



City Council/AlexRenew Board CSO Subcommittee/Workgroup

Meeting No. 13

January 19, 2022

Major Updates since September Meeting

- RiverRenew Stakeholder Advisory
 Group (SAG) Meeting held in November
- RiverRenew SAG term extended through February 2023
- \$40 million grant for RiverRenew included in Governor Northam's biennial budget proposal
- Construction underway on all RiverRenew Tunnel Project Components
- Tunnel Boring Machine fabrication
 ongoing in Germany

Tonight's Presentation

- Overview, Progress, and 6-Month Look Ahead for RiverRenew Tunnel Project Construction Sites:
 - Pendleton Street
 - Royal Street
 - Hooffs Run
 - AlexRenew
- Community Outreach
- Public Comment Period

Construction at Four Tunnel Project Construction Staging Areas is Underway



October 6, 2021

2 Royal Street Construction Staging Area

November 8, 2021

3 Hooffs Run Construction Staging Area

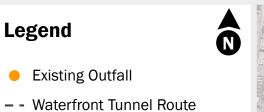
December 8, 2021 North of Jamieson Avenue

February 7, 2022* South of Jamieson Avenue

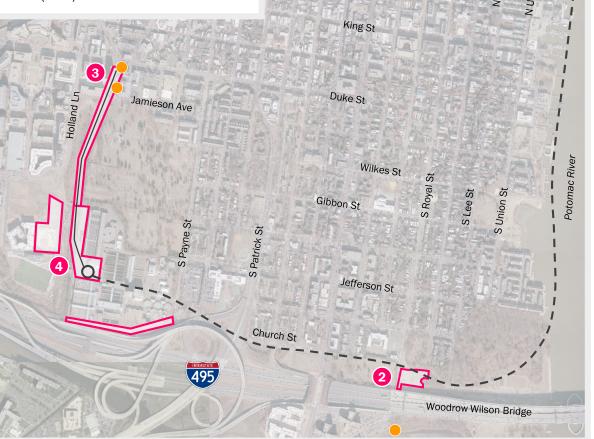


May 17, 2021

*Note: Construction start date subject to shift



- Hooffs Run Interceptor Route
- Construction Staging Area (CSA)



N Patrick St

Pendleton St

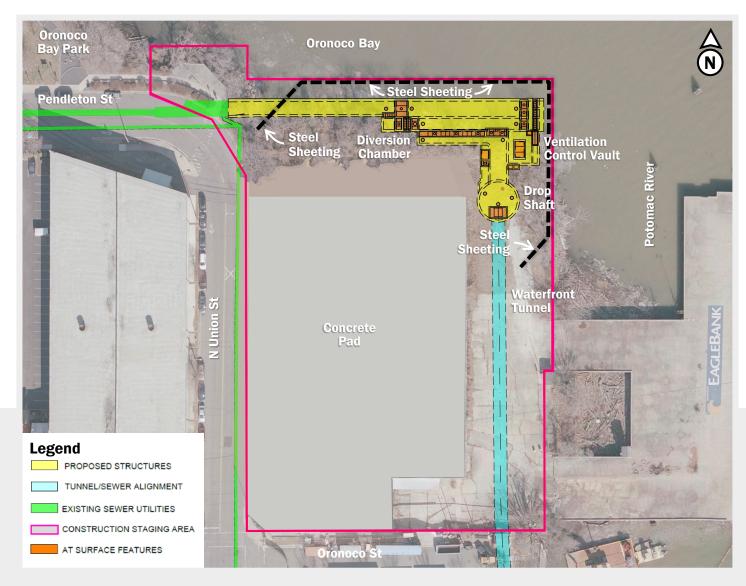
Princess St

Wash

Pendleton Street Site

Sheeting installation along Oronoco Bay

Pendleton Street Site Construction Update





Major Activities

- Temporary utility installation underway
- Support of excavation (sheeting) in the Oronoco Bay and Potomac River nearly complete
- Dewatering of area behind sheeting starting

Seismographs Installed Near Pendleton Street Site



WHAT AM I?

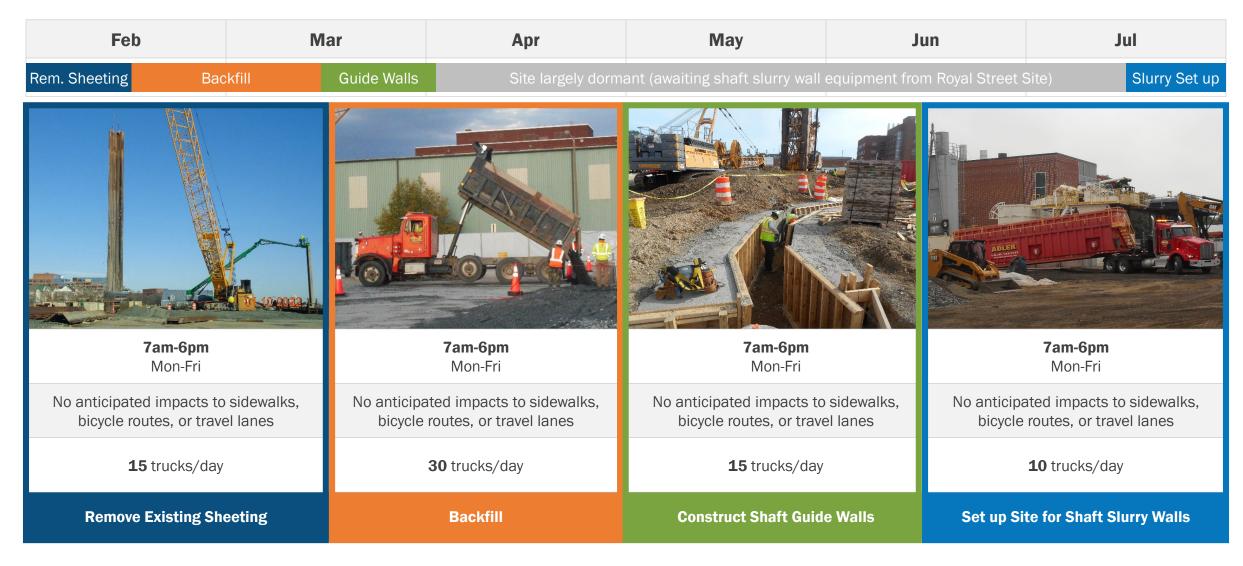
I am a **seismograph**! I measure potential ground vibrations during construction of the RiverRenew Tunnel Project at the Pendleton Street Site.



Map of Seismographs Installed Near Pendleton Street Site



Pendleton Street Site Six-Month Look-Ahead

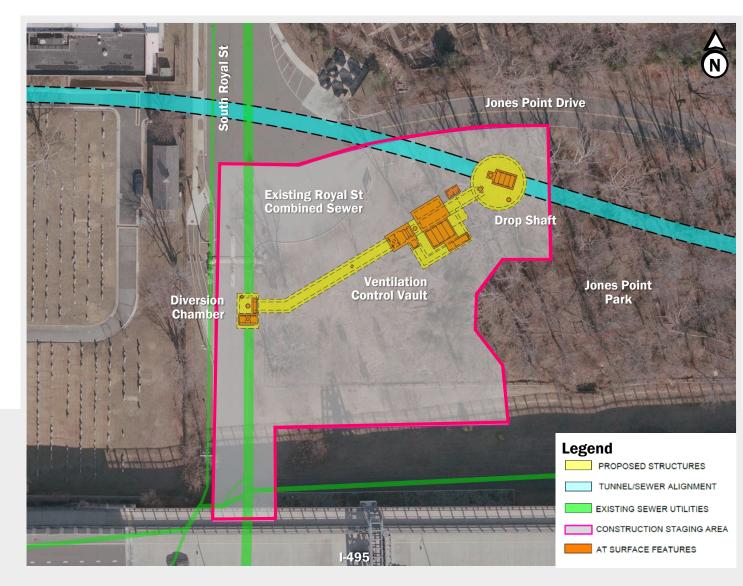


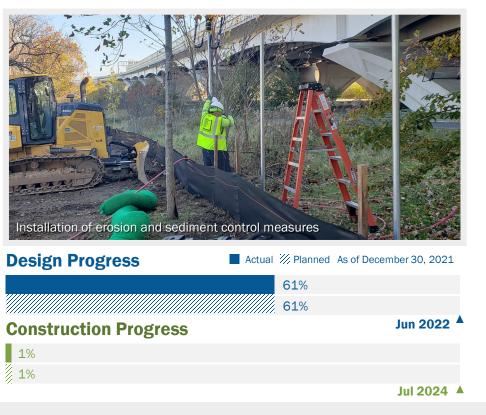


Royal Street Site

Installation of gravel working base in construction staging area

Royal Street Site Construction Update





Major Activities

- Site preparation and equipment mobilization ongoing
- Erosion and sediment control installation complete

Royal Street Site Six-Month Look-Ahead

<section-header><section-header><image/></section-header></section-header>	et up for Slurry Walls	Construct Shaft Slurry Walls	Excv. Set up
<image/>			
		Martine Ma Martine Martine Mar	
	n-6pm 24 on-Fri	hours (variance)* Mon-Sat	7am-6pm Mon-Fri
			cipated impacts to sidewalks, cle routes, or travel lanes
10 trucks/day 10 tru	ucks/day	75 trucks/day	10 trucks/day
Site Mobilization and Preparation Set up Site for S			p Site for Shaft Excavation

*Note: Variance for 5 days only, limited work hours due to school pick-up/drop-off



Hooffs Run Site

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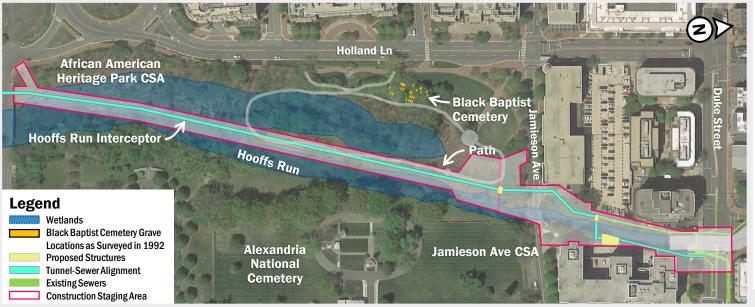
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Site mobilization north of Jamieson Avenue

Hooffs Run Interceptor Construction Update



Design Progress	📕 Actual 🚿 Planned	As of December 30, 2021
		80%
		80%
Construction Progress		Jun 2022
1%		
1%		
		Jun 2023

Major Activities

- Mobilization and site preparation of Jamieson Ave Site ongoing
- Walkway and portion of Outfall 004 demolished
- Maintenance of flow measures installed



 African American Heritage Park CSA



 Jamieson Avenue CSA

Jamieson Avenue Site Six-Month Look-Ahead

Feb	Mar	Apr	Мау	Jun	Jul
Support of Excv. Installation Diversion Chamber Const			tion	Open Cut (Construction
	-6pm n-Fri		-6pm n-Fri	7am-6pm Mon-Fri	
	ewalk closures: Jamieson Ave	Lane and side Duke St and .	walk closures: Jamieson Ave	Lane and sidewalk closures: Duke St and Jamieson Ave	
20 truc	cks/day	30 truc	≿ks∕day	30 trucks/day	
Support of Excavation Installation		Diversion Chamber Construction Open Cut Construction		Construction	



African American Heritage Park Site Six-Month Look-Ahead

Feb	Mar	Apr	Мау	Jun	Jul
Site Mobilization and Preparation		Junction Chamber Construction		Open Cut Construction	
	n- 6pm n-Fri	7am-6pm Mon-Fri		7am-6pm Mon-Fri	
	sidewalks, bicycle routes, or I lanes	No anticipated impacts to sidewalks, bicycle routes, or travel lanes		No anticipated impacts to sidewalks, bicycle routes, or travel lanes	
10 truc	cks/day	20 trucks/day		30 trucks/day	
Site Mobilization	n and Preparation	Junction Chamber Construction		Open Cut Construction	

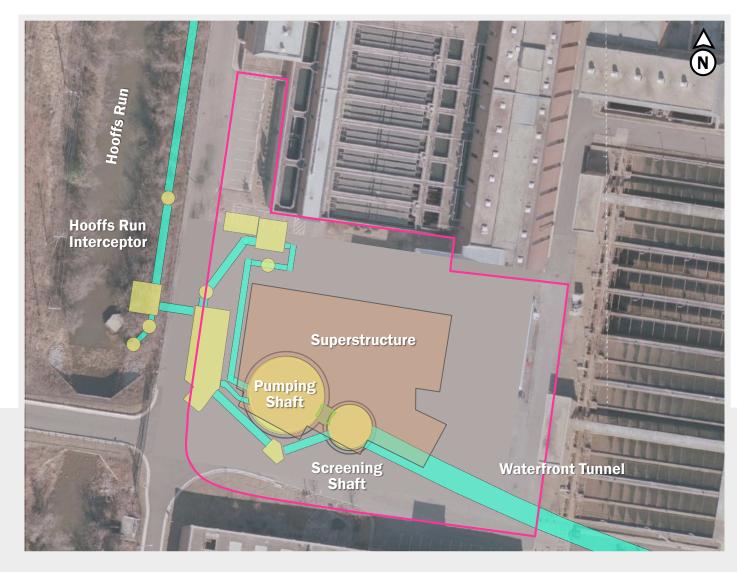
AlexRenew Site

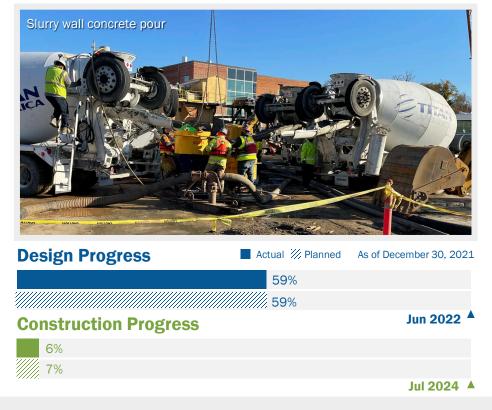
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Hydromill excavation of a slurry wall panel at AlexRenew

AlexRenew Site Construction Update



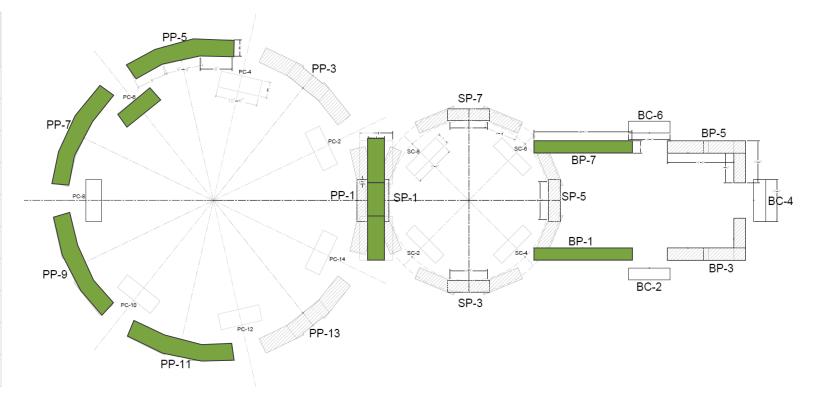


Major Activities

Shaft slurry wall construction ongoing

Shaft Slurry Wall Progress at AlexRenew

Panel ID	Cubic Yards of Concrete	Pounds of Reinforcing
PP-5	744	57,000
PP-7	748	57,000
PP-9	728	57,000
PP-11	744	57,000
PC-6	293	26,000
BLP-1	480	Unreinforced
BLP-2	688	Unreinforced
BP-1	544	Unreinforced
BLP-3	272	Unreinforced
BP-7	544	Unreinforced

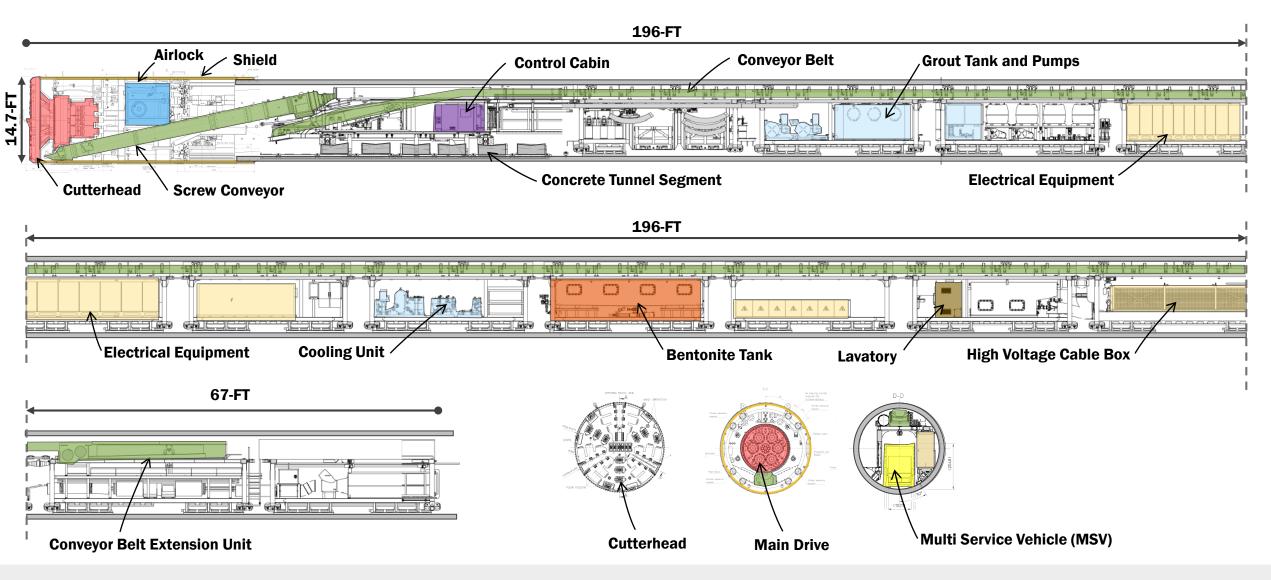


AlexRenew Site Six-Month Look-Ahead

Feb	Mar	Apr	Мау	Jun	Jul
Construct Shaft Slurry Walls		Excavate Shafts		Assemble Tunnel Boring Machine	
Kabler waterzegs star hee.					
7am - Mor	6pm n-Fri) Hauling 7am-6pm n-Fri	7am-6pm Mon-Fri	
No anticipated impacts to s travel	-	No anticipated impacts to sidewalks, bicycle routes, or travel lanes		No anticipated impacts to sidewalks, bicycle routes, or travel lanes	
75 truc	ks/day	100 trucks/day		10 trucks/day	
Construct Shaft Slurry Walls Excavate Pumping and Screening Shafts Assemble Tunnel Bori		l Boring Machine			

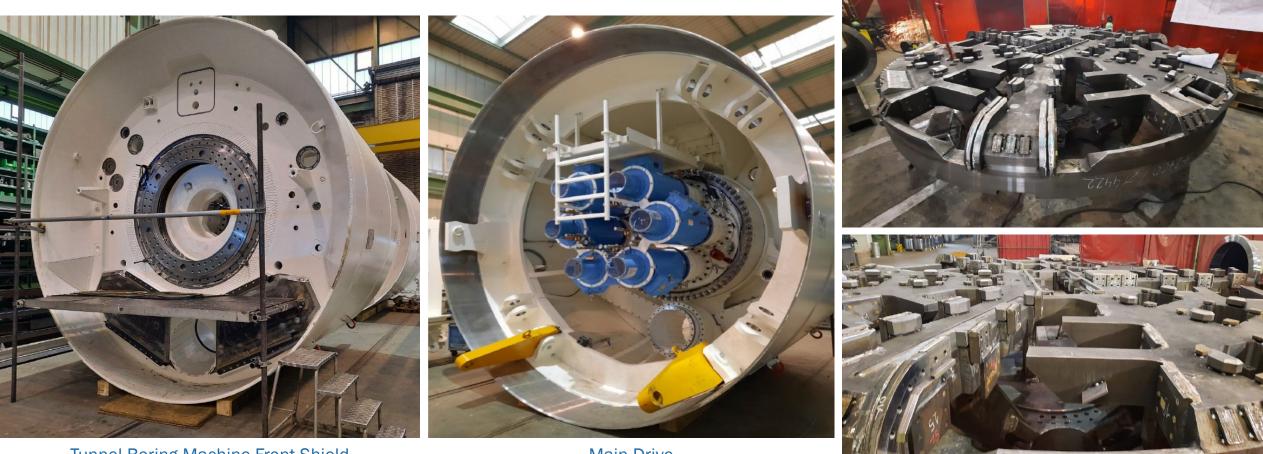


Major Components of the RiverRenew Tunnel Boring Machine



Tunnel Boring Machine Fabrication Update

Shield, Main Drive, and Cutterhead



Tunnel Boring Machine Front Shield

Main Drive

Cutterhead

Tunnel Boring Machine Fabrication Update

Airlock



Airlock

Compression/Decompression Chamber

Decompression Chamber

Tunnel Boring Machine Fabrication Update

Trailing Gear



Gantry 1

Gantry 4

Gantry 8

Community Outreach

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CONSRUCTION QUEFIONS? **H**

Sip 'n See Event at Hooffs Run

Thank You to City Council for Extending the Term of the RiverRenew SAG for an Additional Year

2022-2023 SAG Representation and Members:



Morgan Babcock Eisenhower Partnership Nominee



Liz Birnbaum Carlyle or Duke St. Corridor

Dan Bradfield (SAG Chair) South Old Town

Seeking Applicants Engineering or Construction Background

Yvonne Callahan OTCA Nominee



Mark McNutt Interest in RiverRenew

Seeking Applicants Interest or expertise in diversity, race, and social equality



Erik Olson NOTICe Nominee

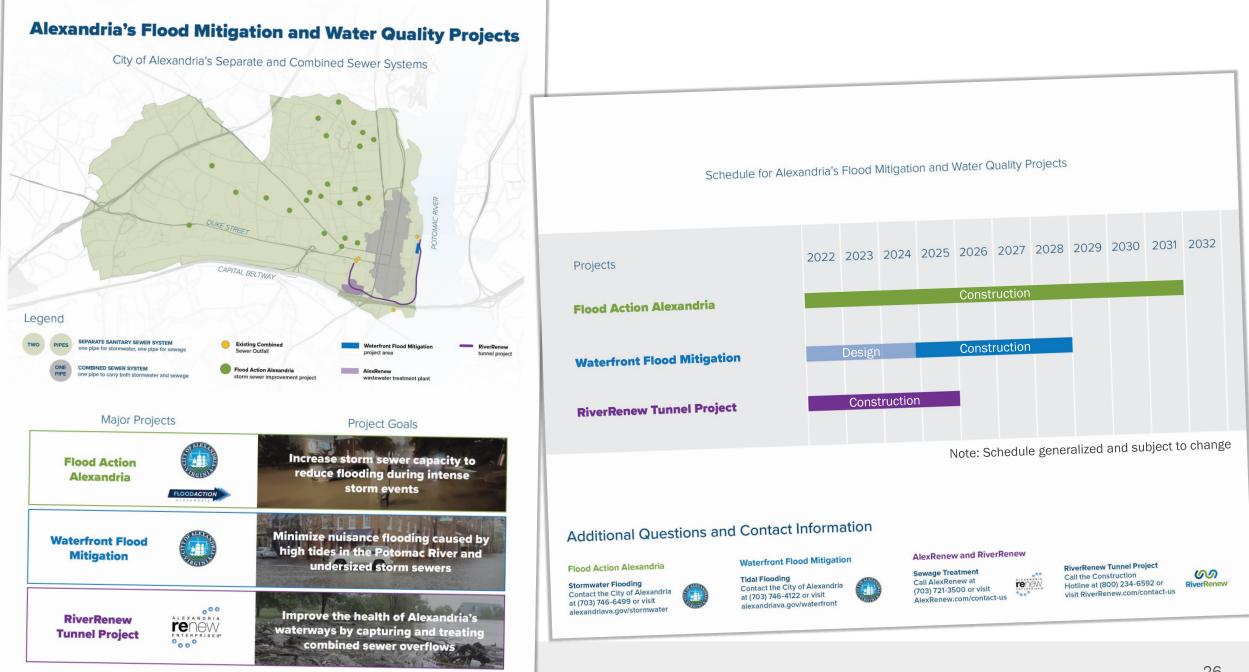
Charge:

- Review and monitor construction and program progress
- Communicate progress to the community by leveraging existing networks
- Identify concerns and receive input from the public
- Provide recommendations regarding mitigation of construction impacts

Other Information:

- SAG representation to remain the same
- Term: Feb 2022 Feb 2023
- SAG can be extended to Feb 2024 (three years from first meeting)





AlexRenew Awarded 2022 NACWA Award for National Environmental Achievement in Public Information and Education: Educational Program





Stay Engaged on RiverRenew Progress!





Upcoming Community Events



Let's talk tunnels with RiverRenew engineers and contractors.

RiverRenew Virtual Community Listening Session Wednesday, January 26 6:00-8:00 p.m.

REGISTER NOW

Building for the future of Alexandria's waterways

RiverRenew.com

RiverRenew







Public Comment Period

Concrete pour for shaft slurry wall at AlexRenew

