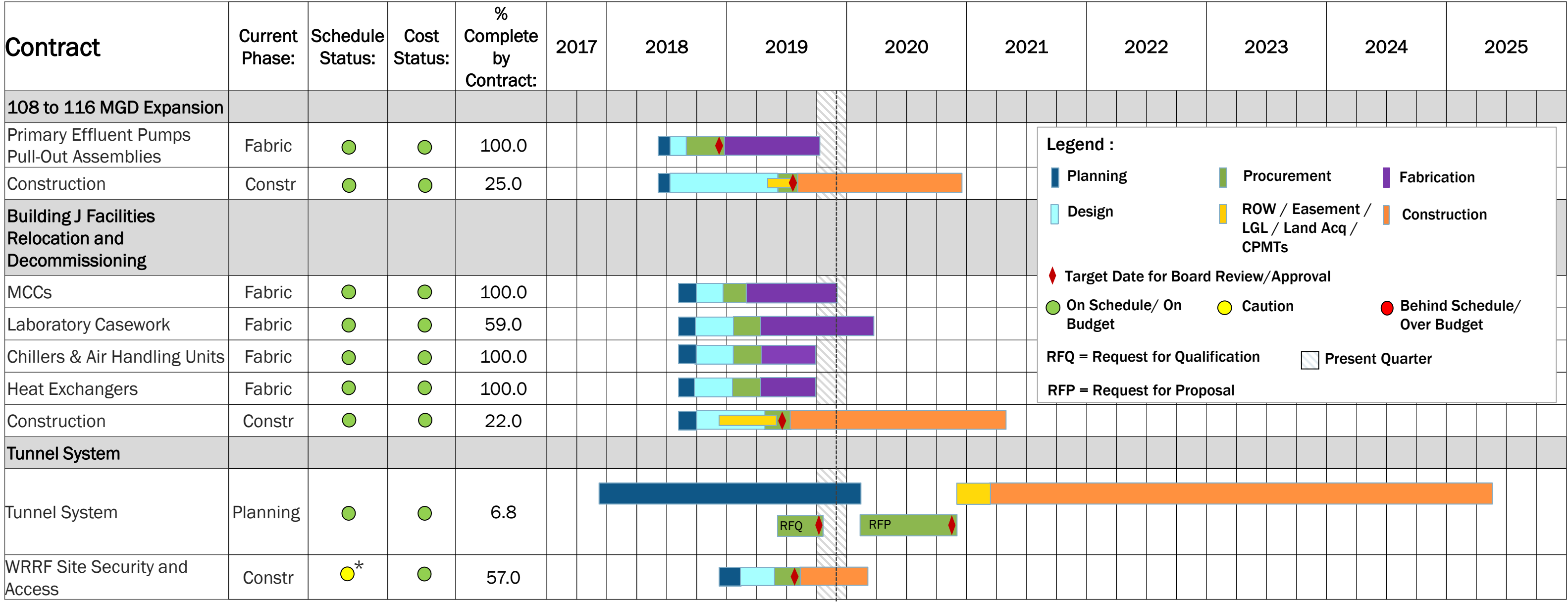


# Program Schedule



\* Contractor issue with receipt of permits and submission of shop drawings. No impact to Tunnel System Project anticipated at this time.

November 30, 2019

## Summary of Upcoming Activities

Date:	Upcoming Activities:
2/11/2020	Issue Request For Proposal (RFP) for RiverRenew Tunnel System Project

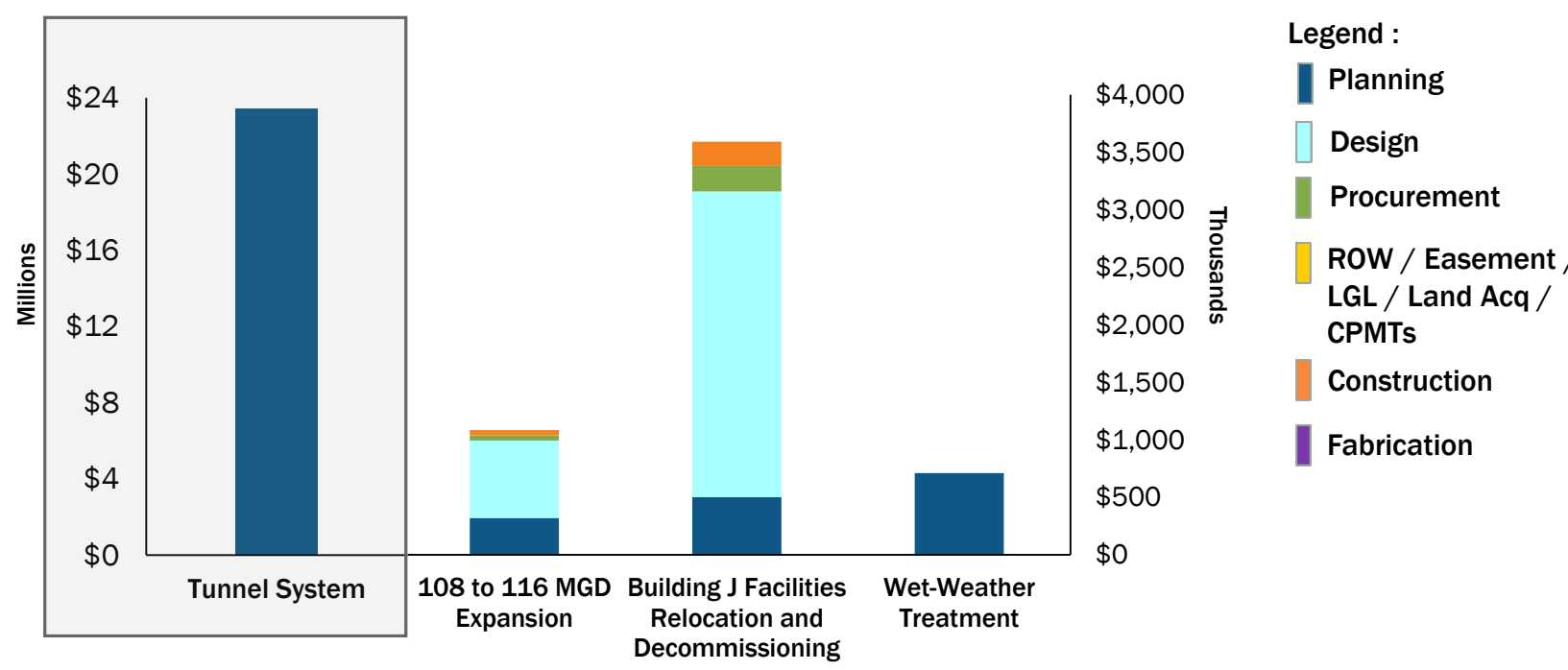


# Contract Award Status

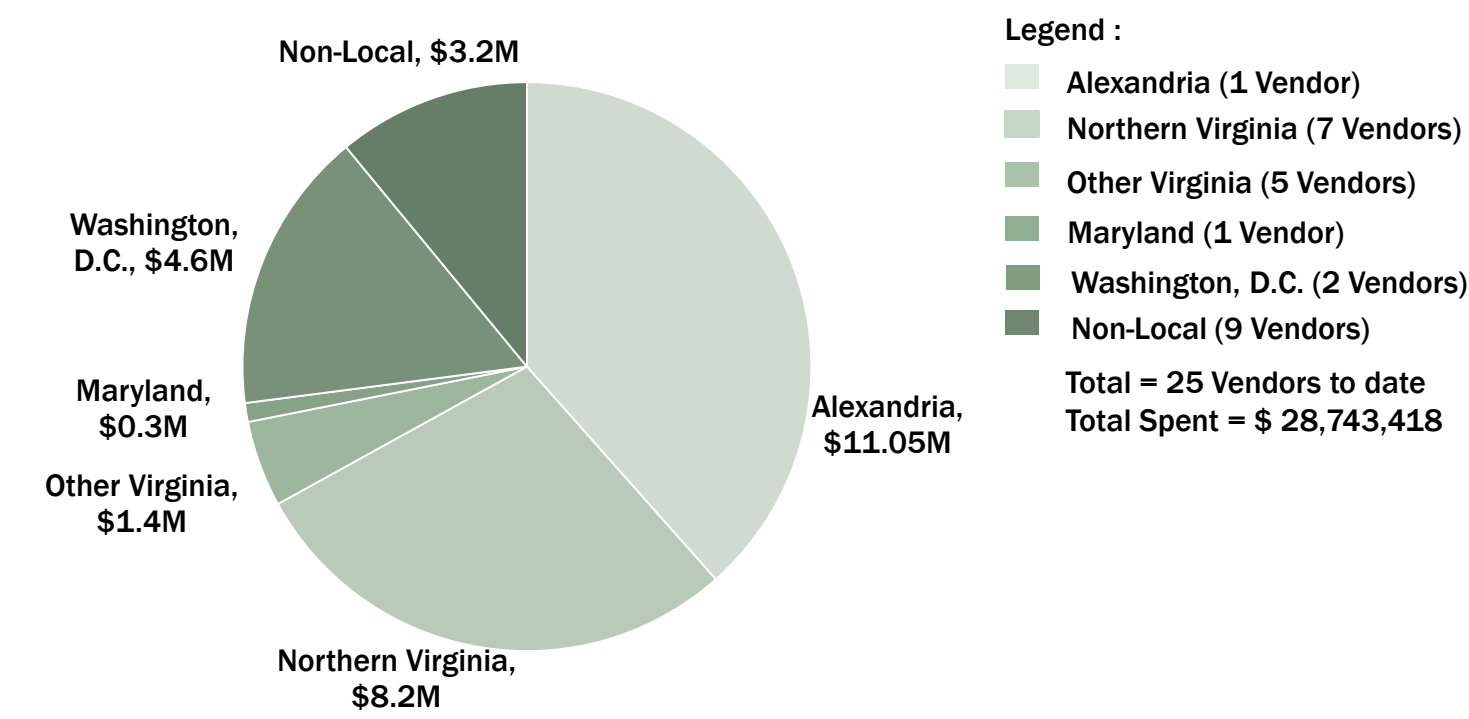
Contract	Contract No.:	Date of Contract Award:	Vendor:	Contract Amount:	Notice to Proceed:	Construction / Services Start Date:	Construction / Services Finish Date:
<b>108 to 116 MGD Expansion</b>							
Primary Effluent Pumps Pull-Out Assemblies	19-001	12/19/2018	Flowserve	\$235,478 <sup>3</sup>	12/20/2018	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 <sup>1</sup>	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) <sup>2</sup>	14-017-2	7/11/2019	CH2M Hill Engineers, Inc	\$280,320	N/A	7/12/2019	11/30/2020
<b>Building J Facilities Relocation and Decommissioning</b>							
MCCs	19-016	2/26/2019	Rexel	\$42,068 <sup>4</sup>	2/27/2019	2/27/2019	10/30/2020
Lab Casework	19-017	4/4/2019	Nycom	\$64,846 <sup>5</sup>	4/8/2019	4/8/2019	10/30/2020
Chillers and Air Handling Units	19-018	4/1/2019	Johnson Controls	\$435,522	4/3/2019	4/3/2019	10/30/2020
Heat Exchangers	19-019	4/1/2019	United Energy Products	\$7,636 <sup>6</sup>	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) <sup>2</sup>	18-006	6/11/2019	CH2M Hill Engineers, Inc	\$885,963	N/A	7/1/2019	3/30/2021
Wastewater Services Resident Engineering & Inspection <sup>1</sup>	19-031	6/11/2019	Hazen and Sawyer, P.C.	\$994,924	N/A	7/2/2019	6/30/2024
<b>Tunnel System</b>							
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
Wastewater Services Resident Engineering and Inspection <sup>1</sup> (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 <sup>1</sup> (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
Total				\$44,276,479			

<sup>1</sup> 'Wastewater 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  
<sup>2</sup> 'Engineering Services During Construction (ESDC)' amounts reported are through FY2020.  
<sup>3</sup> Original contract award was for \$941,911. Remaining contract value of \$706,434 assigned to Contract 19-072 as of September 6, 2019.  
<sup>4</sup> Original contract award was for \$280,453. Remaining contract value of \$238,385.02 assigned to Contract 19-064 as of October 31, 2019.  
<sup>5</sup> Original contract award was for \$432,307. Remaining contract value of \$367,461 assigned to Contract 19-064 as of November 12, 2019.  
<sup>6</sup> Original contract award was for \$51,757. Remaining contract value of \$44,121 assigned to Contract 19-064 as of November 15, 2019.

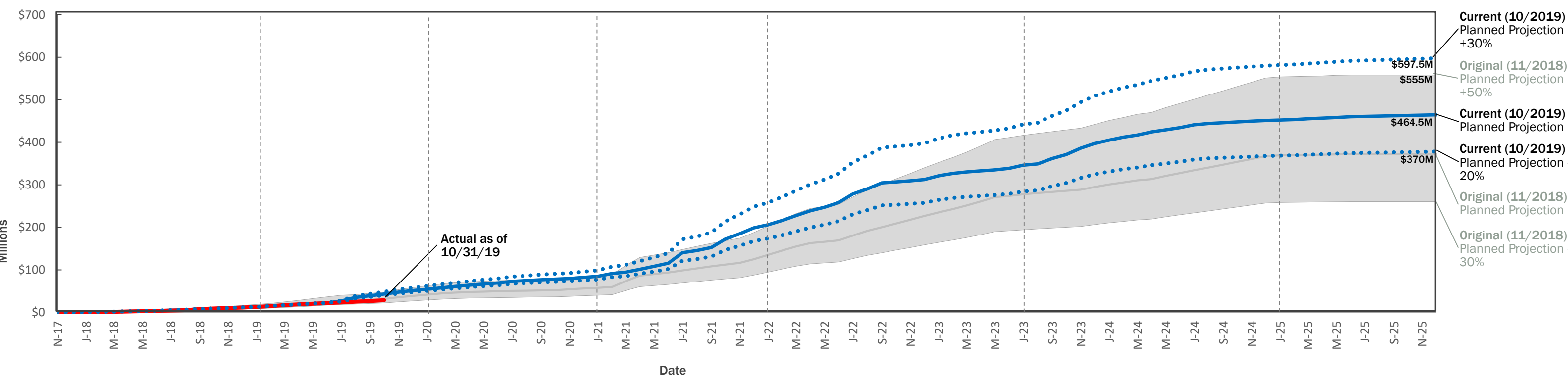
## Project to Date Cost by Phase\*



## RiverRenew Spent to Date by Locality\*



## RiverRenew Cashflow\* Analysis\*
























## Summary of Accomplished Milestones

Date:	Accomplished Milestones:
11/19/2019	AlexRenew Board authorized acquisition of easements and authorized condemnation
11/20/2019	RiverRenew Tunnel System Resident Engineering & Inspection RFP Pre Proposal Meeting and Site Tour
12/3/2019	Council-Board Workgroup Meeting
12/6/2019	VDOT Land Use Permit
12/6/2019	U.S. Fish and Wildlife Bald Eagle Incidental Take Permit Amended
12/12/2019	Stakeholder Advisory Group Meeting No. 6

## Tunnel System Contract Permit Status and Descriptions

Permit/Activity:	Anticipated Date of Completion:	Status:	Description:
National Park Service (NPS) Special Use Permits (SUP)	<b>Completed</b>	● 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	<b>Completed</b>	● 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)	<b>Completed</b>	● 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)	<b>Completed</b>	● 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)	<b>Completed</b>	● 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)	January 2020	● EA was issued on 6/19/2019. Public Comment period ended 7/19/2019. NPS concurred with draft FONSI and will issue Decision Document upon execution of Programmatic Agreement	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	1/15/2020	● Submitted permit application on 9/12/2019	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	2/1/2020	● Submitted permit application for work within Jones Point Park on 11/26/2019 Finalizing permit application for work within Potomac River bed	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	<b>Completed</b>	● 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	Planning & Design	Community Engagement	Construction
 <b>16</b> Permits Approved	 Long Term Control Plan Update Approved June 2018	 <b>37</b> Events Hosted	 <b>\$24M</b> Awarded for Construction
 <b>11</b> Permits Underway	 Ownership of Outfalls Transferred June 2018	 <b>43</b> Community Presentations	
 <b>10</b> Easements Underway	 Preliminary Engineering Report Finalized March 2019	 RiverRenew.com Launched July 2018	
 Environmental Assessment Published June 2019	 Tunnel System Bidding Documents RFP at 60% Completed September 2019		
 VPDES Permit Issued September 2018	 <b>77</b> Soil Borings Completed		
 Clean Water Revolving Loan Fund Preliminary Approval October 2019	 Tunnel System RFQ Shortlist October 2019		
 Water Infrastructure Finance and Innovation Act Letter of Interest Accepted & Invitation to Apply October 2019	 Tunnel DSUP Approved July 2019		
 Virginia \$25M CSO Grant Approved by GA			

\* Since January 2018



# Program Breakdown Summary by Project

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