

WS
2-28-01

AGENDA

WEDNESDAY, FEBRUARY 28, 2001

6:00 P.M.

COUNCIL WORKROOM

CITY COUNCIL WORK SESSION

VIRGINIA-AMERICAN WATER COMPANY INFRASTRUCTURE

- 1. OPENING COMMENTS**
PHILIP SUNDERLAND, CITY MANAGER
- 2. VIRGINIA-AMERICAN WATER COMPANY INTRODUCTION**
STEVE EDGEMON, VAWC VICE PRESIDENT AND MANAGER
- 3. WATER UTILITY INFRASTRUCTURE**
WILLIAM WALSH, OPERATIONS MANAGER
 - a. Alexandria Infrastructure Condition
 - b. Planning Process
 - c. Current Strategic Plan
 - d. Communication/Notification
 - e. Questions
- 4. CITY COUNCIL DISCUSSION**

Individuals with disabilities who require assistance or special arrangements to participate in the City Council work session may call the City Clerk and Clerk of Council's Office at 838-4500 (TTY/TDD 838-5056). We request that you provide a 48-hour notice so that the proper arrangements may be made.

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Virginia-American
Water Company

2223 Duke Street
Alexandria, VA 22314
(703) 549-7080 - Main
(703) 706-3864 - Direct
(703) 549-7948 - FAX HOME (301) 933-9240
email: BWalsh@VAWC.com

merican Water Company

Received by CC

Duke Street • Alexandria, VA 22314
03) 549-7080 • (703) 706-3860

Steven T. Edgemon
Vice President and Manager

March 8, 2001

Mayor Kerry J. Donley
City of Alexandria
P.O. Box 178
Alexandria, VA 22313

Dear Mayor Donley,

Thank you for the opportunity to discuss Virginia-American Water Company's operation at the recent work session on February 28, 2001. Both Bill and I were delighted with the Council's interest level in what so many people take for granted, water service.

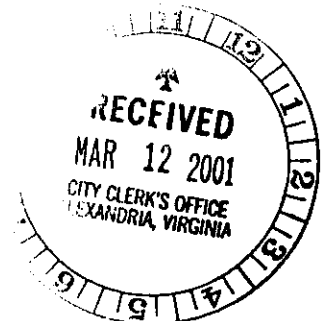
As I expressed during the working session, Virginia-American will be focusing more heavily on infrastructure replacement. Over the next five-year period, we plan to double our expenditures on main replacements. Progress toward reducing the occurrence of main breaks will be monitored closely. Should results not meet our expectations, Virginia-American is prepared to bring to bear additional resources to provide the high level of water service the citizens of Alexandria have come to expect.

Again, thank you for your interest. Attached, please find business cards for Bill and myself. Please call upon either of us, should you have any questions or want additional information.

Sincerely,

Steven T. Edgemon
Vice President & Manager

cc: Phil Sunderland





**Virginia-American Water
Company**

City Council Work Session

February 28, 2001

**How do you assess the condition
of a water utility's infrastructure
when most of the facilities are
underground and not readily
visible?**

**Monitor, Test, Analyze and Study the
Infrastructure**

Monitor Infrastructure

- **Supervisor Control and Data Acquisition (SCADA)**
- **Main Break History**
- **Water Quality**
- **Inspection**
- **Preventative Maintenance**
- **Unaccounted-for Water**

Infrastructure Analysis/Study

- **Development and Growth**
 - Plan Review
 - Flow Testing
 - Computer Analysis
 - Hydraulic design based on max day
 - Entire system reviewed
- **Comprehensive Planning Study (CPS)**

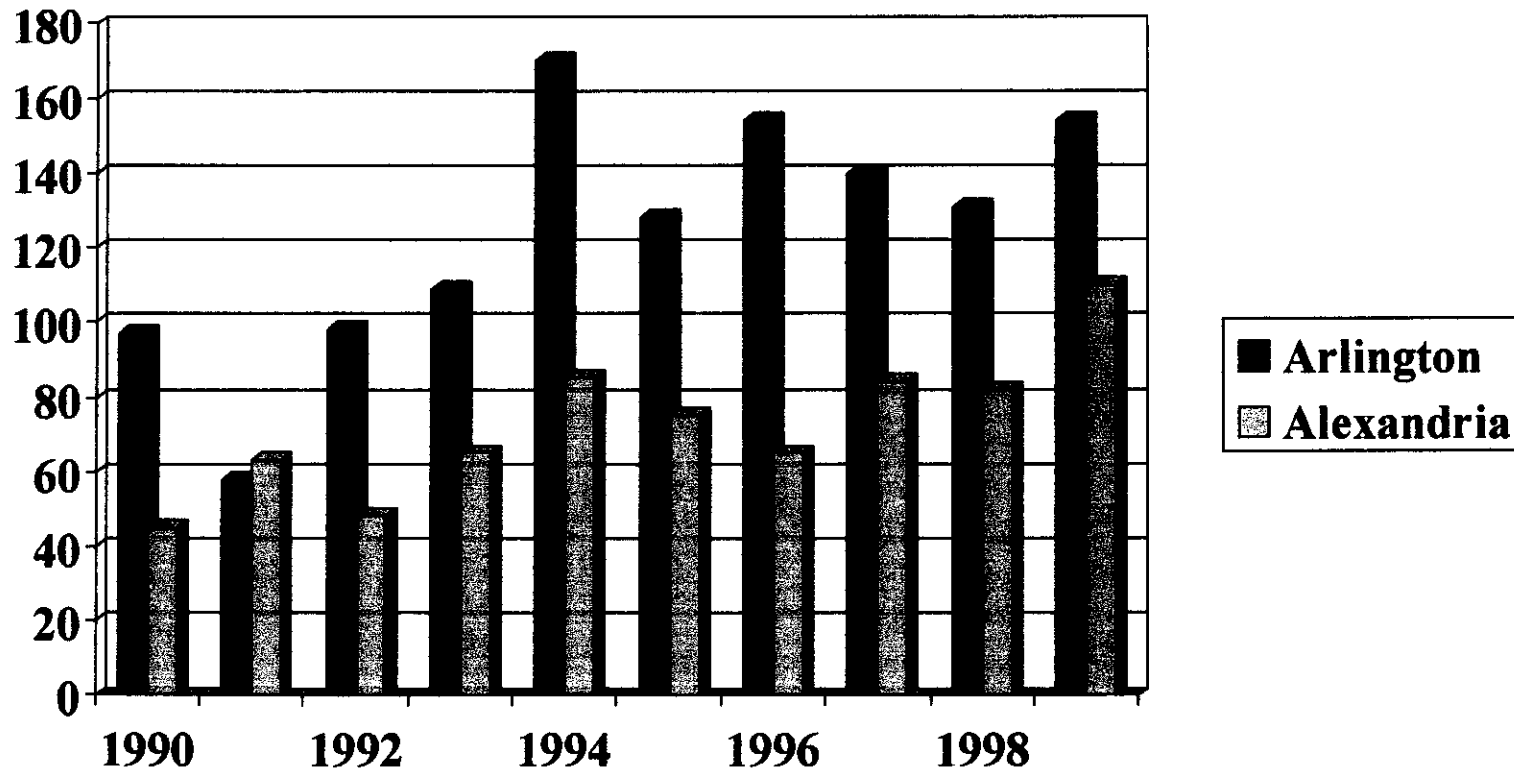
Current Infrastructure Status

- Consistent with our periodic CPS
- Preventative Maintenance Performed
- Quality Construction
- Ductile Iron Pipe and Copper Services
- Immediate response to emergencies and quick repairs
- Unaccounted-for water is better than industry standard

Future Infrastructure Considerations

- Regional Source of Supply
- Regional Treatment Plant Capacity Needs
- Alexandria System Storage Needs
- Reinforcement of Transmission Piping
- Unaccounted-for Water is Up Slightly
- The Number of Main Breaks is Increasing
- Infrastructure Replacement Needs

Water Main Break History



Once we determine the condition of our infrastructure, how do we translate that into a plan with specific projects and appropriate levels of funding?

Extensive Planning Process

Planning Process

- Metropolitan Washington Region Water Systems: COG/ICPRB, FCWA
- CPS: Comprehensive Planning Study
- VAWC Strategic Business Plan
- VAWC Annual Business Plan

Strategic Business Plan

- During the 1990's, VAWC continually invested in Infrastructure
- Reinforcement of Infrastructure
- \$230,000 per year for Main Replacement
- Water Quality Issues
- Y2K Issues

Current Strategic Business Plan

- Increased spending for Infrastructure Replacement
- Specific Projects in 2001 & 2002
- Infrastructure Main Replacement Project starting in 2003
- Infrastructure Main Replacement Project Budget:
 - \$500,000 in 2003
 - \$515,000 in 2004
 - \$550,000 in 2005
- Other Infrastructure Issues

2001 Annual Business Plan

- **VDOT & City Highway Projects**
 - Woodrow Wilson Bridge
 - South Van Dorn Street
 - Mill Road
- **Valve Replacement**
- **Service Lines**
- **Water Meters**
- **Pump Station**
- **Equipment/Vehicles**



2001 Water Main Replacements

- Three Blocks of Duke St.
- One Block of Raleigh Ave.
- Five Blocks of North View Terr.
- Two Blocks of North Howard St.
- One Block of Keller Ave.



Selection Criteria

- Number of main breaks
- Hydraulic issues
 - Excessive velocities
 - Fire flow
 - Low pressure
- Water quality issues
- City Infrastructure Projects and Highway Projects





Virginia-American Water Company

Communication/Notification



Project Communication

- City of Alexandria
- Other Utilities
- Notify residences by hand delivery of notice
- VAWC Inspector
- VAWC Supervisor



Duke Street Main Replacement

- Initial notice in advance
- Hand delivered notice
 - Construction sequence & schedule
 - Contact name & number
- VAWC Inspector on site
- Minimize inconvenience
 - Restricted hours of construction
 - Saw-cut pavement
 - Completed on schedule

Emergency Notification

- **Main Break or Large Service Interruption**
 - During normal working hours we fax:
 - City Manager's Office
 - Police and Fire Departments
 - Emergency Services
 - Art Cole – Deputy Director of T&ES
 - After hours, we contact Ray Wiley, Division Manager for T&ES



Virginia-American Water Company

Questions?

