
Legacy Mountain Water System - UTAH20070

From John Chartier <jchartier@utah.gov>

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To Shane Berry <shane@legacymountain.com>; txmal@hotmail.com <txmal@hotmail.com>

 2 attachments (445 KB)

2026 Capacity Calc 242 Connections.pdf; 2026 Capacity Calc.pdf;

Shane,

In response to your question about the approved number of connections for the Legacy Mountain Public Water System, I can offer the following explanation. It is my understanding that Legacy Mountain Water System currently has 63 active service connections, Legacy Mountain Well #2 that produces 70 gpm along with Fiberglass Tank, Storage Facility ST002 and Storage Facility ST003 that have a combined storage capacity of 60,000 gallons.

According to Utah Administrative Code R309-510; *Facility Design and Operation; Minimum Sizing Requirements*, the source(s) (Wells, Springs) for a public water system shall supply a minimum of 800 gallons per day per connection and a public water system shall provide 400 gallons of storage per connection for indoor use. Code R309-510 also has source and storage requirements for outdoor use, however Legacy Mountain does not allow outdoor watering so outdoor use is not considered.

Considering the current well production of 70 gallons per minute and the minimum design standards from R309-510, the total number of connections that can currently be supplied in the Legacy Mountain Water System is 126 connections. If additional wells or springs are developed to provide a higher source capacity, the maximum number of connections can be increased. It is acceptable for a public water system to grow incrementally and add source and storage as needed.

It is my understanding that the build-out capacity for Legacy Mountain is 242 connections. Applying the minimum design standards from R309-510 to 242 connections calculates that Legacy Mountain Water System will need approximately 135 gpm of total source capacity and approximately 97,000 gallons of total storage capacity. That would require an additional 65 gpm of source and 37,000 gallons of storage. These are rough approximations and any new source or storage proposed shall be evaluated by a professional engineer based on historic water usage records in addition to the minimum design standards mentioned.

I have attached a basic capacity calculation spreadsheet showing the required source and storage requirements for the current 63 connections and the build-out scenario of 242 connections.

Let me know if you have any questions.
John Chartier



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