



AMHERST COUNTY SERVICE AUTHORITY

**P. O. BOX 100
MADISON HEIGHTS, VA 24572-0100**

**PHONE (434) 845-1605
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August 19, 2011

To: Amherst County Service Authority Board

Subject: Bruce Conner's Request For Public Water Line Extension on Coolwell Road.

Dear Board Members:

After Mr. Conner informed the BOS of his well problems at their last meeting, Mr. Proffitt requested that I contact him and explore possible resolution alternatives. This was done yesterday.

As explained in my letter of 6/25/10 (which was presented at the July, 2010 Authority meeting), there are significant reasons why public water is not currently available on all sections of Coolwell Road. The cost of such a loop water line, with the necessary booster pump stations and water storage tank, was estimated to cost approximately \$1,620,000.00 in 2003. The cost of the booster pump station, storage tank and line, only as far as Mr. Conner's house, was estimated to be roughly \$1,280,000.00 in 2010.

Mr. Conner's well water problem is one of quality. (He indicates the well he uses has not gone dry.) This means a home water treatment system is an option. I referred him to the seven local businesses listed in the Yellow Pages that sell Water Treatment/Conditioning Equipment. One of the whole house filtration systems is advertised for as little as \$800.00. Rarely does the most sophisticated of such systems cost greater than \$5,000.00, installed. Most of these firms will conduct on-site water testing to determine the most cost effective system, at no charge.

Construction of the Coolwell Rd./Izaak Walton Rd. water lines is a recognized community needs and has been identified as a future bond issue project in ACSA's Facility Plan. But, given current economic conditions, it is unlikely this



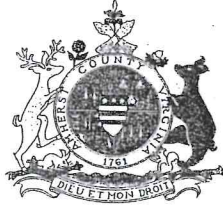
project will be funded in the foreseeable future. In the meantime, Mr. Conner has more cost effective alternatives available to resolve his water quality problem.

Sincerely,

A handwritten signature in black ink, appearing to read "Dan E. French". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Dan E. French
Director of Public Utilities

DEF/ktp



AMHERST COUNTY SERVICE AUTHORITY

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June 25, 2010

To: Amherst County Service Authority Board

Subject: Citizen Request For Public Water Line Extension, North Coolwell Road

Dear Board Members:

Today I was contacted by Bruce Conner, of 671 North Coolwell Road, about the possibility of extending public water service to his home. Mr. Conner lives approximately 1,600 feet beyond the end of public water service. His problem is water quality, not quantity. While ACSA hopes to ultimately provide water service to this area, there are two major stumbling blocks.

- A. The first is one of hydraulics. The North Coolwell road water line ends at the western corner of the Coolwell Recreation Center site, with an elevation of 923'. This is as far as ACSA minimum line pressures can be maintained. (For every 2.31' of elevation rise, 1 psi of line pressure is lost.) According to USGS topo maps, Mr. Conner's home is at an elevation of approximately 965'. If the line were extended, without major accessory structures, the pressure at Mr. Conner's meter would be approximately 12 psi. This would violate not only ACSA's standards, but also VA Dept. of Health's (VDH) standards, proving totally unacceptable. No fire hydrants could be placed on such a line. Even if Mr. Conner were willing to provide a private single structure booster pump, it is unlikely VDH would approve such an extension.
- B. While it is possible to overcome the hydraulics problems, the cost is substantial. The solution would require both a public booster pump station and a new elevated water tank. While a very rough estimate for line extension is \$80,000, the cost of the necessary accessory structures is roughly \$1,200,000. (The Board may recall that, at their request, during construction of the new animal shelter our engineering consultants looked at the possibility of extending public water to the shelter. It was determined impossible to do so, meeting VDH standards, without the above accessory structures.) While an extension, with these accessory structures, is possible it does not appear to be financially feasible, at this time.



These limitations were explained to Mr. Conner. While he remained courteous at all times, he indicated that it was his intention to approach the BOS or Authority Board on this issue. I acknowledged that he had every right to do so, and should if he feels it appropriate.

As a more cost effective alternative, I suggested that since his problem is water quality, rather than quantity, that he look into the possibility of installing a single family water treatment system for his well. Local contractors can often install such systems for \$5,000, or less. He indicated he preferred public water service and would be approaching the Board.

I hope you find this background information useful for when Mr. Conner contacts you.

Sincerely,

A handwritten signature in black ink, appearing to read "Dan E. French", with a long, sweeping horizontal line extending to the right.

Dan E. French
Director of Public Utility

DEF/ktp