

Tuesday, September 15, 2026 – 6:00 p.m.

Regular Board of Directors Meeting Agenda

In-person: AlexRenew Environmental Center (1800 Limerick St)
Ed Semonian Boardroom, Room 600

Virtual: [Join virtually on Microsoft Teams](#)

If you wish to provide public comment or a written statement, please contact Lorna Huff, Board Executive Assistant, at (703) 721-3500 ext. 2260 or lorna.huff@alexrenew.com in advance of the meeting. If you need an interpreter, translator, materials in alternate format or other accommodation, contact the Board Executive Assistant at least three business days prior to the meeting. This meeting will be recorded. The recording, which may include the images and voices of attendees and speakers, will be retained and posted publicly as part of AlexRenew's public records and communications. Meeting recordings are available to view at alexrenew.com.

No.	Time	Item	Presenter	Action
1.	6:00 p.m.	Call to Order	Chair	
2.	6:02 p.m.	Approval of Agenda	Chair	Motion
3.	6:05 p.m.	Public Comment Period	Chair	
4.	6:10 p.m.	Consent Agenda	Chair	Motion
5.	6:15 p.m.	a. Minutes from July 21, 2026 meeting (Tab 1) Board Administrative Items	Chair	Information
		a. Board Calendar (Tab 2)		
		b. Finance and Audit Committee – November <i>TBD</i>		
		c. Governance Committee – October <i>TBD</i>		
		d. Board Retreat – January 29-30, 2027		
6.	6:25 p.m.	New Business	CEO	
		a. Preview of the new alexrenew.com		Information
		b. 2027 Virginia General Assembly Session Legislative Priorities		
		c. Update on Tunnel System Operations (Tab 3)		
		d. Review and approve Regional Biosolids Feasibility Study Phase II (Tab 4)		Motion
		e. Review and approve change order for Contract 25-004 for the Nutrient Reduction Project (Tab 5)		Motion
		f. Review and approve Contract 26-011 for Solids Thermal Drying System (Tab 6)		Motion
7.	7:45 p.m.	AlexRenew Monthly Report (Tab 7)	CEO	Information
8.	7:55 p.m.	Review and approve resolution recognizing the contributions of Board Member Mark Jinks	Chair	Motion
9.	8:00 p.m.	Adjourn	Chair	Motion

Times shown are approximate start times and serve as guidelines.

Minutes of the 942nd Meeting
AlexRenew Board of Directors
6:00 p.m., Tuesday, July 21, 2026

On Tuesday, July 21, 2026, the AlexRenew Board of Directors held its regular meeting in the Ed Semonian Board Room at 1800 Limerick Street, and broadcast via Microsoft Teams, with the following present:

Members: Mr. John Hill, Chair
Mr. James Beall, Vice Chair
Ms. Becky Hammer, Secretary-Treasurer
Mr. Mark Jinks, Member
Dr. Moussa Wone, Member via Microsoft Teams

Staff: Mr. Justin Carl, General Manager/CEO
Ms. Allison Deines, Chief of Water Quality
Ms. Caitlin Feehan, Chief Administrative Officer
Mr. Lake Akinkugbe, Director of Finance
Mr. Matt Robertson, Chief of Strategic Communications
Mr. Ryan Payne, RiverRenew Program Manager
Mr. Chuck Phillips, Chief Operator
Mr. Kevin Pilog, Engineering Manager
Mr. Larry Mann, IT audio-visual support
Ms. Lorna Huff, Executive Assistant to the Board and CEO

Fairfax County
Representative: Mr. Bill Barrack, Director, Wastewater Planning and Monitoring Division

City Representative: Ms. Erin Bevis-Carver, Chief, T&ES/Sanitary Infrastructure Division

1. Call to Order

The Chair called the meeting to order at 6:00 p.m.

2. Approval of Agenda

Motion by Ms. Hammer. Second by Mr. Beall. Passed unanimously.

3. Public Comment Period

No public speakers. Comment period is closed.

4. Consent Agenda

Minutes: June 16, 2026, Regular Meeting

Motion by Mr. Jinks. Second by Mr. Beall. Passed unanimously.

5. Board Administrative Items

a. Election of Officers

July serves as the Board's Annual meeting and election of officers. Mr. Jinks moved to elect the current slate of officers: Chair: John Hill; Vice Chair: Mr. Beall; and Secretary-Treasurer: Ms. Hammer.

Second by: Mr. Beall. Passed unanimously

- b. Board Calendar
July 27, 2026 – 70th Anniversary of the operational start of AlexRenew.
January 29-30, 2027 – Board Retreat to include a forward-thinking exercise as to how the organization can evolve.
- c. Finance and Audit Committee – *Nothing to report*
- d. Governance Committee – *Nothing to report*
- e. Staff introductions
Mr. Larry Mann, IT audiovisual support
Mr. Chuck Phillips, Chief Operator

6. New Business

a. Review and Approval of FY 2026 Customer Account Write-offs

Ms. Feehan presented the recommended write-offs for inactive customer accounts for Fiscal Years 2025 and 2026. She reviewed the criteria for write-offs in AlexRenew's Financial Policy and the CEO's delegated authority for write-offs. The CEO may approve write-offs of less than \$1,500; write-offs greater than \$1,500 require Board approval. The write-off process begins with past-due notices on bills, followed by additional notifications by phone, email, and certified letter before disconnection.

FY2026 write-offs totaled \$145,000 across 310 accounts. Of that amount, \$88,854.52 required Board approval. Residential accounts were approved for write-off, while commercial accounts will undergo additional collection efforts through the City's process before the CEO makes a final determination.

There were no questions or comments. The Chair requested a motion to approve the FY 2026 customer write-offs.

Motion by: Mr. Jinks. Second by: Mr. Beall. Passed unanimously.

b. Review and Approval of Changes to the Payment Assistance Program

Mr. Robertson provided an overview of LEAP and the amount disbursed to date. Staff recommended allowing disbursements more than once per year and incentivizing customers to complete payment plans. Other proposed updates include revising the LEAP language on the website to focus on incentives and bill credits.

There being no additional discussion; the Chair requested a motion to approve.

Motion by: Ms. Hammer. Second by: Mr. Beall. Passed Unanimously.

c. Tunnel System Operations Update

The tunnel system had been operational for 22 days as of July 21 and has captured 11.3 million

gallons across four measurable events. The largest event captured eight million gallons, approximately 44% of tunnel capacity. Remaining work includes building finishes, photovoltaic system work, landscaping, paving, elevator installation, site restoration, utility connections, and odor control commissioning.

Program spending totaled \$594.8 million to date. Approximately 34% of project funds have been spent in Alexandria, and 78% within the District of Columbia, Maryland, and Virginia region. Staff confirmed invoices are current and no major unresolved contractor claims are expected

d. Biosolids Management Approach

Ms. Deines reviewed new Virginia biosolids requirements for PFOA and PFOS and presented AlexRenew's proactive mitigation strategy. Current sampling shows variable PFAS concentrations in biosolids, with no apparent significant industrial contributor identified in the collection system. AlexRenew has stopped land application of biosolids and established an interim disposal partnership with Reworld Fairfax. The long-term strategy remains focused on progressing and completing the biosolids diversification project to support thermal drying, volume reduction, and potential local energy recovery.

e. Presentation on Proposed Change Orders to Contract 25-004 for the Nutrient Reduction Project

Staff presented the proposed contract packaging for the Nutrient Reduction Project, which is part of the PhaseForward program. The project will rehabilitate the tertiary system and expand plant capacity by four million gallons per day to support future growth and allocation requirements. The total capital cost remains budgeted at \$190 million. A design change order for tertiary settling tank upgrades is expected to be presented to the Board for approval in September. The Chair requested a monthly report on cash flows for the PhaseForward project.

7. Monthly Report.

Preliminary Fiscal Year 2026 (FY2026) Financial Results

The CEO recognized Mr. Akinkugbe who referenced Table 5.1 of the monthly report. Preliminary FY2026 revenue totaled approximately \$190 million, which was \$68 million under budget primarily due to lower capital spending, lower Fairfax capital contributions, and lower debt proceeds. Wastewater treatment charge revenue was approximately \$1 million below budget, due to lower-than-anticipated late fees. Dr. Wone asked about lower-than-expected capital spending. Mr. Akinkugbe reported that spending on the PhaseForward program began later than anticipated, along with reduced project scope. Operating expenses totaled \$37.6 million, approximately \$3.3 million below budget, primarily due to alternative biosolids disposal reserves not being fully used during the fiscal year.

Capital spending including the Improvement, Renewal and Replacement (IRR) program totaled approximately \$132 million, about \$65 million below budget. Days cash on hand ended at 711 days, above the Board target of 270 days and in line with the AAA median. Debt service coverage ended at 2.2, above the Board policy target of 1.6 and the budget target of 2.0. The FY2026 audit is underway with completion expected by November 30, 2026.

Delinquencies and LEAP Dashboard

Mr. Robertson reported a decrease of 105 delinquent accounts bringing the total number to 668, the lowest level since staff began tracking this. Due to the hot weather, only twenty customers were

disconnected last month.

LEAP has assisted 240 customers since inception. Mr. Robertson reviewed the payment plan incentives for the 12-month plan. Staff will add enhancements to the dashboard to distinguish unique customers assisted.

PhaseForward Dashboard

Mr. Carl noted the revamped dashboard. Cash flow reporting will be included in the next report.

The CEO announced that this will be Ms. Bevis-Carver's last meeting and the promotion of Mr. Robertson to Chief Strategic Communications Officer.

Adjourn: Motion by Mr. Jinks. Second by Ms. Hammer. Passed unanimously.

The meeting adjourned at 8:00 p.m.

Approved:

Becky Hammer
Secretary-Treasurer

AlexRenew Board of Directors Calendar

September 2026							October 2026							November 2026						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5					1	2	3	1	2	3	4	5	6	7
6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14
13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21
20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28
27	28	29	30				25	26	27	28	29	30	31	29	30					

December 2026							January 2027							February 2027						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5						1	2		1	2	3	4	5	6
6	7	8	9	10	11	12	3	4	5	6	7	8	9	7	8	9	10	11	12	13
13	14	15	16	17	18	19	10	11	12	13	14	15	16	14	15	16	17	18	19	20
20	21	22	23	24	25	26	17	18	19	20	21	22	23	21	22	23	24	25	26	27
27	28	29	30	31			24	25	26	27	28	29	30	28						
							31													

Legend

Board of Directors Meeting

AlexRenew Observed Holidays

Board Committee Meeting

AlexRenew Events

Conference

HOA, Civic Association, and Commission Meetings

Community/Business Events

February
16: Regular Meeting
16-19: Utility Management Conference (Vancouver, BC)
24: AFCA Meeting

September
7: Labor Day
10: ALX Chamber Legislative Reception
14-17: Virginia WaterJAM Conference
15: Regular Meeting
18: COG CBPC Meeting
26-30: WEFTEC
30: AFCA Meeting
October
17: Spooky Mad Science Expo
20: State Water Commission
20: Regular Meeting
24: Eco-City Alexandria
28: AFCA Meeting
TBD: Governance Committee Fall Meeting
November
11: Veterans Day
17: Regular Meeting
20: COG CBPC Meeting
25: AFCA Meeting
26/27: Thanksgiving
TBD: Finance and Audit Committee Fall Meeting
December
15: Regular Meeting
24/25: Christmas
30: AFCA Meeting
January
1: New Years Day
18: Martin Luther King Jr. Day
19: Regular Meeting
27: AFCA Meeting
29/30: Board Retreat
TBD: COG CBPC Meeting

AlexRenew Board of Directors Calendar

March 2027							April 2027							May 2027						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3							1
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22
28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29
														30	31					

June 2027							July 2027							August 2027						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5					1	2	3	1	2	3	4	5	6	7
6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14
13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21
20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28
27	28	29	30				25	26	27	28	29	30	31	29	30					

Legend

Board of Directors Meeting

AlexRenew Observed Holidays

Board Committee Meeting

AlexRenew Events

Conference

HOA, Civic Association, and Commission Meetings

Community/Business Events

July
1: Beginning of Fiscal Year 2028
4: July 4 (observed)
20: Regular Meeting
27: Anniversary of AlexRenew Operations (1956)
TBD: AFCA Meeting
TBD: COG CBPC Meeting
August
No meetings

March
16: Regular Meeting
TBD: Finance and Audit Committee Meeting
TBD: City Manager’s Breakfast
TBD: Chamber ALX General Assembly Breakfast
TBD: Utility Management Conference
TBD: COG CBPC Meeting
TBD: AFCA Meeting
TBD: ALX Chamber Women’s Leadership Forum
April
17: RiverRenew Gala
20: Regular Meeting
TBD: Governance Committee Meeting
TBD: Del Ray GardenFest
TBD: AFCA Meeting
TBD: Hooffs Run Waterway Cleanup
May
15: Public Hearing (anticipated)
18: Regular Meeting
31: Memorial Day
TBD: AFCA Meeting
TBD: COG CBPC Meeting
TBD: Bike to Work Day
June
15: Regular Meeting
18: Juneteenth (observed)
30: Virginia Water/Wastewater Professionals Appreciation Day
TBD: AFCA Meeting
TBD: Alexandria Pride Event



AlexRenew

TUNNEL SYSTEM OPERATIONS UPDATE

BOARD OF DIRECTORS UPDATE | SEPTEMBER 15, 2026

Summary of Tunnel Events (since June 29, 2026)

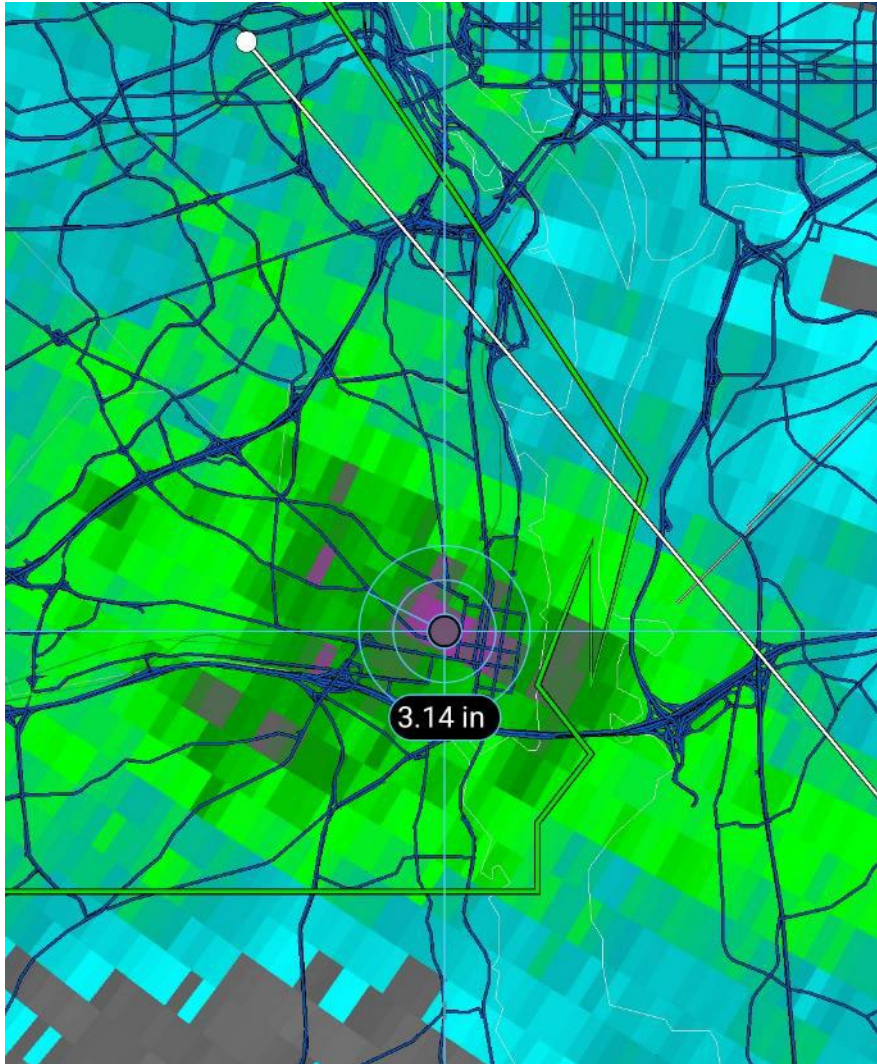
Date	Rainfall (inches)	Peak Intensity (inches/hour)	Captured Volume (million gallons)	Overflow Volume (million gallons)	Tunnel % Full	# of Overflow Events
Jul 2026 (total)	4.19	--	26.9	0	--	0
Aug 2026 (total)	4.50	--	25.4	0	--	0
9/2/2026	0.51	2.28	3.5	0	30%	0
9/4/2026	3.14	4.20	18.0	1	100%	1
9/11/2026	0.53	0.96	3.8	0	14%	0

77.6 million
gallons
captured

003.9

tons of total debris collected

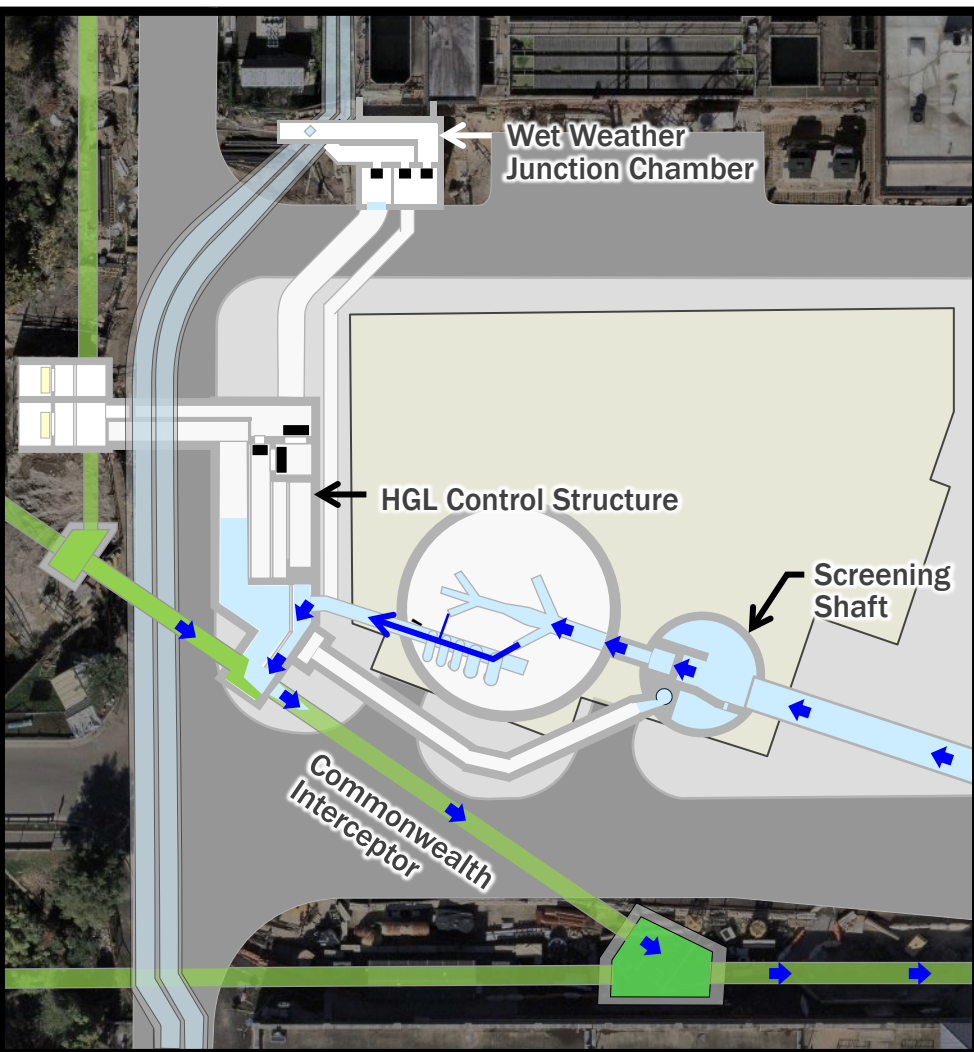
Tunnel System in Action: Sept 4, 2026



On September 4, 2026, the RiverRenew Tunnel System experienced the most intense rain event to date. Approximately 3.14 inches fell in Alexandria's combined sewer area.

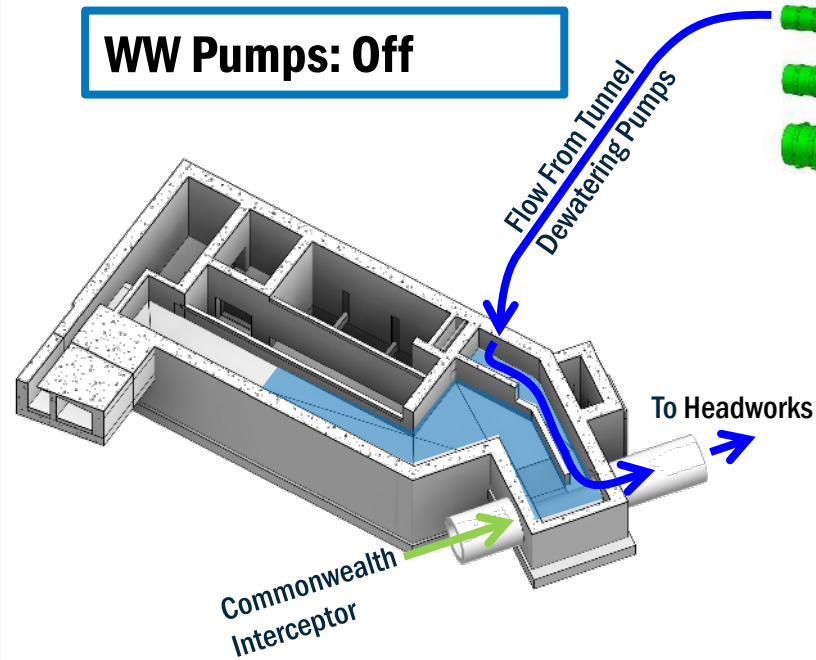


Tunnel System in Action: Sept 4, 2026

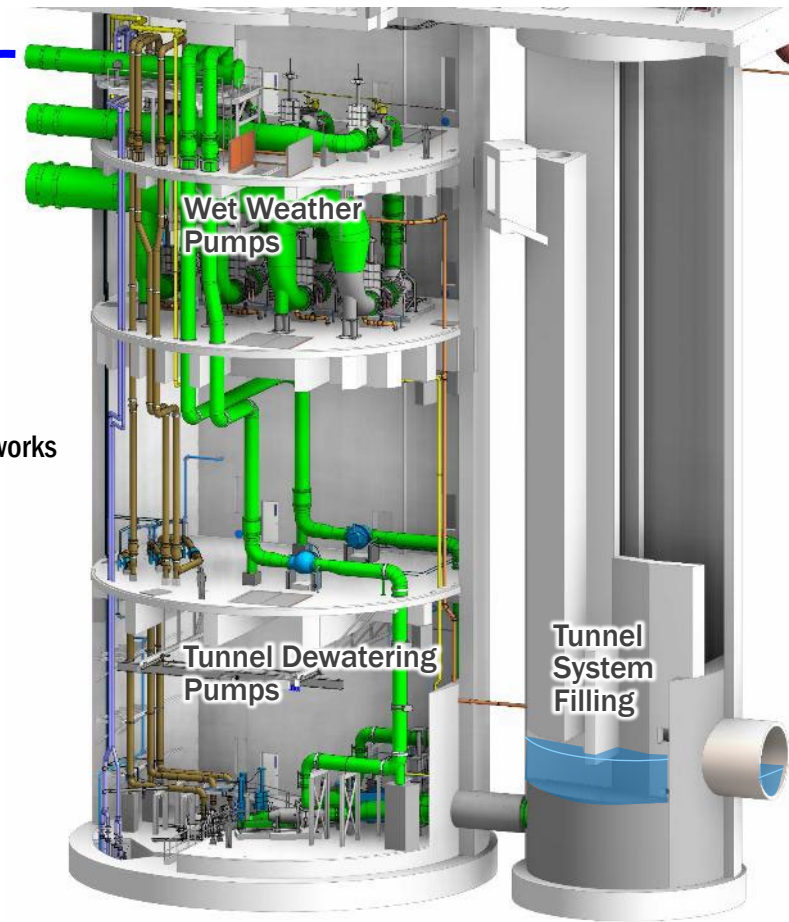


TD Pumps: On

WW Pumps: Off

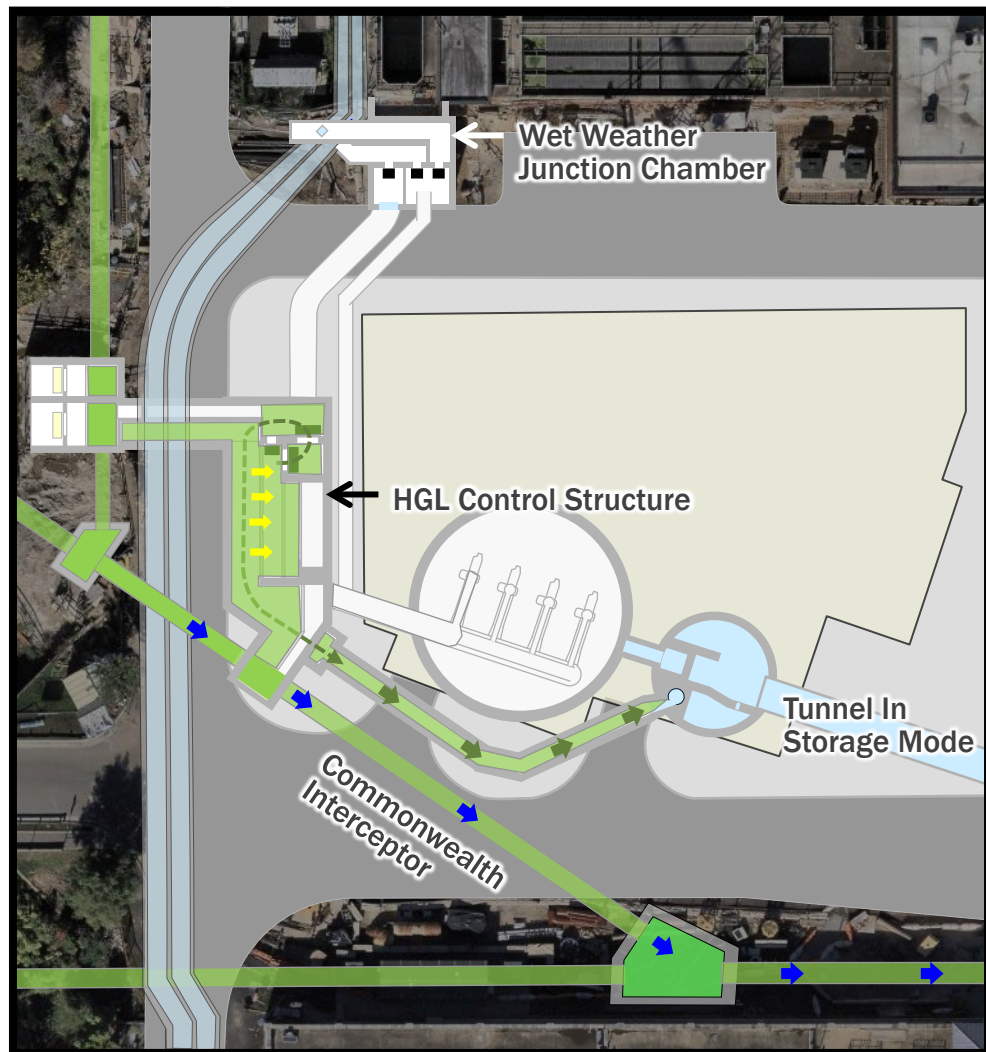


Plant: < max Capacity



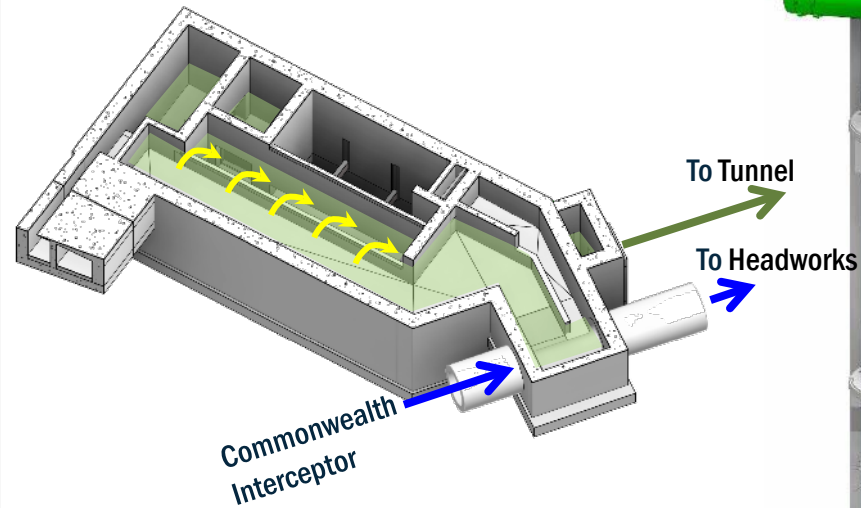
On September 4, 2026, the RiverRenew Tunnel System experienced the most intense rain event to date. A total of 18 million gallons of CSO were captured by the system. At the height of the storm 1 million gallons overflowed at CSO 019 (Pendleton/Potomac) and CSO 020 (Royal/Hunting Creek). The RiverRenew tunnel system reduced CSOs by 95% during this event.

Tunnel System in Action: Sept 4, 2026

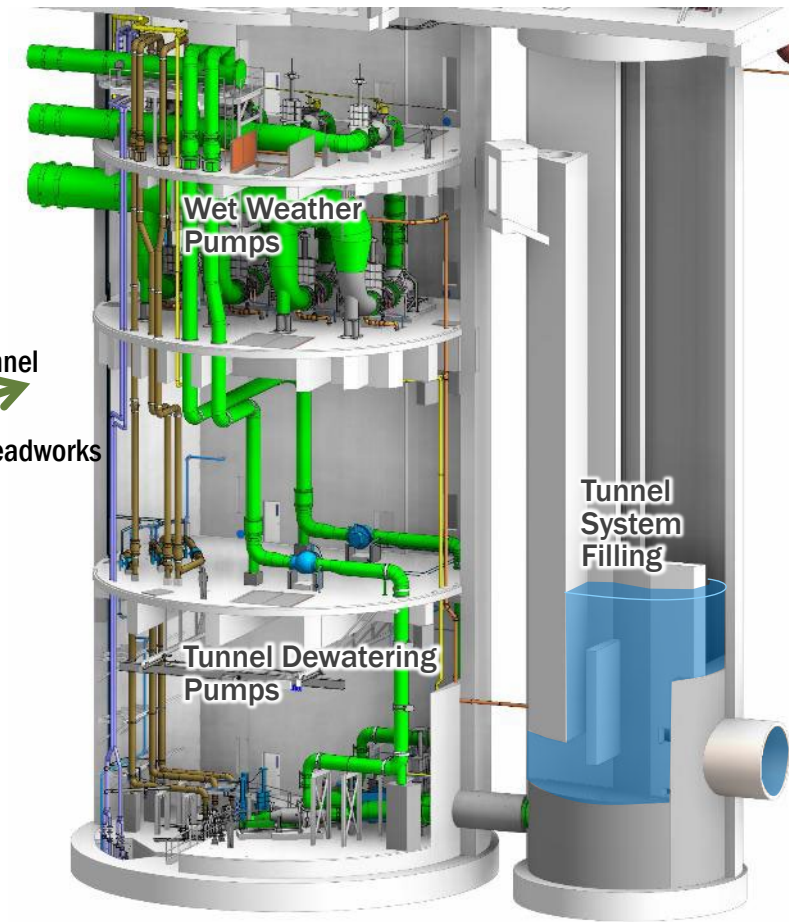


TD Pumps: Off

WW Pumps: Off

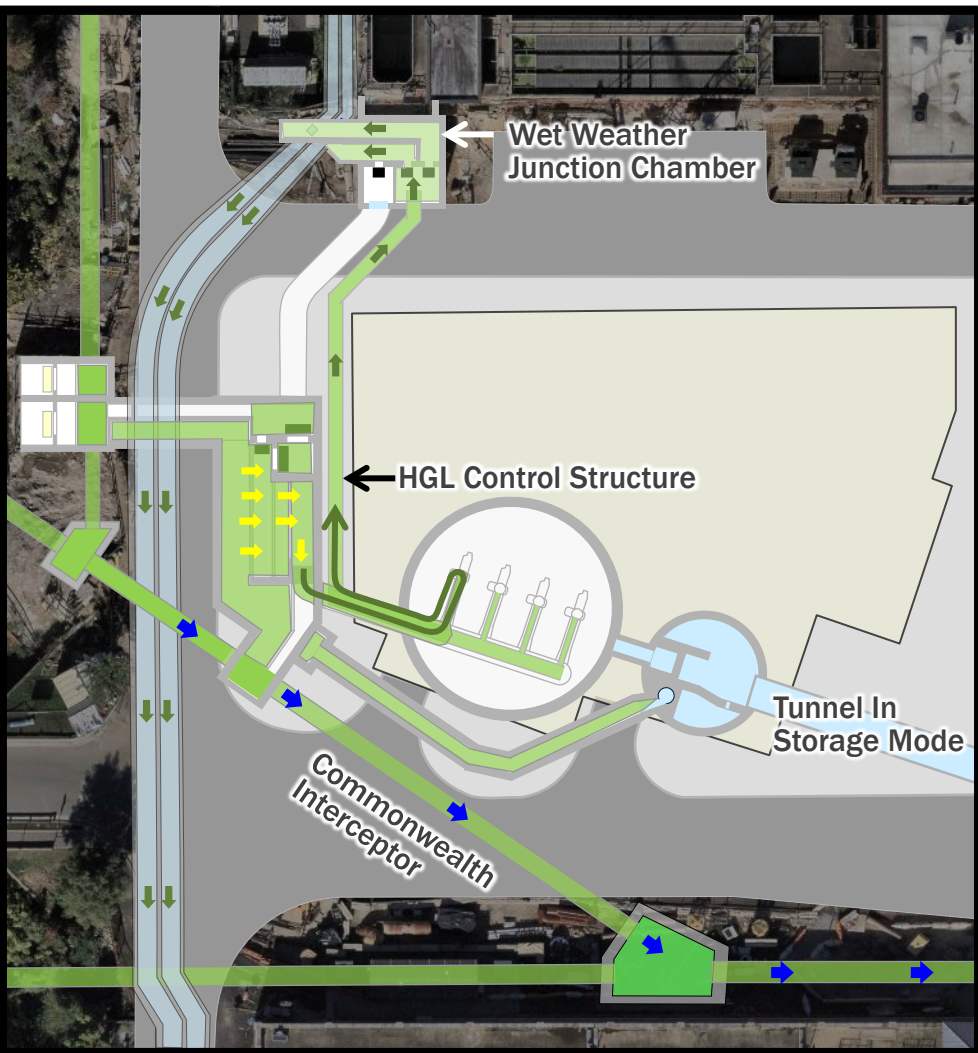


Plant: at max Capacity



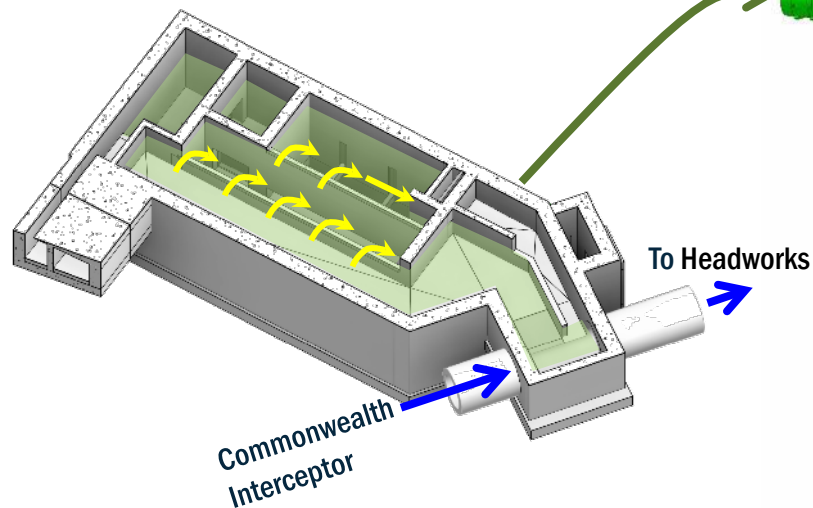
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Tunnel System in Action: Sept 4, 2026

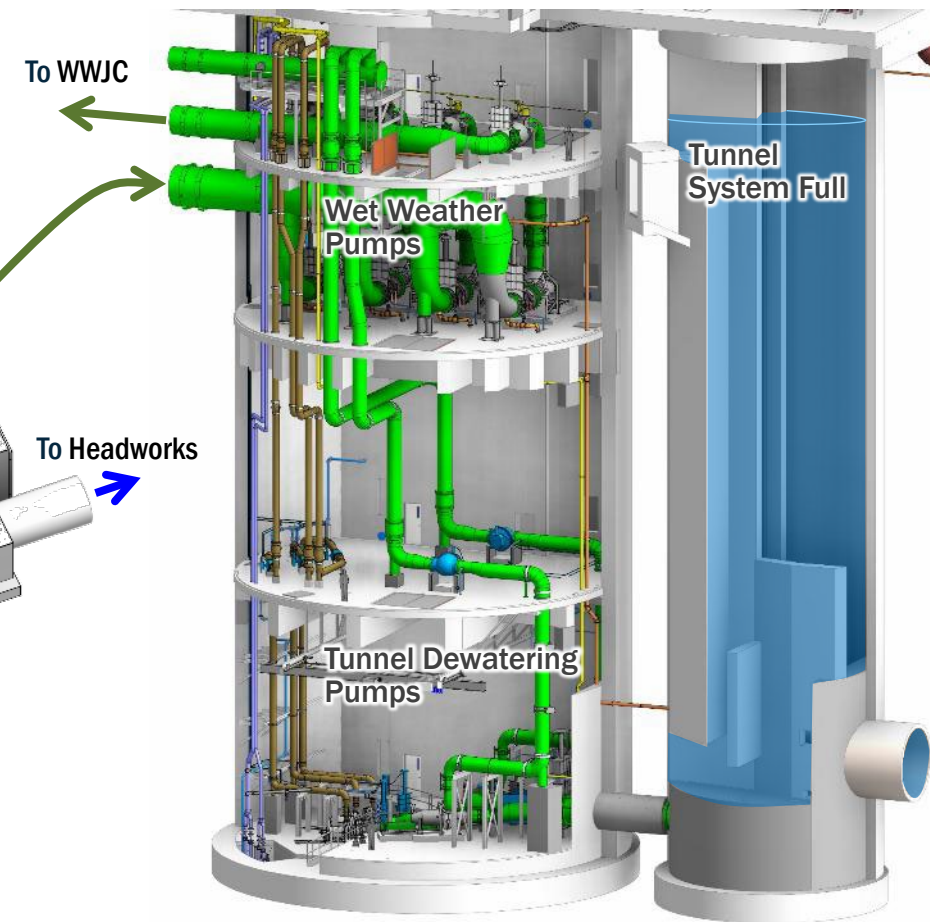


TD Pumps: Off

WW Pumps: 1 active



Plant: at max Capacity



On September 4, 2026, the RiverRenew Tunnel System experienced the most intense rain event to date. A total of 18 million gallons of CSO were captured by the system. At the height of the storm 1 million gallons overflowed at CSO 019 (Pendleton/Potomac) and CSO 020 (Royal/Hunting Creek). The RiverRenew tunnel system reduced CSOs by 95% during this event.

Remaining Construction Work

96% Complete

AlexRenew Site



Ongoing

- Operational demonstrations for ancillary pumping station systems
- HVAC, building mechanical, and plumbing start up
- Fire alarm system testing
- Landscaping, paving, and site restoration
- Staff training

Upcoming

- Photovoltaic system installation
- Certificate of occupancy

Royal Street Site



Ongoing

- Landscaping and restoration
- Potomac Interceptor rehabilitation

Upcoming

- Odor control system commissioning
- Turnover to NPS

Pendleton Street Site



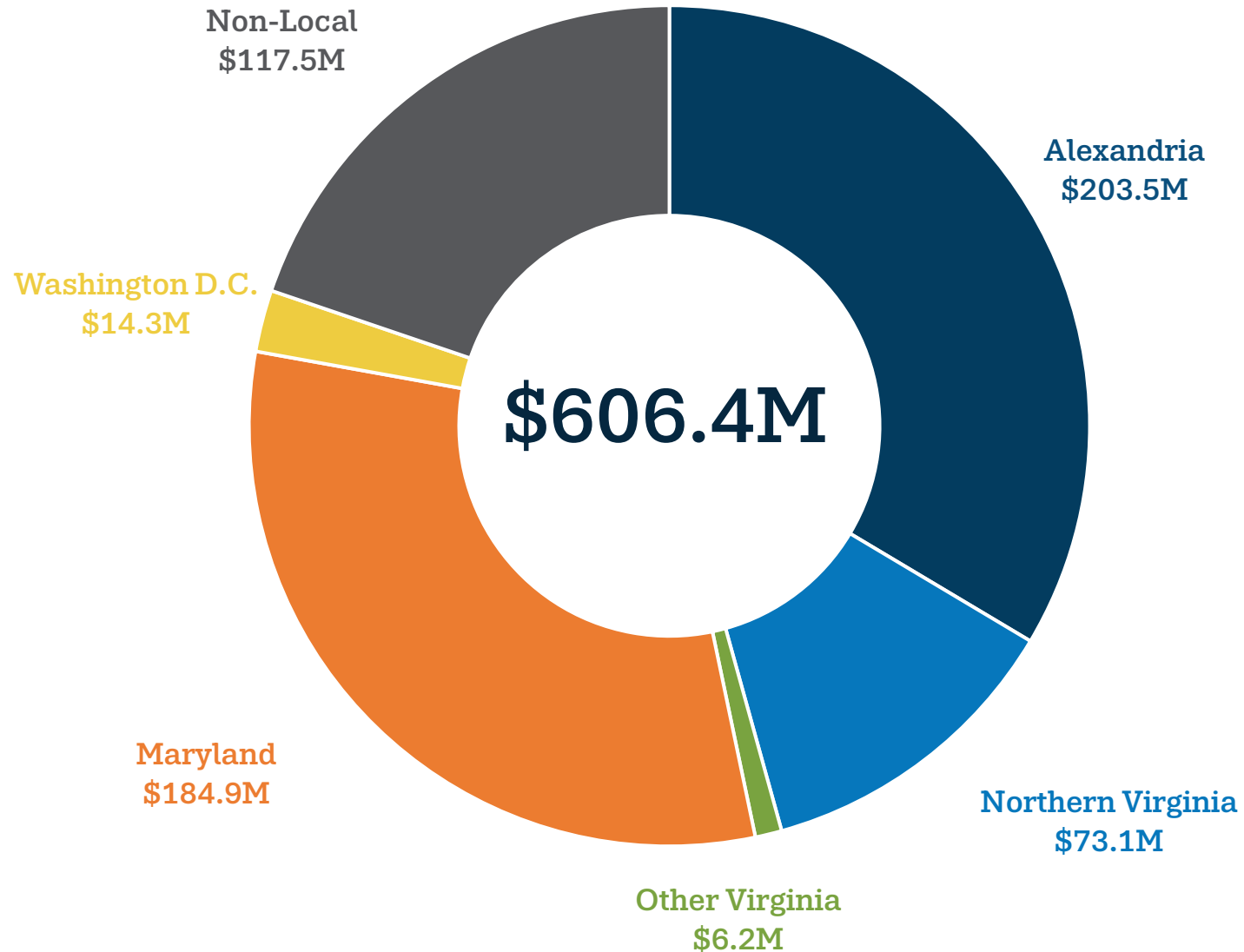
Ongoing

- Promenade lighting
- Cabinet painting
- Paving and striping

Upcoming

- Odor control system commissioning
- Turnover of RiverRenew Plaza to the City

RiverRenew Spending to Date by Locality



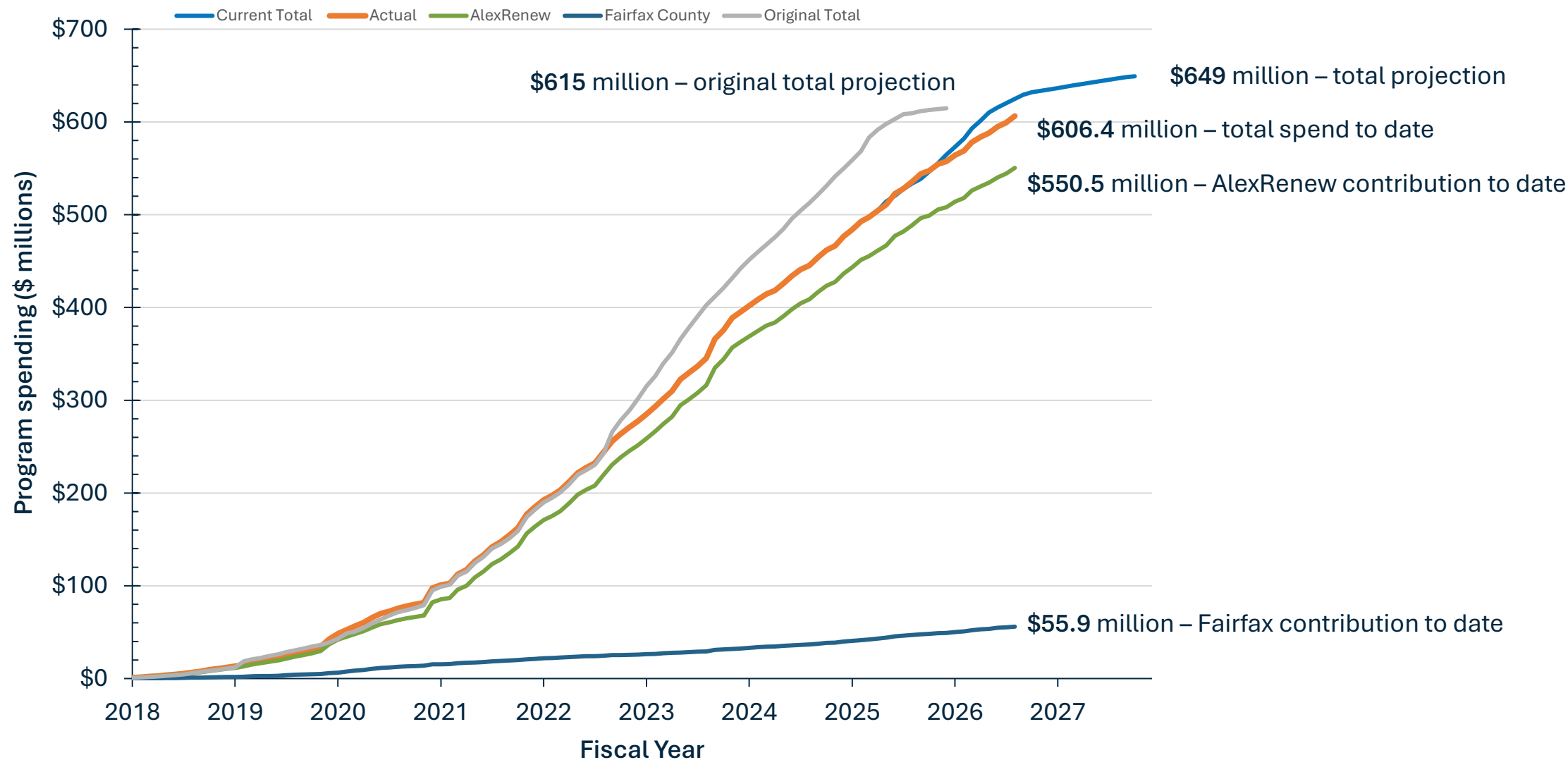
Summary:

- 34% in Alexandria
- 46% in Northern Virginia
- 47% in Virginia
- 80% in DC Metro Area (including Maryland)

Program Spending by Contract

Vendor	Role	Contract Type	Contract No.	Contract Date	Spent to Date (\$ millions)
Traylor-Shea Joint Venture	Design-Builder	Design-Build	19-079	Dec 2020	\$425.1
Brown and Caldwell	Owner's Advisor	Professional Services	17-022	Nov 2017	\$92.2
EPC	Resident Engineering & Inspection	Professional Services	20-013	Apr 2020	\$35.5
Completed RiverRenew Wastewater Projects (various contracts)					\$53.6

RiverRenew Program Spending Cash Flow

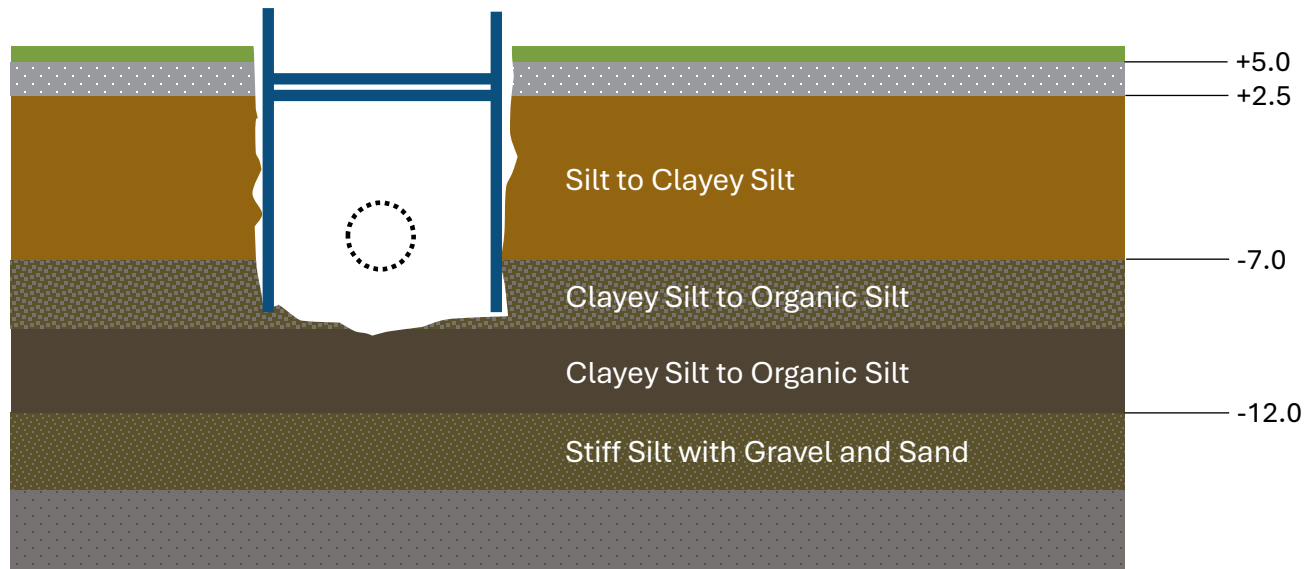


Potomac Interceptor Update

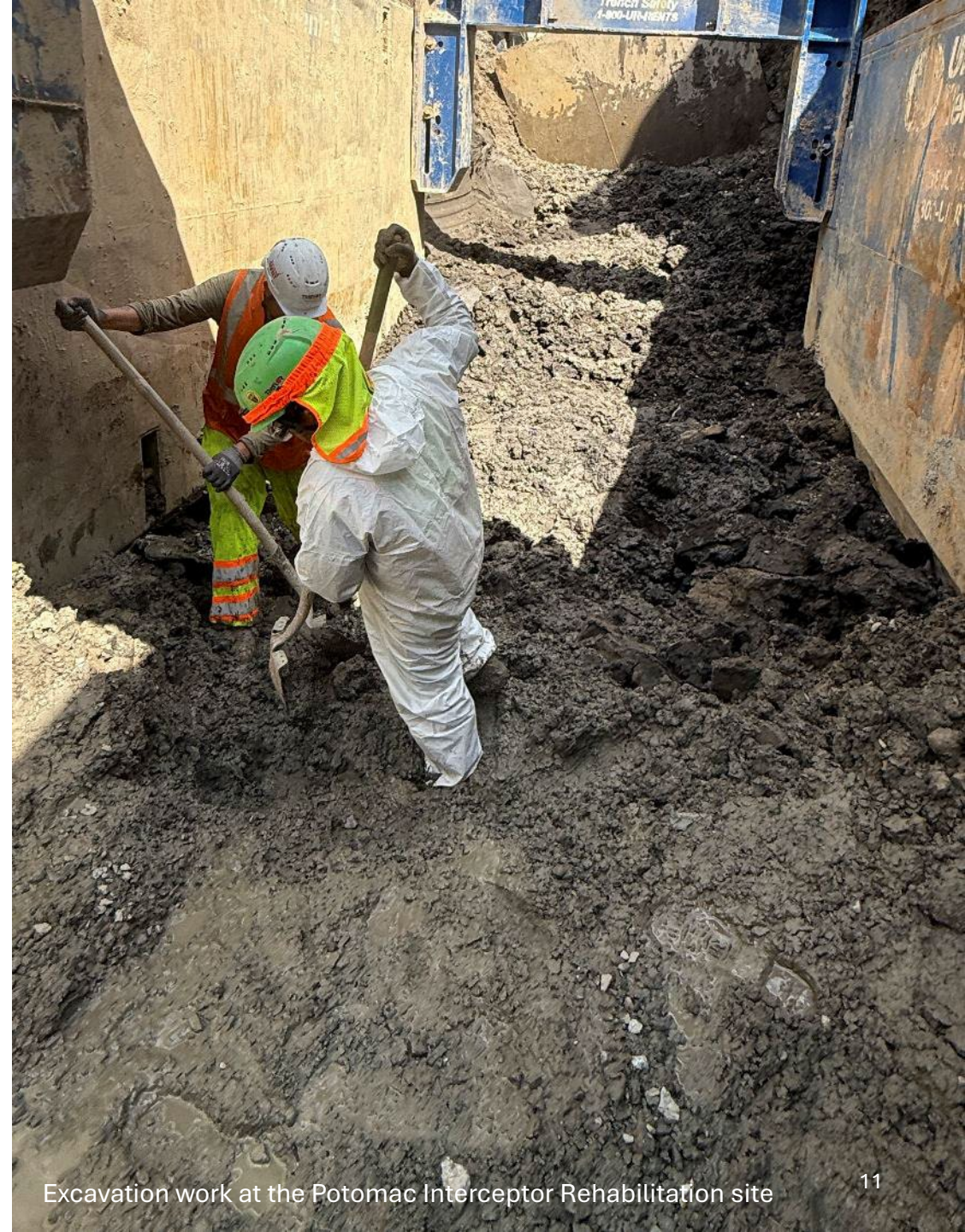
In August and September, Design-Builder crews excavated and removed 150-feet of the existing Potomac interceptor.

Settlement of the existing pipe was discovered to be more global than originally anticipated due to poor bedding soils. Encountered soils were highly variable and included a significant amount of organic material at depth.

Problem: Other portions of the existing pipe (upstream and downstream) will continue to settle unless bedding material is replaced.



*Representative soil profile based on closest geotechnical soil boring



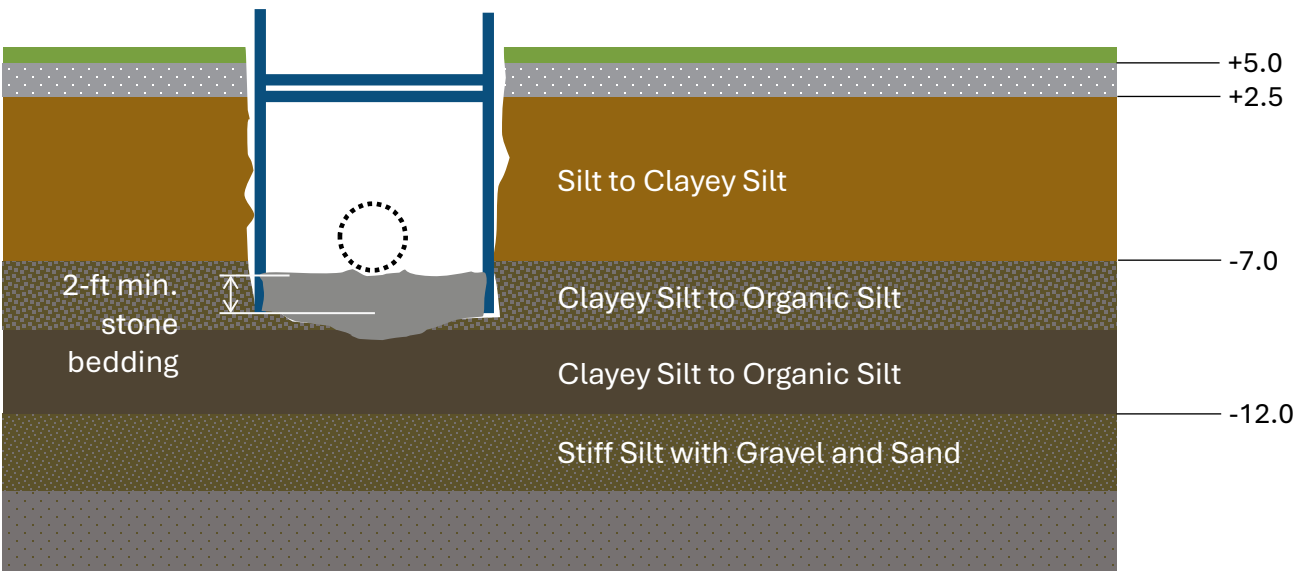
Excavation work at the Potomac Interceptor Rehabilitation site

Potomac Interceptor Update

In August and September, Design-Builder crews excavated and removed 150-feet of the existing Potomac interceptor.

Settlement of the existing pipe was discovered to be more global than originally anticipated due to poor bedding soils. Encountered soils were highly variable and included a significant amount of organic material at depth.

Problem: Other portions of the existing pipe (upstream and downstream) will continue to settle unless bedding material is replaced.

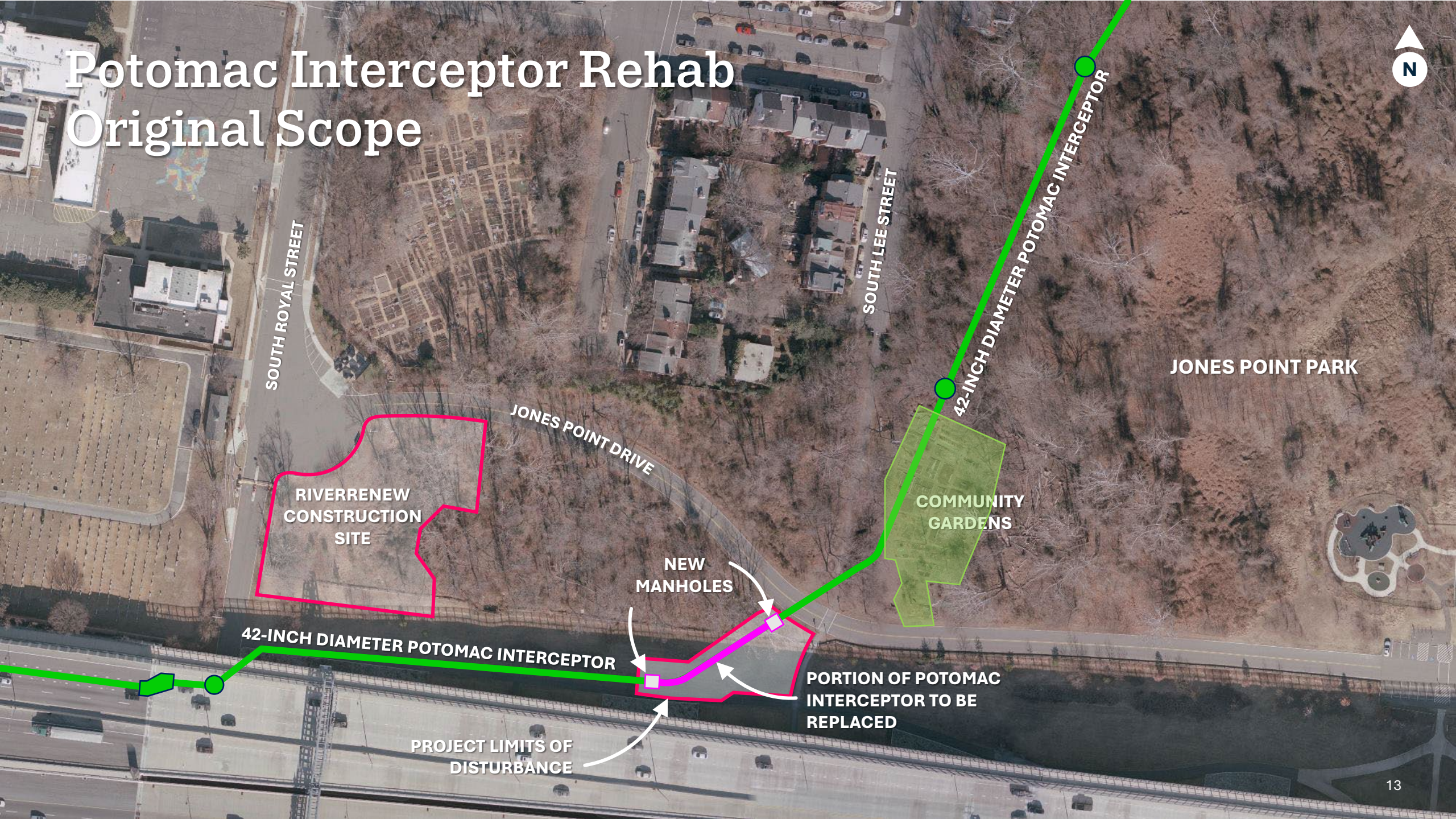


*Representative soil profile based on closest geotechnical soil boring

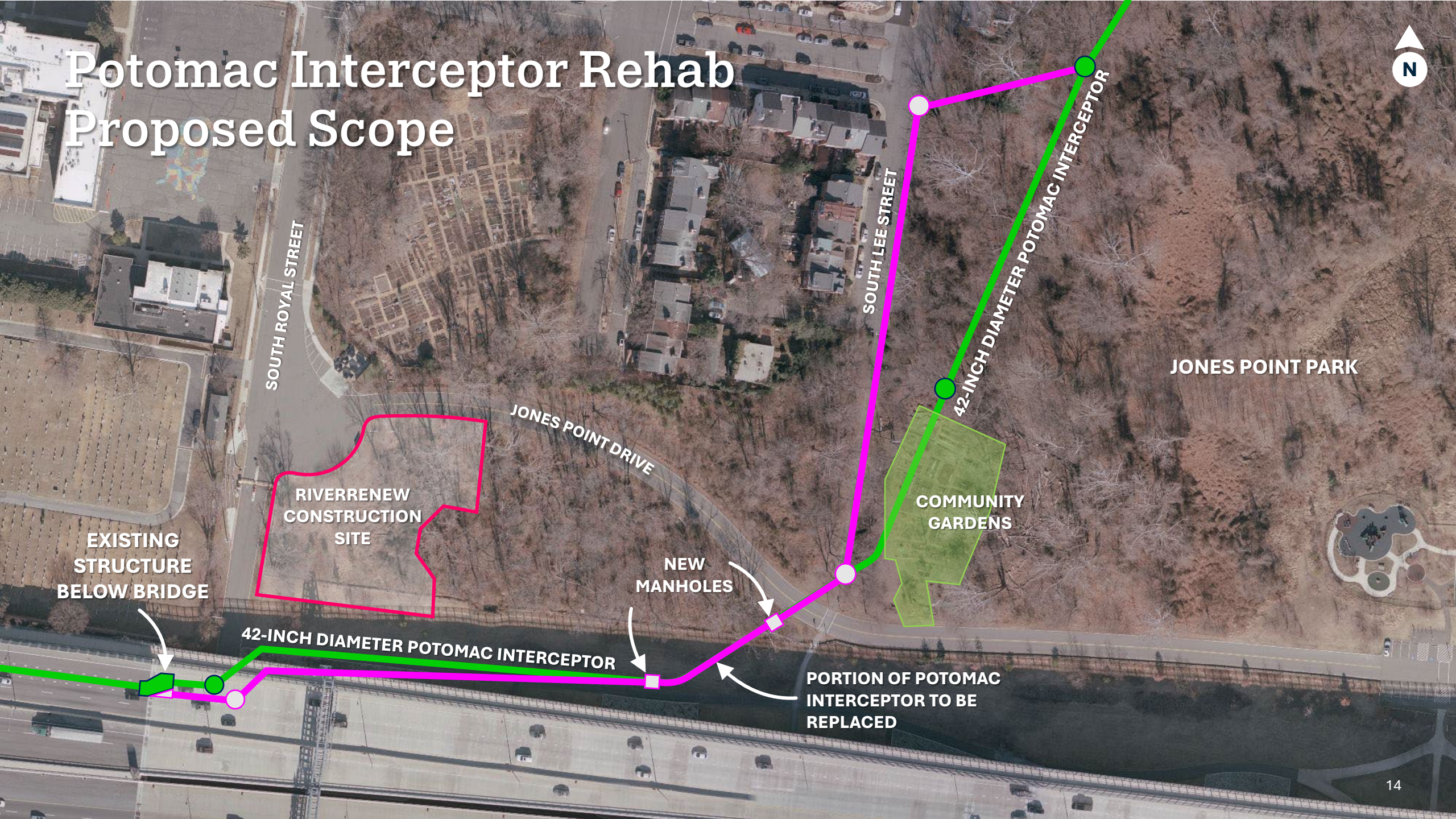


Excavation work at the Potomac Interceptor Rehabilitation site

Potomac Interceptor Rehab Original Scope



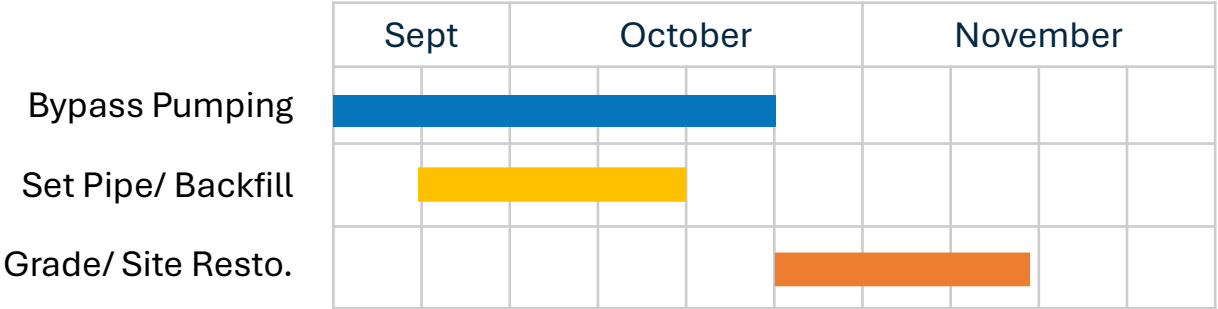
Potomac Interceptor Rehab Proposed Scope



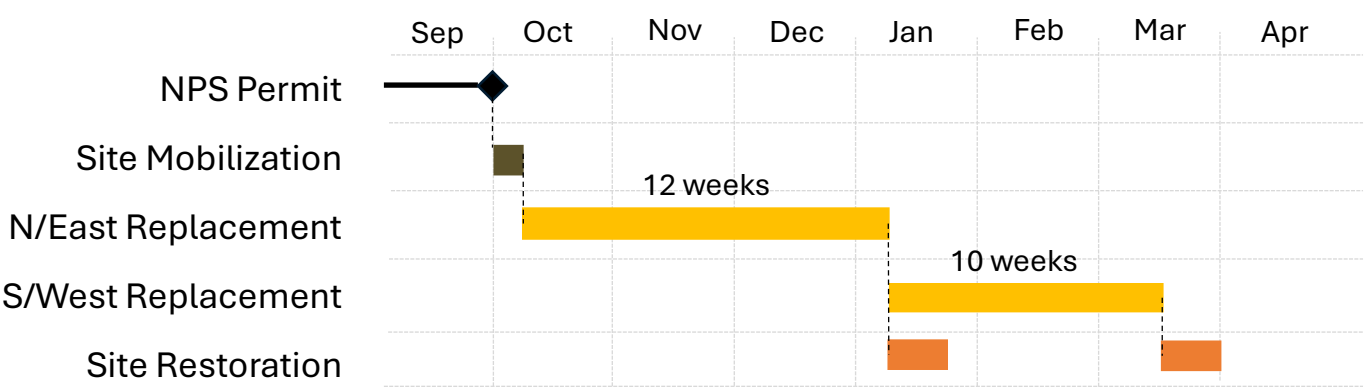
Potomac Interceptor Schedule

Crews from RiverRenew have mobilized to the repair site, constructed two new manholes, initiated the bypass pumping system, and excavated and removed the existing Potomac Interceptor pipe in the repair area.

Construction Schedule: Original Scope



Conceptual Schedule: Proposed Additional Scope



New manhole, bypass pumping system, and support-of-excitation for the Potomac Interceptor Rehabilitation



MEMORANDUM

To: AlexRenew Board of Directors

From: Justin Carl, General Manager and CEO

Date: September 15, 2026

Action: Review and approve an amendment to Contract 25-012 with Brown and Caldwell for Phase II of the Northern Virginia Regional Biosolids Feasibility Study

Cost Share: Alexandria Only

Subject

AlexRenew is part of a regional feasibility study in collaboration with several northern Virginia wastewater utilities to identify long-term alternatives to manage biosolids. In accordance with an agreement between the utilities, AlexRenew holds a professional services contract with Brown and Caldwell to execute the feasibility study. The first phase of the study was completed in August 2026 and AlexRenew and the other utilities intend to conduct additional work under a second phase (Phase II). To advance Phase II of the regional biosolids feasibility study, approval of an amendment to Contract 25-012 by the AlexRenew Board of Directors (Board) is required.

Request

Staff respectfully requests the Board authorize the CEO to execute an amendment to Contract 25-012 with Brown and Caldwell at a not-to-exceed amount of \$3,125,000 to provide services for Phase II of the feasibility study. The value includes the CEO's delegated change order authority for professional services contracts. Justification for this request is provided in the "Discussion" section of this memorandum.

Budget and Funding

AlexRenew's portion for Phase II of the feasibility study is \$525,000 as an Alexandria only expense and the remaining costs will be jointly funded by the other wastewater entities per a memorandum of understanding. Funding is included in the adopted Fiscal Year 2027 Capital Budget and expenditures are expected to occur between October 2026 and October 2028.

Discussion

In 2024, due to growing concerns about biosolids land application and in anticipation of stricter biosolids management regulations, AlexRenew, Arlington County, Fairfax County, Fauquier County Water and Sanitation Authority, Loudoun Water, Prince William Water, and Upper Occoquan Service Authority (Partners) determined the need to explore the feasibility of regional alternatives to the land application of biosolids. Through an initial memorandum of understanding (MOU), the Partners identified major scope elements for the feasibility study and identified AlexRenew as the lead contracting organization.

Between April 2025 and August 2026, Phase I of the feasibility study was completed which included:

- Identification and evaluation of governance alternatives for a new regional entity;
- Alternatives evaluation which included life-cycle cost analysis, implementation schedule, regulatory review, and case studies from other regional biosolids facilities;
- Siting analysis, including property and zoning requirements;
- Identification of potential funding sources; and
- Identification of risks that might become obstacles to success for a regional biosolids facility.

Phase I determined that there were viable governance models, technologies, and sites in Northern Virginia for a regional biosolids facility at the scale needed for the Partners. These items were incorporated into an updated MOU between the Partners that includes the following scope items for Phase II of the study:

- Develop and implement a legislative approach to make strategic code changes to support governance options and draft foundational documents for the establishment of a regional authority;
- Develop a piloting plan for representative samples from the Partners to be collected, transported, blended, processed, and tested through regionally available technologies including incineration, pyrolysis, and gasification;
- Leverage existing pilot and commercial scale facilities to test the efficacy of incineration, pyrolysis, and gasification on the Partners blended biosolids, including analytical testing on the fate of PFAS in the flue gas and any byproducts;
- Support preliminary coordination with Virginia Department of Environmental Quality to develop a planning level permitting roadmap;
- Progress planning-level regional biosolids facility concept plans and update the cost model; and
- Create a website, messages, presentations, and tailored communications for the study.

Contract 25-012 was originally approved by the Board in April 2025 with a \$1,200,000 value. Phase II is anticipated to be conducted between October 2026 and October 2028 at a cost of \$2,500,000, bringing the total regional biosolids feasibility study cost to \$3,700,000.

Action Taken

Approved:

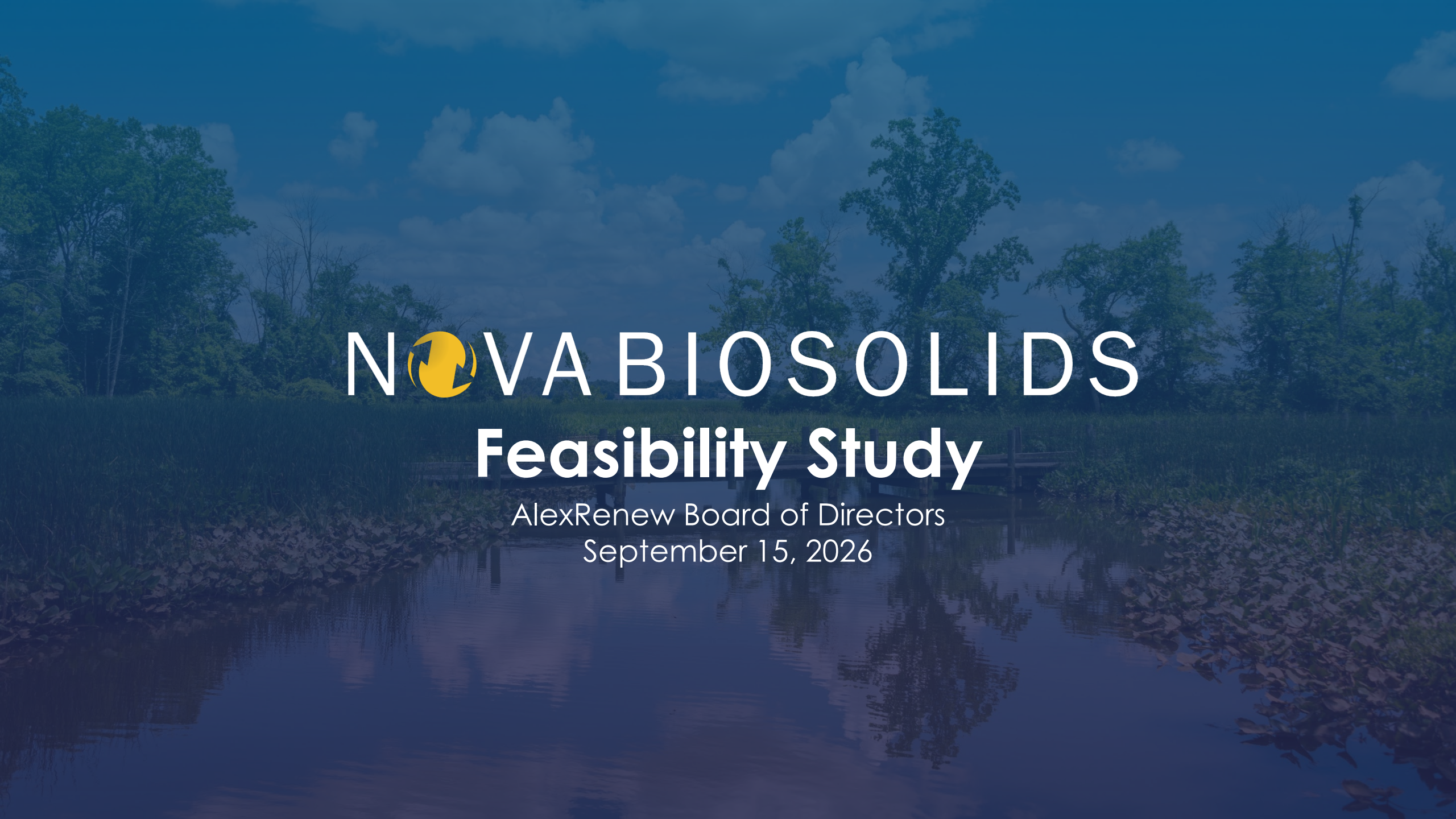
Disapproved:

Approved with Modification:

Modification(s):

This action supports our strategic goal of Operational Excellence and Strategic Partnerships.

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The background of the slide is a photograph of a serene natural landscape. It features a calm body of water in the foreground, reflecting the sky and the surrounding greenery. A line of trees with dense foliage forms the background against a blue sky with scattered white clouds. A wooden walkway or bridge is partially visible in the middle ground, extending from the left towards the center. The overall scene is peaceful and suggests a natural or environmental setting.

NOVA BIOSOLIDS

Feasibility Study

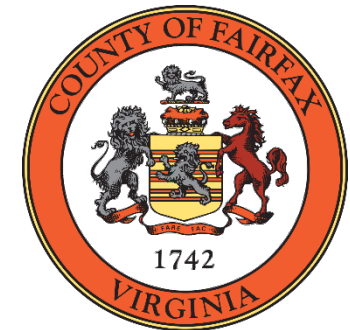
AlexRenew Board of Directors
September 15, 2026

Agenda

- Project Purpose
- Governance
- Siting
- Technology
- Cost
- Phase II
- Next Steps

Northern Virginia Regional Partnership

In anticipation of more stringent biosolids management regulations, AlexRenew, Arlington County, Fairfax County, Fauquier County Water and Sewer Authority, Loudoun Water, Prince William Water, and Upper Occoquan Service Authority (Partners) are exploring the feasibility of a regional biosolids processing facility through a collaborative study (Project).

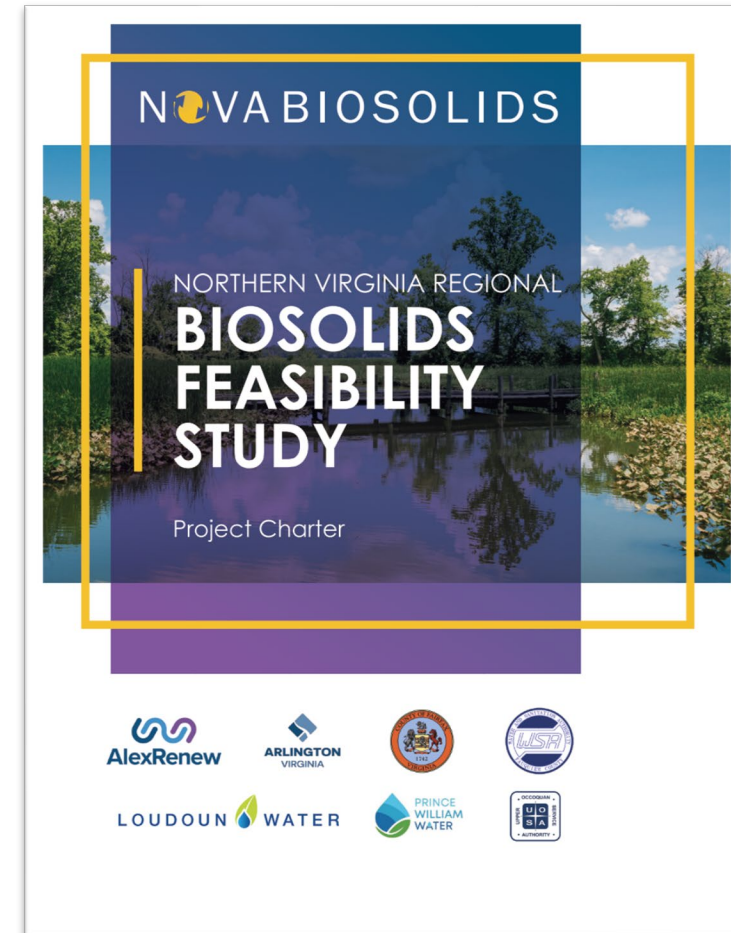


Project Purpose

The Partners established a Project Charter to align on shared values, project norms, and desired outcomes for the Feasibility Study.

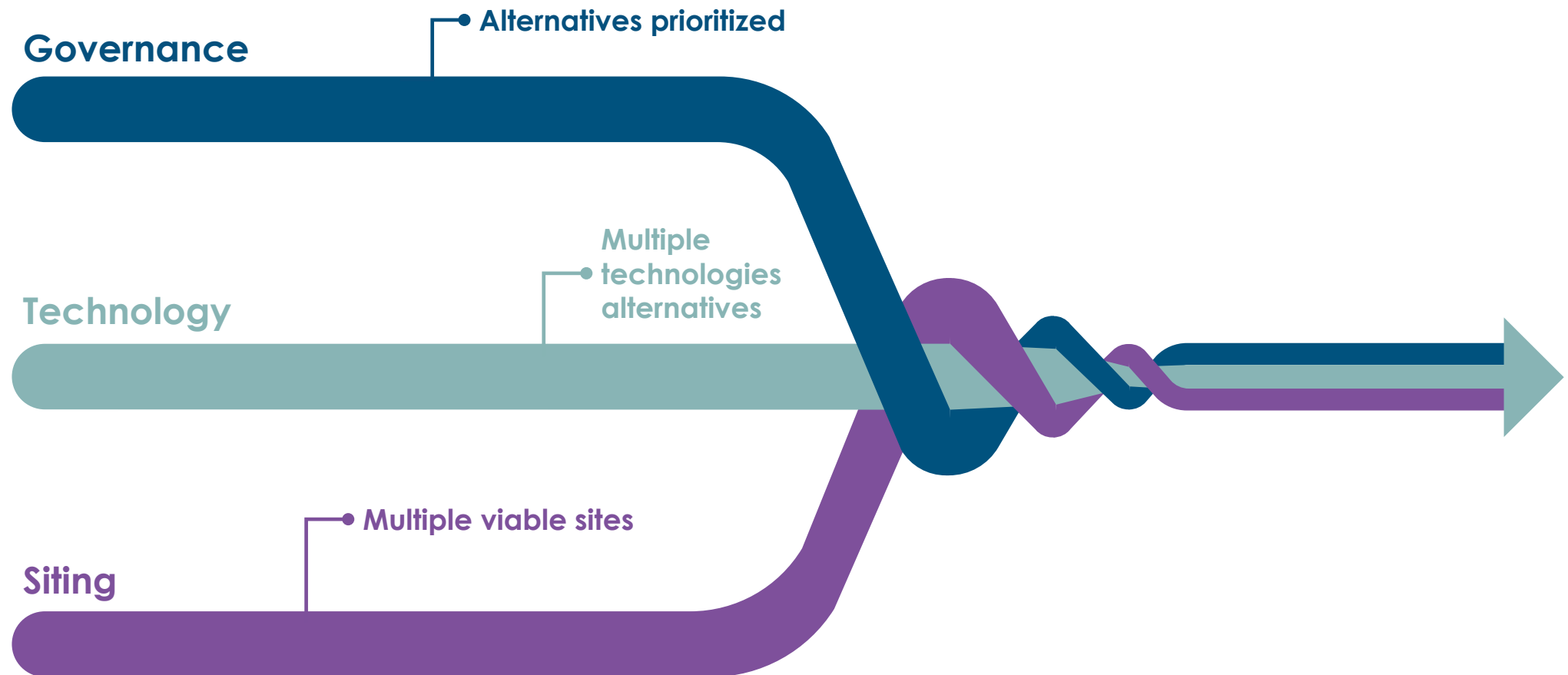
The Project will result in a clear and actionable roadmap that includes:

- ✓ A defined value proposition for regional collaboration
- ✓ Identification of technically and financially viable treatment technologies and facility locations
- ✓ An implementation plan with timelines and key performance indicators
- ✓ Governance and partnership alignment, including workable models and structures for formal agreements



Project Goals

The Project was designed to determine whether a regional biosolids processing facility at scale could be established by evaluating feasible governance, technology, and siting alternatives.



Governance Alternatives

The first phase of the Project identified four governance alternatives for a regional biosolids processing facility.

Alternative	Description
Single Utility	One lead entity owns a regional facility. Other utilities enter contracts with the facility owner to reserve capacity, allocate capital, and fund operating expenses.
Joint Venture	Two or more lead agencies own a regional facility. Same as Single Utility, but with multiple owners.
New Regional Authority	Utilities create a regional authority with a Board of Directors. The new authority owns a regional facility. Utilities contract with the new authority to reserve capacity, allocate capital, and fund operating expenses.
Private Entity	A private entity develops and operates a regional facility. Utilities contract with the private entity to gain access to the regional facility. The private entity is responsible for day-to-day operation of the facility.

Governance Outcomes

An evaluation of the governance alternatives identified two (2) preferred alternatives, Single Utility and New Regional Authority.

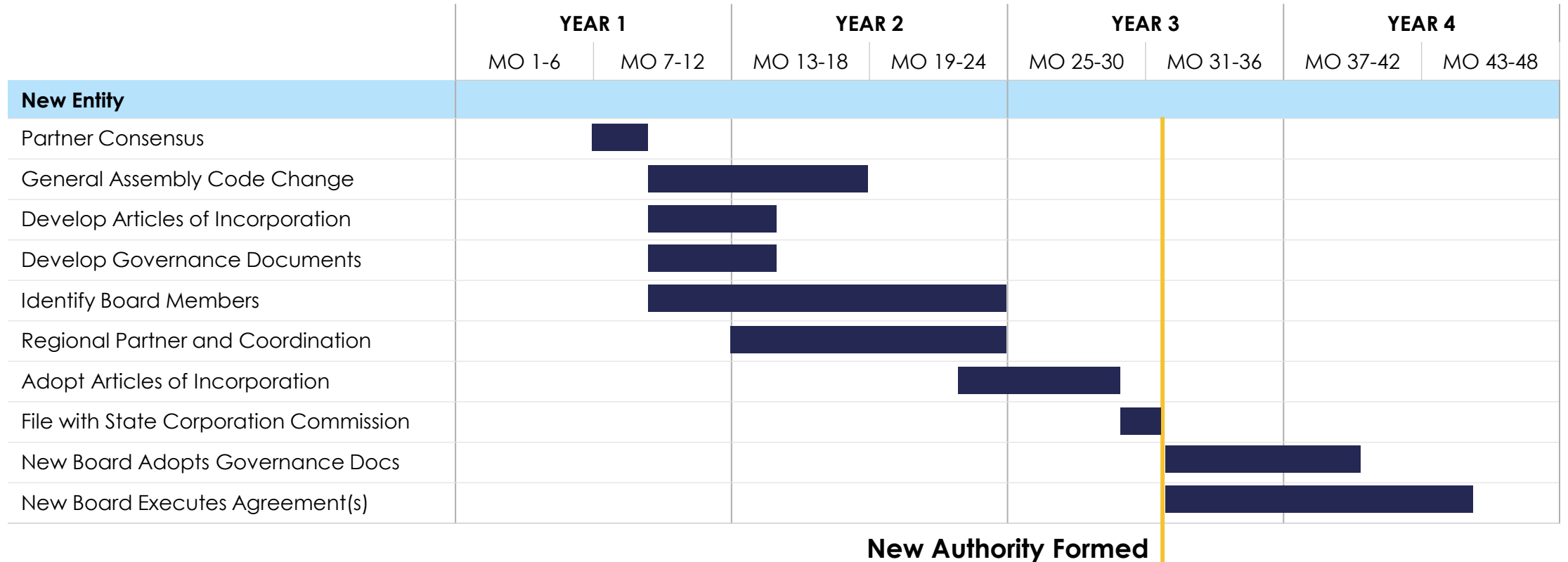
- **Single Utility** – Fairfax County is a potential option
- **New Regional Authority** – requires a permissive code change within the Virginia Water and Waste Authorities Act

New Regional Authority Key Takeaways

- Purpose-built regional platform
 - Partners have a formal role in long-term governance through Board
 - Clear story for bond market
 - Keeps ownership public and transparent
 - Extended formation process, requiring action by the General Assembly
-

Timeline for a New Regional Authority

It is estimated that establishing a New Regional Authority will take up to two (2) years, making it a critical path item on the Project timeline.



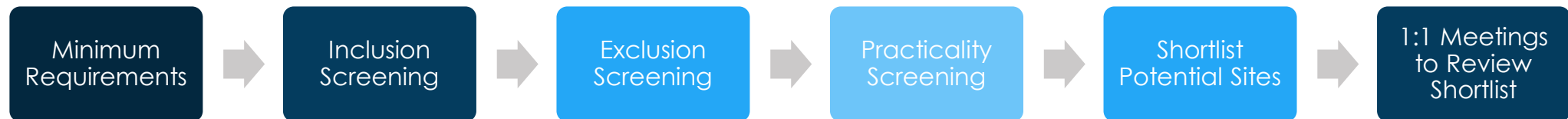
Site Screening

Two parallel approaches were used to identify potential sites for the regional biosolids processing facility to ensure that feasible sites within the Partner jurisdictions were considered.

Approach 1: Partner Sites

- Evaluate sites owned or associated with the Partners and adjacent properties
- WWTPs, Waste-to-Energy (Incinerators), Landfills

Approach 2: GIS Screening



Partner Sites Screening Summary

An evaluation of case studies found that sites in and around existing wastewater treatment and solid waste facilities are the most practical due to public acceptance, similar zoning requirements, and proximity to established operations and maintenance facilities. Six sites were identified in two of the Partner localities that met the minimum size criteria of greater than 5 acres.

Type	Alexandria	Arlington County	Fairfax County	Fauquier County	Loudoun County	Prince William County
Wastewater Plants	None	None	• Noman Cole • Upper Occoquan Service Authority	None	None	None
Solid Waste Facilities	None	None	• I-95 Landfill Complex • I-66 Recycling Center	None	None	• Prince William County Landfill • Prince William County Compost Facility

GIS Screening Summary

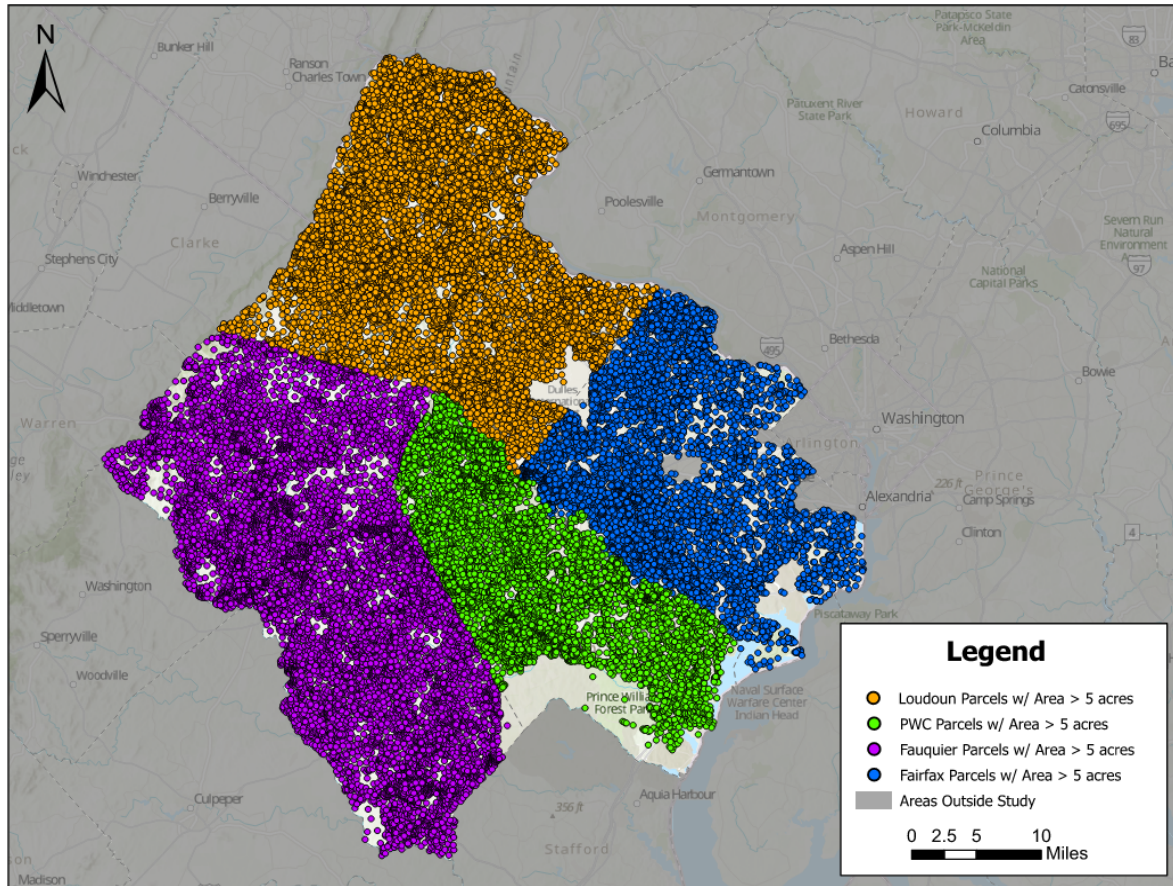
Progressive screening criteria were applied to all sites within the Partner counties to identify potential sites not at or adjacent to wastewater treatment or solid waste facilities.

Screening Criteria	Fairfax County	Loudoun County	Prince William County	Fauquier County
> 5 Acres	7,453	10,522	6,927	10,366
Inclusion Criteria	1,029	2,625	492	205
Exclusion Criteria	119	185	210	162
Desktop Viability Screening	34	8	50	55
1:1 Meeting Viability Screening	29	6	40*	38

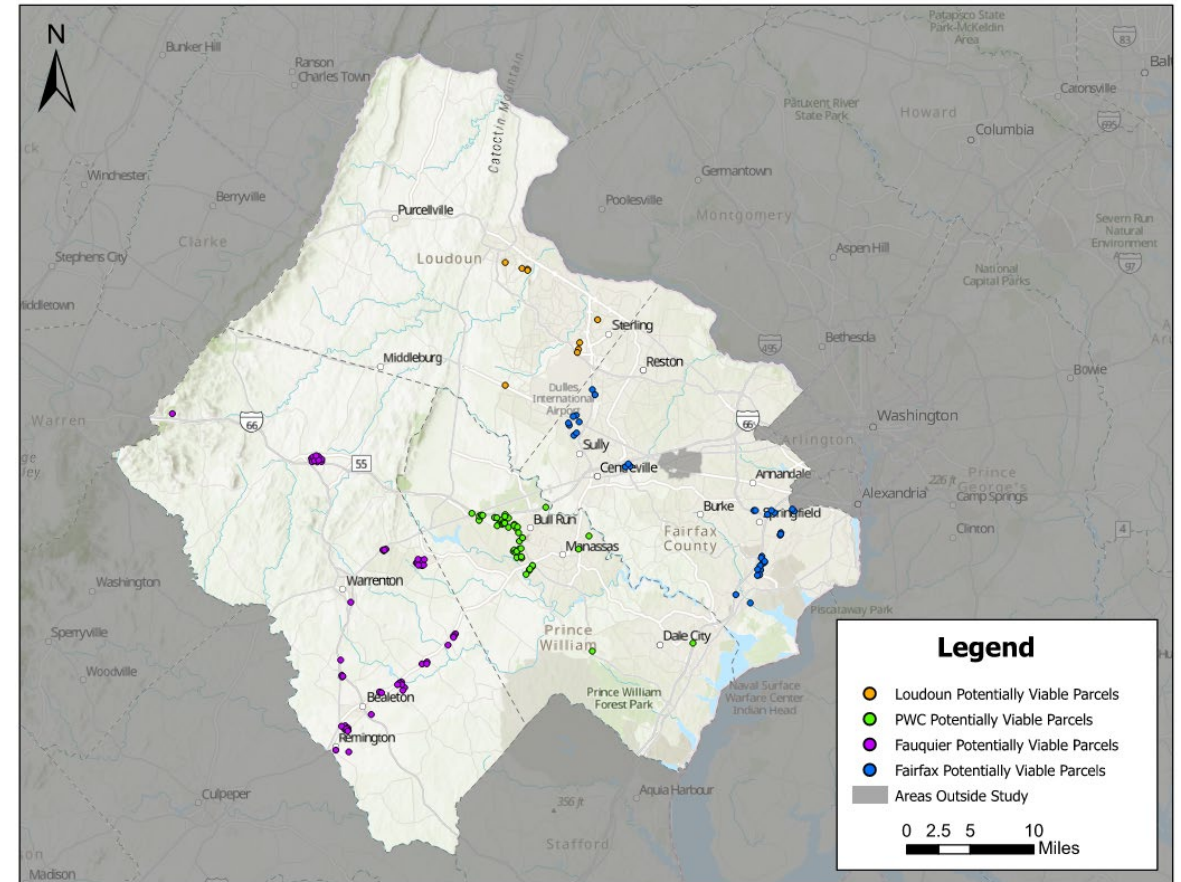
*Additional GIS screening for data centers

Siting Outcomes

The parallel siting evaluation identified 100 viable sites within the Partner counties for a regional biosolids processing facility.



All Industrially-Zoned Sites Greater Than Five Acres

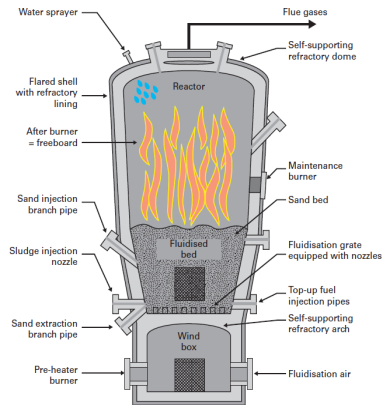


Remaining Viable Sites

Potential Technologies

Three potential technologies were identified because of their ability to treat for PFAS. Two (2) of the technologies have very limited installations.

Other emerging technologies such as super critical water oxidation, hydrothermal liquefaction, and hydrothermal carbonization are not currently proven for commercial application.



Incineration

High-temperature (1,300 deg C), combusts biosolids to produce ash

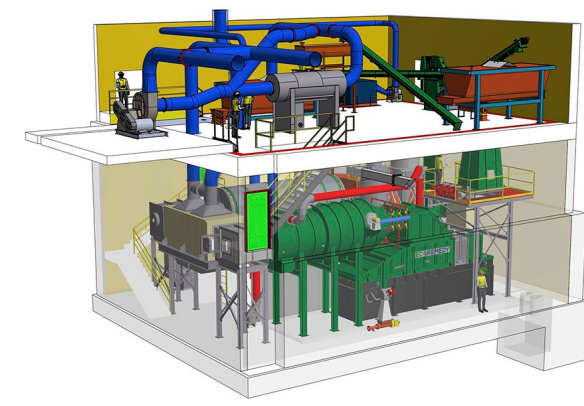
- ✓ Most established technology with proven treatment of PFAS



Pyrolysis

Thermal (300–700 deg C) process in the absence of oxygen to produce biochar.

- ✓ Proven treatment of PFAS and potential for value-added product (biochar)
- Emerging technology with very limited installations and at smaller scale (10 tons per day)



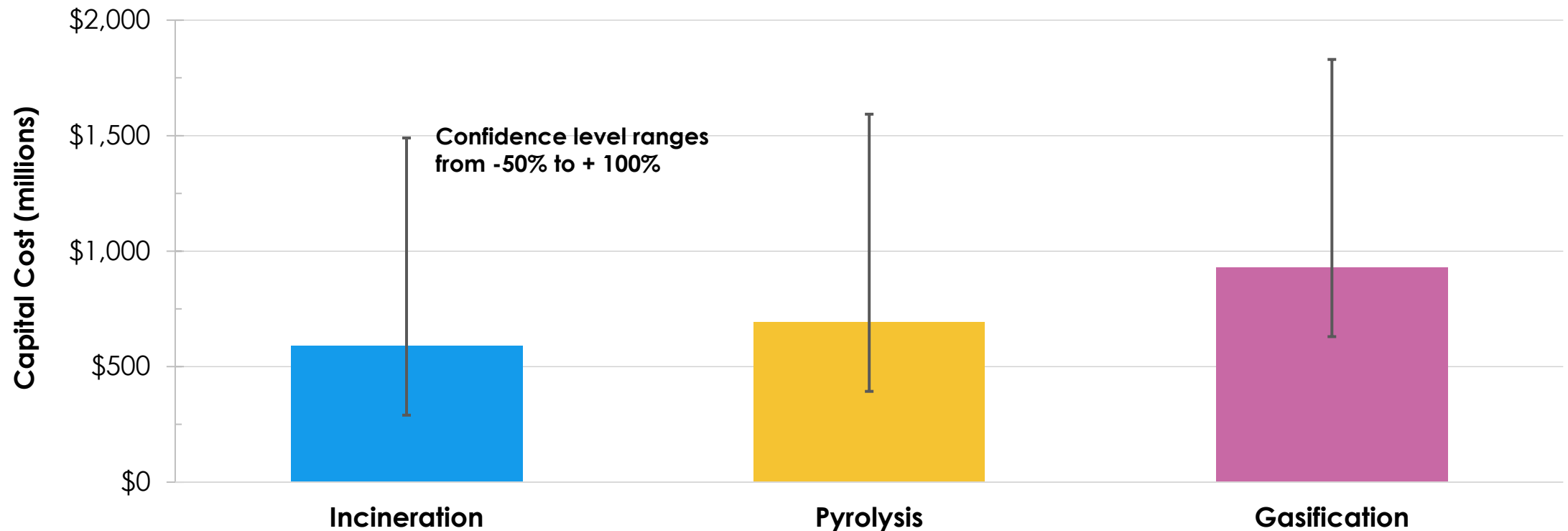
Gasification

Thermal (500-900 deg C) process, low-oxygen heating to produce bioash.

- ✓ Proven treatment of PFAS and potential for higher throughput and efficiency
- Emerging technology with a very limited installations and at smaller scale (40 tons per day)

Technologies – Capital Costs

Preliminary capital cost estimates were developed to inform the technology evaluations. Incineration has the lowest capital cost, while pyrolysis and gasification have higher costs primarily because of their limited installations.



Capital costs do not include land acquisition, demolition of existing facilities, administration fees, financing fees, and other costs that may not be realized at this time

Technologies – Key Takeaways

If the project was built today, incineration is the only proven technology at the Partner's scale. Emerging technologies such as pyrolysis and gasification have upsides but are still being evaluated for scale and broader adoption.

- ✓ **Incineration** is the most proven technology for managing biosolids and initial studies indicate effective PFAS removal in sewage sludge
- ✓ **Gasification** and **pyrolysis** have very limited installations and require additional study to evaluate their efficacy
- ✓ All technologies will require significant capital investment

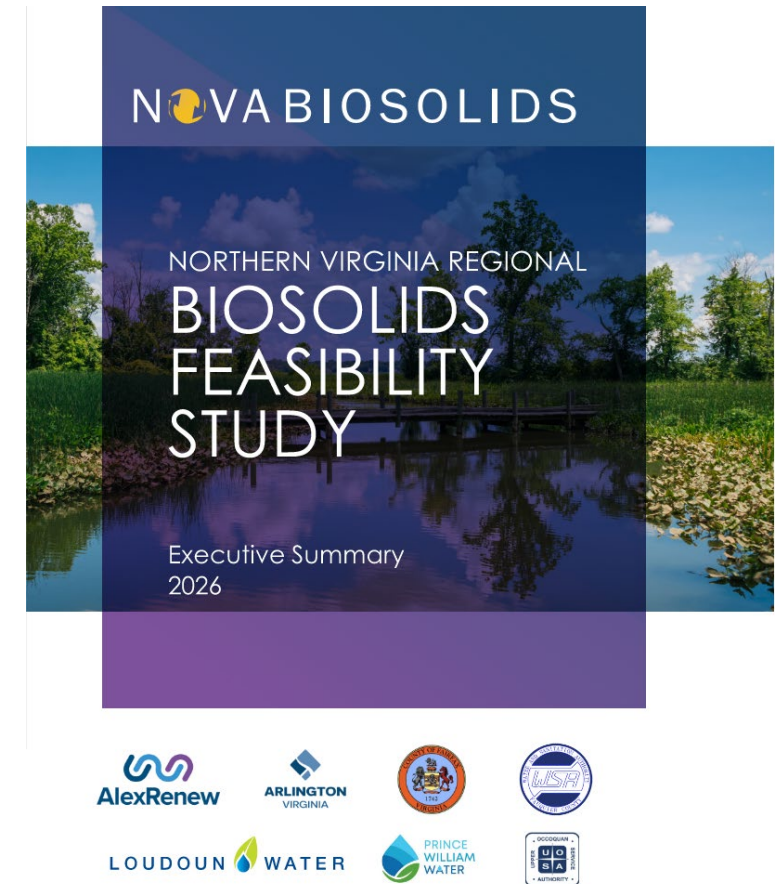


NEW Water in Green Bay, WI transformed its biosolids process with the R2E2 Project, combining anaerobic digestion and fluid bed incineration

Communications and Outreach

There has been interest from external stakeholders in the results of the Project. Phase I developed public engagement tactics to support ongoing external communications.

- Initial results have been shared with Partners' Boards and the Virginia Department of Environmental Quality
- Phase I communications deliverables will include:
 - Executive Summary document
 - NOVA Biosolids branded website summarizing Phase I efforts



Phase II Overview

Through an updated MOU, the Partners intend to establish a \$2.5M budget to complete a second phase of the Project.

Scope Element	Description	26 Q4	27 Q1	27 Q2	27 Q3	27 Q4	28 Q1	28 Q2	28 Q3	28 Q4
Governance	Legislative approach; draft foundational governance documents, cost-sharing frameworks, and operating principles to inform the Partners as they consider their involvement in a regional facility									
Technology Pilot	Develop a detailed testing plan, followed by testing of the Partners biosolids at pilot facilities									
Regulatory and Permitting	Regulatory engagement and a permitting roadmap for specific technologies and potential sites									
Concept Development and Cost Model	Further development of the technology and siting concepts based on the pilot results and continued engagement with the Partners									
Communications and Engagement	Coordinated communication support for Partners' internal communication, broader industry outreach, and initial public information sharing									

Phase II – Governance

Phase II will advance the new regional authority governance alternative from conceptual to implementation-ready.

Legislative Approach

- Develop and implement a legislative approach to make a strategic code change to allow for the future creation of a regional biosolids authority comprised of participating local governments and authorities

Development of Governance Documents

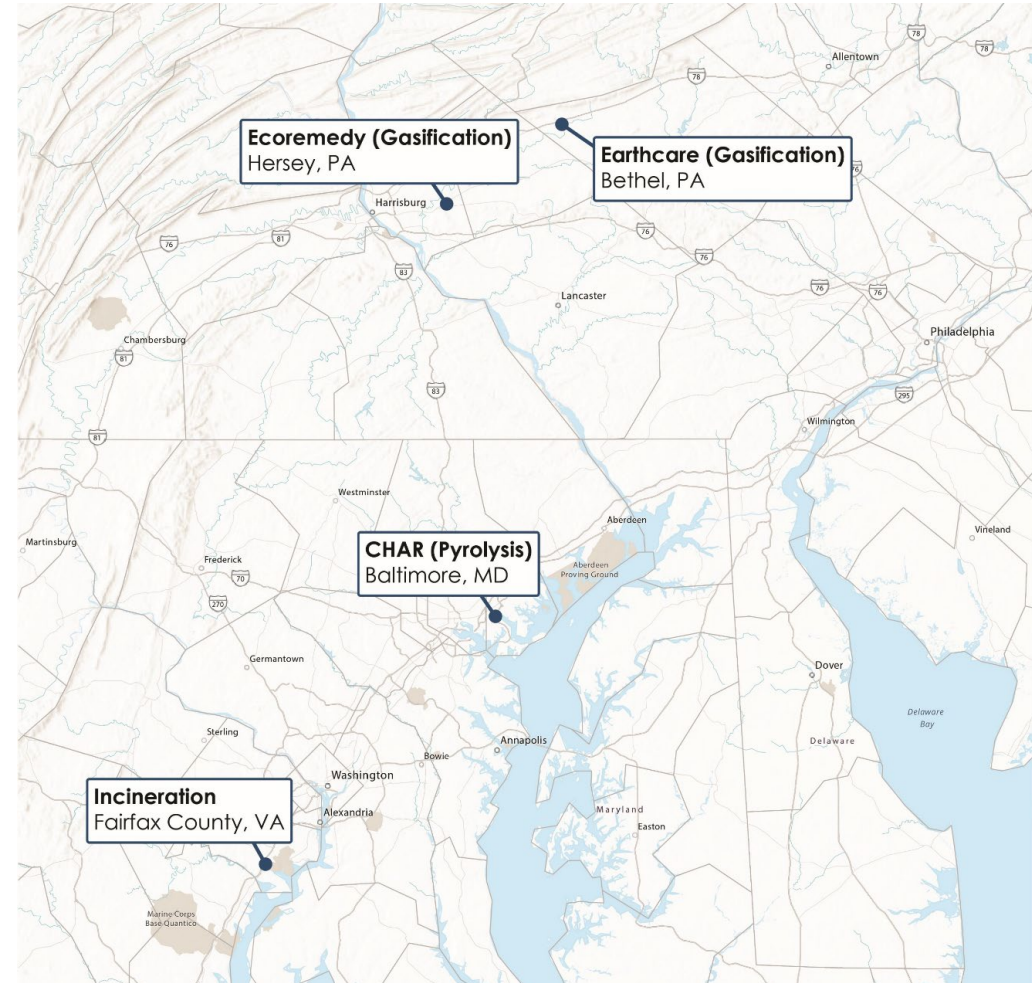
- Develop initial drafts of foundational governance documents that define how the regional entity could be organized and operated



Phase II – Technology Pilot

Phase II will advance plans to pilot incineration, pyrolysis, and gasification will answer key technology questions including:

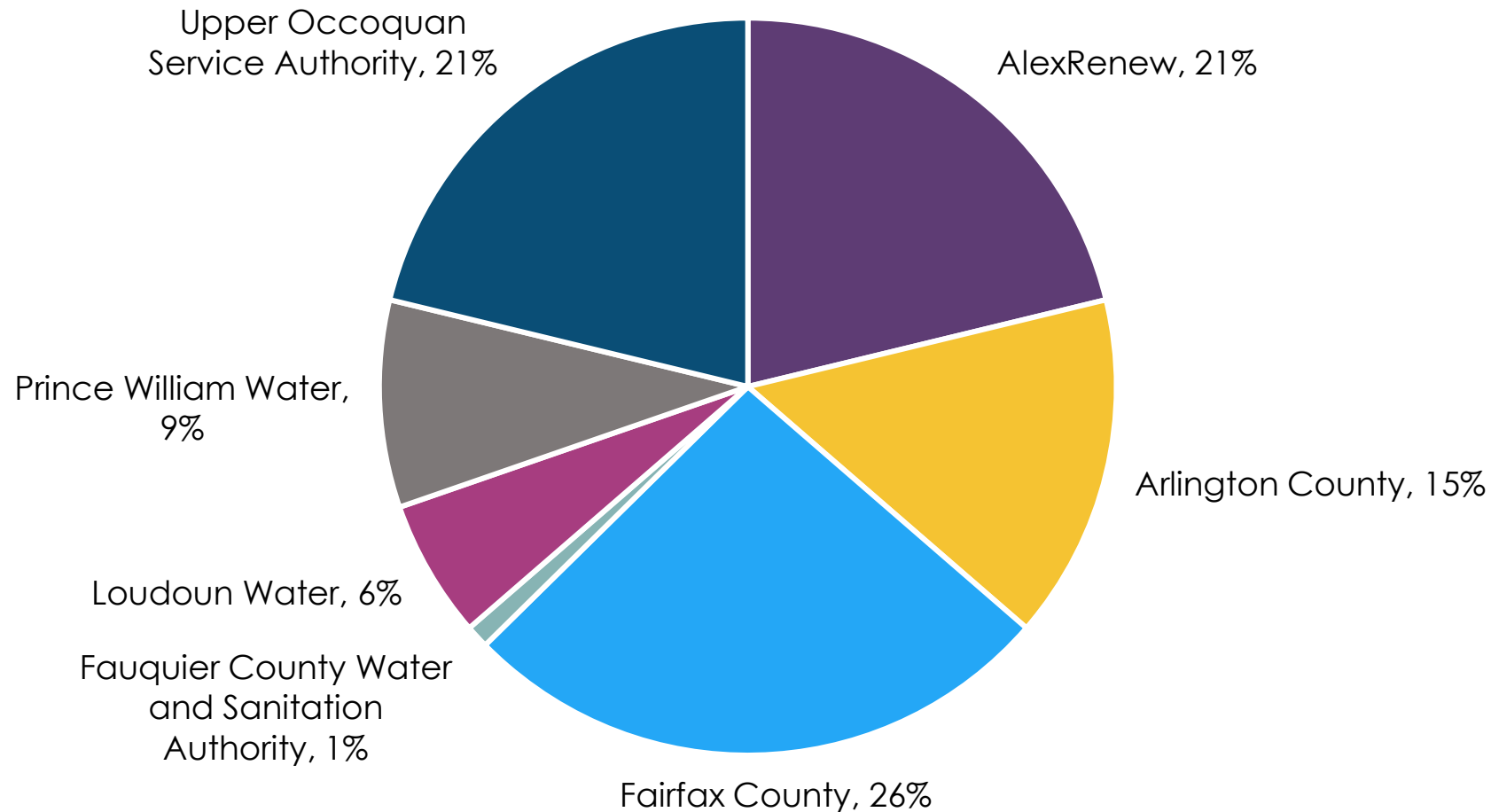
- The logistics of loading, transporting and receiving biosolids to and from various sites
- The logistics of blending biosolid
- Test key design and permitting criteria including: achievable throughput, destruction/removal metrics, emissions limits, product quality, and recycle load impacts



Potential technology pilot sites in the region

Phase II – Partner Cost Share

Proposed Phase II cost allocations are based on the wastewater design flows at each Partner facility.



Regional Biosolids Study – Key Takeaways

- ✓ A regional biosolids facility is feasible from a governance, technology, and siting standpoint
- ✓ There is a collaborative spirit and momentum among the Partners to continue to evaluate a regional solution
- ✓ Additional efforts are necessary to advance the governance option of a new regional authority
- ✓ Additional efforts are necessary to understand the performance of emerging technologies
- ✓ Costs, regulatory and permitting, and community engagement need to be refined as the governance and technology work advances
- ✓ Work on the regional biosolids study will continue for 2 years under a Phase II scope of work



Thank You!

Natalie Sierra, P.E.

nsierra@brwncald.com

MEMORANDUM

To: AlexRenew Board of Directors

From: Justin Carl, General Manager and CEO

Date: September 15, 2026

Action: Review and approve Change Order No. 1 to Contract 25-004 with Kokosing Industrial, Inc. for the final design of the tertiary settling tank upgrades as part of the Nutrient Reduction Project

Cost Share: Joint Use

Subject

The Nutrient Reduction Project was procured as a progressive design-build contract and is being implemented through a series of change orders and amendments under an overall Guaranteed Maximum Price (GMP) structure. To advance the final design of the tertiary settling tank upgrades, associated with the Nutrient Reduction Project, approval of Change Order No. 1 by the AlexRenew Board of Directors (Board) is required.

Request

Staff respectfully requests the Board authorize the Chief Executive Officer (CEO) to execute Change Order No. 1 to Contract 25-004 with Kokosing Industrial, Inc (Kokosing) to provide design services for the final design of the tertiary settling tank upgrades associated with the Nutrient Reduction Project in a not-to-exceed amount of \$2,714,430 which includes the CEO's delegated change order authority. Justification for this request is provided in the "Discussion" section of this memorandum.

Budget and Funding

Funding for Change Order No. 1 to Contract 25-004 is included in the adopted Fiscal Year 2027 Capital Budget. The anticipated total cost of Change Order No. 1 is \$2,171,544, and expenditures are expected to occur between October 2026 and January 2028.

Discussion

Nutrient Reduction Project Overview

The Nutrient Reduction Project (Project) will rehabilitate AlexRenew's tertiary treatment systems to replace equipment that has reached the end of its useful life and expand AlexRenew's biological nutrient removal systems to further reduce nutrient loads to support continued growth in Alexandria. Rehabilitation of the tertiary treatment systems is required to ensure the reliability, functionality, and level of service of the Water Resource Recovery Facility (WRRF). Additionally, the expansion of the biological nutrient removal systems will provide capacity growth for Alexandria by four (4) million gallons per day (MGD). To expand capacity from 54 to 58 MGD, additional nutrient reductions are necessary to comply with load limits established in AlexRenew Virginia Pollution Discharge Elimination Permit.

AlexRenew's tertiary treatment system includes a series of plate settlers, settling tanks, mixed-media filters, valving, pumps, and complex control networks. These processes are crucial to achieving AlexRenew's phosphorus and total suspended solids permit requirements while reducing turbidity prior to UV disinfection. The system was initially constructed in 1975 and received upgrades in 1985 and 2004. Equipment associated with several unit processes is reaching the end of its expected useful life and engineering assessments in recent years have identified several upgrades necessary to maintain its level of service and improve reliability.

Contract 25-004 – Progressive Design-Build with Kokosing

AlexRenew entered into a progressive design-build contract with Kokosing in January 2026 to provide design and construction services for the Project. Kokosing, with GHD Inc. serving as lead designer, is working collaboratively with AlexRenew to advance the Project under a GMP structure. This approach allows the Project to advance in phases enabling AlexRenew to advance critical improvements while the design and scope of the overall Project continue to be developed. On progressive design-build projects, change orders are used to execute discrete phases of design work, while amendments are used to execute construction services.

The initial contract with Kokosing to define the Project scope was approved by the Board in January 2026 in the amount of \$3,522,278. Major scope elements of the initial contract included preliminary site investigations, wastewater treatment process modeling, and preparation of a Basis of Design Report.

Change Order No. 1 – Tertiary Settling Tank Upgrades

AlexRenew is prioritizing upgrades to the tertiary settling tanks (TST) as the first major element of the Project. As such, this element will be the first to advance into final design under Change Order No. 1 to Contract 25-004.

Change Order No. 1 includes final design of upgrades to AlexRenew's eight (8) TSTs to address immediate upgrades to ageing equipment. Major scope elements include:

- **Equipment and Structural Improvement Design.** Design of improvements within each TST, including rapid mixers, flocculator paddles, baffle walls, chain-and-flight sludge

collectors, instrumentation and controls, plate settler refurbishment, and structural repairs.

- **Maintenance of Plant Operations.** Perform constructability reviews to identify opportunities to improve construction sequencing, reduce costs, and integrate improvements with existing plant systems. Develop operational continuity requirements addressing construction sequencing, equipment availability, and coordination with other AlexRenew projects to maintain treatment capacity and permit compliance during construction.
- **Training and Commissioning Requirements.** Develop requirements for equipment start-up, testing, commissioning, and staff training to ensure a coordinated transition of the new equipment for staff.
- **Schedule and Cost Management.** Provide and maintain a project schedule showing critical path items. Prepare open-book construction cost estimates to provide AlexRenew with greater cost certainty as design develops and advances.
- **Work Packaging and Procurement Strategy.** Identify availability, price, and lead times for equipment and services. Propose work packaging to procure critical path items early and accelerate construction of high-priority improvements.
- **Subcontractors Procurement.** Solicit bids from subcontractors and suppliers. Develop bid documents, lead on-site pre-bid conferences, negotiate contracts, and recommend best-value execution.

The cost associated with Change Order No. 1 is \$2,171,544, which was established using an open-book model, fostering a transparent and collaborative process with AlexRenew. Open-book pricing facilitates sharing and evaluating the design-builder's scope of work and level of effort. This provides AlexRenew with a detailed clear view of costs, how they are allocated and how they will be expended.

AlexRenew's Owner's Advisor reviewed Change Order No. 1 and determined that the final design costs are reasonable and justifiable based on the anticipated schedule and scope of work. As part of the review, Kokosing provided detailed responses and supporting information that substantiated the level of effort and associated costs.

For tracking purposes, Table 1 summarizes change order and amendment costs associated with Contract 25-004, while current capital spending associated with the Nutrient Reduction Project is summarized in Table 2.

Table 1. Change Orders and Amendments associated with the Contract 25-004 (Nutrient Reduction Project)

Amendment	Description	Board approval	Not to exceed cost
Initial Contract	Preliminary engineering to define basis of design for the project	Jan 2026	\$3,522,278
Change Order 1	Final design of tertiary settling tanks	Sep 2026	\$2,171,544

Amendment	Description	Board approval	Not to exceed cost
Change Order 2	Final design for filter backwash and chemical improvements	Nov 2026	\$6,100,000 (1)
Change Order 3	Final design for biological nutrient removal improvements	Fall 2027	\$9,900,000 (1)
Amendment 1	Procurement of tertiary settling tank equipment	Mar 2027	\$8,900,000 (1)
Amendment 2	Construction of the tertiary settling tanks and filter backwash/ chemical improvements	Winter 2028	\$45,200,000 (1)
Amendment 3	Construction of improvements to biological nutrient removal systems	Summer 2029	\$97,800,000 (1)
			\$173,593,822

Note: (1) Costs based on a conceptual level of design with a +50% upper range of probable cost

Table 2. Nutrient Reduction Project capital costs as of the date of this memorandum

Contract	Duration	Entity	Cost
Owner's Advisor	Jan 2025 – May 2027	Carollo	\$2,009,873
Construction Management Services	Jan 2026 – Jun 2027	Brown and Caldwell	\$216,800
Progressive Design-Build	Jan 2026 – Jan 2028	Kokosing	
Initial Contract			\$3,522,278
Change Order No. 1			\$2,171,544
			\$7,920,495

Action Taken

Approved:

Disapproved:

Approved with Modification:

Modification(s):

This action supports our strategic goal of Operational Excellence.

MEMORANDUM

To: AlexRenew Board of Directors

From: Justin Carl, General Manager and CEO

Date: September 15, 2026

Action: Review and approve Contract 26-011 with Andritz Separation Technologies, Inc. for solids thermal drying system to support the Biosolids Diversification Project

Cost Share: Joint Use

Subject

AlexRenew is implementing the Biosolids Diversification Project (Project) to reduce the volume of its biosolids and diversify their end use, with a focus on waste-to-energy. The Project is being implemented under a separate construction management at-risk contract with PC Construction, who will be constructing the upgrades to AlexRenew's solids processing infrastructure. The central component to these upgrades is a solids thermal drying system, which AlexRenew is procuring directly from the equipment manufacturer, Andritz Separation Technologies, Inc. (Andritz). To design and procure the solids thermal drying system and advance the Project, approval of Contract 26-011 by the AlexRenew Board of Directors (Board) is required.

Recommendation

Staff respectfully requests the Board authorize the Chief Executive Officer (CEO) to execute Contract 26-011 with Andritz to provide a solids thermal drying system for the Biosolids Diversification Project at a not-to-exceed amount of \$51,192,601, which includes the CEO's delegated change order authority. Justification for this recommendation is provided in the "Discussion" section of this memorandum.

Budget and Funding

Funding for Contract 26-011 is included in the adopted Fiscal Year 2027 Capital Budget. The \$43,754,360 contract is expected to be expended between October 2026 and June 2032.

Discussion

In May 2025, AlexRenew finalized a long-term plan (Plan) to upgrade and build resilience into its solids processing infrastructure. The Plan identified short-term upgrades to improve reliability of aging equipment and maintain permit compliance; medium-term solutions to reduce biosolids volume, diversify end-use options, and minimize regulatory risk; and long-term concepts to adapt future solids management scenarios. This roadmap provides a structured approach to achieving a sustainable and resilient solids management program at AlexRenew. Implementation of the Plan is hereinafter referred to as the Biosolids Diversification Project (Project).

The short-term upgrades are currently underway and focus on upgrading and replacing equipment and processes at the end of their useful life. The dewatering centrifuges, thickening centrifuges, and digester sludge heat exchangers are being replaced in kind, while the gravity thickeners and digester gas mixing systems are being upgraded to improve process efficiency, operations, and maintenance. In addition, the pre-pasteurization system is being decommissioned to improve process efficiency and increase available space for future improvements.

The medium-term upgrades involve the addition of a solids thermal drying system that will significantly change how biosolids are processed. Thermal dryers are a proven technology that will reduce biosolids volume by more than 60 percent, diversify end-use options, and mitigate regulatory risks associated with land application.

Conceptual design efforts identified existing Building C as the optimal location for the thermal drying system. Building C currently houses five (5) gravity thickeners used to support AlexRenew's solids processes. As part of the medium-term upgrades, two (2) of the gravity thickeners will be decommissioned and demolished to accommodate the thermal drying system, while the remaining three (3) gravity thickeners will be rehabilitated and remain in service. The existing superstructure associated with Building C will be demolished and reconstructed to accommodate the thermal drying system, while maintaining continuous plant operations.

The solids thermal drying system includes two (2) thermal dryers that will occupy an approximate footprint of 65 feet by 210 feet, with the dryers 50 feet tall. Two (2) thermal dryers are proposed to ensure the continuous processing of solids if one dryer must be taken offline for maintenance. Early execution of a contract with the manufacturer for the thermal dryers and associated equipment will support the design process to coordinate equipment-specific design details and ensure the new building is appropriately sized and configured for the selected equipment. Additionally, this early procurement will provide more budget certainty throughout design.

Solids Thermal Drying System Scope

The major scope elements associated with Contract 26-011 for the solids thermal drying system include:

- **Design Services.** Design support to integrate the solids thermal drying system into AlexRenew's existing facilities. Development of equipment layouts and design criteria including process and instrumentation diagrams, process flow and mass balance information, utility requirements, controls, structural loading, electrical requirements, and air emissions. Conduct building spaceproofing and constructability review.
- **Equipment Fabrication and Delivery.** Fabrication and delivery of two (2) DDS-60 model thermal drum dryers and supporting equipment to process, convey, store, and control emissions from the dried biosolids product. Major components include: drum dryers, burners, scrubbers, odor control equipment, pellet handling and storage systems, thermal oxidizers, safety systems, electrical equipment, and controls. A summary of major equipment to be provided is included in Table 1. These items account for 92 percent of the total contract cost.

Table 1. Summary of major equipment to be furnished under Contract 26-011

System Component	Quantity
Drum Dryer	2
Furnace with burner and combustion fan	2
Condenser wet scrubber	2
Conveyor systems	2
Cake storage	2
Cake pumping, piping, and valves	4
Wet material bin and mixer	2
Dry product crusher	2
Air compressors	4
Pneumatic transportation system	2
Pellet Oiling System	1
Pellet Storage	2
Regenerative Thermal Oxidizer (RTO)	2
Liquid nitrogen storage tank and system	1
Service platforms and walkways	2
Dust fire safety equipment	2
Process fans, air ductwork, and dampers	2
Electrical (motor control centers and variable frequency drives)	2
Instrumentation and automation controls	2

- **Field Services and Commissioning.** On-site technical support during installation, startup, commissioning, and initial operation of the solids thermal drying system. This includes on-site installation support to advise the CMAR on proper equipment installation and to conduct final inspection and testing of the manufacturer-furnished equipment. Following installation, the manufacturer will support system commissioning, performance testing, optimization, and training of AlexRenew staff to operate and maintain the system.
- **Service Agreement.** The proposed contract includes an option for the manufacturer to provide ongoing operations support for up to one (1) year after commissioning. If needed, the service agreement would be added under a future amendment to be presented to the Board for approval.

Procurement Process

AlexRenew evaluated multiple procurement strategies including sole source procurement and procurement through the Engineer or CMAR. Direct procurement by AlexRenew was selected because it provides the simplest contractual structure and AlexRenew can work directly with the manufacturer to incorporate equipment-specific requirements into facility design. This approach allows AlexRenew to establish a long-term relationship with the manufacturer that will support startup, commissioning, warranty administration, and future operations and maintenance activities. Having a direct, contractual relationship with a major equipment supplier is a major lesson learned from previous AlexRenew contracts and one that will benefit the organization moving forward.

AlexRenew conducted the procurement process for the thermal drum drying system in accordance with the Virginia Public Procurement Act § 2.2-4302.2. The procurement process included a Request for Proposals (RFP), which was released in March 2026. In April 2026, AlexRenew received proposals from a single respondent, Andritz. Staff initiated negotiations with Andritz on the terms and conditions for the solids thermal drying system in May 2026.

Andritz's cost proposal for Contract 26-011 is \$43.8 million, which AlexRenew staff have determined to be a fair and reasonable price compared to similar installations at other utilities. A single Andritz DDS-60 thermal dryer was procured by a local wastewater utility in 2025 at a cost of \$28 million, while two (2) larger units (DDS-90) were procured by a Louisville, Kentucky utility in 2022 for \$48 million. The proposed price also includes a \$0.5 million allowance to address any potential adjustments that may be identified as the design is finalized and the CMAR develops the construction schedule. Such adjustments could include changes to the sequencing of equipment delivery or equipment storage to support a phased installation approach at AlexRenew's space-constrained site. Table 2 provides a breakdown of costs of Contract 26-011.

Table 2. Breakdown of Contract 26-011

Item	Cost
Design Services	\$4,325,436
Fabrication and Delivery	\$32,440,770
Field Services and Commissioning	\$6,488,154
Allowance	\$500,000
Service Agreement	To be executed at a later date
	\$43,754,360

For tracking purposes, Table 3 summarizes current capital spending associated with the Biosolids Diversification Project.

Table 3. Summary of Biosolids Diversification Project capital costs as of the date of this memorandum

Item	Duration	Entity	Cost
Planning and Design Services	Jul 2022 – Jun 2032	Stantec, TBD	\$25,168,793
Construction Management Services	Nov 2024 – Jun 2027	Brown and Caldwell	\$3,736,110
Solids Thermal Drying System	Sept 2026 – Jun 2032	Andritz	\$43,754,360
Construction Management At-Risk	May 2024 – Jun 2032	PC Construction	
Initial Contract: Short-term Preconstruction Services			\$440,000
Amendment No. 1: Lime System Demolition			\$5,877,486
Amendment No. 2: Equipment Procurement			\$11,713,411
Amendment No. 3: Short-term Improvements			\$47,795,807
Amendment No. 4: Preconstruction Services for Thermal Drying System			\$2,041,477
			\$140,527,444

Action Taken

Approved:

Disapproved:

Approved with Modification:

Modification(s):

This action supports our strategic goal of Operational Excellence.

Monthly Report

August 2026

This report represents a summary of AlexRenew's progress toward its strategic goals – Operational Excellence, Thriving Workforce, Strategic Partnerships, Environmental Sustainability, and Commitment to the Community for August 2026.

1 Operational Excellence

1.1 Operations Update

Performance of AlexRenew's operations is reviewed and evaluated monthly to oversee operational excellence and the proactive steps to meet current and future challenges.

Precipitation for August 2026 was 4.5 inches of rain, which is significantly higher than the monthly average precipitation of 3.3 inches of rain.

AlexRenew met all Virginia Pollutant Discharge Elimination System (VPDES) effluent parameters for August 2026 as outlined in Table 1-1.

Table 1-1. Summary of VPDES Permit VA0025160 Effluent Parameters

Parameter	Unit	Permit	Reported
Average Flow	Million gallons per day	54.0	31.4
Carbonaceous Biochemical Oxygen Demand	Monthly average (mg/L)	5.0	<QL
Total Suspended Solids	Monthly average (mg/L)	6.0	1.0
Ammonia (as N)	Monthly average (mg/L)	Seasonal (1)	0.10
Total Phosphorus	Monthly average (mg/L)	0.18	0.05
Dissolved Oxygen	Minimum (mg/L)	6.0	7.5
Total Nitrogen	Annual average (mg/L)	3.0	2.3
Total Nitrogen Load	Year-to-date (lb)	493,381	144,740
Total Phosphorus Load	Year-to-date (lb)	29,603	4,849

Notes: (1) Ammonia seasonal limit for April – October: 1.0 mg/L

Table 1-2 summarizes the performance of the combined sewer tunnel system for the month of August. The tunnel system prevented 25.4 million gallons of combined sewage from polluting the Potomac River and captured 1.4 tons of trash and debris.

Table 1-2. Combined sewer tunnel system performance

Event Date	Rainfall (inches)	Captured Volume (million gallons)	Overflow Volume (million gallons)	Overflow Events
8/2/26	1.85	11.89	0	0
8/5/26	0.56	2.37	0	0
8/10/26	0.42	2.39	0	0
8/16/26	0.67	3.46	0	0
8/20/26	0.45	2.44	0	0
8/22/26	0.55	2.83	0	0
Totals	4.50	25.38	0	0

Additional updates on the RiverRenew project and performance of the combined sewer system are included in the RiverRenew Dashboard.

1.2 Capital Improvement Program

Specific projects within AlexRenew's Capital Improvement Program (CIP) are highlighted monthly.

Capital Improvement Projects

Updates on PhaseForward are outlined in the PhaseForward Dashboard (attached). Other major ongoing capital projects include:

- **Low-Pressure Steam System Improvements Project** – Rehabilitation of AlexRenew's low-pressure steam system including boilers, piping, and condensate return systems. The contract value is \$12.6 million, of which \$12.1 million remains to be spent, with an anticipated completion date of December 2027.
- **Building L and G Elevator Replacement Project** – Replacement of two (2) elevators in Building L and Building G. The contract value is \$3.7 million, of which \$0.7 million remains to be spent, with an anticipated completion date of December 2026.

Job Order Contracts

In June 2025, the Board approved four (4) Job Order Contracts (JOC) to support AlexRenew's ongoing construction and maintenance needs.

Currently, approximately \$11.6 million of work is being executed through JOC task orders which is illustrated in Figure 1-1 by major system. To date in Fiscal Year 2027, a total of \$1,560,000 of work has been issued under six (6) individual task orders. New work this period includes structural work to isolate the tertiary filters to accommodate valve replacement, autosampler installation, and condensate return unit replacement in the digester complex.

Major ongoing JOC task orders include:

- **Building F Roof Replacement** – Replacing the original roof, which is beyond its expected service life. The task order value is \$0.85 million and was completed in August 2026.

- **Locker Room Upgrades** – Upgrading and expanding the men’s and women’s locker rooms in Building G. The task order value is \$0.5 million, of which \$0.2 million remains to be spent, with an anticipated completion date of September 2026.
- **Methanol Fire Suppression System Replacement** – Installation of a new fluorine-free foam fire suppression system. The task order value is \$1.0 million, of which \$1.0 million remains to be spent, with an anticipated completion date of December 2026.

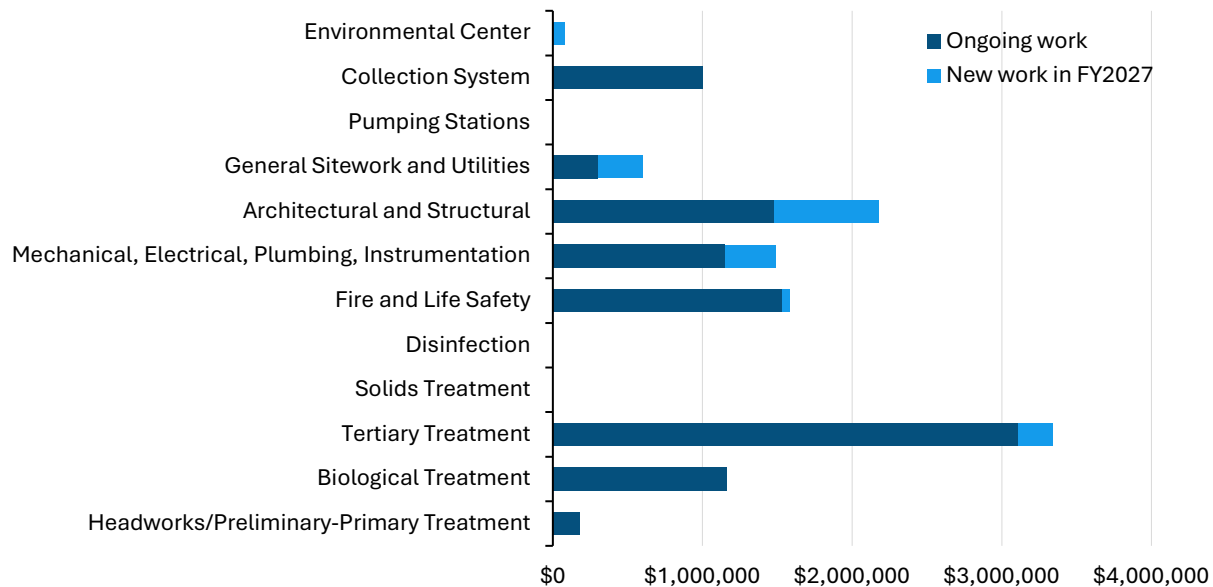


Figure 1-1. Summary of active JOC task orders

Basic Ordering Agreement Task Orders

In December 2024, the Board approved five (5) basic ordering agreements (BOA) to support AlexRenew’s planning, design, and implementation of projects as part of AlexRenew’s capital improvement program. Currently, 26 task orders at a total value of approximately \$8.6 million are being completed under these agreements.

Major BOA task orders include Nutrient Reduction Project Owner’s Advisor Services (\$0.9 million), Climate Resiliency Study (\$0.8 million), AI Feasibility Assessment (\$0.5 million), Secondary Settling Tanks Refurbishment Design (\$0.6M), and Odor Control Treatment Systems Evaluation (\$0.2M).

1.3 Procurements and Amendments

Upcoming procurements and contract amendments that support the capital improvement program, as well as sole source and emergency contracts executed under delegated authority, are highlighted on a monthly basis.

Table 1-3 summarizes active and upcoming procurements and amendments to existing projects to support AlexRenew’s capital improvement program.

Table 1-3. Active and upcoming procurements and amendments

Procurement	Project	Purpose	Board Action
Enterprise Resource Planning (ERP) Software	ERP	Request for Proposals (RFP) to select software that will manage finance and procurement processes	Feb 2027
ERP Implementation Services	ERP	RFP to procure services to assist with implementation of ERP software	Feb 2027
Change Order No. 1	Nutrient Reduction	Change order to finalize the design of the tertiary settling tanks	Sep 2026 (this meeting)
Biosolids Thermal Dryer	Biosolids Diversification	RFP to procure thermal drying equipment	Sep 2026 (this meeting)
Change Order No. 2	RiverRenew	Execution of a one-year service agreement for the combined sewer tunnel system	Oct 2026
Contract Amendment	RiverRenew	Amendment to extend the contract term of the RiverRenew Owner's Advisor contract that expires in November 2026	Oct 2026
Change Order No. 2	Nutrient Reduction	Change order to finalize design of the filter backwash and chemical systems	Nov 2026
Biosolids Thermal Dryer Facility Design	Biosolids Diversification	Procure an engineer to design said facility	Dec 2026

Sole Source and Emergency Contracts

There were no sole source or emergency contracts executed this period.

2 Thriving Workforce

Efforts toward the thriving workforce strategic goal are highlighted monthly to report progress in investing in our staff and fostering a culture of belonging.

In August, staff developed and delivered the first train-the-trainer course for team leads and senior technicians to strengthen internal knowledge transfer and technical instruction.

Six apprentices attended Virginia Tech's Wastewater Plant Operators Short School from August 3-7, which included classroom instruction and a tour of Blacksburg's wastewater treatment plant. Additionally, AlexRenew's Training Manager, Jason Spicer, and AlexRenew's Safety and Security Manager, Alex Rigby, taught wastewater and safety Short School classes, respectively.

On August 19, staff participated in a training session on neurodiversity.

Since July 23, 2026, AlexRenew has logged 28,163 hours without a recordable incident.

3 Strategic Partnerships

AlexRenew continues to foster strategic partnerships that promote watershed-level thinking through collaboration and advocacy.

After being selected for a competitive scholarship through the Water Environment Federation, AlexRenew engineer Maria Claudia attended the Circular Water Economy Study Tour hosted in South Korea on August 23-28.

On August 19, the Potomac Riverkeeper celebrated the completion of RiverRenew and their partnership with AlexRenew in an [update shared on its Facebook page](#).

On August 31, the Virginia Department of Environmental Quality (DEQ) included an update on the performance of the RiverRenew system in their “DEQ News” newsletter. DEQ noted that the July milestone and the system’s performance reflect “the strength of the engineering behind the project and its immediate, measurable impact on protecting regional water quality.”

AlexRenew staff provided a large non-perishable food donation to ALIVE! as part of its summer food drive campaign.

4 Environmental Sustainability

Each month, progress is reported on AlexRenew’s work toward environmental sustainability, with the goal of being good stewards of our resources and minimizing our impact on the environment.

AlexRenew’s use of renewable energy is tracked monthly. This month, plant boilers that use biogas were offline as part of planned maintenance, so no biogas was used in plant processes. About 7,550 kilowatt hours of energy were generated from onsite solar panels, offsetting grid power by 0.1 percent.

AlexRenew’s use of reclaimed water is tracked monthly. This month, AlexRenew recycled 108 million gallons of water to support our operations, which reduced our potable water use demand by 96 percent.

5 Commitment to the Community

5.1 Financial Update

The performance of AlexRenew’s annual approved budget is reviewed and evaluated monthly to ensure overall organizational financial stability.

Fiscal Year 2027 Expenditures

Table 5-1 summarizes AlexRenew revenues and expenditures for this period, including the following major takeaways:

- Wastewater Treatment Charge revenues (\$12.2 million) are trending in line with budget;
- Operating and maintenance expenses (\$7.3 million) are trending in line with budget; and
- Total expenses (\$28.5 million) are currently trending lower than the budgeted expenses primarily due to capital spending. This timing also impacts debt proceed revenues (\$7.3 million), which are lower than budgeted since most capital expenses are funded through

debt.

Table 5-1. Revenues and Expenses through August 2026

Revenues and Expenses	FY2027 Budget (\$)	FY2027 To-date (\$)	% of Budget To-date	% of FY2027 Completed	Total FY2027 Projected
Revenues					
Wastewater Treatment Charge	67,892,993	12,220,739	18	17	67,800,000
Fairfax Operating Charge	16,961,053	2,883,379	17	17	16,900,000
Fairfax Capital Contributions	76,478,042	6,118,243	8	17	56,300,000
Debt Proceeds and Other Sources	65,842,337	7,286,484	11	17	45,850,000
Total Revenues	227,174,425	28,508,845	13	17	186,850,000
Expenses					
Operating and Maintenance	44,054,684	7,269,023	17	17	43,900,000
Parity Debt Service	20,874,530	3,465,172	17	17	20,850,000
IRR (1)	15,501,284	3,100,257	20	17	16,500,000
Capital	146,743,928	14,674,393	10	17	105,600,000
Total Expenses	227,174,425	28,508,845	13	17	186,850,000

Notes: (1) Improvement, Renewal, and Replacement is the program for routine investments to maintain and repair equipment. The IRR program funds capital improvements under \$1 million and not part of major upgrade projects

Financial Metrics

AlexRenew monitors two metrics to ensure sufficient cash reserves – Operating & Capital Days Cash on Hand and Total Days Cash on Hand. Days cash on hand or “days cash” is calculated by dividing the amount of unrestricted cash by the annual operating expenses, times 365 (total days in any given fiscal year). Operating & Capital Days Cash includes only a portion of AlexRenew’s unrestricted operating cash, while Total Days Cash includes all AlexRenew unrestricted cash and represents the days cash benchmark typically reviewed by rating agencies. Minimums required by the Financial Policy for Operating & Capital and Total Days Cash are 120 and 270 days, respectively.

AlexRenew’s Financial Policy also requires a debt service coverage of 1.6 times. Debt service coverage is calculated by dividing net revenue by annual debt service. This metric indicates AlexRenew’s ability to pay off its annual debt service payments.

AlexRenew’s current estimate exceeds its Financial Policy cash reserves and debt service coverage requirements as indicated in Tables 5-2 and 5-3.

Table 5-2. Cash Reserves

Days Cash on Hand	Minimum	FY2027 Annualized	Percentage of Goal
Operating and Capital Days Cash on Hand	120	126	105%
Total Days Cash on Hand	270	679	251%

Table 5-3. Debt Service Coverage

Item	FY2027 Budget	FY2027 Annualized
Total Revenues	\$86,554,046	86,400,000
Less Operating Expenses	(\$44,054,684)	(\$43,900,000)
Net Revenue	\$42,499,363	\$42,500,000
Annual Debt Service	\$20,874,530	\$20,850,000
Calculated Coverage	2.04 times	2.04 times

5.2 Customer Service

Each month, AlexRenew closely tracks customer interactions and engagements to continue to remain responsive, transparent, and focused on delivering high-quality service.

AlexRenew billed 23,584 residential accounts and 3,468 commercial accounts in August.

The AlexRenew customer service team received a total of 668 calls. The average wait time before calls were answered was 14 seconds. Call center staff answered 378 emails.

Additionally, AlexRenew mailed 15,431 customer bill inserts, sent 1,211 text messages to payment plan participants, and provided 1,112 payment reminders by phone and email.

Figure 5-1 illustrates active AlexRenew customer accounts 60 or more days delinquent and total delinquent dollar amount owed over the last three (3) years. Major takeaways for this period include:

- The number of accounts delinquent by more than 60 days was 687, an increase of 25 accounts month-over-month;
- The total dollar amount owed to AlexRenew from these accounts was \$747,495, a decrease of \$39,150 month-over-month;
- 311 accounts are enrolled in payment plans, representing \$498,637 in the total dollar amount (67 percent) owed to AlexRenew; and
- Approximately 51 percent of the delinquency value is from residential accounts.

AlexRenew has continued its communications campaign around LEAP. Over this period, 18 accounts received a total of \$9,014. Additional updates on LEAP are outlined in the LEAP Dashboard (attached).

On behalf of AlexRenew, Virginia American Water disconnected 30 customers for nonpayment of their sewer bill in August. Of the customers who were disconnected, fourteen (14) paid their balance in full, thirteen (13) enrolled in a payment plan, three (3) accounts closed, and five (5) applied for a LEAP disbursement. Since July 2024, there have been 734 disconnections. Of these, 68 accounts received a total of \$59,447 in LEAP disbursements.

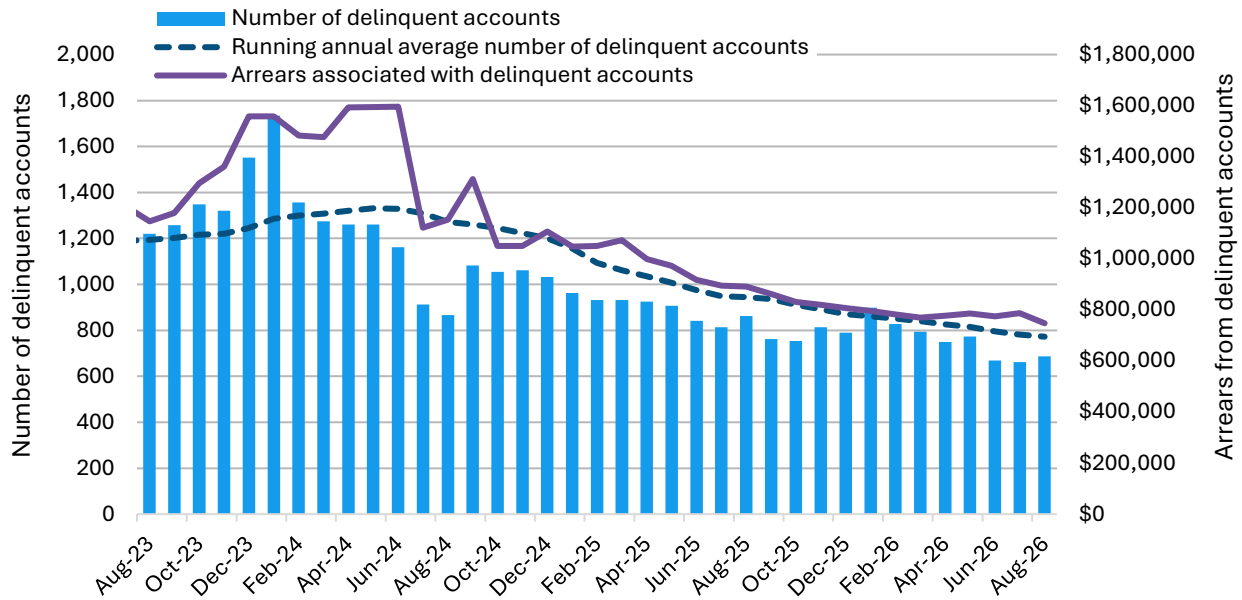


Figure 5-1. Active AlexRenew customer accounts 60 or more days delinquent

5.3 Community Engagement

AlexRenew shares a monthly summary of its community engagement metrics that highlight its contributions toward its commitment to engagement and trust.

An update on the operations of the RiverRenew system was featured in an article in the [Bay Journal](#). Additionally, the [Alexandria Times](#) published an article regarding per- and polyfluoroalkyl substances in Alexandria's water systems.

Table 5-4 provides a summary of AlexRenew's community engagement metrics for the month.

Table 5-4. Summary of August 2026 Community Engagement Metrics

Parameter	Average	Total for Month	Notes
Website Views	25,000	26,914	
Media Pickups	2.5	3	Bay Journal, Alexandria Times
Social Media Impressions	45,000	57,500	
Email Opens	10,000	10,349	54.5% open rate
Tours	2	0	
Environmental Center Visitors	600	591 (1)	

Notes: (1) Arlington Public Schools (20), Capital Youth Empowerment Program (25), Alexandria Soccer Association (167), Alexandria City Public Schools (115), Alexandria A Capella Collective (100), Moms Demand Action (25), Alexandria Seaport Foundation (24), North American Scrabble Players Association (42), Hopkins House (55), Future Port (6), and National Capital Area Garden Club (12).

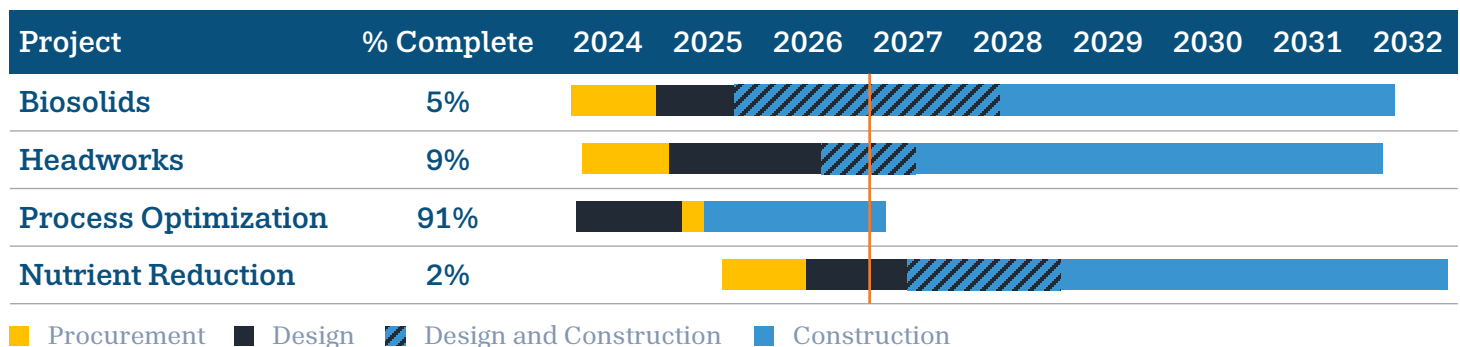
phaseforward

AlexRenew is making a significant investments to improve the resiliency of its infrastructure to support our evolving community.

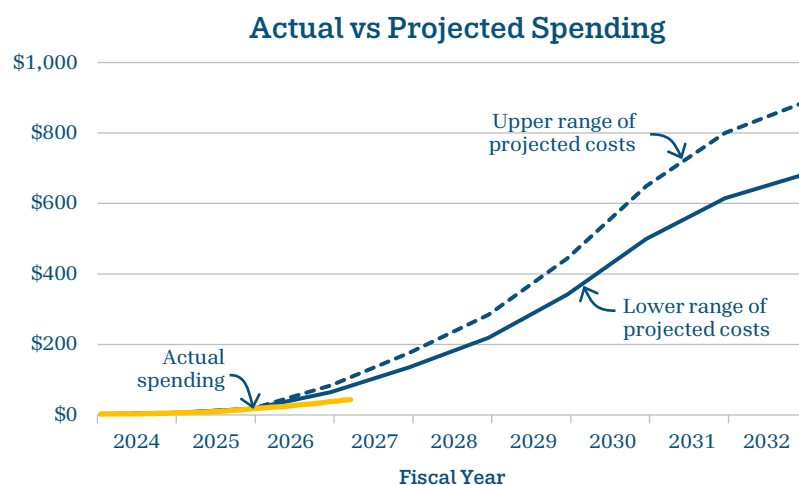
The PhaseForward program includes significant upgrades to critical wastewater processes that will allow us to meet new regulatory requirements and continue to improve the resilience of our infrastructure.

- **Biosolids Diversification:** Upgrades to meet emerging regulations, increase bioenergy production, and realize alternative beneficial end uses for biosolids
- **Headworks Renewal:** Improvements to preliminary and primary treatment systems and pumping station that remove debris and grit entering the plant from the community
- **Process Optimization:** Installation of new equipment to enhance our nutrient removal processes and continue to improve water quality in the Chesapeake Bay and its tributaries
- **Nutrient Reduction:** Rehabilitation of processes providing the final settling and filtration of wastewater to further reduce nutrient loads and allow for continued growth in our community

PhaseForward schedule:



PhaseForward spending (to date):



Spending by Project

Project	Estimate	Total	% Local
Biosolids	\$355	\$19.1	75%
Headworks	\$127	\$11.7	90%
Process Opt.	\$10	\$9.1	72%
Nutrient Red.	\$190	\$3.3	92%
Total	\$682	\$43.2	80%

Notes: (1) Dollar amounts reflected in millions; (2) Estimates are based on current fiscal year capital costs; (3) Local spending % includes Alexandria, Northern Virginia, Maryland, and Washington, DC



Biosolids

- Installed hot water supply piping
- Began preparations for demolition of first gravity thickener
- Started up new heat exchangers



Headworks

- Inspected fine screen influent channel for future bulkhead installation
- Completed contractor trailer installation



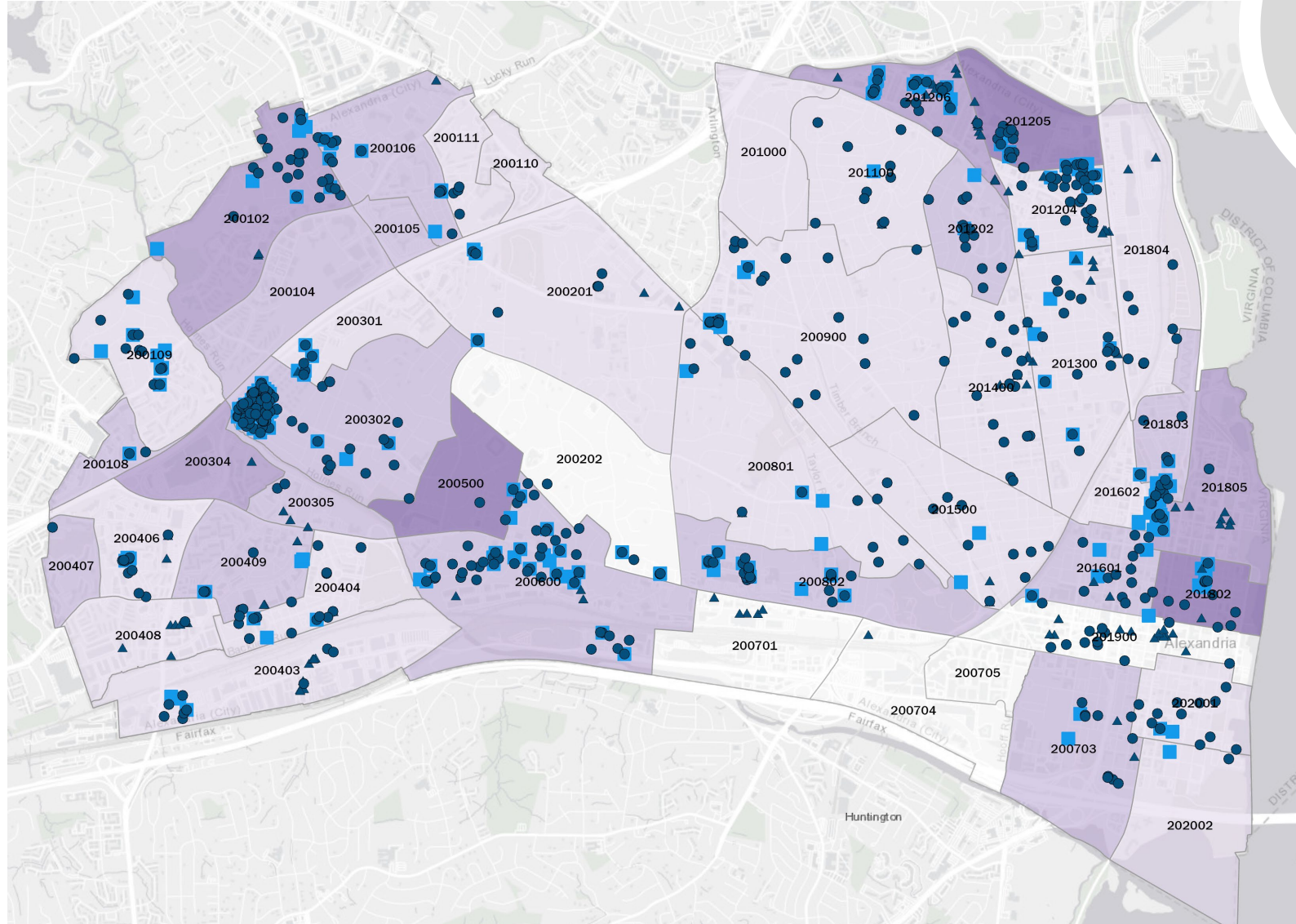
Process Optimization

- Received delivery of “red bugs” from HRSD’s York River plant
- Began equipment functional testing
- Completed staff training to prepare for turnover and operation



Nutrient Reduction

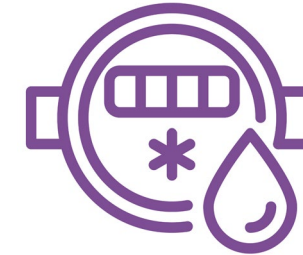
- Negotiated the scope and cost of the change order for the final design for the Tertiary Settling Tank upgrades that is presented as part of this month’s Board meeting



\$212,953
Disbursed To-Date
\$9,014 disbursed this period



274 LEAP Disbursements
235 customers assisted to date
18 customers assisted this period



734 Service Disconnections for Nonpayment
30 customers disconnected this period

Legend

Percentage of Households Receiving SNAP

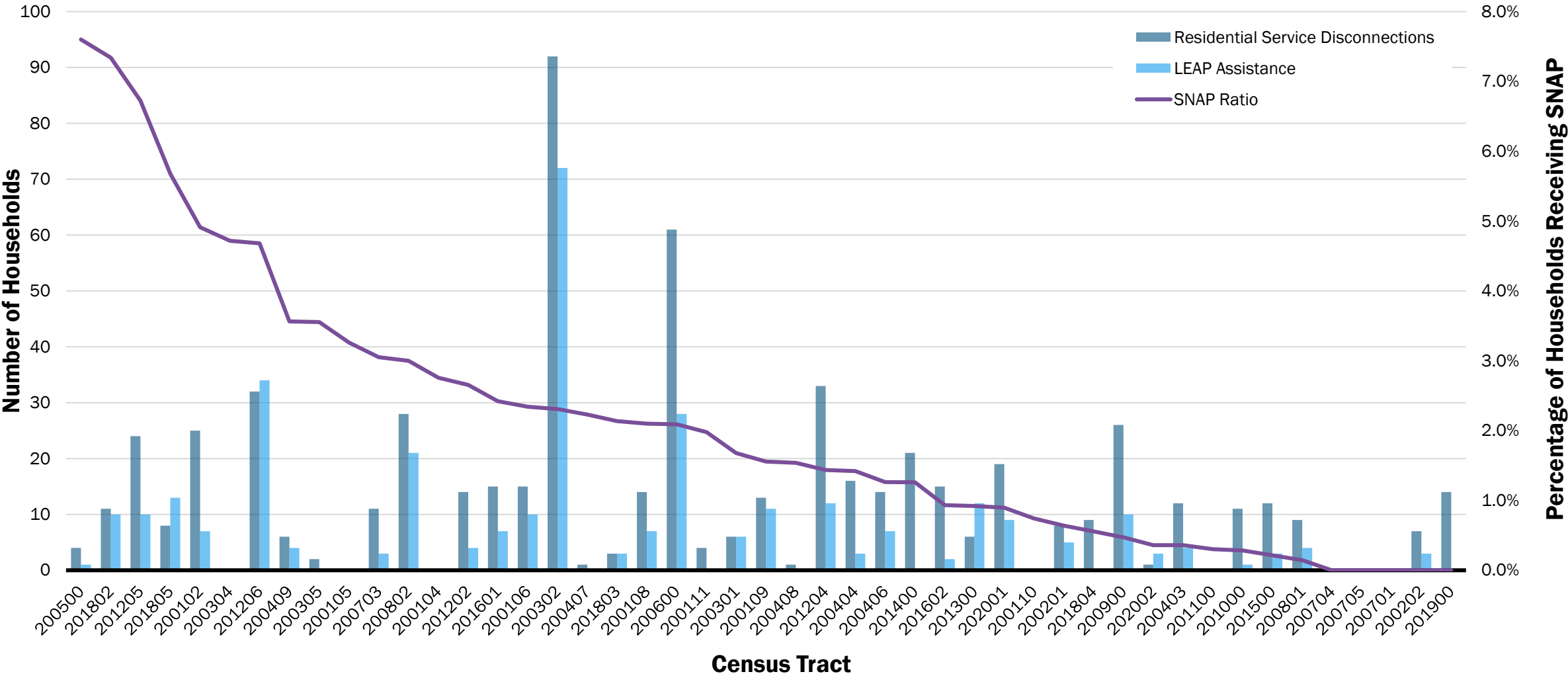
- 0
- 0 - 2.0%
- 2.0 - 4.0%
- 4.0 - 6.0%
- 6.0 - 8.0%

Averages: U.S. (12.5%); Virginia (3.0%); Alexandria (2.2%)

- Residential disconnections
- ▲ Commercial disconnections
- Residential customers receiving LEAP assistance

LEAP Assistance, Service Disconnections, and SNAP Ratio by Census Tract

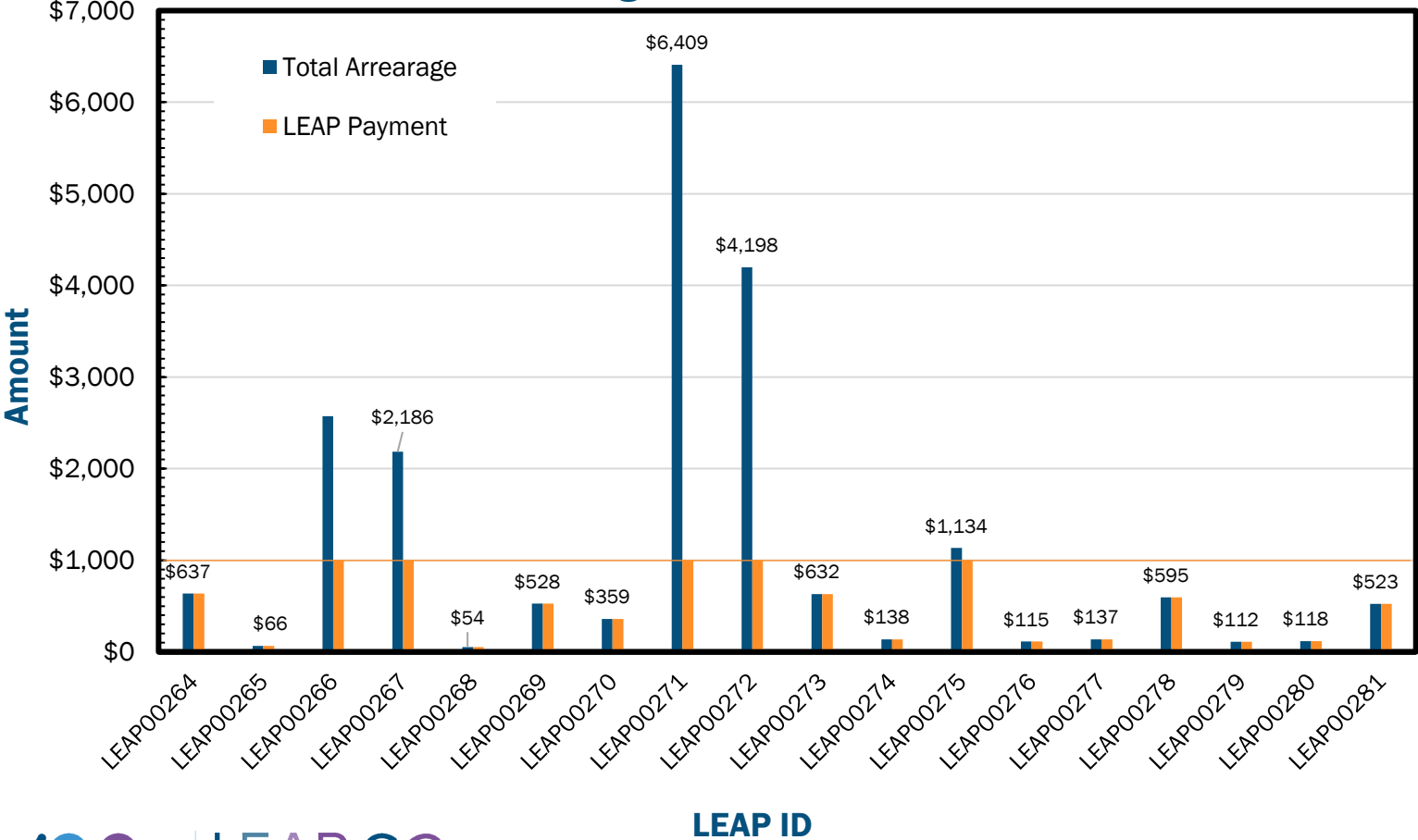
August 31, 2026



LEAP Disbursements and Remaining Arrearage by Account

August 31, 2026

Disbursements – August 2026



(August 2026)

Disbursed	Arrearage	% of Arrearage	
\$1,000.00	\$6,408.99	15.60%	
\$1,000.00	\$4,198.34	23.82%	
\$1,000.00	\$2,574.00	38.85%	
\$1,000.00	\$2,185.95	45.75%	
\$1,000.00	\$1,134.13	88.17%	
\$637.00	\$637.00	100.00%	
\$632.00	\$632.00	100.00%	
\$595.00	\$595.00	100.00%	
\$528.00	\$528.00	100.00%	
\$523.00	\$523.00	100.00%	
\$359.00	\$359.00	100.00%	
\$138.00	\$138.00	100.00%	
\$137.00	\$137.00	100.00%	
\$118.00	\$118.00	100.00%	
\$115.00	\$115.00	100.00%	
\$112.00	\$112.00	100.00%	
\$66.00	\$66.00	100.00%	
\$54.00	\$54.00	100.00%	
Average:	\$500.78	\$1,139.75	84.01%
Median:	\$525.50	\$525.50	100.00%