

*Construction Set To Begin In July***NEW WATER FILTRATION PLANT OUT TO BID**

The Carmichael Water District Board of Directors unanimously voted March 1 to advertise for construction bids for the District's new water filtration facility. Contractors are being required to submit their bids by 2:00 p.m. Tuesday, May 4, allowing construction to begin in July, with completion scheduled for November 2001.

The Board of Directors has been pursuing the filtration plant project following extensive analysis of possible alternatives, project costs, public health benefits, community benefits, supply reliability, and environmental factors. When completed, the new water treatment facility will benefit the entire Carmichael community by providing higher quality water year-round with lower chlorine levels.

"This facility will be a major project for this area and we expect to receive very competitive bids from the construction companies," noted LaNell Little, general manager.

"Many are eager to build a membrane filtration plant, a relatively new but proven technology that is rapidly becoming popular for its ability to meet current and proposed federal drinking water standards," Little added.

The first plant of this type in our area was completed in 1994 near San Jose, and has been highly successful.

The new plant will be located next to the American River at the District's corporation yard on Bajamont Way. The corporation yard is being relocated to a new site on Fair Oaks Boulevard near California Avenue. The new center will be in operation by June, allowing construction to begin on the filtration plant in July.

The filtration plant will be housed in a residential style building, with a water reservoir occupying the "basement," and the filters, pumps and controls sited on the first floor.

The existing Ranney Collectors—concrete towers located near the American River—will be modified and a major portion of each concrete tower will be removed. This will improve aesthetics along the American River Parkway. The below-ground portion of the collectors will remain as the source of water delivered to the new treatment plant.

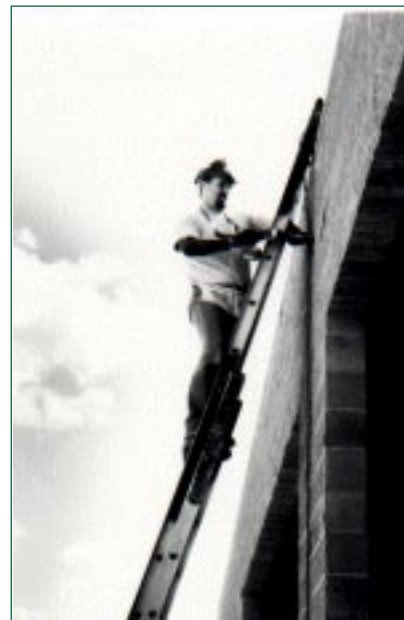
The facility will initially be able to treat 17 million gallons per day, or about 70 percent of peak demand. The balance of needed water supplies will come from existing groundwater wells.

The plant will be expandable, to an ultimate capacity of 22 million gallons per day.

The new water treatment facility is the largest element of the District's ongoing capital improvement program. Other projects will continue also,

including a two-mile-long, 24-inch diameter water pipeline to move more river water to the northern portion of the District; continuing replacement of aging water lines, and installing water meters on commercial, multifamily, park and school properties.

"When the new plant is operational, customers will enjoy a year-round supply of safe water from the



A worker readies the District's new Corporation Yard site along Fair Oaks Boulevard for summer move-in.

American River," Little said. "The improvements will also better protect our facilities from damage caused by future high flows in the river. We are eager to get started."

Annual Water Quality Report

Legend:

ND=Analyzed; None Detected
NTU=Nephelometric Turbidity Unit
PPM=Parts per Million
MCL=Maximum Contaminant Level
MCLG=Maximum Contaminant Level Goal
pCi/l=Picocuries per liter
PHG=Public Health Goal
n/s=No Standard

***Total Trihalomethanes**=sum of results for Chloroform, Bromoform, Dibromochloromethane, and Bromodichloromethane

****Fluoride Standard** Depends on Temperature

In addition to the constituents noted to the right, the Carmichael Water District has conducted monitoring for 39 additional organic chemicals for which the California Department of Health Services has not yet set a standard. All results have been below detection levels. Water quality information is based on data collected from 1991 through 1998.

For additional water quality data, contact Carmichael Water District, 483-2452

PRIMARY STANDARDS--Mandatory, Health-Related Standards Established by Calif. DOHS

PARAMETER	UNITS	MCL	MCLG or PHG	Carmichael Surface Water		Carmichael Ground Water	
				RANGE	AVERAGE	RANGE	AVERAGE
CLARITY							
Turbidity	NTU	5.0	n/a	.08-1.6	0.49	ND-5.5	0.1651
MICROBIOLOGICAL (% test positive)							
Coliform Bacteria		5.0	0	ND-2%	.5%		
ORGANIC CHEMICALS							
Total Trihalomethanes*	PPM	0.1	None	ND-ND	ND	ND-ND	ND
Bromodichloromethane	PPM			ND-ND	ND	ND-ND	ND
Bromoform (THM)	PPM			ND-ND	ND	ND-ND	ND
Chloroform (THM)	PPM			ND-ND	ND	ND-ND	ND
Dibromochloromethane	PPM			ND-ND	ND	ND-ND	ND
Benzene	PPM	0.001	0	ND-ND	ND	ND-ND	ND
Carbon Tetrachloride	PPM	0.0005	0	ND-ND	ND	ND-ND	ND
1,4 Dichlorobenzene	PPM	0.005	(0.006)	ND-ND	ND	ND-ND	ND
1,1 Dichloroethane	PPM	0.005		ND-ND	ND	ND-ND	ND
1,2-Dichloroethane	PPM	0.0005	0	ND-ND	ND	ND-ND	ND
1,1-Dichloroethylene	PPM	0.006	0.007	ND-ND	ND	ND-ND	ND
1,3-Dichloropropene	PPM	0.005		ND-ND	ND	ND-ND	ND
Total 1,3-Dichloropropene	PPM	0.0005	None	ND-ND	ND	ND-ND	ND
Ethylbenzene	PPM	0.68	(0.3)	ND-ND	ND	ND-ND	ND
Monochlorobenzene	PPM	0.03	None	ND-ND	ND	ND-ND	ND
1,1,2,2-Tetrachloroethane	PPM	0.001	None	ND-ND	ND	ND-ND	ND
Tetrachloroethylene	PPM	0.005	0	ND-ND	ND	ND-ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	PPM	0.2	0.2	ND-ND	ND	ND-ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	PPM	0.032	0.003	ND-ND	ND	ND-ND	ND
Trichloroethylene (TCE)	PPM	0.005	0	ND-ND	ND	ND-ND	ND
Vinyl Chloride (VC)	PPM	0.0005	0	ND-ND	ND	ND-ND	ND
Total Xylenes (m,p & o)	PPM	1.75	(1.8)	ND-ND	ND	ND-ND	ND
m.p.-Xylene	PPM	1.75	(1.8)	ND-ND	ND	ND-ND	ND
o-Xylene	PPM	1.75	(1.8)	ND-ND	ND	ND-ND	ND
cis-1,2-Dichloroethylene	PPM	0.006	0.7	ND-ND	ND	ND-ND	ND
trans-1,2-Dichloroethylene	PPM	0.01	0.1	ND-ND	ND	ND-ND	ND
Trichlorofluoromethane (Freon 11)	PPM	150	(0.7)	ND-ND	ND	ND-ND	ND
Trichlorotrifluoroethane (Freon 113)	PPM	1200	(4.0)	ND-ND	ND	ND-ND	ND
INORGANIC CHEMICALS							
Aluminum	PPM	1.0	None	ND-ND	ND	ND-ND	ND
Antimony	PPM	0.006	(0.02)	ND-ND	ND	ND-ND	ND
Arsenic	PPM	0.05	0	0.005-0.005	0.005	ND-0.0025	ND
Barium	PPM	1.0	2	ND-ND	ND	0.026-0.12	0.026
Beryllium	PPM	0.004	.004	ND-ND	ND	ND-ND	ND
Cadmium	PPM	0.01	.005	ND-ND	ND	ND-0.10	0.010
Chromium	PPM	0.05	0.1	ND-ND	ND	ND-ND	ND
Cyanide	PPM	0.2	(0.15)	ND-ND	ND	ND-ND	ND
Fluoride	PPM	1.4-2.4**	(1)	ND-ND	ND	ND-0.2	0.108
Lead	PPM	0.05	(0.002)	ND-ND	ND	ND-0.0071	0.001
Mercury	PPM	0.002	0.002	ND-ND	ND	ND-0.0022	ND
Nickel	PPM	0.1	0.1	ND-ND	ND	ND-ND	ND
Nitrate (as NO3)	PPM	45	(10)	0.4-0.4	0.4	ND-28	4.86
Nitrite	PPM	45	(1)	ND-ND	ND	ND-ND	ND
Selenium	PPM	0.01	.05	ND-ND	ND	ND-ND	ND
Silver	PPM	0.05	None	ND-ND	ND	ND-ND	ND
Thallium	PPM	0.05	0.0005	ND-ND	ND	ND	ND
RADIOACTIVITY							
Gross Alpha Activity	pCi/l	15	None	2.0-2.0	2.0	ND-2.3	1.06

SECONDARY STANDARDS--Aesthetic Standards Established by California Dept. of Health Services

PARAMETER	UNITS	MCL	MCLG/PHG	RANGE	AVERAGE	RANGE	AVERAGE
Color	Units	15	None	ND-ND	ND	ND-3	0.60
Odor-Threshold	Units	3.0	None	1-1	1	ND-ND	ND
Chloride	PPM	500	None	3-3	3	3-33	12.67
Copper	PPM	0.1	(0.17)	ND-ND	ND	ND-ND	ND
Foaming Agents (MBAS)	PPM	0.5	None	ND-ND	ND	ND-ND	ND
Iron	PPM	0.3	None	ND-ND	ND	ND-0.69	0.08
Manganese	PPM	0.05	None	ND-ND	ND	ND-0.29	0.04
Sulfate	PPM	500	None	3.4-3.4	3.4	4-15	7.39
Zinc	PPM	5.0	None	ND-ND	ND	ND-0.016	ND
Total Dissolved Solids	PPM	1000	None	38-38	38	120-305	190
ADDITIONAL CONSTITUENTS							
pH	Units	n/s		6.5-6.5	6.5	6.8-8.1	6.9
Hardness (CaCo3)	PPM	n/s		29-29	29	64-170	101.6
Sodium	PPM	n/s		2.5-2.5	2.5	6.7-22	11.50
Calcium	PPM	n/s		7.4-7.4	7.4	14-32	20.50
Potassium	PPM	n/s		ND-ND	ND	1.1-3.5	2.70
Magnesium	PPM	n/s		2.5-2.5	2.5	5.9-20	11.10

WATER QUALITY REPORT

Carmichael Water District continues to provide its customers with a drinking water supply that is remarkably free of any regulated organic and inorganic chemicals, as the water quality report on page 2 shows.

In recent years the District has increased its water quality monitoring program due to insufficient filtration of its American River water supply. Interim water quality measures have ensured that customers receive safe water.

For the long term, potential problems associated with inadequate filtration will be addressed by the new planned treatment facility, and the District will be able to provide customers with a reliable, high-quality river water supply year-round.

Under Safe Drinking Water Act requirements, the District tests its water supply for compliance with both primary and secondary standards. Primary standards cover those constituents that can pose a health threat, including microbiological contaminants, such as bacteria, and a variety of chemicals. Tests in the latest period show our water complies with the primary standards in all respects.

Secondary standards are not health-related, but address constituents that may affect the taste or odor of your drinking water supply. Again, the District's water supply fully complies with all of these requirements.

The District has recently tested for two constituents of public concern—MTBE, the gasoline additive, and perchlorate, a solvent used at a neighboring industrial site. Neither has been detected in the District's water supply.

For additional information about your water quality, contact the District at 483-2452.



NEW BI-MONTHLY BILLING

Effective with its new fiscal year beginning July 1, 1999, the District will be changing to a bi-monthly billing process. Depending on their billing cycles, customers will receive their first bi-monthly bill in July or August.

"As District costs increase due to construction of the new water treatment plant, the Board of Directors felt it would provide customers with more flexibility to be able to pay their water service charges every two months," said LaNell Little, general manager.

Despite the increased effort required for the billing and payment processing, the District plans to handle the additional work-load with existing staff.

REMINDER: SECOND INSTALLMENT DUE JUNE 20



The second installment of water service charges for customers who pay their bills in two payments is due by June 20. Reminder notices have been sent to customers.

BUDGET HEARING SCHEDULED FOR JULY 6

A public hearing for the District's 1999-2000 budget has been scheduled for 7:00 p.m. Tuesday, July 6, at the La Sierra Community Center, 5325 Engle Road. Preliminary budget forecasts call for a 6 percent increase in the revenue requirement for the District.

PRESSURE ZONE IMPROVEMENT COMPLETE

A project to assist in equalizing water pressures throughout the District has been completed.

The northern portion of the District is already benefiting from higher water pressure, and the southern portion will no longer experience excessive water pressure levels.

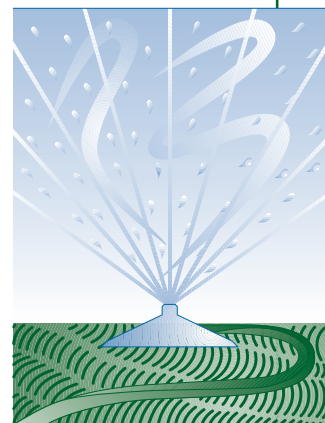
CONSERVATION RULES IN EFFECT

While forecasts for water supplies look good, the Carmichael Water District reminds its customers that there is never enough water to allow waste.

The District is following water use guidelines developed in cooperation with the Sacramento Area Water Works Association. These rules promote odd-even watering schedules, and "waterless" Mondays.

Customers with addresses ending in odd numbers may water outdoors Tuesdays, Thursdays and Saturdays. If your address ends with an even number, landscape irrigation is permitted on Wednesdays, Fridays and Sundays.

With the return of warmer weather, now is a good time to check your sprinkler system to ensure everything is in proper working order and the timer is set correctly.



CARMICHAEL WATER DISTRICT

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SURFACE WATER TREATMENT RULE

This is the twenty-second mandatory quarterly notice to inform customers that Carmichael Water District does not currently comply with the Surface Water Treatment Rule (SWTR). The rule was issued by the federal Environmental Protection Agency and is enforced in California by the state Department of Health Services (DHS).

With the approval of DHS, the Carmichael Water District has modified its water supply operations to ensure that customers continue to receive a safe drinking water supply. These interim measures include increased disinfection with chlorine, a higher reliance on well water, and increased water quality monitoring.

Since the last quarterly update in January 1999, the Board of Directors has issued a request for bids to construct a

UPDATE #22

new water treatment facility that will meet or exceed all federal drinking water safety standards. Bids are to be received by May 4, 1999 and construction is scheduled to begin by early summer. The new facility will be operational by November 2001 (see front page story).

The following language is required to be included in quarterly mailing by agencies not in compliance with the SWTR:

“The State of California Department of Health Services (DHS) sets drinking water standards and has determined the presence of microbiological contaminants in that water may cause disease. Disease symptoms may include diarrhea, cramps, nausea, and possibly jaundice, and any associated headaches and

fatigue. These symptoms, however, are not just associated with disease-causing organisms in drinking water but may also be caused by a number of factors other than your drinking water. DHS has set forth enforceable requirements for treating drinking water to reduce the risk of these adverse health effects. Treatment such as filtering and disinfecting the water removes or destroys microbiological contaminants. Drinking water which is treated to meet DHS standards is associated with little to none of this risk and should be considered safe.”

It is the policy of the Carmichael Water District to provide its customers with sufficient supplies of safe drinking water at all times. If you have any questions regarding this notice, please contact the District at 483-2452.