

**CASTLE PINES  
NORTH**  
METRO DISTRICT

**Future Water Planning Underway  
in Castle Pines North**

**You're  
Invited**

*Learn more about the  
future water needs in CPN  
and share your input:*

**Monday,  
November 7th,  
7 p.m.,  
CPN Community Center  
7404 Yorkshire Dr.**

**For information call  
303-688-8550 or visit  
[www.cpnmd.org](http://www.cpnmd.org)**

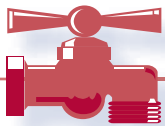
In Colorado, water has always been both a source of life and an agent of change. It is an essential and precious resource. As the Metro District proactively addresses the issue of planning for future water supplies in Castle Pines North, **we invite you to attend a community information meeting scheduled for November 7th, and share your opinions.** (Visit [www.cpnmd.org](http://www.cpnmd.org) for more details.)



While Castle Pines North is not running out of water, the era of inexpensive water is gradually coming to a close. In September, the Metro District selected CDM, a leading engineering firm, to develop an Integrated Water Resources Plan (IWRP).



This plan is designed specifically to transition Castle Pines North from groundwater to a diverse portfolio of renewable water resources. Part of the IWRP also involves searching for creative ways to extend the use of aquifers, and use our water wisely.



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# CASTLE PINES NORTH METRO DISTRICT

## WHO WE ARE.

*Established in 1984, the Castle Pines North Metro District is a quasi-municipal governmental entity that provides water, sewer and storm drain services to more than 3,000 homes and numerous businesses within our community. The Metro District also oversees all parks, trails, and recreation services in Castle Pines North. Our office is located in the Community Center at 7404 Yorkshire Drive. The Metro District has eight full-time employees, one part-time employee and two seasonal employees. Five elected representatives serve on the Board of Directors. For more information, contact District Manager James McGrady at 303-688-8550, ext. 11, or via e-mail at: [jmcgrady@cpnmd.org](mailto:jmcgrady@cpnmd.org).*

The Castle Pines North Metro District newsletter is published quarterly for residents of Castle Pines North. Address story ideas, comments or questions to:

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## Increasing Competition for Water

Throughout the western United States, competition for water continues to increase. By 2030, an additional 2.8 million people are expected to call Colorado home, with almost 2.4 million people living along the Front Range. This growth will require a

great amount of effort to meet water needs throughout the entire state. At the same time, Douglas County and other South Metro communities are currently looking for renewable surface water supplies to supplement our current ground water.



## Our Current Water Source

Castle Pines North, and other South Metro neighbors including Castle Rock, Parker and Highlands Ranch, relies on water drawn from a series of deep bedrock aquifers. The Metro District uses eleven wells to pull ground water from the aquifers. This current water supply is a nonrenewable, limited resource.

## Will Castle Pines North Run Out of Ground Water?

According to the Metro District's water planning consultant CDM, a large amount of ground water is still present within the aquifers. Then what's the problem? The problem is that the costs needed to pump water from aquifers will increase dramatically over time as demands on the aquifer increase.

In the future, the cost to maintain the current supply from the aquifers below Castle Pines North will eventually become more expensive than acquiring renewable surface water.

Additional wells would need to be drilled and stronger pumps may need to be installed. This pattern is not sustainable.

The ideal solution would be to use renewable water during wet years, and use ground water as reserves for dry years. The key to this solution is to begin acquiring surface water and developing a storage, delivery and treatment system for surface water and reuse water before it becomes necessary to drill additional wells.

## Moving Forward for Future Water Needs

The Metro District has engaged CDM to develop the IWRP which will consider multiple approaches designed to meet long-term water needs for Castle Pines North. The CDM team assigned to our project has extensive experience with various water projects, including conducting a statewide water study for Colorado. The initial phase of the IWRP will focus on the following questions:

- **How much water do we need?**  
*Future water demands are being compared to the capacity of existing supplies.*
- **What is the life of our current ground water supply?**  
*CDM is currently conducting extensive aquifer research.*
- **What are our priorities?**  
*Nine objectives are being used to evaluate the various water supply options.*

In the next phase of the IWRP, several water supply and demand management options will be identified as potential ways to meet the need.

The solution to our water supply will not come from one source alone. When completed in mid-2006, the IWRP will enable the Metro District to select the best combination of sources necessary to provide a reliable and sustainable water supply for the future needs of our community.

## Will Rates Increase?

*Water rates will continue to increase all over the Western United States. Why will rates be affected?*

- As competition for renewable water increases along the Front Range, providers will be searching for increasingly distant supplies. While water is available, it's not in the right place. Communities will need to purchase water rights and invest in expensive infrastructure to transport, store and treat this water to meet future needs.
- As demands increase on ground water, more wells are needed to produce the same amount of water.
- Operation costs are increasing.

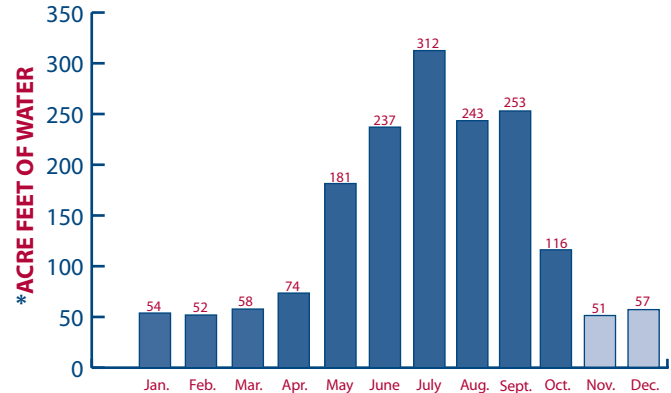
## Conservation is Key

Currently, more than half of the water produced yearly in Castle Pines North is used for summertime landscape irrigation. In fact, the average home in CPN uses over four times more water in the summer months than in the winter. The IWRP will focus on encouraging water conservation and promoting a "water wise" landscape style appropriate to Colorado's arid climate.



CDM will also examine the impact of current conservation programs utilized by the Metro District such as the water budget, water restrictions and rebates. They will also identify new conservation ideas. **The impact of conservation efforts in Castle Pines North will dictate the amount of water needed in the future.**

### CPN MONTHLY WATER USAGE FOR 2005



#### \*What is an Acre-Foot of Water?

*An acre-foot is the amount of water it takes to cover an acre of land to a depth of one foot and equals 325,851 gallons. One acre-foot provides water for two families for one year. Total CPN water usage for 2005 was 1,783 acre-feet. (November and December were estimated based on actual usage from 2004.)*

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## What Are Our Priorities?

As part of our IWRP effort, the Metro District is initiating an outreach program to seek public input on our long-range water supply plans. The Metro District invites you to share your opinions regarding “priorities” for water options. Listed below are these priorities, which will be reviewed in detail at the community information meeting on November 7<sup>th</sup>.

- **Manage Costs**
- **Maintain Acceptable Quality of Life**
- **Water Quality**
- **Improve Reliability**
- **Long-term Sustainability**
- **Technical Implementability**
- **Protect the Environment**
- **Governmental Approval**
- **Timely Implementation**



These objectives are critical for evaluating and measuring options available to the community. Together, with your input, we can include key objectives in the final IWRP which will serve as a road map toward meeting Castle Pines North’s future water needs.

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## How Can You Get Involved?

### Join Us On November 7

*An Invitation from  
Metro District Manager  
James McGrady*



*Castle Pines North residents are invited to learn more about the integrated water resource plan (IWRP) at the first community information meeting on Monday, November 7<sup>th</sup>, at 7 p.m. at the Community Center located at 7404 Yorkshire Drive.*

*This meeting will introduce the IWRP, present preliminary results from the water demand analysis, and solicit your questions and comments. In fact, your input on water priorities is vital to our success. We hope you’ll join us as we move forward and plan for the future water needs of our community. If you are unable to attend and have questions, I invite you to contact me at 303-688-8550, ext. 11, or via e-mail at [jmcgrady@cpnmd.org](mailto:jmcgrady@cpnmd.org).*

Your input is a valuable component in creating the future water strategy for Castle Pines North. Three public meetings will be held to discuss the development of the IWRP, the findings of the analyses, and to receive your input and answer important questions.

For More Information Visit  
▶ [www.cpnmd.org](http://www.cpnmd.org)

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## 80108

**Castle Rock  
or Castle Pines North?**

Many residents in our community think they live in Castle Rock. In fact, while Castle Pines North shares the Castle Rock address and zip code, we actually reside in unincorporated Douglas County. Our community is NOT part of the Town of Castle Rock.

Currently, the Town of Castle Rock is conducting a similar water planning project; however, their program does not include Castle Pines North. Any future direct mailings received at your address from the Town of Castle Rock do not pertain to our community. We simply share a zip code.