

**CHAPTER TEN : UTILITIES & SERVICES**

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| <b>FRONT ROYAL-WARREN COUNTY<br/>UTILITY PROJECT CONTACTS</b> |
|---|

**Water/Sewer, Town of Front Royal**

Jimmy Hannigan,  
Acting Director of Public Utilities  
P.O. Box 1560, 800 Crosby Road  
Front Royal, VA 22630  
(540) 635-7819  
(540) 636-8973 (fax)

**Building Inspector**

David Beahm, Building Official  
220 N. Commerce Ave., Suite 400  
Front Royal, VA 22630  
(540) 636-9973  
(540) 636-4698 (fax)

**Rappahannock Elec CoOp**

Jeff Hinson  
Manager, Blue Ridge Ofc  
137 Kelley Court  
Front Royal, VA 22630  
Phone: 540-622-2001  
800-552-3904  
Email: [jhinson@myrec.coop](mailto:jhinson@myrec.coop)

**Century Link**

450 Remount Road  
Front Royal, VA 22630  
(540) 635-3198  
(800) 816-2648 (fax)

**Warren County Planning**

Taryn Logan, Planning Director  
22 South Royal Avenue  
Front Royal, VA 226630  
(540) 636-9973  
(540) 636-4698 (fax)

**Front Royal Planning**

Jeremy Camp, Planning Director  
P.O. Box 1560, 16 N. Royal Avenue  
Front Royal, VA 22630  
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**Shenandoah Gas**

P.O. Box 2400  
Winchester, VA 22604-1600  
(540) 869-1111 X111  
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**A. ELECTRICITY**

Electricity is provided to Warren County by the Rappahannock Electric Co-Op. Rappahannock provides power directly to the rural County, but the Town of Front Royal purchases electricity wholesale from AmpOhio.

**Electric Rates**

**Residential Rate:**

Access charge: \$5.45/month  
 Distribution charge: \$0.02243/kwh  
 Supply charge: \$0.03918/kwh  
 Wholesale power adjustment:  
 \$0.03471/kwh

**Commercial Rate:**

Access charge: \$7.43/month  
 Distribution charge: \$0.77/kw + \$0.0213/kwh  
 Supply charge: \$1.44/kw + \$0.0403/kwh  
 Wholesale power adjustment: \$0.03471/kwh

**Industrial Rate:**

Access charge: \$37.09/month  
 Distribution charge: \$1.48/kw +  
 \$0.0053/kwh  
 Supply charge: \$6.34/kw + \$0.0222/kwh  
 Wholesale power adjustment:  
 \$0.03471/kwh

**Town of Front Royal:**

| <b>Residential Electric Rates</b> |   |
|-----------------------------------|---|
| Facility Charge                   | \$6.24  |
| Usage Charge                      | \$ .08490 per KWH                                   |
| <b>Commercial Electric Rates</b>  |   |
| Facility Charge                   | \$6.40  |
| Usage 1st 700 KWH                 | \$ .1151 per KWH                                    |
| Usage over 700 KWH                | \$ .0756  |
| Demand                            | For each 1/2 KWH over 7<br>1/2 - 53 KWH at \$ .0395 |

Rappahannock Electric Cooperative provides electric service to over 155,000 connections in parts of 22 Virginia counties. With its general office in Fredericksburg, Va., Rappahannock maintains more than 16,000 miles of power lines through its service area, which ranges from the Blue Ridge Mountains to the tidal waters of the Chesapeake Bay.

REC’s Economic Development representative will calculate estimated rates for prospective businesses at 540-622-5163. The following data is required: Monthly KWH energy usage, monthly peak KW demand, and average power factor.

## **B. WATER SYSTEMS**

### Municipal

The Town of Front Royal supplies water for domestic consumption and fire protection to all developed areas of Town. Water service is also provided to the following parts of the County: a portion of the Browntown Road south of town, Route 340/522-North to the DuPont Plant, Inland Port, FDR Services at Cedarville; Routes 522 and 604 to the 4-H Center in Harmony Hollow; Route 522 South to the National Zoological Park; Route 647 to the Happy Creek loop; and a portion of Route 637 northwest of Town; and a portion of West Duck Street from Cedar Drive to the end of the development.

Water is distributed by gravity flow to over 5,000 customers through an 82-mile network of mains. Charges to individual customers are based on metered flow. Present consumption averages 1.5 million gallons per day, but peak consumption can reach 2.75 million gallons daily.

Water is pumped primarily from the South Fork of the Shenandoah River. Small catchment impoundments on Happy Creek in Harmony Hollow provide a secondary source of raw water by gravity. The principal intake point consists of two 24" intake structures, a pumping station with: a rotating bar screen; three 400 h.p. pumps; a single 24" discharge and backwash capabilities (withdraw permit limit is four (4) M.G.D.). All raw water is stored in a reservoir located at the Water Treatment Plant on Route 522 South.

The filtration plant occupies part of a 15-acre site on Route 522-South. It was built around 1960 and has a design capacity of 3 million gallons per day. Because of the good quality of Shenandoah River waters, the treatment consists of flocculation, sedimentation, sand filtration, and disinfection. Sodium Fluoride, Carbon, Lime, and Aluminum Sulfate are used in the process. Filter bed cleaning (backwash) generates an average of 27,700 gallons of wastewater daily. Currently, this wash water is sent to the Town's Wastewater Treatment Plant via the sanitary sewer system.

Storage of nearly 1.4 million gallons of filtered water is provided at the filtration plant site. Facilities on Guard Hill Road and 55 East each have a 3-million gallon storage capacity. A 100,000 million gallon storage tank is located at the 4-H Center in Harmony Hollow.

### Private

There are 17 private water systems located with the County. They are High Knob, Inc, Shenandoah River Estates, Shenandoah Shores, Dungadin Civic Corporation, Christendom College, Shenandoah Valley Golf Club, Front Royal Golf Club, Bowling Green Country Club, Massanutten Camp Forest, North Fork on the Shenandoah, Three Springs-KOA, and the following mobile parks: Brinklows, Gar-Lil, Andrews, High-Eaton, and Twin Oaks.

**C. SANITARY SEWERAGE SYSTEMS**

Municipal

The Town of Front Royal Wastewater Treatment Plant is currently treating sewage at approximately 68% of design capacity (4.0). The conventional activated sludge plant utilizing equalization, pretreatment, grit removal, primary treatment, aeration, secondary clarification, chlorination, dechlorination, aerobic digestion, thickening, a belt press, septage receiving, and land application of biosolids.

The Town of Front Royal owns a secondary sewage treatment plant that serves all but the Happy Creek Road extended and Old Belmont sections of Town. Sewage collection and treatment is also provided outside of the Town limits to the DuPont Plant, Inland Port, and FDR Services at Cedarville, and to the 4-H Center and the National Zoological Conservation and Research Center in the Harmony Hollow area. A main sewer line also extends into the County along the western bank of the South Fork of the Shenandoah River just outside the Town limits.

Domestic sewage from approximately 5,000 sources is carried by a 48-mile network of trunk and service lines to the Town treatment plant. Two major pumping stations located at Crooked Run on 522 North near the Route 66 interchange and Riverton where the North and South Forks of the Shenandoah Rivers meet are used. Also two minor stations are utilized at the Duncan Farm and the Route 606 industrial park. The wastewater treatment plant's effluent is discharged into the Shenandoah River near the end of Depot Avenue. Sludge removed from the process is land applied to approximately 129 Town owned acres located in the vicinity of the wastewater treatment plant.

Private

There are three private sewage treatment facilities within Warren County. They are North Fork Campground, North American Housing Corporation, and Skyline Caverns.

**D. WATER AND SEWER RATES**

| <b>Front Royal Dept of Public Works<br/>Water &amp; Sewer Rates</b>   |  |
|---|--|
| Water   | First 3,000 gallons \$7.54<br>then \$6.47 per thousand   |
| Sewer   | First 3,000 gallons \$13.10<br>then \$11.27 per thousand |
| 1) Service to out-of-town customers is twice the rate.<br>2) Summer rates apply to sewer in June, July and August if registered for Summer Sewer Program. |  |

**Following are Water, Sewer and Fire Suppression Connection Fees  
for Properties located within the Town of Front Royal:**

Sewer: independent of  
And in addition to  
Installation costs based  
Upon size of the water meter.

| <u>Water Tap Size</u> | <u>Water</u> | <u>Sewer</u>   |
|-----------------------|--------------|----------------|
| 3/4                   | \$ 4,340.00  | \$ 9,750.00    |
| 1 "                   | \$ 8,816.00  | \$ 21,938.00   |
| 1 1/2"                | \$ 16,275.00 | \$ 42,250.00   |
| 2"                    | \$ 25,226.00 | \$ 66,625.00   |
| 3"                    | \$ 49,096.00 | \$ 131,625.00  |
| 4"                    | \$ 75,950.00 | \$ 204,750.00  |
| 6"                    | \$150,544.00 | \$407,.875.00  |
| 8"                    | \$240,056.00 | \$651,625.00   |
| 10"                   | \$344,488.00 | \$936,000.00   |
| 12"                   | \$448,919.00 | \$1,220,375.00 |

  

| <u>Fire Suppression (Dedicated Line)</u> | <u>Front Royal</u> |
|--|--------------------|
| 3"                                       | \$1,720.00         |
| 4"                                       | \$3,439.00         |
| 6"                                       | \$6,879.00         |
| 8"                                       | \$10,318.00        |
| 10"                                      | \$13,758.00        |
| 12"                                      | \$17,198.00        |

**Additional Fees:** installation costs as established by the Department of Public Works.

**Apartment Units:**

Water \$1,920/per unit after first  
Sewer \$1,920/per unit after first

**Single Family/Two Family Dwellings**

Water \$402 each unit  
Sewer \$402 each unit

**Commercial/Industrial Buildings, as defined in Town Code 134-30(H)**

Water \$313 per water closet (toilet)    Sewer \$313 per water closet (toilet)

**Notice for Out-of-Town Properties:** Any utility connection for property located outside the Town’s corporate limit is subject to the connection policies of the Town Council. Specific policies allowing connection are in place for commercial users located in the Route 522 North corridor and all industrial users. Except for a few minor exceptions, the Town has a moratorium on residential connections outside its corporate limits and for commercial connections outside the Route 522 North corridor.

Where connection is permitted, connection fees are 100% higher than in-town rates, except for commercial users in the Route 522 North corridor, where a specific in-lieu of tax fee is charged in addition to the in-town rates.

For additional information, contact the Town of Front Royal Planning and Zoning Department at (540) 635-3732.

*Effective July 2011.*

**E. GAS, OIL, AND COAL****LP Gas**

There are two major distributors of LP gas who serve Warren County: Quarles Energy Services and Holtzman Propane.

Quarles Petroleum, Inc. is located at 195 Commerce Ave. in Front Royal.

AmeriGas Corporation is located at 470 James Madison Hwy. Culpeper, VA.

Blossman Propane is located at 1099 30 W. Main Street, Berryville, VA.

Holtzman Propane, 34 Fort Bowman Road, Strasburg, VA.

**Fuel Oil**

There are four major fuel oil distributors serving Warren County:

H. N. Funkhouser & Co. is a distributor of Exxon and Texaco products. It is located at 206 South Commerce Ave. in Front Royal.

Holtzman Oil, 191 Court Street, Luray, VA.

Quarles Energy Services, Inc. is located at 195 Commerce Avenue, Front Royal, VA.

**Coal**

There are two major sources of coal for Warren County customers, but both companies are located outside of the County. Al Shirley & Sons is located in Winchester and Orndorff's Trucking & Coal is in Strasburg.

**F. SOLID WASTE**

The Town of Front Royal collects refuse and recyclable materials at curbside once a week. The day of collection varies by route and by type of pick-up. This service is provided to residences and businesses; however, many businesses also contract with private haulers for additional or bulk service. Town residents are charged a separate flat monthly fee for waste collection, while businesses are charged fees based on volume collected. Special pick-up of bulk items are offered twice yearly.

The Warren County Transfer Station opened April 6, 1994, which coincided with the closing of the Warren County Landfill. The transfer station is located in Bentonville, Virginia off of State Route 613. The transfer station is open to all Warren County residences and commercial

customers. Currently, there are 5 part-time and 1 full-time employees working at the transfer station.

All commercial trucks are weighed by scale at the transfer station and pay \$50 per ton fee. Currently the waste is being trucked in tractor trailers to the Page County Landfill located on State Route 615 in Page County. Warren County has a 10 year contract with Page County and a clause that can extend the contract. Warren County pays Page County \$40 per ton based on 50 tons per day on a 6 day work week. Warren County has consolidated its collection facilities and now has four compactor sites located around the County. The collection sites are maintained by contract with Browning-Ferris Industries, Inc.

Warren County has a full-time staff Emergency Services Coordinator who supervises disposal practices of hazardous waste in the County. The Coordinator works with the Virginia Department of Waste Management in matching professional cleanup firms with sources of hazardous waste.