

Bill Lovejoy/Sentinel

Joe Correa, systems manager for the Marina Water District, says the system uses reverse osmosis filters to remove salt and other sediments in sea water.

Desalination plant urged

Consultant says Santa Cruz could solve its water woes with sea water

Desalmation By DARREL W. COLE Sentinel staff writer

SANTA CRUZ — A desalination plant that would turn sea water into drinking water is the best way for the city of Santa Cruz to meet its current and future water needs, according to a consultant's report.

But, if the project moves forward, the city might not have to bear the cost on its own. City water officials envision working with agencies such as the Scotts Val-

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- Bill Kocher, Santa Cruz Water Department director

build a regional plant that would help tives studied include a reservoir at each area with water shortages.

Oakland concludes a desalination plant report is scheduled to be presented to

ley and Soquel Creek water districts to is the most viable option. Other alterna-Olympia Quarry near Felton and ground-The report by Carollo Engineers of water near the San Lorenzo River. The

the City Council Dec. 14.

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"It's the only alternative that could by itself take care of our shortfall," said Bill Kocher, director of the Santa Cruz Water Department, which supplies about 90,000 customers in Santa Cruz, parts of Capitola, and unincorporated areas including Live Oak and Pasatiempo.

"The conclusion of the report says forget groundwater, brackish supply,

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Desalination

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recharge and everything else," Kocher said.

The report also recommends the city recycle more wastewater for irrigation and other non-drinking uses.

A desalination plant might solve the supply problems customers would face in a drought, but Kocher said the city must remain committed to conservation and rationing. He expects all three solutions will get consideration by the council, but maintains a new supply, like a desalination plant, must be the largest piece of the puzzle.

There are several debatable issues that the report gives rise to. Among them are the level of participation by the other water agencies, whether a plant's size should be minimized so

temwide over the next 50 years will increase demand by almost 1 billion gallons annually. The system typically provides 4.4 billion gallons per

The bigger fear, according to city officials, is drought. In the event of a dry year — or two, like in 1976-77 the Santa Cruz system would be an estimated 1.4 billion gallons short of meeting customer needs. That means homes and businesses would need to cut water use by 48 percent the second year of a drought, water officials

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Neighboring water agencies also near Marina State Beach. worry about water shortages.

brackish groundwater is used in many communities in the state, including Pacifica, Santa Barbara, Cambria and Marina

The Marina district's desalination more than one year. plant produces about 300,000 gallons of drinking water a day and is only a supplementary source. The plant is

The Carollo report suggests that The desalination of sea water or during a two-year drought, the Santa Cruz Water Department would need to produce 9 to 14 million gallons of water a day because it lacks the ability to store large volumes of water for antee enough water would be avail-

> Kocher estimates a desalination plant would be able to produce at least 8 million gallons a day.

Other issues involved in a desalination plant include:

• Installing intake and discharge pipes in the bay, part of the Monterey supply. The Carollo report could r Bay National Marine Sanctuary.

• Disposing of brine, the end result of desalination, into the ocean, stricting growth could solve wa where it could impact marine life.

• The need for extensive permits and approvals from local, state and federal agencies.

Other supply options, like tapping must at least be discussed. groundwater, were not recommended by Carollo because there is no guarable. A reservoir at Olympia Quarry, as has been proposed, does not seem to have the council's support because of potential environmental impacts.

City water officials have moved steady pace over the past year to velop a plan to boost the city's wa row the scope of the investigati but there also has been talk that shortage concerns.

The council has not stated supp for a development moratorium, it's in their sights as an option

"How will the growth issue pla part? I don't know," Kocher said know that's an important issue in city. If we do a regional plant, w have to see how important that is what affect that has on such a jo operation.'