

WaterWatch



Water Storage

The City of Orem manages a very dynamic water supply and distribution system. The water supply system consists of three main sources of water that the citizens use for household and irrigation purposes. These sources are surface water, deep wells, and springs. The surface water contributes to 64% of Orem's supply and is filtered and disinfected at Central Utah Water Conservancy District's Utah Valley Water Treatment Plant in northeast Orem. Currently, eight deep wells produce 24% of Orem's water. These wells are strategically



located throughout the community to provide water during Orem's peak demands. The Alta Springs and the Canyon Springs contribute to the remaining 12% of Orem's water supply. These springs have been developed and refined since the first inhabitants populated this area in the 1800s.

The Orem water distribution network consists of 391 miles of water mains and 121 miles of service lines. Approximately 22,000 residential and non-residential services are connected to the City's distribution system



today. In addition, seven water storage tanks are in operation and owned by the City of Orem. These water tanks have a total capacity of 22.02 million gallons. Individually, they can hold 9.50, 5.00, 3.00, 2.00, 2.00, 0.48, and 0.04 million gallons of City water. Water tanks are critical in the ability to manage the sup-

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Why pile it on the street?

With spring just around the corner, you might be thinking of a landscaping project. One thing to keep in mind is that it is illegal to pile anything on the street or sidewalk.

Stockpiles are all too common a site in the City. These piles are a safety hazard as they can impede pedestrians or automobiles.

If the pile is large enough, it may



obstruct vision. Because of this, stockpiles should never be placed on streets, not even for a few hours.

The other thing to realize is that piles of materials are susceptible to being washed away. Excess sediment is a major cause of storm drain failure. The most common storm drainage feature in the City

(Continued on back)



If you wouldn't drink it, don't dump it!

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Water Reservoir

(Continued from front)

ply and distribution of water in the community. Some people look at these tanks as an enlarged section of pipe that can hold millions of gallons of water. These tanks are critical because they provide flexibility to the water operators when operating the system as demands fluctuate throughout the day... especially during the peak demand months of July and August.



Ellsworth worked over the course of the next next 33 months to build this massive structure. This was a significant milestone for both parties who shared the \$18.5 million cost. This water tank or storage reservoir was dedicated in June of 2008.

Here are some interesting facts regarding the new reservoir:

- Capacity: 20 million gallons
- Diameter: 291 feet
- Sidewall height: 45 feet
- Maximum height: 49 feet
- 8,200 cubic yards of concrete
- 120 tons of rebar
- 127 miles of cable wrapping

Recently, the City of Orem completed a significant project together with the Central Utah Water Conservancy District. In November of 2003, the both parties signed an agreement to jointly fund the construction of a new 20 million gallon storage reservoir. By January of 2004, Carollo Engineers was hired as the engineering consultant. After Carollo completed the design, the construction bid was awarded to Clyde-Ellsworth and construction began in August 2005. Clyde-



Stockpiles

(Continued from front)

is a stormwater sump or dry well. These facilities allow water to infiltrate into the soil, but they can become clogged with dirty runoff.

When you tackle that landscaping job this year, try following these suggestions

- Have stockpiles delivered onto your lawn. Keep them away from gutters, footpaths and hard surfaces.

- You can cover the delivery area with a strong plastic.
- Wait to have materials delivered at a time when they can quickly be put into place.
- Protect stockpiles and materials from wind and rain by storing them under tarps or secured plastic sheeting.
- Schedule landscaping projects for dry weather.
- Place sandbags or gravel bags around the perimeter of the

stockpile to protect the pile from run-on or runoff.

