



# Spanish Fork City Public Works

Culinary Water System  
Presentation  
City Council Meeting  
February 15, 2005



# Spanish Fork City Public Works

## Water System History

- 1<sup>st</sup> Public System – Developed around the turn of the century
- Malcolm Springs - Developed about 1903
- Cold Springs - Developed about 1953
- Crab Creek Springs- Developed 1994
- Pipe Network – Distributes water from the springs to users



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- Where does the water come from?
- Crab Creek Springs – 43%
- Cold Springs – 19%
- Malcolm Springs – 38%
- Cemetery #1 Well
- Ed Clark Well



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Malcolm Springs



Redeveloped 1992



# Spanish Fork City Public Works

## Malcolm Springs Pumphouse



Constructed 1992



# Spanish Fork City Public Works

## Cold Springs Pumphouse



Constructed 1992



# Spanish Fork City

## Public Works

### Cold Springs Pumphouse



Constructed 1992



# Spanish Fork City Public Works

## Cold Springs Pumphouse



Constructed 1992



# Spanish Fork City Public Works

## Upper Crab Creek Springs



Developed 1994



# Spanish Fork City Public Works

Upper Crab Creek Springs



Lower Crab Creek Springs





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## Crab Creek Pipeline



Constructed 1998



# Spanish Fork City Public Works



Crab Creek Pipeline

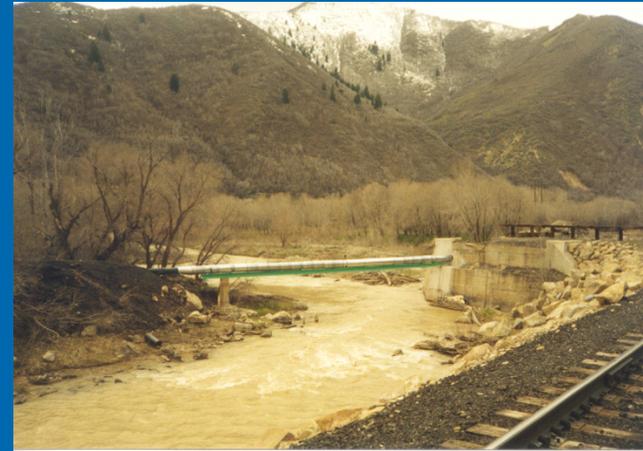


Constructed 1998



# Spanish Fork City Public Works

## Crab Creek Pipeline



Constructed 1998



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3 Million Gallon Reservoir – Upper





# Spanish Fork City Public Works

Inside the 2 Million Gallon Reservoir - Lower





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- How much water do we use each year?
  - 1,161,472,000 Gallons culinary water in 2004
  - Averages over 2200 gallons per minute for every minute of the year!
  - About 80% of culinary water is used in homes
  - 125,564 gallons per home (average)



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- How is the water treated?
  - Spanish Fork City uses gaseous chlorine to disinfect the drinking water
  - The spring water is chlorinated, the well water is not





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- Water Testing
  - Testing at the Sources
    - Nitrates
    - VOC's
    - Pesticides
    - Radionuclides



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## ➤ Water Testing

- Testing in the System
  - Bacteria Testing (Monthly)
  - Lead & Copper (30 every 3 years)
  - Disinfection by-products (Quarterly)



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- Do we add Fluoride to the Water?
  - NO!
  - There is fluoride that occurs naturally in the water from about .2 to .4 mg/L
  - Areas that add fluoride to the drinking water range from .7 to 1.4 mg/L



# Spanish Fork City Public Works

- How hard is the water in Spanish Fork City?
  - Our water has a hardness of 17-21 grains or 362 mg per liter



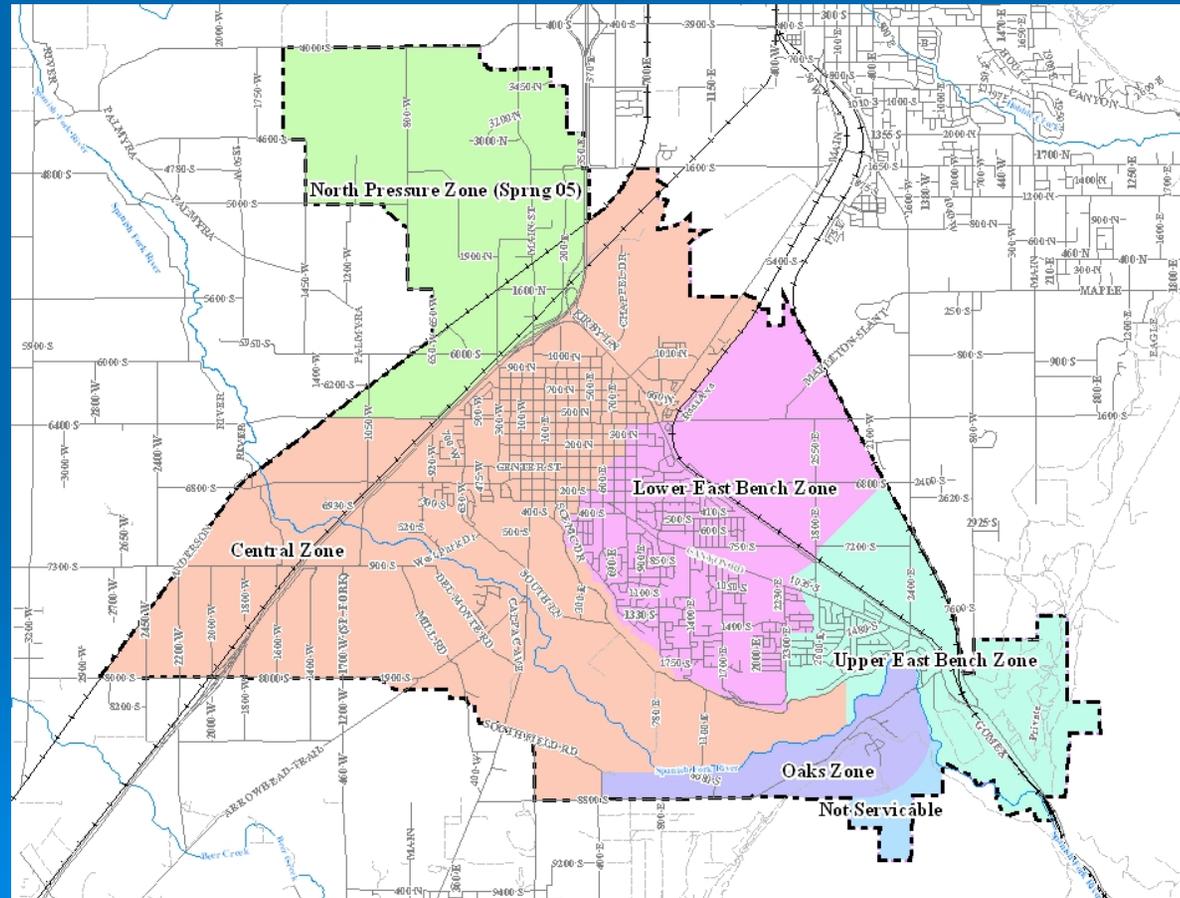
# Spanish Fork City Public Works

- How much water pressure is available to the homes?
  - Spanish Fork City typically provides between 45 and 100 psi in the culinary water system
  - If you live at the upper end of the pressure zone you will be closer to 45 psi
  - If you live at the lower end of the pressure zone you will be closer to 100 psi



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## Pressure Zones





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- What if you have low water pressure?
  - Check with your neighbors
    - Is it a neighborhood problem or is it in your home
    - If it appears to affect other homes, contact the city at 798-5000 during business hours or at 798-5039 after hours
  - Check your pressure regulator



# Spanish Fork City Public Works

[www.spanishfork.org](http://www.spanishfork.org)

Spanish Fork City :: Water Pressure - Microsoft Internet Explorer

Address: <http://www.spanishfork.org/dept/pubworks/util/water/waterpressure.php>

Spanish Fork WWW.SPANISHFORK.ORG CONTACT SITE INDEX

DEPARTMENTS ONLINE SERVICES MAYOR & CITY COUNCIL NEWS & EVENTS ABOUT THE CITY

## Public Works

Information about Building, Engineering, and Utilities.

- [Building Inspection](#)
- [Engineering](#)
- [Utilities](#)
  - [Electric](#)
  - [Pressurized Irrigation](#)
  - [Sewer](#)
  - [Storm Drain](#)
  - [Streets](#)
  - [Water](#)

**Public Works**  
40 South Main Street  
Spanish Fork, Utah  
84660  
[Get Map](#)

Phone: 801-798-5000  
Fax: 801-798-5085  
[Send e-mail](#)

### Water Pressure

Water pressure varies throughout the city depending on the elevation of the home and the time of year.

If your water pressure is too low or too high inside your home you may need to adjust your pressure reduction valve. If you have one, it should be located inside your home where the water enters your house. It will look similar to the picture in Figure 1. Usually you can adjust it by turning the bolt shown in Figure 1 with a standard head screwdriver and an adjustable end wrench (crescent wrench). Turn the bolt in to increase the pressure and out to decrease the pressure.

Pressure Adjustment Bolt 



Figure 1 Pressure Reduction Valve



# Spanish Fork City Public Works

## ➤ Water Line Replacement

- Reasons for Replacement
  - Old Lines – Installed in the 1930's and 1940's
  - Corrosion of existing pipes
  - Undersized Lines
    - Many 4" and 6" Lines
    - Minimum size 8"
    - Fire Flows





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- Water Line Replacement
  - Water lines replaced to date
    - 66 blocks
  - 277 blocks that need replacement
    - Plan about 12 blocks per year
    - 20 to 25 years to complete



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Questions?