RiverRenew is a program owned and implemented by Alexandria Renew Enterprises, with support from the City of Alexandria.

1800 Limerick Street | Alexandria, VA 22314
Presentation Outline

• Welcome and Introductions
• Technical Update
  • Waterfront Tunnel Status Update
  • Environmental Studies
  • Potential Haul Routes and Rates
  • Approach to Minimize Community Impacts
• Rate Adjustment Information Sharing
  • “One Water” Costs in Our City
  • Proposed Rate Adjustments
  • Tools to Assist Challenged Customers
• Next Steps
• Public Comment Period

Tonight’s Speakers

Caitlin Feehan
Program Manager

Justin Carl
Program Advisor

Jeff Theerman
Senior Advisor

Amber Ahles
Environmental Specialist
Welcome and Introductions
RiverRenew SAG Member Roles and Responsibilities

**REVIEW AND MONITOR PROGRAM PROGRESS**
Gain awareness and understanding for RiverRenew.

**COMMUNICATE PROGRESS AND SERVE AS SPOKESPEOPLE FOR PROGRAM**
Be a RiverRenew advocate. Disseminate information to networks on progress and increase community awareness of RiverRenew and the benefits it will have for Alexandria.

**RECEIVE INPUT FROM THE PUBLIC**
Solicit feedback on RiverRenew as we advance toward construction.

**ASSIST IN IDENTIFYING COMMUNITY IMPACTS**
Provide feedback on approaches to minimize community impacts.
Permitting Process Update

Environmental Assessment

• Draft Environmental Assessment sections submitted March 11, 2019
• NPS anticipated to publish Final Environmental Assessment by late-April 2019

City Development Special Use Permit (DSUP) Process

• Targeting Planning Commissioning Meeting in June 25, 2019 and City Council Public Hearing on July 9, 2019

Community Listening Sessions anticipated in May 2019*

*Dependent on NPS schedule for final Environmental Assessment
RiverRenew SAG Meeting Topics through 2019

**Planning**
- Now – May 2019

**Design**
- May 2019 – Feb 2020

**Procurement**
- Feb 2020 – Dec 2020

**Construction**
- Dec 2020 – May 2025

**Meeting #1:** SAG Role, Program Overview, and SAG Toolkit – February 2019

**Meeting #2:** Approach to Minimize Community Impacts and Rate Review – March 2019

**Meeting #3:** Listening Sessions No. 2 Preparation – May 2019*

**Meeting #4:** Environmental Assessment Comment Overview – June/July 2019*

**Meeting #5:** Public Art and Community Give Backs – September 2019

**Meeting #6:** Procurement Process and Next Steps – November 2019

*Note: Dependent on NPS schedule for Environmental Assessment issuance
Technical Update
Waterfront Tunnel Status Update
Environmental Studies
Areas of Historic Fill in Relation to Potential Construction Sites

LEGEND
- Historic Fill Area
80 Percent of Excavated Soil from Diversion Facilities is Anticipated to be Clean

Dirty soil limits based Virginia Department of Environmental Quality standards

*Approximate depth of dirty soil

Soil Sample Locations Associated with Phase A Borings
Historic Operations in the Vicinity of Outfall 001

- Standard Oil Company
  Manufactured Gas Plant
- RH Bogle Facility
  Chemical Manufacturing and Fertilizer
- Alexandria Fertilizer
  Chemical Manufacturing & Fertilizer
- Alexandria Town Gas
  Manufactured Gas Plant
- W.A. Smoot
  Coal, Wood, Sand and Gravel Yard

Potential Location for Outfall 001 Diversion Facility

Arsonic attributed to primarily naturally occurring levels
Historic Operations in the Vicinity of Outfall 002

Potential Location for Outfall 002 Diversion Facility

Arsenic attributed to primarily naturally occurring levels
Historic Operations in the Vicinity of Outfalls 003/4 and WRFF

- Duke
- Jamieson
- Historical Operations in the Vicinity of Outfalls 003/4 and WRFF
- Petroleum attributed to primarily naturally occurring levels
- Chlorinated VOCs, PAHs, PCBs, Arsenic, Other Metals, Petroleum
- Petroleum, Arsenic
- Potential Hooffs Run Tunnel Route
- Virgo, Columbia, Company

Notes:
- Virginia Concrete Company
- Petroleum Landfill
- Landfill
- Dry Cleaners
- Alexandria National Cemetery
- Presbyterian Cemetery
- Bethel Cemetery
- Municipal Landfill

Arsenic attributed to primarily naturally occurring levels
Dirty Soil Not Anticipated to Change Worker Safety

Workers required to wear proper protective gear like other construction sites

Potential Routes for Physical Contact with dirty soil

- Inhalation
- Ingestion
- Dermal Contact
Potential Haul Routes and Rates during Construction
Existing Traffic Volumes near Construction Sites

Existing = 1,400 vehicles/day

Existing = 1,300 vehicles/day

Existing = 19,000 vehicles/day

Outfall 002 Site

Counts collected in January 2019. Reported values are totals between the hours of 7AM-6PM

Existing = 17,000 vehicles/day*

*Annual Average Daily Traffic for Eisenhower Avenue from 2017 VDOT Special Locality Report 100 (Alexandria)

WRRF Site

Outfalls 003/4 Site

Existing = 1,400 vehicles/day

Outfall 001 Site

OUTFALL 002 Site

Existing = 1300 vehicles/day

OUTFALL 001 Site

Existing = 19,000 vehicles/day

Existing = 17,000 vehicles/day*

WRRF Site

Outfalls 003/4 Site

Existing = 1,400 vehicles/day

Outfall 002 Site

Existing = 19,000 vehicles/day

Existing = 1,400 vehicles/day

Existing = 1,300 vehicles/day

Counts collected in January 2019. Reported values are totals between the hours of 7AM-6PM

*Annual Average Daily Traffic for Eisenhower Avenue from 2017 VDOT Special Locality Report 100 (Alexandria)
Proposed Haul Routes for All Construction Sites

<table>
<thead>
<tr>
<th>Line</th>
<th>Site</th>
<th>1 Truck Every</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>001</td>
<td>9 mins</td>
</tr>
<tr>
<td></td>
<td>002</td>
<td>11 mins</td>
</tr>
<tr>
<td></td>
<td>003/4</td>
<td>16 mins</td>
</tr>
<tr>
<td></td>
<td>WRRF</td>
<td>5 mins</td>
</tr>
<tr>
<td></td>
<td>Shared</td>
<td>5 mins</td>
</tr>
</tbody>
</table>

Assumes 7AM-6PM Work Hours
Estimated Outfall 001 Trucks per Day during Construction

RiverRenew Peak = 78 trucks/day
(6% of existing traffic volume)

RiverRenew Average = 39 trucks/day
(3% of existing traffic volume)
Estimated Outfall 002 Trucks per Day during Construction

RiverRenew Peak = 84 trucks/day
(6% of existing traffic volume)

RiverRenew Average = 33 trucks/day
(2% of existing traffic volume)
Estimated Duke Street Trucks per Day during Construction

RiverRenew Peak = 48 trucks/day (0.3% of existing traffic volume)

RiverRenew Average = 22 trucks/day (0.1% of existing traffic volume)
Estimated Outfall 003/4 and WRRF Trucks per Day during Construction

RiverRenew Peak = 166 trucks/day (1% of existing traffic volume)

RiverRenew Average = 35 trucks/day (0.2% of existing traffic volume)
Total RiverRenew Estimated Hauling – All Construction Sites

- WRRF Site
- Outfall 001 Site
- Outfall 002 Site
- Outfalls 003/4 Site
- Dirty Soil
Potential Construction Practices for Soil Containment

Wheel Wash  
Tarping  
Street Sweeping  
Hauling Inspector
Comparison of Outfall 001 Diversion Facility Soil Volumes to Other Approved Alexandria Waterfront Projects

Outfall 001 Diversion Facility
20,000 CY excavated soil

Robinson Landing
55,000 CY excavated soil + 15,000 imported soil = 70,000 CY

Robinson Terminal North
68,000 CY excavated soil + 17,000 CY imported soils = 85,000 CY

CY = Cubic Yards
Barging Would Require a 500-mile Round Trip for a Small Amount of Soil

<table>
<thead>
<tr>
<th>Transfer Station</th>
<th>Accepting Excavated Soil?</th>
<th>Approximate Distance from Outfall 001 Diversion Facility (miles)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port Tobacco</td>
<td>No</td>
<td>70</td>
</tr>
<tr>
<td>Craney Island</td>
<td>No</td>
<td>180</td>
</tr>
<tr>
<td>Shirley Plantation</td>
<td>Yes</td>
<td>250</td>
</tr>
</tbody>
</table>

**Barging Challenges**

- Potential schedule impacts
- Cost increases
- Dredging of Potomac River bed may be required
- Stability of pier for construction use at Outfall 001
- Additional permitting requirements
Approach to Minimize Community Impacts
Construction Activities can:

- Generate noise and vibrations
- Generate dust and emissions
- Disrupt parking, traffic, and public transportation
- Disrupt utilities such as water, gas and electricity
Potential Community Impact Mitigation Toolbox

Your Input Requested

Contractor Rules of Engagement
- Contract milestones
- Extensive collaboration
- Reward innovation

Connect and Give Back
- TBM engagement
- Tunnel tours when work complete
- Artist in Residence
- Stream cleanup
- Ceremonies
- Educational installation
- Enhanced restoration

Quality of Life
- Maintain access and services
- 24/7 Hotline
- Dedicated outreach
- Site security
- Street cleaning
- Noise and vibration control
- Scrim
Examples of Mitigation Techniques

Scrim

Enhanced Restoration

Noise Control

Art

Tunnel Tour
Rate Adjustment Information Sharing
Topics for Discussion

- “One Water” Costs in Our City
- Proposed Rate Adjustments Starting July 2019
- Tools to Assist Customers Challenged to Pay
“One Water” Costs in Our City
## AlexRenew and Alexandria Residential Bill Example – Current

<table>
<thead>
<tr>
<th>Current Charges</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wastewater Treatment Charge</td>
<td>27.08</td>
</tr>
<tr>
<td>($6.77 x 4.000 thousands of gallons)</td>
<td></td>
</tr>
<tr>
<td>Base Charge</td>
<td>9.61</td>
</tr>
<tr>
<td>Total Wastewater Treatment</td>
<td>36.69</td>
</tr>
<tr>
<td>City Sanitary Sewer System</td>
<td></td>
</tr>
<tr>
<td>Capital Investment and Maintenance Fee</td>
<td>11.40</td>
</tr>
<tr>
<td>($2.28 x 5.000 thousands of gallons)</td>
<td></td>
</tr>
<tr>
<td>Total Current Charges</td>
<td>48.09</td>
</tr>
</tbody>
</table>
## Virginia American Water Bill Example

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Balance Forward</strong></td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Current Water Service Charge</strong></td>
<td></td>
</tr>
<tr>
<td>Water Service Charge</td>
<td>15.00</td>
</tr>
<tr>
<td>Water Usage Charge</td>
<td>0.00</td>
</tr>
<tr>
<td>Usage charge for volume over 2000 gal</td>
<td>4.71</td>
</tr>
<tr>
<td>Total Water Service Related Charges</td>
<td>19.71</td>
</tr>
<tr>
<td><strong>Other Charges</strong></td>
<td></td>
</tr>
<tr>
<td>WWISC – Infrastructure Svc. Chg.</td>
<td>0.79</td>
</tr>
<tr>
<td>Purchased Water Surcharge</td>
<td>6.40</td>
</tr>
<tr>
<td>Total Other Charges</td>
<td>7.19</td>
</tr>
<tr>
<td><strong>Taxes</strong></td>
<td></td>
</tr>
<tr>
<td>Utility User Tax</td>
<td>4.00</td>
</tr>
<tr>
<td>Total Taxes</td>
<td>4.00</td>
</tr>
<tr>
<td><strong>Total Current Charges</strong></td>
<td>30.90</td>
</tr>
<tr>
<td><strong>Total Amount Due</strong></td>
<td>30.90</td>
</tr>
</tbody>
</table>

- **Base Charge for first 2000 gal based on meter size**
- **Usage charge for volume over 2000 gal.**
- **WWISC infrastructure charge**
- **Fairfax purchased water surcharge**
- **Water utility taxes (15%)**
What is a Stormwater Utility?

• Fee for service

• Dedicated fund for stormwater management

• Based on the cost of service

• Impervious area as measure of a property’s contribution

Source: EPA
Why adopt a Stormwater Utility?

*Most equitable and fiscally responsible manner to:*

- Address state and federal mandates (MS4 Permit) – Chesapeake Bay
- Improve local waterways
- Reduce flooding impacts
Reviewing Alexandria Stormwater Utility Fee Charges

Single Family Residential Fee: Fixed/Tiered

- **Condo**
  - 0.28 ERU
  - $39.20/yr in 2018

- **Townhouse**
  - 0.42 ERU
  - $58.80/yr in 2018

- **Typical Single Family Home**
  - 1.0 ERU
  - $140.00/yr in 2018

- **Large Single Family Home**
  - 1.67 ERU
  - $233.80/yr in 2018

Impervious area greater than 2,800 sq. ft.
### Reviewing Alexandria Stormwater Utility Fee Charges

**Non-Residential Fee: Calculated/Variable**

<table>
<thead>
<tr>
<th>Calculate Variable Fee Example:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Building and parking lot impervious area</td>
<td>6,168 sq. ft.</td>
</tr>
<tr>
<td>1 billing unit</td>
<td>2,062 sq. ft.</td>
</tr>
<tr>
<td>Total billing units</td>
<td>6,168/2,062 = 3</td>
</tr>
<tr>
<td>Multiply by rate for 1 billing unit</td>
<td>3 x $140</td>
</tr>
<tr>
<td>Total fee</td>
<td>$420/yr or $35/mo.</td>
</tr>
</tbody>
</table>

Impervious Area = 6,168 sq. ft.
Alexandria’s Average Annual Residential “One Water” Costs

- **Stormwater**
  - Alexandria $140.00/yr

- **Wastewater**
  - AlexRenew $440.28/yr
  - Alexandria $109.44/yr

- **Drinking Water**
  - Virginia American Water $370.80/yr

- **Total water related utility costs – average single family home**
  - $1060.52/yr
Rate Recommendation Accepted for Public Input by AlexRenew Board of Directors
AlexRenew and Alexandria Residential Bill Example – Current

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</tr>
<tr>
<td>($2.28 x 5.000 thousand of gallons)</td>
<td></td>
</tr>
<tr>
<td>Total Current Charges</td>
<td>48.09</td>
</tr>
</tbody>
</table>

- Volume charge based on metered water consumption
- Base Charge based on meter size
- City Sanitary Sewer Charge
AlexRenew and Alexandria Residential Bill Example – Proposed After July 1, 2019

<table>
<thead>
<tr>
<th>Current Charges</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Wastewater Treatment Charge</td>
<td>30.52</td>
</tr>
<tr>
<td>($7.63 x 4.000 thousands of gallons)</td>
<td></td>
</tr>
<tr>
<td>Base Charge</td>
<td>10.83</td>
</tr>
<tr>
<td>Total Wastewater Treatment</td>
<td>41.35</td>
</tr>
<tr>
<td>City Sanitary Sewer System</td>
<td></td>
</tr>
<tr>
<td>Capital Investment and Maintenance Fee</td>
<td>11.40</td>
</tr>
<tr>
<td>($2.28 x 5.000 thousand of gallons)</td>
<td></td>
</tr>
<tr>
<td>Total Current Charges</td>
<td>52.75</td>
</tr>
</tbody>
</table>

- Volume charge based on metered water consumption ($7.63 per thousand gallons)
- Base Charge based on meter size ($10.83 for residential customers)
- City Sanitary Sewer Charge (No change)

**Difference: $4.66/month**
### Current Charges

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wastewater Treatment Charge</td>
<td>34.00</td>
</tr>
<tr>
<td>Base Charge</td>
<td>12.05</td>
</tr>
<tr>
<td><strong>Total Wastewater Treatment</strong></td>
<td><strong>46.05</strong></td>
</tr>
<tr>
<td>City Sanitary Sewer System</td>
<td></td>
</tr>
<tr>
<td>Capital Investment and Maintenance Fee</td>
<td>11.40</td>
</tr>
<tr>
<td><strong>Total Current Charges</strong></td>
<td><strong>57.45</strong></td>
</tr>
</tbody>
</table>

- **Volume charge based on metered water consumption** ($8.50 per thousand gallons)
- **Base Charge based on meter size** ($12.05 for residential customers)
- **City Sanitary Sewer Charge** (No change)

**Difference from July 2019: $4.71/month**
Equity for Customers

All customers will see the same percentage increase in their AlexRenew charges if meter size and volume of purchased water remains the same.

13% increase over current charges in July 2019

11% increase over July 1, 2019 charges in July 2020

Large Commercial – Multifamily Buildings, Hospitals

High Water Usage
Small Commercial – Restaurants

Low Water Usage Small Commercial – Storefronts, Small offices
How Do We Develop These Numbers?

Sustainability of Operations

Cost of Service Recovery

- Fair and Equitable Rates
- Payment Flexibility

Revenue Stability and Predictability

- Easy to Understand
- Adequate Notice
- Minimize Rate Shock
Calculating AlexRenew Revenue Needs
We look at Current O&M plus 10 years of Capital (less Renewal/Replacement)

- Organizational Competency: $14.3M
- Revenue Stewardship: $2M
- Community Engagement: $1.9M
- Watershed Partnerships: $3.2M
- Operational Excellence: $6.3M
- Capital Improvements: $25
- Customer Bills: $39.2M
- Fairfax Contribution: $11.3M
- Fairfax Contribution: $11.3M
- Debt Service: $15.2M
- IR&R Fund: $6.2M
- Interest Income: $0.1M

IR&R Fund

Customer Bills

Fairfax Contribution

Revenue Stewardship
Calculating AlexRenew Revenue Needs

• AlexRenew has delayed increases in recent years as we defined RiverRenew
• AlexRenew needs 1.25% increases in July 1, 2019 and 2020 for:
  • Increased Costs of Operations and Maintenance
  • Renewals and Replacement of Existing AlexRenew Assets
  • Reduce Financial Risk to AlexRenew
• This small increase does not fund RiverRenew, it provides for the continued operations of the existing system
What It Costs to Build the RiverRenew Program

- 001/002 Tunnel
- Tunnel Dewatering Pump Station
- 003/004 Interceptor Sewer

Building J Facilities Relocation and Decommissioning

Wet Weather Treatment

108 to 116 mgd Expansion

$370M - $555M estimated cost
Calculating RiverRenew Revenue Needs

- RiverRenew is estimated to cost $370M - $555M
- Costs will be more completely defined as:
  - All permits and easements are obtained
  - Preliminary design is completed
  - Procurement of design and construction contracts is completed
  - Designs are completed on RiverRenew Improvements to the AlexRenew Treatment Facility
- Revenue requirements are based upon
  - Recovery from the AlexRenew Customer Rates
  - Use of long term debt
  - Costs of operating the RiverRenew System will not be included until facilities will become operational
Recommend rate increases:

- Provides funding through procurement for most of the program
- Program costs will be much clearer in July 2021
- Other sources of funding may be identified
- Debt issuance approach and amounts will be clear

When RiverRenew Dollars are Scheduled to be Spent

July ‘19 through July ‘21

Legend: 
- Planned Projection
- + 50%
- - 30%
- Actual (FY 2018)
## Full Listing of Rate Adjustment Recommendations Proposed for Implementation Starting July 1, 2019

<table>
<thead>
<tr>
<th></th>
<th>Existing</th>
<th>July 2019</th>
<th>July 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base - Residential</td>
<td>$9.61</td>
<td>$10.83</td>
<td>$12.05</td>
</tr>
<tr>
<td>Base - Commercial</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/8&quot;</td>
<td>$28.83</td>
<td>$32.49</td>
<td>$36.14</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>$28.83</td>
<td>$64.97</td>
<td>$72.29</td>
</tr>
<tr>
<td>1&quot;</td>
<td>$72.07</td>
<td>$81.22</td>
<td>$90.36</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>$144.16</td>
<td>$162.43</td>
<td>$180.71</td>
</tr>
<tr>
<td>2&quot;</td>
<td>$230.65</td>
<td>$259.88</td>
<td>$289.14</td>
</tr>
<tr>
<td>3&quot;</td>
<td>$432.47</td>
<td>$487.28</td>
<td>$542.14</td>
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<td>4&quot;</td>
<td>$720.77</td>
<td>$812.13</td>
<td>$903.56</td>
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<tr>
<td>6&quot;</td>
<td>$1,441.56</td>
<td>$1,624.26</td>
<td>$1,807.13</td>
</tr>
<tr>
<td>8&quot;</td>
<td>$2,306.50</td>
<td>$2,598.81</td>
<td>$2,891.40</td>
</tr>
<tr>
<td>Flow</td>
<td>$6.77</td>
<td>$7.63</td>
<td>$8.50</td>
</tr>
</tbody>
</table>

### Recommendation:
Increase Charges as shown in July 2019 (Fiscal Year 2020) and July 2020 (Fiscal Year 2021)
Customer Assistance Considerations
Cost Impact to Various Household Incomes in Alexandria
(Based on annual costs for a family of 2 adults and 1 child)

- Sum of Basic Living Costs $64,732
- Household Income
  - 20th Percentile $41,100
  - 40th Percentile $72,400
  - Living Wage $68,428
- Median Household Income $89,200

http://livingwage.mit.edu/counties/51510
Suite of Customer Assistance Tools Available

- **Assistance Provided out of Utility Rates**
- **Assistance Funded through Voluntary Programs**
- **Other Assistance Programs**

**Federal and State Assistance Programs**
Tools We Currently Use to Help Customers with Their Payment Challenges

- Partner with City programs
- Leverage AlexRenew outreach programs

- Billing and Collection Practices
  - Extended payment terms
  - Reduce interest on past due accounts
  - Reduce or eliminate late fees
  - Crisis assistance program – Water Fund

- Water Conservation Programs

- Education and Communications
Rate Information Sharing Discussion and Input
Next Steps
## Community Engagement Approach for Rate Education

### Your Input Requested

### Attendance at Community Group Meetings and Events

Examples include:
- Citizens, civic, and homeowner’s association meetings
- April 27 – Earth Day
- April 28 – Rates Education Open House

### Information Sharing through Printed Materials

Examples include:
- Flyer for SAG Members (also included in AlexRenew bill)

### Online and Media Engagement

Examples include:
- River Renewer
- Social media
- Ads in local newspapers

### SAG Member Assistance:

1. Provide additional ideas for engagement
2. After flyer is mailed to you, share information to your networks

### Contact Information

Website: [www.alexrenew.com/know-your-rates](http://www.alexrenew.com/know-your-rates)
Contact: [Askriverrenew@alexrenew.com](mailto:Askriverrenew@alexrenew.com)
703-518-6030
Next Steps

- AlexRenew will schedule Environmental Assessment Community Listening Sessions once NPS publishes Final Environmental Assessment
- SAG Members and AlexRenew schedule next SAG meeting
  - Next SAG meeting focus: Preparation for Environmental Assessment Community Listening Sessions
  - Potential dates below:
    - Monday, April 29
    - Tuesday, April 30
    - Wednesday, May 1
    - Thursday, May 2
Public Input
Combined Alexandria Wastewater Service Costs are Below the Regional Survey Average

Based on 174 wastewater utility responses: Including Alexandria Renew Enterprises, Fairfax County WWMP, Hampton Roads San. Dist., Upper Occoquan SA, Hopewell RWTF, Prince William County SA, and Chesterfield County Utilities

Alexandria 2018 annual wastewater services (AlexRenew plus the City of Alexandria)

$550 per year