

RiverRenew Board of Directors Dashboard

MONTH ENDING: JULY 31, 2022

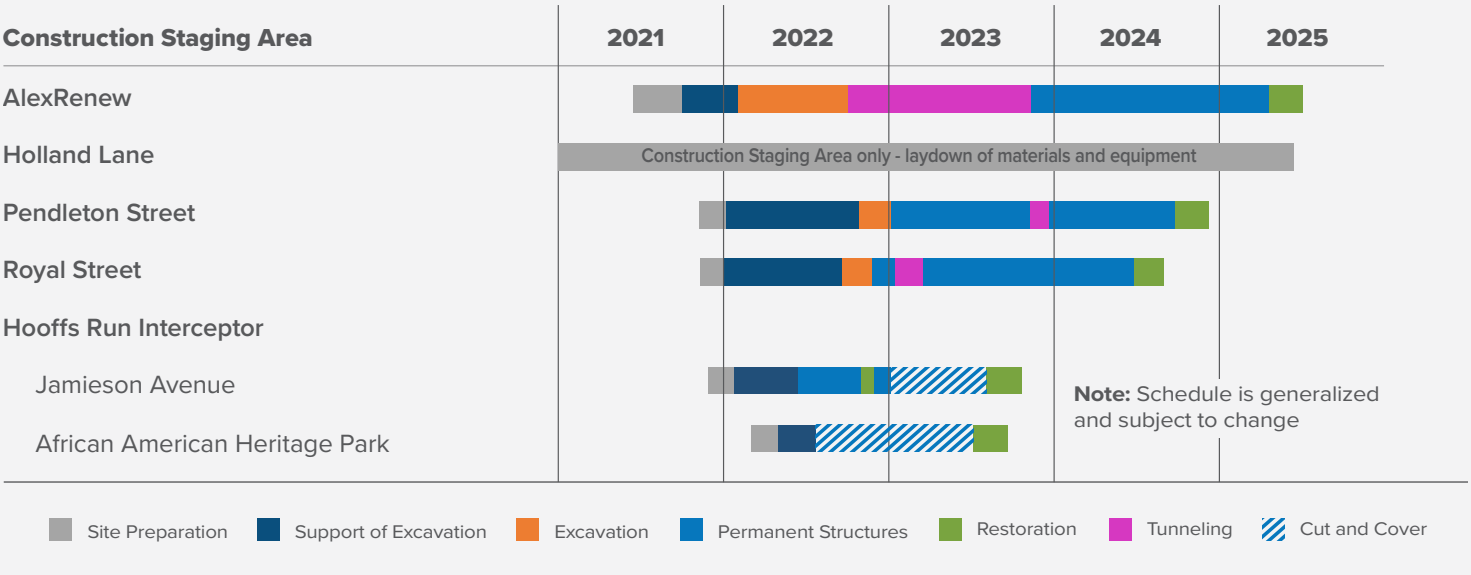
RiverRenew is a program owned and implemented by AlexRenew, Alexandria's public regional wastewater treatment provider.

RiverRenew Overview

To improve the waterways that connect us, AlexRenew is implementing RiverRenew to prevent millions of gallons of combined sewage from polluting Alexandria's local rivers and streams each year. Three RiverRenew projects at AlexRenew's wastewater treatment plant are complete. The remaining project includes the construction of a new tunnel to connect AlexRenew's wastewater treatment plant to the four existing combined sewer outfalls in Alexandria.

The Tunnel Project is illustrated on Page 4 of this Dashboard. Construction associated with the Tunnel Project started in early 2021 and will continue through 2025 at five primary locations in Alexandria. The phases of construction at each location are illustrated in the schedule below.

RiverRenew Tunnel Project Schedule



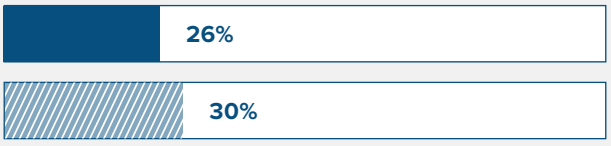
Summary of Major Tunnel Project Delays

Date:	Activity:
12/2021	Monitoring potential supply chain issues due to ongoing pandemic.
12/2021	COVID outbreak at tunnel segment mold plant in Slovenia. Manufacturing for tunnel segment molds relocated to Turkey. Anticipated one-month delay on tunnel segment molds.
1/2022	Concrete for shaft slurry walls delayed due to weather, COVID impacts, shortage of CDL drivers due to Omicron spike, and lack of concrete materials in the Greater Metro D.C. area. Monitoring schedule impacts to critical path.
2/2022	TBM fabrication and delivery delayed by three weeks. Monitoring schedule impacts to critical path.

RiverRenew Tunnel Project Design-Build Progress

Overall Project Progress

(Design and Construction)

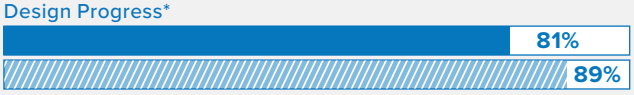




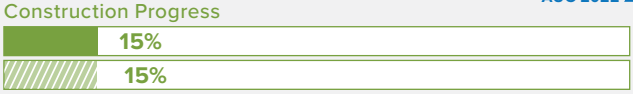
Pendleton Street

Mobilizing for shaft slurry wall construction

Design Progress*



Construction Progress





Royal Street

Shaft slurry wall construction ongoing

Design Progress*



Construction Progress





Hooffs Run

Started diversion chamber excavation

Design Progress



Construction Progress**





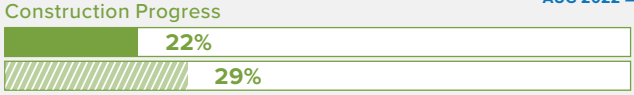
Waterfront Tunnel

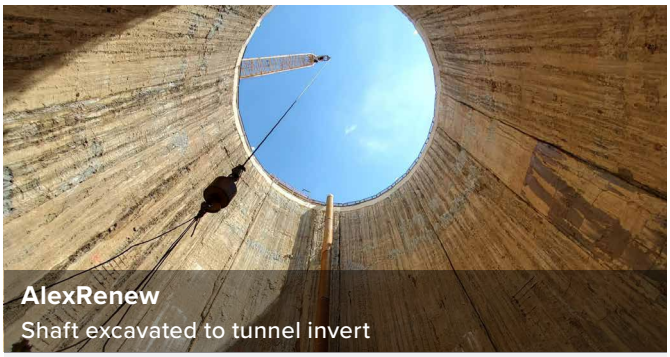
TBM arrived at AlexRenew

Design Progress



Construction Progress





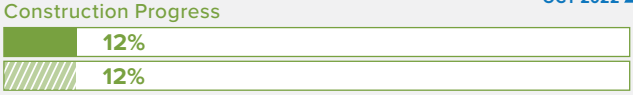
AlexRenew

Shaft excavated to tunnel invert

Design Progress



Construction Progress



LEGEND: Actual Progress | Planned Progress | ▲ Planned Completion Date

Actual Progress as of July 31, 2022. Planned Progress bars are representative of updates to Baseline Schedule.
*The Design-Builder deferred the Pendleton Street and Royal Street designs to prioritize critical path designs at Hooffs Run and AlexRenew. Deferring the Pendleton and Royal Street designs will not impact the project schedule.
**The planned construction progress for Hooffs Run is based on the Design-Builder's sequence of construction activities as of July 2022.

RiverRenew Tunnel Project Six-Month Look-Ahead

Pendleton Street

MAJOR WORK ACTIVITIES

Activity	Date
Shaft support of excavation	Aug 2022
Shaft excavation	Dec 2022

PERMITS

Permit	Date
Building Permit - Shaft Support of Excavation	Oct 2022
DSUP Final Site Plan Approval	Nov 2022
Building Permit - Shaft Liner and Base Slab	Nov 2022
Building Permit - Shaft Roof	Nov 2022
Building Permit - Permanent Seawall	Nov 2022

Royal Street

MAJOR WORK ACTIVITIES

Activity	Date
Shaft support of excavation	Ongoing through Aug 2022
Shaft excavation	Sep 2022
Shaft base slab construction	Dec 2022
Near surface structures support of excavation	Jan 2023

PERMITS

Permit	Date
DSUP Final Site Plan Approval	Nov 2022
Building Permit - Shaft Liner and Base Slab	Nov 2022
Building Permit - Shaft Roof	Nov 2022
Building Permit - Near Surface Structure and SOE	Jan 2023

Waterfront Tunnel

MAJOR WORK ACTIVITIES

Activity	Date
Tunnel boring machine (TBM)	
Lower TBM in shaft and assemble	Aug 2022
Begin mining	Oct 2022

Community Outreach

Event	Date
2022-2023 RiverRenew SAG Meeting No. 4	Sep 15, 2022
Council-Board Workgroup Meeting No. 16	Oct 19, 2022
2022-2023 RiverRenew SAG Meeting No. 5	Nov 17, 2022

Hooffs Run

MAJOR WORK ACTIVITIES

Activity	Date
North of Jamieson Ave	
Diversion Chamber construction	Ongoing through Dec 2022
Open cut construction	Aug 2022
Junction chamber base construction	Dec 2022
African American Heritage Park	
Support of excavation	Ongoing through Aug 2022
Junction Chamber construction	Ongoing through Oct 2022
Open cut construction	Sep 2022

PERMITS

Permit	Date
Grading Plan Amendment	Aug 2022

AlexRenew

MAJOR WORK ACTIVITIES

Activity	Date
Screening Shaft base slab construction	Ongoing through Aug 2022
HGL Control Structure support of excavation	Aug 2022
Hooffs Run Interceptor (portion at AlexRenew)	Oct 2022
Near surface structures deep foundations installation	Oct 2022
Pumping Shaft base slab construction	Dec 2022
Pumping Shaft liner construction	Jan 2023

PERMITS

Permit	Date
DSUP Final Site Plan Approval	Jul 2022
Building Permit - Near Surface Structures	Aug 2022
Building Permit - Superstructure Architectural	Nov 2022

RiverRenew Tunnel Project Snapshot

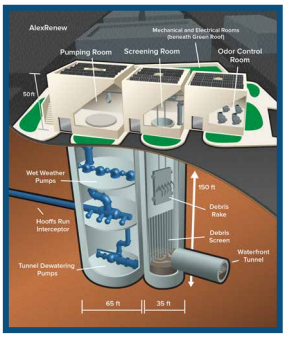
The Tunnel Project includes the following major components: a two-mile-long, 12-foot-wide, 100-foot-deep tunnel; a six-foot-wide sanitary sewer interceptor; diversion facilities to capture combined sewer discharges; and two pumping stations.





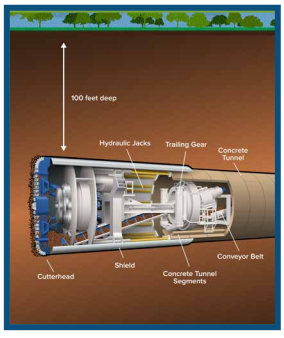
Hooffs Run Interceptor

Click here to learn more about upcoming activity at our Hooffs Run site.



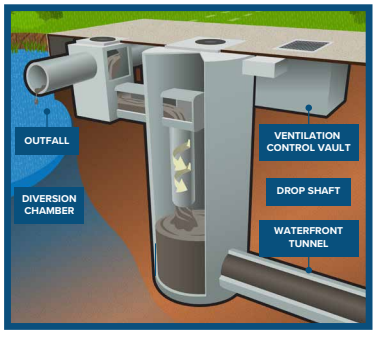
Pumping Station

Click here to take a 3D tour of RiverRenew's future pumping station.



Waterfront Tunnel

Click here to watch an animated video about RiverRenew and learn how the Waterfront Tunnel will be constructed.

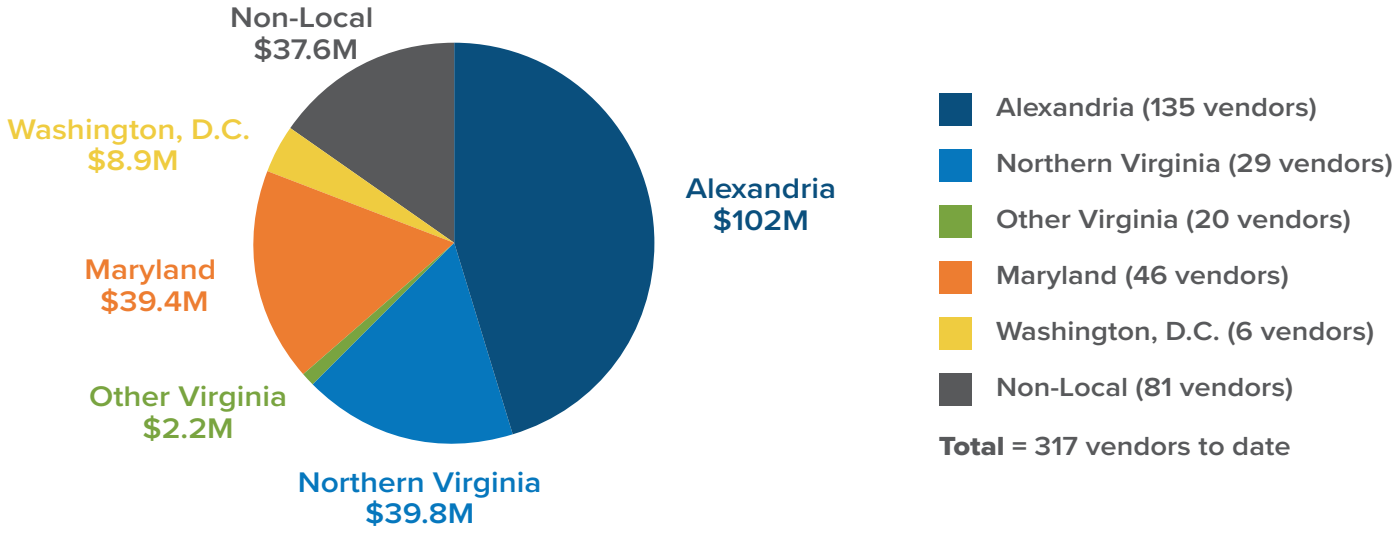


Diversion Facility

Click here for an introduction to diversion facilities from two RiverRenew engineers.

RiverRenew Program Costs to Date

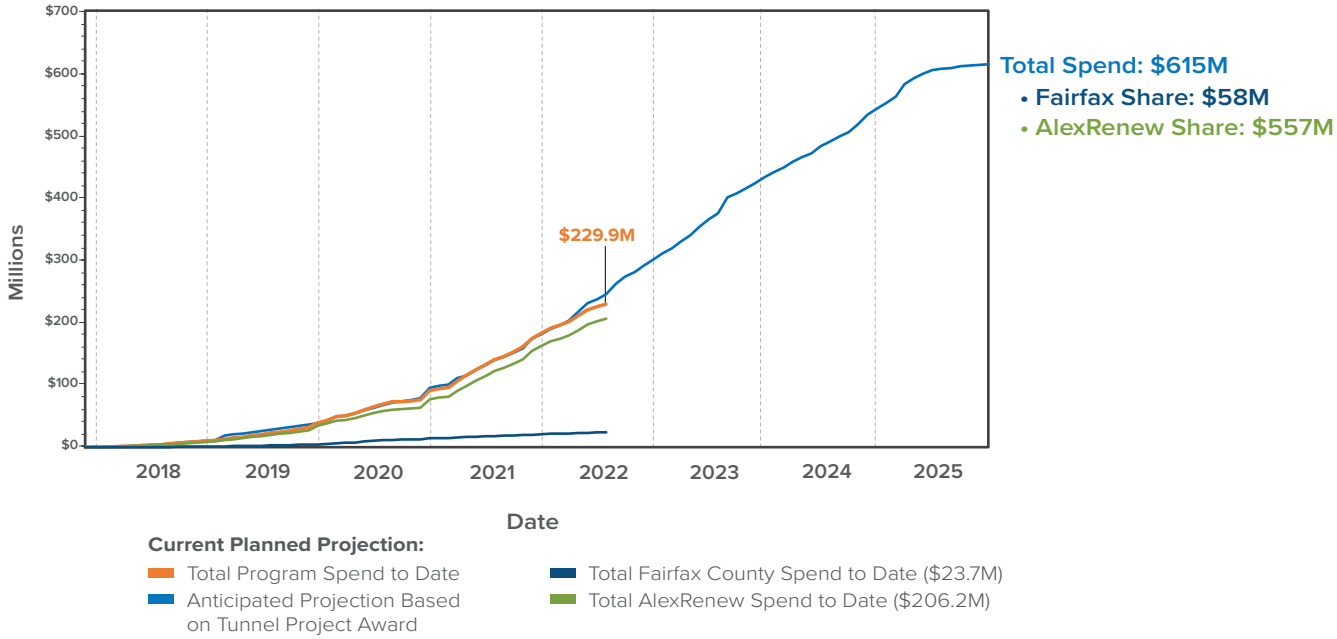
RiverRenew Spend to Date by Locality



RiverRenew Tunnel Project Contracts

Vendor	Role	Contract Type	Contract No.	Contract Date	Spent to Date ($ millions)
Traylor-Shea Joint Venture	**Design-Builder** Tunnel System Project	Design-Build	19-079	Dec 2020	$113.9
Brown and Caldwell	**Owner's Advisor**	Professional Services	17-022	Nov 2017	$59.5
EPC	**Resident Engineering & Inspection** Tunnel System Project	Professional Services	20-013	Apr 2020	$7.3
Completed RiverRenew Wastewater Projects to Pave the Way for the Tunnel Project					$49.2

RiverRenew Cash Flow Analysis



Note: *As of July 31, 2022.*

RiverRenew Community Outreach

Community Meetings

Community meetings are presentations given to various stakeholder groups, including the SAG, and community listening sessions. These presentations can be delivered in person or virtually.

Highlights:



- Community Listening Sessions: July 11-14
- 2022-2023 RiverRenew SAG Meeting No. 3: July 21

Looking Ahead:

- 2022-2023 RiverRenew SAG Meeting No. 4: September 15
- 2022-2023 RiverRenew SAG Meeting No. 5: November 17

*All Community Listening Sessions materials are available at RiverRenew.com/community/community-listening-sessions.

Digital Programming

Digital programming keeps the community connected to RiverRenew with regular program updates on RiverRenew.com, content on AlexRenew's social media pages, and distribution of *The River Renewer*, a quarterly newsletter promoting updates and milestones to more than 500 contacts.

Highlights:

- Email, website, and social post notifications for extended work hours at Royal Street
- Photo and video updates highlighting the TBM's journey home
- A recap and photos from the Tunnel Boring Machine Welcome Reception
- The debut of our newest RiverRenew teammate, Mark the MSV



Community Events

Participating in or co-sponsoring **community events** strengthens AlexRenew's relationship with its water and community partners.

Highlights:

- Sip 'n See events ongoing

Looking Ahead:

- Sip 'n See event at Hooffs Run: Tuesdays between 11 a.m. and 1 p.m.
- Sip 'n See event at Royal Street: Wednesdays from 11 a.m. to 1 p.m.
- Sip 'n See event at Pendleton Street (Resuming September 1): Thursdays between 11 a.m. and 1 p.m.

Education

Education initiatives are intended to engage audiences of all ages and help them learn more about RiverRenew and its technical components.

Highlights:

- Shared a presentation on wastewater treatment careers and the story of RiverRenew with Alexandria City Public School's Career Exploration Camp



Community Days

Community days feature project-specific events to celebrate construction progress on the Tunnel Project and engage the community along the way.

Highlights:

- RiverRenew Tunnel Boring Machine Welcome Reception: July 14

Council-Board Workgroup

The **Council-Board Workgroup** comprises two members from AlexRenew's Board of Directors and two members from the Alexandria City Council.

Highlights:

- Council-Board Workgroup Meeting No. 15: July 13

Looking Ahead:

- Council-Board Workgroup Meeting No. 16: October 19

Monthly Spotlight



Hello, Hazel! AlexRenew welcomes our healthier waterways heroine.

On July 14, 2022, AlexRenew welcomed and dedicated Hazel, our 380-ton tunnel boring machine that will build toward Alexandria's healthier waterways future.

Hazel is a state-of-the-art, underground powerhouse that was custom-built to construct the Waterfront Tunnel under Alexandria to stop combined sewage from polluting its waterways. She carries the namesake of Hazel Johnson, one of America's leading women pioneers for environmental justice who founded an organization in her Chicago community to educate those disproportionally impacted by pollution and fight for a safer environment.

"There's nothing more important than keeping our communities clean, safe, and healthy," AlexRenew General Manager Karen Pallansch said during the reception. "AlexRenew is proud to promote such influential environmental stewardship in our region, and we couldn't accomplish any of this without the staunch and tireless support from our public and private partners."

Learn more about Hazel and see highlights from the reception at RiverRenew.com/news/program-updates/welcome-reception!

Building for the Future of Alexandria's Waterways

To learn more, visit www.RiverRenew.com

ALEXANDRIA renew ENTERPRISES® | RiverRenew™

RiverRenew is a program owned and implemented by AlexRenew, Alexandria's public regional wastewater treatment provider.