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

1800 Limerick Street | Alexandria, VA 22314
Tonight’s Speakers

Caitlin Feehan
RiverRenew Program Manager

Justin Carl
RiverRenew Program Advisor

Kelvin Coles
RiverRenew Civil/Hydraulics Lead

Sheeva Noshirvan
RiverRenew Community Outreach Specialist
Presentation Outline

• Welcome and Introductions
• RiverRenew SAG Roles and Responsibilities
• RiverRenew Overview
• Technical Update
• Performance, Schedule, and Cost
• Rate Schedule
• RiverRenew SAG Toolkit
• Next Steps
• Public Questions
Welcome and Introductions
RiverRenew Stakeholder Advisory Group (SAG) Introductions

1. Why did you want to be a part of this SAG?
2. What do you expect to come out of this group?

<table>
<thead>
<tr>
<th>Area of Representation</th>
<th># of Members</th>
<th>Description</th>
<th>Nominee</th>
</tr>
</thead>
</table>
| Outfall 001             | 1            | • Nominated by the North Old Town Independent Citizens’ Association  
                         |              | • Resident or business near Tobacco Quay, Oronoco Waterfront Residences or Rivergate  
                         | 1            | • Erik Olson  
                         |              | • Bill Hillner |
| Outfall 002             | 1            | • Nominated by the Old Town Civic Association  
                         |              | • Resident, business, or non-profit near South Royal/Green Streets  
                         | 1            | • Yvonne Callahan  
                         |              | • Kate Mackenzie |
| Outfalls 003/4          | 2            | • Nominated by the Eisenhower Partnership  
                         |              | • Resident or business of the Carlyle community or Duke Street corridor  
                         | 1            | • No formal nominee |
|                         |              |             |         |
| AlexRenew Customer      | 2            | • At-large residents with interest in RiverRenew  
                         |              | • Dan Bradfield  
                         |              | • Ivy Whitlatch |
| City-wide Organizations | 1            | • Nominated by Environmental Policy Commission  
                         | 1            | • Nominated by an Alexandria business group  
                         |              | • Nominated by the Park and Recreation Commission  
                         | 1            | • Geoff Goode  
                         |              | • Mary Ann Burstein  
                         |              | • Liz Birnbaum |
| At-large                | 2            | • Resident with engineering, environmental, financial or related experience  
                         |              | • Ron LaFond  
                         |              | • Karen Halbrecht |
| Total                   | 13           |             |         |
RiverRenew SAG Roles and Responsibilities
Understanding Your Role as RiverRenew Ambassadors

**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 MINIMIZING COMMUNITY IMPACTS**
Provide feedback on approaches to minimize community impacts.
Ground Rules for the RiverRenew SAG Meetings

1. Every person in the group gets a chance to speak once before anyone speaks twice.

2. Be explicit when you speak whether you are speaking for yourself, or sharing input provided by those you represent.

3. Be aware of assumptions, especially your own. Talk about them.

4. Suspend judgment, even when you disagree.

5. Avoid repeating what was just said; instead build on previous comments or identify new thoughts to contribute.

6. Finally, help the facilitator enforce these ground rules.
RiverRenew SAG Meeting Topics through 2019

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

**Meeting #2:** Approach to Minimize Community Impacts and Rate Review – March/April 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
Background
RiverRenew is owned and implemented by Alexandria Renew Enterprises, with support from the City of Alexandria.

In July 2018, the ownership of the four outfalls and regulatory compliance responsibilities to remediate the outfalls were transferred from the City of Alexandria to AlexRenew.

- Single entity efficiency
- AlexRenew Water Resource Recovery Facility central to the solution
- Experience and technological expertise
- Leverage planned projects at AlexRenew Water Resource Recovery Facility
- Simplified permitting

Led by a five-member citizen board, Alexandria Renew Enterprises (AlexRenew) is a special-purpose wastewater authority. AlexRenew treats an average of 35 million gallons of wastewater per day at their Water Resource Recovery Facility (WRRF).
Alexandria’s One Water System

- **AlexRenew (Wastewater Treatment and Base Charges)**
- **Virginia American Water (Drinking Water Fee)**
- **City of Alexandria (Stormwater Utility Fee)**
- **City of Alexandria (Capital Investment & Maintenance Fee)**
- **AlexRenew (Outfall Only)**
Alexandria’s Combined Sewer System and 2017 Virginia Law

544 total acres of combined sewer system owned by City of Alexandria

390 acres of impervious area

4 outfalls owned by AlexRenew as of July 2018

<table>
<thead>
<tr>
<th>Outfall</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>4-6 overflows per year</td>
</tr>
<tr>
<td>002</td>
<td>80% bacteria reduction</td>
</tr>
<tr>
<td>003</td>
<td>99% bacteria reduction</td>
</tr>
<tr>
<td>004</td>
<td>99% bacteria reduction</td>
</tr>
</tbody>
</table>

New controls in place by July 1, 2025
Approved Plan to Address Discharges from Outfalls

- **Storage/conveyance tunnel** to control overflows from Outfalls 001 and 002
- **Conveyance tunnel/sewer** to control overflows from Outfalls 003 and 004
- **Wet weather treatment facility** at AlexRenew’s Water Resource Recovery Facility
- **Upgrades** to AlexRenew’s Water Resource Recovery Facility

Approved by Virginia Department of Environmental Quality on June 29, 2018
The project requires many levels of agency coordination.

Federal Agency Approvals
- NEPA
- Special Use Permit
- Construction and Right of Way Permit
- ARPA Permit
- Clean Water Act Permit

State Agency Approvals
- Submerged Lands Permit
- Land Use Permit
- Consent for Encroachment
- Clean Water Act Permit
- Construction General Permit
- VPDES Permit(s)

Consulting State Agencies
- Archaeology
- Landowner Easements
- Hauling Permit
- Demolition Permit
- Mechanical Permit

Consulting Federal Agencies
- DSUP
- Excavation Permit
- Grading Permit
- Building Permit
- Right-of-Way Permit

City Approvals
Environmental Assessment Overview and Status
Proposed Tunnel Routes and Facility Locations

### 001/2 Tunnel Routes*

<table>
<thead>
<tr>
<th>East-West</th>
<th>North-South</th>
</tr>
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<tbody>
<tr>
<td>Green Street</td>
<td>Lee Street</td>
</tr>
<tr>
<td>Church Street</td>
<td>Union Street</td>
</tr>
<tr>
<td>Potomac River</td>
<td></td>
</tr>
</tbody>
</table>

*over 100 feet deep

### 003/4 Tunnel Routes

<table>
<thead>
<tr>
<th>Option</th>
<th>Approx. Depth</th>
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<tr>
<td>Deep</td>
<td>100 feet</td>
</tr>
<tr>
<td>Trenchless</td>
<td>20 to 40 feet</td>
</tr>
<tr>
<td>Open-Cut</td>
<td>10 to 20 feet</td>
</tr>
</tbody>
</table>

*over 100 feet deep

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**LEGEND**
- AlexRenew
- National Park Service (Federal Property)
- Existing Outfall
- Potential Diversion Facility Location
- Tunnel Dewatering Pumping Station/Mining Shaft
- Potential Alignment Alternatives
- Historic District (Old Town)
Tunnel routes and facility locations are being evaluated through the development of an Environmental Assessment to comply with the National Environmental Policy Act.

- National Park Service (NPS) requires permits from RiverRenew due to tunnel routes and locations running through NPS land, which triggers the National Environmental Policy Act.
- NPS determined an Environmental Assessment is required.
- Consideration of historic resources (Section 106) will be completed in conjunction with the Environmental Assessment and Clean Water Act permitting.
Projected Environmental Assessment Timeline*

*Note: Dependent on NPS schedule for Environmental Assessment finalization
In October 2018, we received 150 comments with similar themes from the community.

001/2 Tunnel System
• Minimize community impacts
• Community preference toward Potomac-Church alignment

Outfall 001 Diversion Facility
• Minimize community/park impacts
• Strong community preference toward RTN and/or Oronoco Bay Park East

Outfall 002 Diversion Facility
• Minimize residential/garden impacts
• Strong community preference for southernmost alternatives (Royal Street or Royal Street South)

Outfall 003/4
• Community support for shallow options with preference toward open-cut along Hooffs Run
• Business owners along Duke Street strongly oppose deep tunnel alternative

General Comments
• Concerns regarding truck haul routes and contaminated soil/groundwater
• Minimize impacts to historic structures and resources
Community Engagement Process
## Community Engagement Look-Ahead for All Program Phases

<table>
<thead>
<tr>
<th>PLANNING</th>
<th>DESIGN</th>
<th>PROCUREMENT</th>
<th>CONSTRUCTION</th>
<th>ONGOING</th>
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<tbody>
<tr>
<td>Gain acceptance of</td>
<td>Ensure design plans</td>
<td>Prepare public for</td>
<td>Mitigate impacts</td>
<td>Program updates to RiverRenew website</td>
</tr>
<tr>
<td>preferred alternative</td>
<td>preferred alternative</td>
<td>construction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engage residents at</td>
<td>Expand efforts to connect</td>
<td>Build community</td>
<td>Host milestone</td>
<td>Updates to outreach collateral materials</td>
</tr>
<tr>
<td>community meetings and</td>
<td>with residents citywide</td>
<td>partnerships</td>
<td>events</td>
<td></td>
</tr>
<tr>
<td>online</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduce rate increase</td>
<td>Create learning opportunities</td>
<td>Launch social</td>
<td>Leave a legacy</td>
<td>Civic association outreach</td>
</tr>
<tr>
<td></td>
<td></td>
<td>platform for</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>daily engagement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXAMPLE</td>
<td>Host hands-on booths</td>
<td>Partner with</td>
<td>Tour construction</td>
<td>Ensuring program</td>
</tr>
<tr>
<td>Launch e-newsletter;</td>
<td>at schools and weekend events</td>
<td>Archaeological</td>
<td>sites with VIPs,</td>
<td>information is up to</td>
</tr>
<tr>
<td>hold Listening</td>
<td></td>
<td>Commission to</td>
<td>student groups,</td>
<td>date on both internal</td>
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<tr>
<td>Sessions</td>
<td></td>
<td>create multi-media</td>
<td>and adults</td>
<td>and external materials</td>
</tr>
<tr>
<td></td>
<td></td>
<td>display featuring</td>
<td>interested in</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>sewer artifacts</td>
<td>engineering feats</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Actions**

- Gain acceptance of preferred alternative
- Ensure design plans mitigate impacts
- Prepare public for construction
- Mitigate impacts
- Program updates to RiverRenew website
- Engage residents at community meetings and online
- Expand efforts to connect with residents citywide
- Build community partnerships
- Host milestone events
- Updates to outreach collateral materials
- Introduce rate increase
- Create learning opportunities
- Launch social platform for daily engagement
- Leave a legacy
- Civic association outreach
- Launch e-newsletter; hold Listening Sessions
- Host hands-on booths at schools and weekend events
- Partner with Archaeological Commission to create multi-media display featuring sewer artifacts
- Tour construction sites with VIPs, student groups, and adults interested in engineering feats
- Ensuring program information is up to date on both internal and external materials and channels
Technical Update
Tunnel System Overview
Major Tunnel System Components

Diversion Facility

Hooffs Run Tunnel (open-cut)

Waterfront Tunnel
Soil Layers in Alexandria
Soil samples collected as part of the RiverRenew Boring Program

<table>
<thead>
<tr>
<th>Fill</th>
<th>Alluvium</th>
<th>Terrace</th>
<th>Potomac Clay</th>
<th>Potomac Sands</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silty sand with gravel and can contain signs of humans (bricks, newspaper, wood, wire, debris, etc.)</td>
<td>Loose soil that has been eroded, reshaped by water, and redeposited. Can contain silt, sand, clay, and gravel</td>
<td>Dense sand and gravel that can contain cobbles and boulders</td>
<td>Very stiff clay that can contain layers and lenses of sand</td>
<td>Dense sands of varying particle sizes and distributions that can contain varying amounts of fines</td>
</tr>
</tbody>
</table>
Waterfront Tunnel will be constructed using a TBM.
Herrenknecht Video on Tunnel Construction (9 min)

https://www.youtube.com/watch?v=fVidVJ30ob4
Drop Shaft Components

1. Temporary Support Walls
2. Temporary Bottom Stability Element (ground improvement or structural slab)
3. Permanent Liner
4. Internals
5. Tunnel Penetration Reinforcement
6. Cover (not shown)
Drop Shaft – Construction Sequence

• Temporary Support Walls
• Excavate
• Ground Improvement
• Install a Base Slab or Working Slab
• Cast a Break-Out Collar for Reinforcing Future Tunnel Openings
• Install Cast-In Place Liner
• Tunnel Into and/or out of shaft
• Build Internals (e.g., hydraulic structures to drop flows from near surface to tunnel level)
• Finished Shaft can be covered and out of sight
Drop Shaft – Construction Sequence

- Temporary Support Walls
- **Excavate**
- Ground Improvement
- Install a Base Slab or Working Slab
- Cast a Break-Out Collar for Reinforcing Future Tunnel Openings
- Install Cast-In Place Liner
- Tunnel Into and/or out of shaft
- Build Internals (hydraulic structures to drop flows from near surface to tunnel level)
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Drop Shaft – Construction Sequence

- Temporary Support Walls
- Excavate
- **Ground Improvement**
- Install a Base Slab or Working Slab
- Cast a Break-Out Collar for Reinforcing Future Tunnel Openings
- Install Cast-In Place Liner
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- Finished Shaft can be covered and out of sight
Outfall 001 Construction Sequence Example
Outfall 001 Diversion Facility Alternatives (1 of 2)
Outfall 001 Diversion Facility Alternatives (2 of 2)

**Oronoco Bay Park North**

**Oronoco Bay Park South**
Phase 1: Site Mobilization

3 months
Phase 2: Cofferdam Installation

8 months

Sheet pile installation

Work within sheet pile wall

Finished sheet pile wall

Braced sheet pile wall

Sheet pile hammer
Phase 3: Shaft Construction

10 months

Shaft excavation support installation

Shaft excavation

Finished shaft excavation support
Phase 4: Near Surface Structures

9 months

- Excavation support and flume
- Concrete formwork and pours
- Reinforcing installation
- Equipment installation (where necessary)
Phase 5: TBM Removal & Shaft Fit-out

4 months

- TBM removal
- Shaft internal concrete (lower shaft)
- Shaft internal concrete (upper shaft)
- Shaft cover and backfill
Phase 6: Site Restoration

2 months
Outfall 002 Conceptual Restoration
Outfall 002 Existing Conditions
Royal Street North Diversion Facility Conceptual Landscape Plan

Note: National Park Service Jurisdiction
Hooffs Run Tunnel Conceptual Restoration
Hooffs Run Tunnel Alternatives Under Consideration

- **Tunnel** (100-ft deep)
- **Microtunnel** (40-ft deep)
- **Open-cut** (10 to 20-ft deep)

**LEGEND**
- Manhole
- Existing Outfall
- Potential Alignment Alternatives
- Shaft
Open-cut: Parallel vs. Replace Commonwealth Interceptor
Proposed Structures Near Duke Street for Open-cut Option
Hooffs Run Renderings – Potential Stream Restoration Option
Jamieson Avenue to Duke Street

Rendering, Looking North from Jamieson Avenue
Hooffs Run Renderings – Potential Stream Restoration Option
Eisenhower Avenue to Jamieson Avenue

Rendering, Looking South from Jamieson Avenue
Hooffs Run Renderings – Potential Stream Restoration Option
AlexRenew to Eisenhower Avenue
Performance, Schedule, and Cost
Summary of Performance Requirements per 2017 Virginia Law

<table>
<thead>
<tr>
<th>Outfall</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>4-6 overflows per year</td>
</tr>
<tr>
<td>002</td>
<td>80% bacteria reduction</td>
</tr>
<tr>
<td>003</td>
<td>99% bacteria reduction</td>
</tr>
<tr>
<td>004</td>
<td>99% bacteria reduction</td>
</tr>
</tbody>
</table>

New controls in place by July 1, 2025
Summary of Performance Data
Average Number of Overflow Events per Year (2000-2016)

<table>
<thead>
<tr>
<th>Outfall 001</th>
<th>Average Number of Overflow Events per Year (2000-2016)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Existing Conditions: 36.6</td>
</tr>
<tr>
<td>Outfall 002</td>
<td>Existing Conditions: 46.3</td>
</tr>
<tr>
<td>Outfall 003</td>
<td>Existing Conditions: 69.4</td>
</tr>
<tr>
<td>Outfall 004</td>
<td>Existing Conditions: 44.4</td>
</tr>
</tbody>
</table>

Notes:
1. Based on 15-minute rainfall data from Ronald Reagan Airport
2. Assumes Water Resource Recovery Facility (WRRF) dry weather flow of 54 MGD
Summary of Performance Data
Average Overflow Volume per Year (2000-2016)

<table>
<thead>
<tr>
<th>Outfall 001</th>
<th>Existing Conditions</th>
<th>62.4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outfall 002</td>
<td>Existing Conditions</td>
<td>38.1</td>
</tr>
<tr>
<td>Outfall 003</td>
<td>Existing Conditions</td>
<td>30.5</td>
</tr>
<tr>
<td>Outfall 004</td>
<td>Existing Conditions</td>
<td>8.0</td>
</tr>
</tbody>
</table>

Notes: 1. Based on 15-minute rainfall data from Ronald Reagan Airport
2. Assumes Water Resource Recovery Facility (WRRF) dry weather flow of 54 MGD
Summary of Performance Data

Average Systemwide Percent Capture (2000-2016)

Existing System

- 78.2%

Following Implementation of RiverRenew Facilities

- 97.6%

Percent Capture

0% 5% 10% 15% 20% 25% 30% 35% 40% 45% 50% 55% 60% 65% 70% 75% 80% 85% 90% 95% 100%
How would RiverRenew have performed in the wettest year on record (2018)?

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Existing Conditions</th>
<th>Following Implementation of RiverRenew Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Average (Years 2000-2016)</td>
<td>Year 2018</td>
</tr>
<tr>
<td>Annual Overflow Volume (MG)</td>
<td>140</td>
<td>332</td>
</tr>
<tr>
<td>Percent Capture</td>
<td>78%</td>
<td>76%</td>
</tr>
<tr>
<td>Number of Overflows</td>
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<td></td>
</tr>
<tr>
<td>Outfall 001</td>
<td>37</td>
<td>58</td>
</tr>
<tr>
<td>Outfall 002</td>
<td>46</td>
<td>77</td>
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<tr>
<td>Outfall 003</td>
<td>69</td>
<td>77</td>
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<tr>
<td>Outfall 004</td>
<td>44</td>
<td>63</td>
</tr>
</tbody>
</table>

Notes:
1. Based on 15-minute rainfall data from Ronald Reagan Airport
2. 2018 was the wettest year on record since 1871
3. Assumes Water Resource Recovery Facility (WRRF) dry weather flow of 54 MGD
# RiverRenew Tunnel System Permit and Procurement Schedule

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
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<tbody>
<tr>
<td></td>
<td>JASOND</td>
<td>FMAJJASOND</td>
<td>FMAJJASOND</td>
<td>FMAJJASOND</td>
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<td>Environmental Assessment (EA)</td>
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<tr>
<td>Draft Development</td>
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<tr>
<td>NPS Review</td>
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<tr>
<td>Public Comment and Listening Sessions</td>
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<tr>
<td>NPS Issues Decision Document</td>
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<tr>
<td>Tunnel System DSUP</td>
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<tr>
<td>Preliminary Site Plan (Completeness)</td>
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<tr>
<td>Preliminary Site Plan (Verification)</td>
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<tr>
<td>Legal Written Notification Period</td>
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<tr>
<td>Planning Commission Meeting</td>
<td>5/7/19</td>
<td>6/25/19</td>
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<tr>
<td>City Council Hearing, Issue DSUP</td>
<td>5/18/19</td>
<td>7/9/19</td>
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<td>Procurement (Fixed Price Design-Build)</td>
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<td>Request for Qualifications (RFQ)</td>
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<tr>
<td>Request for Proposal (RFP) Development</td>
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<tr>
<td>Meetings with Design-Build Team</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Notice to Proceed (NTP)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Legend:
- Environmental Assessment
- DSUP (Early)
- DSUP (Late)
- Procurement
- Construction
- Milestone
- Public Meeting
- Present Quarter

DSUP: Development Special Use Permit
## Estimated Long Term Control Plan Update Capital Costs

Cost presented in $Millions and escalated to the midpoint of construction

<table>
<thead>
<tr>
<th></th>
<th>Option A Separate Tunnels</th>
<th>Option B Unified Tunnels</th>
<th>Option B+ Unified Tunnels w/ Dual-use Facilities</th>
<th>Option C Tunnel and Tanks</th>
</tr>
</thead>
<tbody>
<tr>
<td>WRFF Upgrades</td>
<td>2.7</td>
<td>2.7</td>
<td>2.7</td>
<td>2.7</td>
</tr>
<tr>
<td>CSO 003/4 Tunnel + Pumps</td>
<td>130</td>
<td>130</td>
<td>130</td>
<td>130</td>
</tr>
<tr>
<td>Wet Weather Facility</td>
<td>92</td>
<td>–</td>
<td>10</td>
<td>92</td>
</tr>
<tr>
<td>CSO 001/2 Tunnel</td>
<td>200</td>
<td>213</td>
<td>213</td>
<td>–</td>
</tr>
<tr>
<td>CSO 001/2 Tanks</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>147</td>
</tr>
<tr>
<td>Total Estimates</td>
<td>424</td>
<td>346</td>
<td>356</td>
<td>371</td>
</tr>
<tr>
<td>+50% Total Estimates</td>
<td>635</td>
<td>520</td>
<td>535</td>
<td>560</td>
</tr>
</tbody>
</table>
# Estimated RiverRenew Capital Costs

<table>
<thead>
<tr>
<th></th>
<th>RiverRenew</th>
<th>Option B+ Unified Tunnels w/ Dual-use Facilities</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WRRF Upgrades</td>
<td>3</td>
<td>2.7</td>
<td>108 to 116 MGD Expansion project</td>
</tr>
<tr>
<td>CSO 003/4 Tunnel + Pumps</td>
<td>142</td>
<td>130</td>
<td>Includes Tunnel Dewatering and Wet Weather Pumping Stations</td>
</tr>
<tr>
<td>Wet Weather Facility</td>
<td>2</td>
<td>10</td>
<td>Tank modifications and disinfection only</td>
</tr>
<tr>
<td>CSO 001/2 Tunnel</td>
<td>202</td>
<td>213</td>
<td>Tunnel, Outfall 001 and 002 Diversion Facilities</td>
</tr>
<tr>
<td><strong>New Scope</strong> Building J Project</td>
<td>21</td>
<td>–</td>
<td>New scope to provide space for tunnel construction at AlexRenew</td>
</tr>
<tr>
<td>Total Estimates</td>
<td>370</td>
<td>356</td>
<td></td>
</tr>
<tr>
<td>+50% Total Estimates</td>
<td>555</td>
<td>535</td>
<td></td>
</tr>
</tbody>
</table>

Cost presented in $Millions and escalated to the midpoint of construction.
Rate Schedule
AlexRenew Rate Implementation Timeline

February
- Finance Committee Meeting 2/15
- Board Meeting 2/19

March
- Board Council CSO Workgroup
- Public Education

April
- Board Council CSO Workgroup
- Public Education

May
- Saturday Public Hearing 5/11
- Board Meeting 5/21

June
- Board Meeting 6/18

July
- Rate Adjustment Implemented

Public Outreach and Education

Rate Recommendations

Authorize Public Hearing

Proposed Rate Adoption Date

Adjust Recommendations to Include Grant Funds
Rate adjustment needs to include small increases for AlexRenew operations and renewals and larger increases for the RiverRenew program.

- AlexRenew has delayed increases in recent years as we defined needs for RiverRenew

- AlexRenew requires rate adjustments for:
  - Increased Costs of Operations and Maintenance
  - Renewals and Replacement of Existing AlexRenew Assets

- RiverRenew program is estimated to cost between $370M and $555M
  - The Commonwealth of Virginia General Assembly has approved a $25M grant in their FY2020 budget bill forwarded to the Governor
  - AlexRenew needs to incorporate this grant funding into its rate model to optimize its positive impact
AlexRenew Board of Directors Direction to Staff

- Educate the community about the proposed rate adjustments
- Propose increases for only two years, with effective dates of July 1, 2019 and July 1, 2020
- Plan for a Public Hearing on Saturday, May 11th, at 9:30 a.m. at AlexRenew
- Plan for adoption of a Rate Resolution at the May Board Meeting on Tuesday, May 21st
Resources for RiverRenew Ambassador

RiverRenew.com is updated to keep the community informed with the latest Program developments.

Talking points are designed to help convey the important messages about RiverRenew.

Brochures and materials in your folder can be provided in bulk to share at meetings and events.

The RiverRenew Team has extensive knowledge and expertise – please reach out to us!
Encourage residents to learn more about RiverRenew.

Join the RiverRenew email list
Visit RiverRenew.com for program updates and events
Subscribe to City eNews announcements
Check calendar listings in local newspapers
Read the local news for RiverRenew news advisories
Attend the monthly meetings of the Council/Board Workgroup and RiverRenew Stakeholder Advisory Group
Come to the next round of Community Listening Sessions
Invite RiverRenew to speak at your next community event
Next Steps
Next Steps

• Get familiar with your role, toolkit, and share information
• Schedule next meeting: March 25 – April 5
Public Questions