex  
• 100% leather  
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**Teakwood Bookends**  
• 100% teakwood  
• 100% natural  
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• 100% polished  
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**Jewel Ware Disposable Plastic Tumblers**  
• 100% plastic  
• 100% natural  
• 100% finished  
• 100% polished  
• 100% smooth  
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**Colorful China**  
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**Colorful 15 Valve Ca**  
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