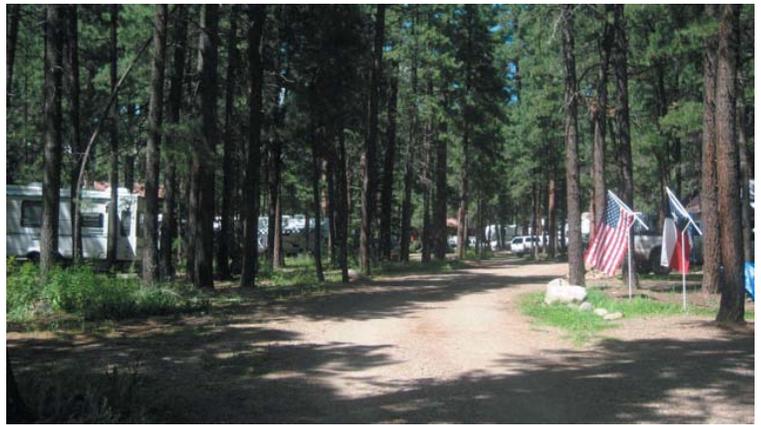


# Sportsman's Supply Campground & Cabins: Understanding Water Conservation

*Using Caroma toilets  
to conserve water and  
maintain and improve  
well water levels*



## Case Study Highlights

**Company:** Sportsman's Supply  
Campground & Cabins  
San Juan Mountains,  
Colorado

### Objectives:

- Water conservation
- Maintain and improve water level in onsite well
- Install durable and long-lasting toilets

**Solution:** Caravelle 270  
Round Front Plus  
High Efficiency Toilet

### Benefits:

- No blockages after more than one year of being installed
- Time and monetary savings because no maintenance has been needed
- Water usage reduced by more than 68%

[www.sportsmancampground.com](http://www.sportsmancampground.com)

Looking for a great outdoor experience and a vacation destination? Interested in preserving the environment? Visit Sportsman's Supply Campground & Cabins in the majestic San Juan Mountains in Colorado.

Just 20 miles Northwest of Pagosa Springs, you can leave the crowds, relax with family and friends, fish, hike, horseback ride, or do nothing at all. The 10 acre campground features 32 full hook-up RV sites, 7 mountain cabins, and a tent area. The remodeled lodge includes new bathrooms, laundry facilities, cooking and meeting areas, pool tables, arcade games, and even books for guests to enjoy.

Jon Reed, owner of Sportsman's Supply Campground & Cabins, understands the need for water conservation, now and into the future. The campground uses one well for all of its water needs. In an effort to maintain and improve the water level and more importantly, protect the environment, Jon researched

high efficiency dual flush toilets (HETs) to replace the three gallon per flush toilets in the lodge and the largest cabin in the short term, with the goal of replacing all toilets on the premises to HETs.

### **The Caravelle dual flush**

After researching several products, Jon chose the Caroma Caravelle 270 high efficiency toilet. "I liked the fact that Caroma was the innovator of dual flush technology," stated Reed. "The ongoing drought in Australia makes water conservation critical, and the technology Caroma has produced to help combat this problem is exactly what's needed."

Sportman's Supply campground not only wanted to conserve as much water as possible, but they required a product that was durable and long-lasting. "During peak season, each toilet in the lodge is used up to 150 times per day. That is a lot of water being used and a big potential for maintenance problems."

Jon Reed is a strong supporter of water conservation, and so is the Pagosa area. The local water and sanitation district has offered several toilet rebate programs, the first in the summer of 2004. The average toilet being replaced was 4.5 gallons per flush. After replacing older toilets with water-conserving ones, the average annual household water use reduced by more than 37 percent. It is estimated that the water savings for the first two years of the program would be 1,781,500 gallons!\*\* Not only is water being saved but also the cost to treat and distribute the water and wastewater, providing even greater environmental and cost savings.

\* [http://www.realestateinfopagosa.com/pagosa\\_central\\_water.html](http://www.realestateinfopagosa.com/pagosa_central_water.html)

\*\* Assumes 1:4 full/half flush

*"I liked the fact that Caroma was the innovator of dual flush technology...and the technology Caroma has produced to help combat {the water conservation} problem is exactly what's needed."*

*Jon Reed  
Owner*

*Sportsman's Supply Campground & Cabins*

### **The features**

The Caravelle high efficiency toilets are dual flush, using 1.6 gallons of water for a full flush and 0.8 gallons of water for a half flush, averaging only 0.96 gallons per flush\*. The Caravelle 270 has a trapway nearly double that of industry average means that blockages are virtually eliminated.



### **The campground benefits**

"I've been very impressed with the Caroma technology," compliments Reed. "The toilets have been installed for more than one year, and we have not experienced a single blockage. Not only that, we haven't had to do any maintenance work on them. That's a great savings for the campground in terms of money and time, so we can work on other projects and spend time with our guests."

The water savings after installing Caroma Caravelle high efficiency toilets at Sportsman's Supply Campground & Cabins have been substantial. Each three gallon toilet was using approximately 450 gallons of water per day during peak season. After the Caravelle toilets were installed, water usage reduced by more than 68% to ~144 gallons per day per toilet. This equates to approximately 41,000 gallons of water saved each year for the 4-5 month camping season.

"The environmental savings as well as cost savings has been incredible," states Reed. "If every family replaced an older water-consuming toilet with a low flow or high efficiency toilet, they would save considerable money from reduced water and sewage costs, and the environment would be cleaner. Every campground, hotel, restaurant...could take part in water conservation by replacing older toilets with Caroma. Everyone wins."

The valve technology used in Caroma toilets is revolutionary. "We haven't had any toilets that leak," continues Reed. "With older toilets that contain flappers, they have a tendency to crack or wear out, but Caroma uses a seal that works. We have not experienced any leaking since the toilets were installed. Less maintenance is always preferred!"



Because of the performance and water savings that have been experienced from the Caravelle toilets, Jon Reed plans to install Caroma toilets in the remaining cabins. "Going 'Green' isn't expensive, and the long-run benefits are worth it. We, the general population, could delay water restrictions for a long time by simply installing a water-efficient toilet, and Caroma is the way to go."

*"The environmental savings as well as cost savings has been incredible. If every family replaced an older water-consuming toilet with a low flow or high efficiency toilet, they would save considerable money from reduced water and sewage costs."*

*Jon Reed*

# Caravelle 270 Round Front Plus



**Slimline design, European styling**

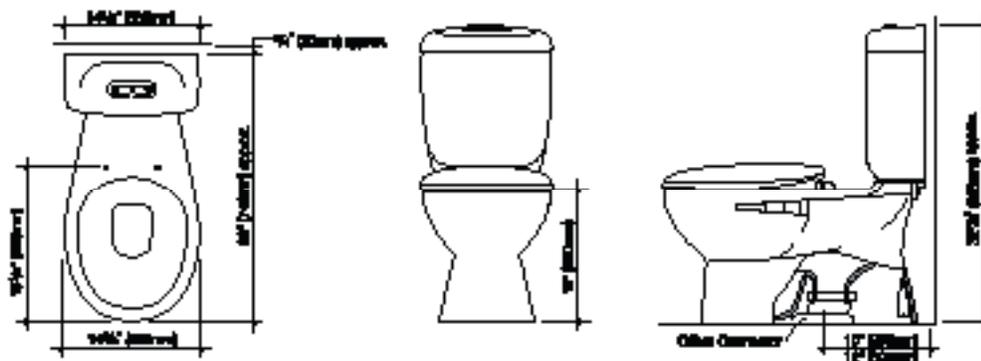
- High efficiency toilet (HET) - 1.6/0.8 gallons (6/3 liters) per flush
- Two piece, two button dual flush toilet
- Large fully concealed trapway
- Virtually unblockable
- 10 - 12" rough-in
- WaterSense-approved

**Dimensions**

29" L x 14 1/4" W x 32 7/8" H (bowl height = 15")

Sydney 270 also available in Easy Height Round Front Plus, Easy Height Elongated, and Elongated.

**Caravelle 270 Round Front Plus**



**Additional information available**

Caroma  
 Phone: +1 800 605 4218  
 Fax: +1 503 681 2150  
 Email: info@caromausa.com  
 Website: www.caromausa.com

