



Program Schedule

Contract	Current Phase:	Schedule Status:	Cost Status:	% Complete by Contract:	2017	2018	2019	2020	2021	2022	2023	2024	2025
108 to 116 MGD Expansion													
Primary Effluent Pumps Pull-Out Assemblies	Fabric	●	●	100.0									
Construction	Constr	●	●	61.0									
Building J Facilities Relocation and Decommissioning													
MCCs	Fabric	●	●	100.0									
Laboratory Casework	Fabric	●	●	94.0									
Chillers & Air Handling Units	Fabric	●	●	100.0									
Heat Exchangers	Fabric	●	●	100.0									
Construction	Constr	●	●	50.0									
Tunnel System													
Tunnel System	Procure	●	●	9.3									
WRRF Site Security and Access	Constr	●*	●	90.0									

Legend :

- Planning
- Procurement
- Design
- ROW / Easement / LGL / Land Acq / CPMTs
- Construction / Fabrication
- ◆ Target Date for Board Review/Approval
- On Schedule/ On Budget
- Caution
- Behind Schedule/ Over Budget
- RFQ = Request for Qualification
- RFP = Request for Proposal
- Present Quarter
- ▨ Actual Forecasted Completion Date

* Schedule delay does not affect the RiverRenew Critical Path.

May 31, 2020

Summary of Upcoming Activities

Date:	Upcoming Activities:
Week of 6/15/2020	Tunnel System Project Confidential Meeting No.2 (1 day per Shortlisted Team during this week)
Week of 6/22/2020	Tunnel System Project Confidential Meeting No.3 (1 day per Shortlisted Team during this week)



Contract Award Status

Contract	Contract No.:	Date of Contract Award:	Vendor:	Contract Amount:	Notice to Proceed:	Construction / Services Start Date:	Construction / Services Finish Date:
108 to 116 MGD Expansion							
Primary Effluent Pumps Pull-Out Assemblies	19-001	12/19/2018	Flowserve	\$235,478 ³	12/20/2018	12/21/2018	9/23/2020
Construction	19-072	7/26/2019	ACE	\$2,665,000	7/29/2019	7/29/2019	11/30/2020
Wastewater Services Resident Engineering & Inspection ¹	19-031	6/11/2019	Hazen and Sawyer, P.C.	\$522,120	N/A	7/2/2019	6/30/2024
Engineering Services During Construction (ESDC) ²	14-017-2	7/11/2019	CH2M Hill Engineers, Inc	\$280,320	N/A	7/12/2019	11/30/2020
Building J Facilities Relocation and Decommissioning							
MCCs	19-016	2/26/2019	Rexel	\$42,068 ⁴	2/27/2019	2/27/2019	10/30/2020
Lab Casework	19-017	4/4/2019	Nycom	\$64,846 ⁵	4/8/2019	4/8/2019	10/30/2020
Chillers and Air Handling Units	19-018	4/1/2019	Johnson Controls	\$65,328 ⁷	4/3/2019	4/3/2019	10/30/2020
Heat Exchangers	19-019	4/1/2019	United Energy Products	\$7,636 ⁶	4/8/2019	4/8/2019	10/30/2020
Construction	19-064	6/11/2019	Clark	\$19,409,800	7/9/2019	7/9/2019	3/30/2021
Engineering Services During Construction (ESDC) ²	18-006	6/11/2019	CH2M Hill Engineers, Inc	\$885,963	N/A	7/1/2019	3/30/2021
Wastewater Services Resident Engineering & Inspection ¹	19-031	6/11/2019	Hazen and Sawyer, P.C.	\$994,924	N/A	7/2/2019	6/30/2024
Tunnel System							
RiverRenew Owner's Advisor (OA) Scope of Services and Budget	17-022	11/21/2017	Brown & Caldwell	\$6,401,156	N/A	11/21/2017	6/30/2018
RiverRenew Owner's Advisor (OA) Scope of Services and Budget for Amendment No. 1	17-022	7/6/2018	Brown & Caldwell	\$592,123 ⁸	N/A	7/1/2018	9/30/2018
RiverRenew Owner's Advisor (OA) Scope of Services and Budget for Amendment No. 2	17-022	9/12/2018	Brown & Caldwell	\$11,396,400	N/A	10/1/2018	6/30/2019
RiverRenew Owner's Advisor (OA) Scope of Services and Budget for Amendment No. 3	17-022	6/18/2019	Brown & Caldwell	\$16,968,912	N/A	7/1/2019	6/30/2020
Wet Weather Implementation Support	18-006	2/20/2018	CH2M	\$989,409 ⁸	N/A	2/20/2018	8/30/2019
Wastewater Services Resident Engineering and Inspection ¹ (Programmatic)	19-031	6/11/2019	Hazen and Sawyer, P.C.	\$346,024	N/A	7/2/2019	6/30/2024
Wastewater Services Resident Engineering & Inspection ¹ (WRRF Site Security and Access)	19-031	6/11/2019	Hazen and Sawyer, P.C.	\$261,060	N/A	7/2/2019	6/30/2024
WRRF Site Security and Access Construction	19-077	7/25/2019	Sorensen Gross Company	\$1,527,000	7/29/2019	7/29/2019	2/1/2020
Tunnel System Resident Engineering and Inspection (RE&I)	20-013	4/3/2020	EPC Consultants, Inc.	\$1,994,457	N/A	4/1/2020	3/31/2021
Total				\$65,650,024			

¹Wastewater Services Resident Engineering & Inspection (RE&I) Contract supports multiple projects. Amounts reported are specific to each project thru FY2020. Total Contract Award was for \$2,907,309

²Engineering Services During Construction (ESDC) amounts reported are through FY2020.

³Original contract award was for \$941,911. Remaining contract value of \$706,434 assigned to Contract 19-072 as of September 6, 2019.

⁴Original contract award was for \$280,453. Remaining contract value of \$238,385.02 assigned to Contract 19-064 as of October 31, 2019.

⁵Original contract award was for \$432,307. Remaining contract value of \$367,461 assigned to Contract 19-064 as of November 12, 2019.

⁶Original contract award was for \$51,757. Remaining contract value of \$44,121 assigned to Contract 19-064 as of November 15, 2019.

⁷Original contract award was for \$435,522. Remaining contract value of \$370,194 assigned to Contract 19-064 as of December 19, 2019.

⁸Amount reported is actual spent.

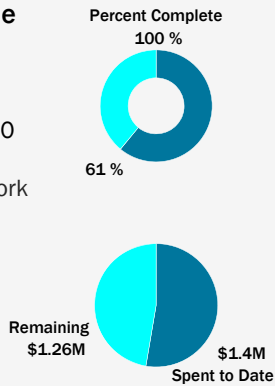


RiverRenew Construction Projects at AlexRenew are on Schedule for March 2021 Completion

108 to 116 MGD Upgrade

Vendor: ACE
Contract Amount: \$2,665,000
Construction Finish: 12/19/2020

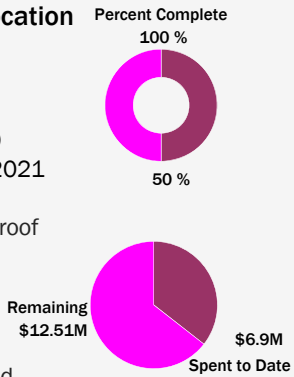
- Completed PEP #5 upgrade work
- Operational demonstration in progress



Building J Facilities Relocation and Decommissioning

Vendor: Clark Construction
Contract Amount: \$19,409,800
Construction Finish Date: 4/8/2021

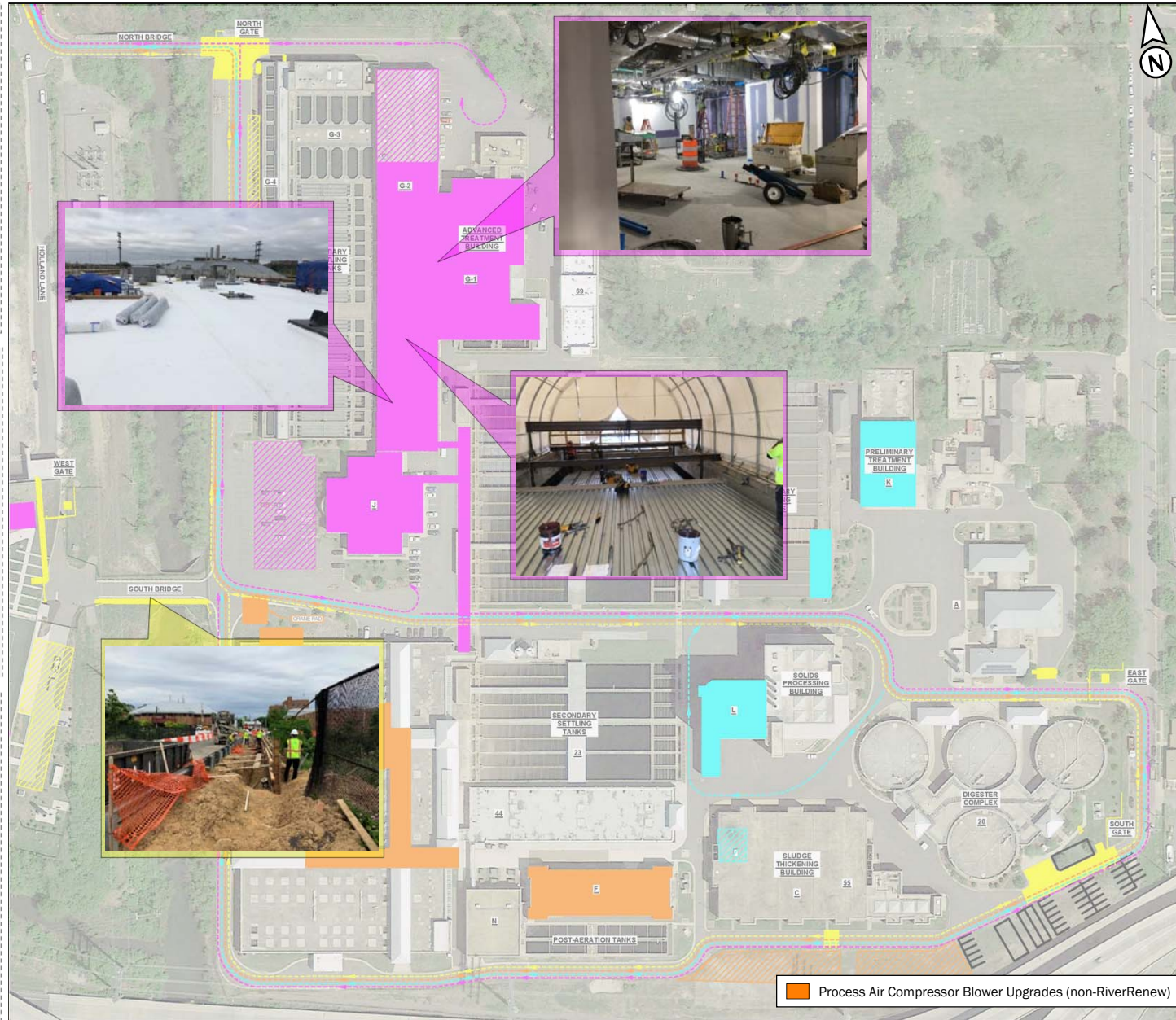
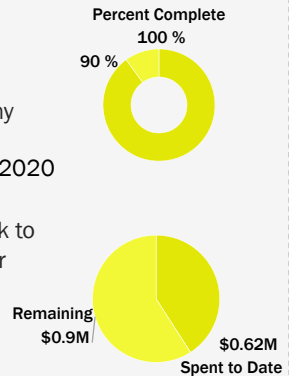
- Completed installation of new roof over Section A of Building G/2
- Demolition and installation of new roof over Section B of Building G/2
- G-2 Lab space flooring installed



WRRF Site Security and Access

Vendor: Sorensen Gross Company
Contract Amount: \$1,527,000
Construction Finish Date: 6/30/2020

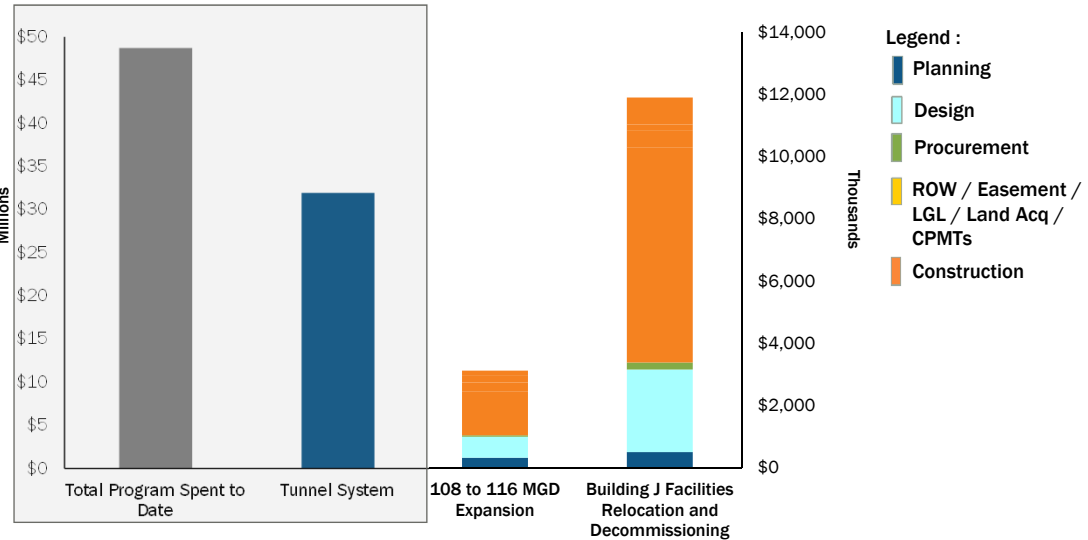
- Completion of preparation work to install EC garage pedestrian door
- Completed wire mesh fence at West Gate
- Partially poured the retaining wall at South Bridge



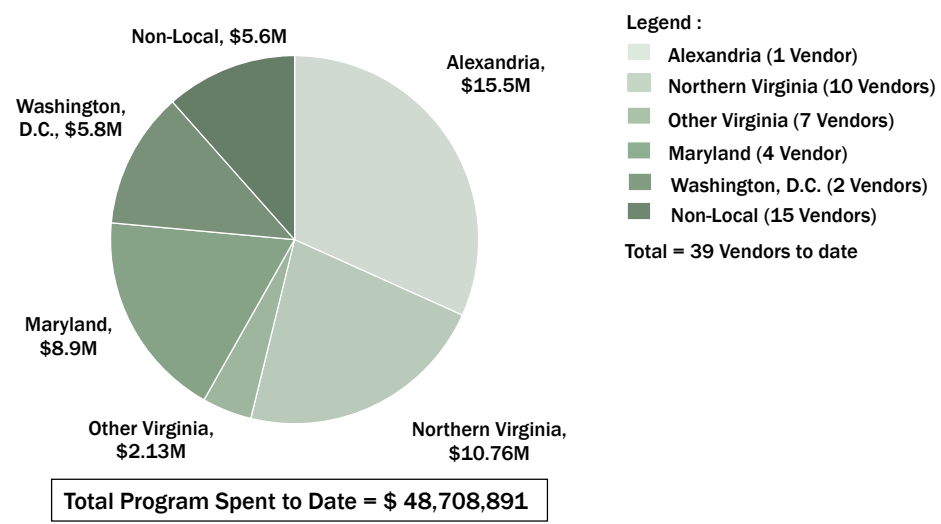
RiverRenew Board of Directors Dashboard // Month Ending: May 31, 2020



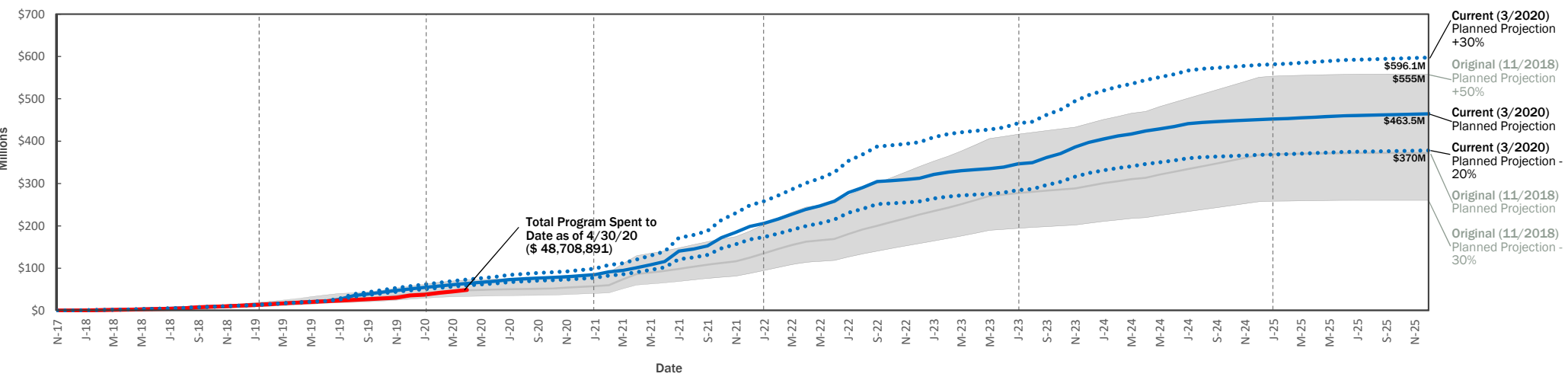
Project to Date Cost by Phase



RiverRenew Spent to Date by Locality



RiverRenew Cashflow Analysis





Summary of Accomplished Milestones

Date:	Accomplished Milestones:
Week of 5/11/2020	Tunnel System Project Confidential Meeting No.1 (1 day per Shortlisted Team during this week)


Tunnel System Contract Permit Status and Descriptions

Permit/Activity:	Anticipated Date of Completion:	Status:	Description:
National Park Service (NPS) Special Use Permits (SUP)	Completed	● Received modified SUPs for Jones Point Park on 7/23/2019 and for Potomac River on 7/25/2019	Required for Phase B geotechnical investigations within Jones Point Park and Potomac River
U.S. Army Corps of Engineers (USACE) Nationwide Permit (NWP) #6	Completed	● Received modified NWP #6 on 7/25/2019	Required for Phase B geotechnical investigations within Potomac River and/or wetlands
Virginia Department of Transportation (VDOT) Land Use Permits (LUP)	Completed	● Issued Land Use Permit on 12/6/2019	Required for deep tunnel crossing under, and geotechnical investigations within VDOT limited access right-of-way
City of Alexandria Development Special Use Permit (DSUP) Tunnel System (DSUP No. 2018-0020)	Completed	● Received unanimous City Council approval on 7/9/2019	Required for the approval of RiverRenew's tunnel system and diversion facilities
City of Alexandria Development Special Use Permit (DSUP) Tunnel Dewatering Pumping Station (DSUP No. 2019-0013)	Completed	● Received unanimous City Council approval on 9/14/2019	Required for the approval of the new Tunnel Dewatering Pumping Station and associated superstructure
Environmental Assessment (EA)	Completed	● Finding of No Significant Impact (FONSI) issued 4/14/20	Required to comply with the National Environmental Policy Act (NEPA) as RiverRenew will need NPS permits. Prepared in coordination with the NPS as the lead federal agency
Joint Permit Application	June 2020	● Submitted permit application on 9/12/2019 Application review and interagency coordination ongoing	Required application for Clean Water Act permits. A single application is sent to USACE, Virginia Department of Environmental Quality (VDEQ) and Virginia Marine Resources Commission (VMRC) to request authorization for all RiverRenew wetland/stream impacts
NPS Construction/Right-of-Way Permits	June 2020	● Submitted permit application for work within Jones Point Park on 11/26/2019 Submitted permit application for work within Potomac River bed on 12/16/2019 Application review and interagency coordination ongoing	Required for diversion facility construction within, and deep tunnel crossing under Jones Point Park. Also required for Outfall 001 extension and deep tunnel crossing under Potomac River bed
Flood Emergency Management Agency (FEMA) Letter of Map Revision (LOMR)	N/A	● City determined the Tunnel System project has no significant impact on floodplain	No LOMR required from FEMA
U.S. Army Corps of Engineers (USACE) Nationwide Permit (NWP) #18	Completed	● NWP #18 received 6/10/2019	Required for wetland impacts associated with contractor trailers, staging, and laydown areas on the WRRF campus.



RiverRenew Accomplishments *

Third Party Coordination

-  **19** Permits Approved
  **9** Permits Underway
-  **4** Easements Executed
  **6** Easements Underway
-  **Environmental Assessment**
Published June 2019
-  **VPDES Permit**
Issued September 2018
-  **Clean Water Revolving Loan Fund**
Preliminary Approval October 2019
-  **Water Infrastructure Finance and Innovation Act**
Letter of Interest Accepted & Invitation to Apply October 2019
-  **Virginia \$25M CSO Grant Approved by GA**
-  **Finding of No Significant Impact (FONSI)**
Issued April 2020

Planning & Design

-  **Long Term Control Plan Update**
Approved June 2018
-  **Ownership of Outfalls Transferred**
June 2018
-  **Preliminary Engineering Report**
Finalized 2019
-  **Tunnel DSUP**
Approved July 2019
-  **Tunnel System Bidding Documents**
RFP at 60% Completed September 2019
-  **81 Soil Borings Completed**
-  **Tunnel System RFQ**
Shortlist October 2019
-  **Tunnel System Bidding Documents**
RFP at 100% Completed February 2020
-  **Tunnel System Resident Engineering and Inspection (RE&I) contract Awarded**
April 2020

Community Engagement

-  **42** Events Hosted
-  **48** Community Presentations
-  **RiverRenew.com**
Launched July 2018

Construction

 **\$27M**
Awarded for Construction

* Since January 2018



Program Breakdown Summary by Project

<p>108 to 116 MGD Expansion</p>	<p>Upgrade front-end capacity of the plant from 108 to 116 mgd</p>	<ul style="list-style-type: none"> • Upgrade of the primary effluent pumps • Modifications to the filter effluent backwash
<p>Building J Facilities Relocation and Decommissioning</p>	<p>Building J relocation of building uses and demolition</p>	<ul style="list-style-type: none"> • Relocation of WRRF lab, WRRF electrical equipment, and WRRF chillers • Construction of a new lab • Disconnection and relocation of building utilities • Demolition of Building J and hauling of materials off-site • Building G/2 roof replacement
<p>Tunnel System</p>	<p>Waterfront Tunnel</p>	<p>Storage and conveyance tunnel to control overflows from Outfalls 001 and 002</p> <ul style="list-style-type: none"> • Installation of a 12-ft inside diameter reinforced concrete tunnel • Construction of four shafts ranging from 35 to 65 feet inside diameter, two diversion chambers, and one overflow structure • Installation of two below-grade ventilation control vaults
	<p>Hooffs Run Interceptor</p>	<p>Diversion sewer to control overflows from Outfalls 003 and 004</p> <ul style="list-style-type: none"> • Installation of an open-cut diversion sewer with an inside diameter of 6-ft which will replace a portion of the existing Commonwealth Interceptor • Construction of one diversion chamber • Relocation of Outfall 004
	<p>Tunnel Dewatering and Wet Weather Pumping Station</p>	<p>Installation of tunnel dewatering pumps and wet weather pumps</p> <ul style="list-style-type: none"> • Installation of a 20 mgd pumping station and 130 mgd pumping station in a 65-ft diameter shaft • Installation of a screening facility and gantry crane in a 35-ft diameter shaft • Superstructure to house gantry crane and odor control equipment • Installation of electrical and instrumentation equipment
	<p>WRRF Site Security and Access</p>	<p>Improvements to four existing gates and perimeter fencing</p> <ul style="list-style-type: none"> • Installation of one new rollup gate and security booth under garage overhang south of Limerick Street • Installation of a new walkway along the South Bridge crossing Hooffs Run • Replacement of three existing gates and installation of three security booths