

20 Billion Gallon Annual Capacity

Expansion at Clearwater Nears Completion

Eight new recharge basins and miles of new pipeline are under construction in Avra Valley at the Clearwater Renewable Resource Facility. The expansion at Clearwater, which should be complete in the next few months, will let us use more of our Colorado River water allotment and increase the amount of blended water we have available.

A total of eleven recharge basins at the facility will bring the total recharge capacity to nearly 20 billion gallons of Colorado River water a year. Water placed in the basins soaks into the earth where it blends naturally with the native groundwater. This blend is then recovered by a series of wells and pumped through a pipeline to Tucson.



The pipeline for the Clearwater Colorado River Water Delivery System was recently completed – new basins are still underway. Here construction workers cover the pipeline with slurry, a mix of water, soil and cement.

*City's Largest Solar
Power Generating Facility
Earns Award*

Powered by the Sun

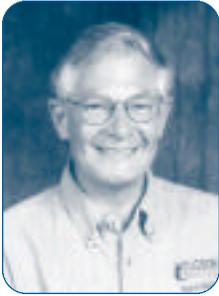
The City of Tucson's largest solar power generating facility has 144 solar panels, generates 72,000-kilowatt hours of electricity annually, and operates pumps and other electronic equipment at the Hayden/Udall Water Treatment Facility in Avra Valley.

The facility was installed and is operated by a partnership of Tucson Water, Tucson Electric Power (TEP), and the Greater Tucson Coalition for Solar Energy. Recently, the City and TEP received the 2002 Solar Electric Power Association award for Sustainable Business Practices. It recognizes the combined efforts that were required to purchase, install, and operate the solar power facility that was partially funded with a \$75,000 grant from the U. S. Department of Energy.

Additional funding came from the City through the "1% for Solar Program" which uses a 1% electric rate reduction from TEP to move the City toward greater usage of solar power as a renewable energy resource.

YOUR WATER Connection

January 2003 <http://www.cityoftucson.org/water/>



On the **Water Front**

We always experience "firsts" during a year, but 2002 was a year of "firsts" for Tucson Water like we've never seen before.

The big one, of course, was our water table. For the first time in 50 years, we saw it begin to rise in some areas

beneath Tucson. That occurred because 2002 was also the first full year that we could rely on the Clearwater Facility to provide us with billions of gallons of blended water, allowing us to turn off a number of groundwater wells in the central City.

It was also the first year in Tucson Water's 101-year history that we delivered more than 160 million gallons of water in a day and set a number of water use records. Last summer's drought put great stress on our water system, but thanks to Clearwater and the hard work of our water operations professionals, we were able to meet your need for water through the hundred plus days without rain.

Tucson Water made great strides in operational areas too. Our Maintenance Management Program that's helping us develop new ways to be more efficient in our jobs, work smarter, and give you, our customers, better service and more value, made great progress during 2002. We also began a Low-Income Assistance Program to help make sure all our customers can afford to have water in their homes. Our financial staff also developed proposed service fees for new water hookups that will help make growth pay for itself by charging a fee to "buy into" our existing water system.

To protect your investment in Tucson's water system, make that system more efficient and perform preventative maintenance, we began in November the third year of our Maintaining the Mains Program, this time working primarily in the north/central area of the City. To make sure you can get even more up-to-date, accurate information about the quality of your water, we used a grant from the U.S. Environmental Protection Agency to install 22 on-line water quality monitoring points throughout our water delivery system. You can find the information those monitoring stations produce on our

web site, as well as more information about the quality of the water in your neighborhood.

2003 will bring more "firsts" to Tucson Water and to our customers as we expand the Clearwater Facility, turn off more City wells, expand our Reclaimed Water system, and enhance our customer service. We'll continue to give you information about these and other projects in this newsletter.

Thank you for your continued confidence in Tucson Water and the many suggestions and comments that you send us about your water system. You can count on Tucson Water to continue to provide you with quality water and excellent service during 2003. Happy New Year from all of us!

David V. Modeer
Director, Tucson Water

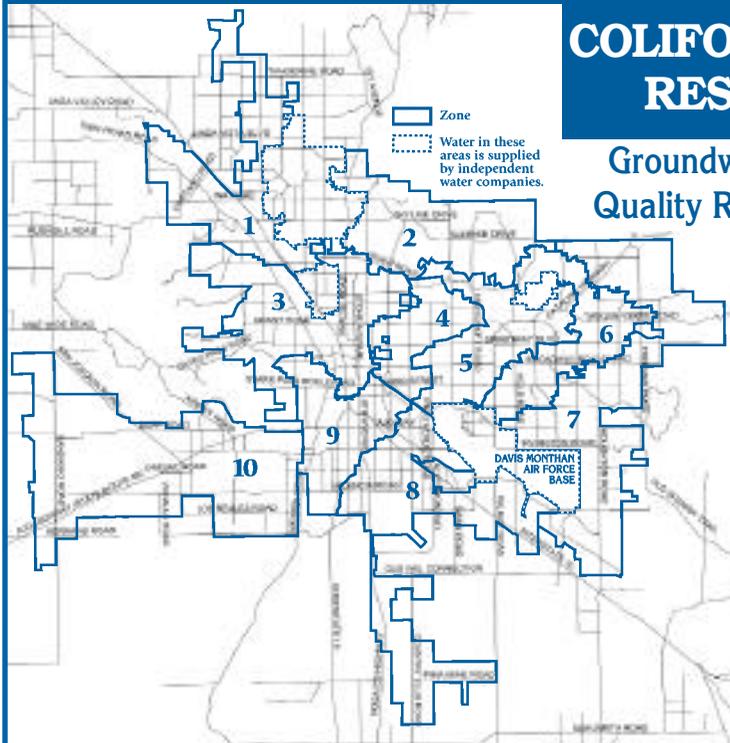
Clearwater Quality Report December 2002

47	Sodium (ppm)
281.4	Mineral Content (ppm)
98	Hardness (ppm)
8.1	pH (units)
Neg	Coliform Bacteria
.097	Chlorine level average (ppm)
83.0	Temp (deg F)

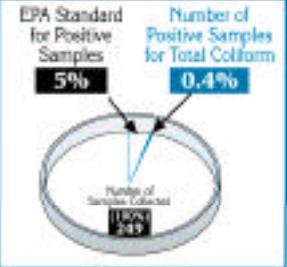
GROUNDWATER QUALITY REPORT - October 2002

Water Quality Zone		1	2	3	4	5	6	7	8	9	10	System Wide
Sodium (ppm)	Average Range	49 48-50	44 40-47	45 26-63	36 28-46	36 28-45	35 25-41	30 21-38	41 37-44	43 38-53	40 39-42	39 21-63
Mineral Content (ppm)	Average Range	377 194-614	285 244-314	303 195-474	243 186-302	248 188-291	245 201-289	229 180-301	335 272-429	248 210-321	219 213-228	268 180-614
Hardness (ppm)	Average Range	229 117-350	120 102-133	137 97-222	91 73-123	106 83-121	104 76-118	115 83-149	166 119-254	88 69-128	76 73-79	117 69-350
pH (units)	Average Range	7.5 7.2-8.0	7.9 7.7-8.1	7.7 7.2-8.1	7.8 7.5-8.1	7.6 7.0-8.1	7.7 6.9-8.1	7.6 7.2-8.0	7.5 7.2-8.0	7.8 7.4-8.2	7.7 7.5-7.9	7.7 6.9-8.2
Temperature (deg F)	Average Range	82 75-86	83 77-86	83 75-88	84 79-89	82 75-87	82 74-89	83 79-87	84 80-91	87 81-90	86 82-89	83 74-91

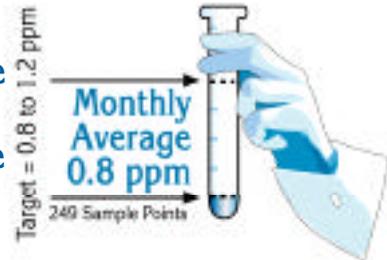
COLIFORM BACTERIA TESTING RESULTS - October 2002



Groundwater Quality Report



Chlorine Level Average



“PPM” means one part per million; 1 ppm = 1 teaspoon in 1,320 gallons

To give you a more accurate measurement of the water quality in your neighborhood, the Tucson Water service area has been divided into 10 zones

based on differences in water pressure and water quality. For a detailed description of the zone boundaries, call 791-4331.

Harvesting Water Works Well Anytime it Rains

Water harvesting – capturing and storing rainfall to irrigate plants – is one of the oldest known gardening methods. You can save water and reduce your water bill by putting the rainfall we receive in Tucson to use on your outdoor landscaping. This is especially valuable during the summer when the majority of the water use is outdoors, but it can work any time of year.

Start with your “catchment.” You probably have some area on your property, like a roof, patio, or driveway that collects rainfall.

You can contour areas so that this water flows directly to planted areas of your yard, or use dikes or berms to direct the runoff. Rain gutters and pipes can also carry water to a storage container and you can then use this water as an alternative source for irrigation.

For more information about water harvesting and water conservation in general, visit Tucson Water’s web site at www.cityoftucson.org/water.



Water\$mart Workshops for Spring 2003

More popular Water\$mart workshops have been scheduled for this Spring. These free workshops, sponsored by Tucson Water, help you design, install, operate, and maintain a water smart drip irrigation system at your home. Workshops also include information on xeriscaping—selecting low water use plants for your garden, and irrigation timers. Class size is limited and reservations are required. Call 622-7701 to reserve your place.

January 25, 2003

UA Ag Farm (Controlled Environment Classroom) 1971 E. Roger Road
9:00a.m.-12:00p.m. Hands-On Drip Irrigation

February 8, 2003

UA Ag Farm (Controlled Environment Classroom) 1971 E. Roger Road
9:00a.m.-12:00p.m. Hands-On Drip Irrigation

February 12, 2003

Tucson Botanical Gardens (Porter Hall)

2150 N. Alvernon Way
9:00a.m.-12:00p.m.
Desert Landscaping

Visit the Tucson Water Web Site at <http://www.cityoftucson.org/water>

The Water Connection is produced by Tucson Water. To receive a copy, or to receive this information in Spanish, call 791-4331 or mail your request to: Customer Information, P.O. Box 27210, Tucson, AZ 85726-7210.

City of Tucson TTY number: 791-2639

Si usted desea este documento escrito en español, por favor, llame al 791-4331.



For more information, visit Tucson Water’s web site at www.cityoftucson.org/water and click on the “events” button.