



AlexRenew

TERTIARY SYSTEMS UPGRADES PROJECT

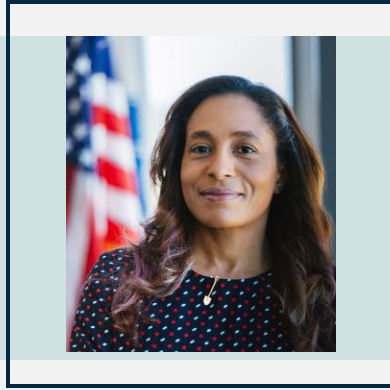
INDUSTRY OUTREACH EVENT | FEBRUARY 19, 2025

TODAY'S PRESENTERS



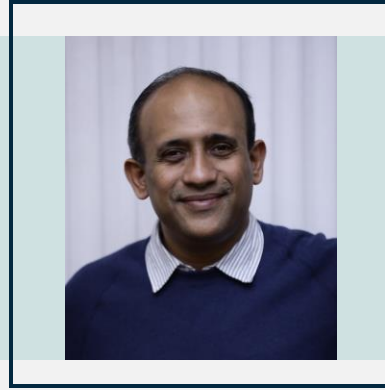
Chief Administrative Officer
Caitlin Feehan

Caitlin joined AlexRenew in 2018 and serves as the Chief Administrative Officer, responsible for AlexRenew's Communications, Procurement, and Finance Departments.



Chief Engineering Officer
Felicia Glapion

Felicia joined AlexRenew in 2019 and serves as the Chief Engineering Officer, responsible for AlexRenew's Engineering and Maintenance Departments.



Engineer
Andy Dastidar

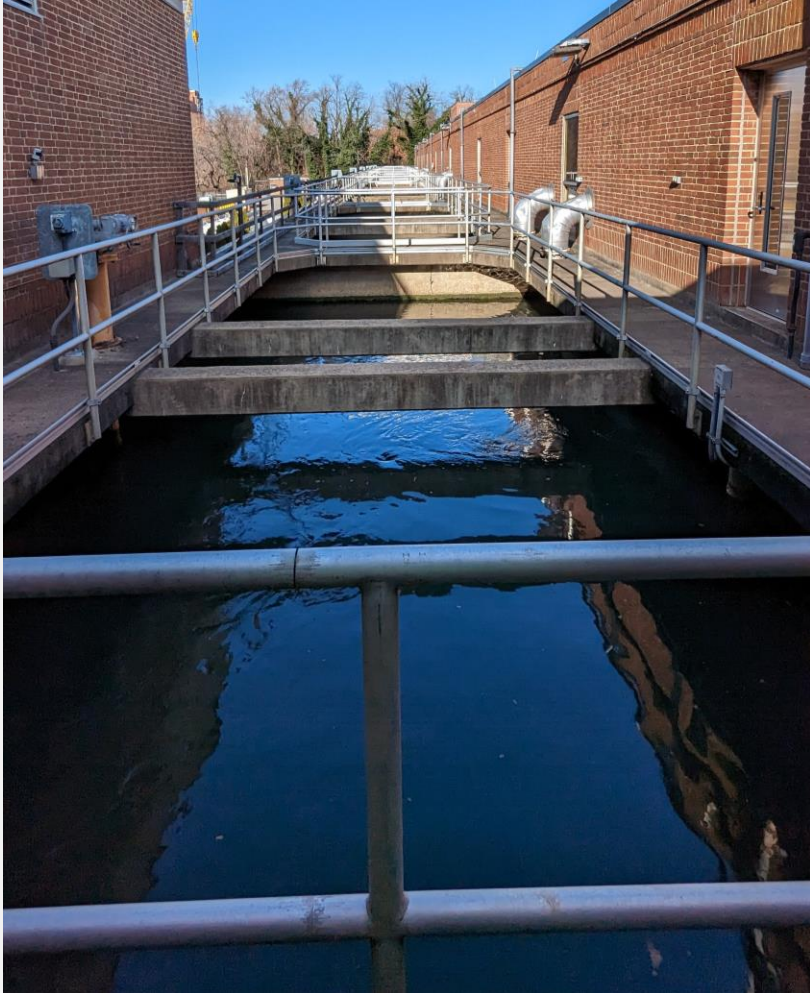
Andy joined AlexRenew in 2021 and serves as an Engineer II, responsible for managing various projects within AlexRenew's Capital Improvement Program.



Owner's Advisor
Jason Garside

Jason is a senior vice president within Carollo's Program Management and Owner's Advisory (PMOA) Group. He has more than 20 years of experience in water/wastewater design and alternative project delivery.

OUTLINE



- 01 AlexRenew Overview**
General, service area and assets, and strategic goals
- 02 PhaseForward Program**
Projects, schedule, and management
- 03 Tertiary Systems Upgrade Project Scope**
Discussion of major scope items
- 04 Procurement**
Review timeline
- 05 Next Steps**
- 06 Networking**
Attendee refreshments and information exchange

ALEXRENEW AT-A-GLANCE

MISSION

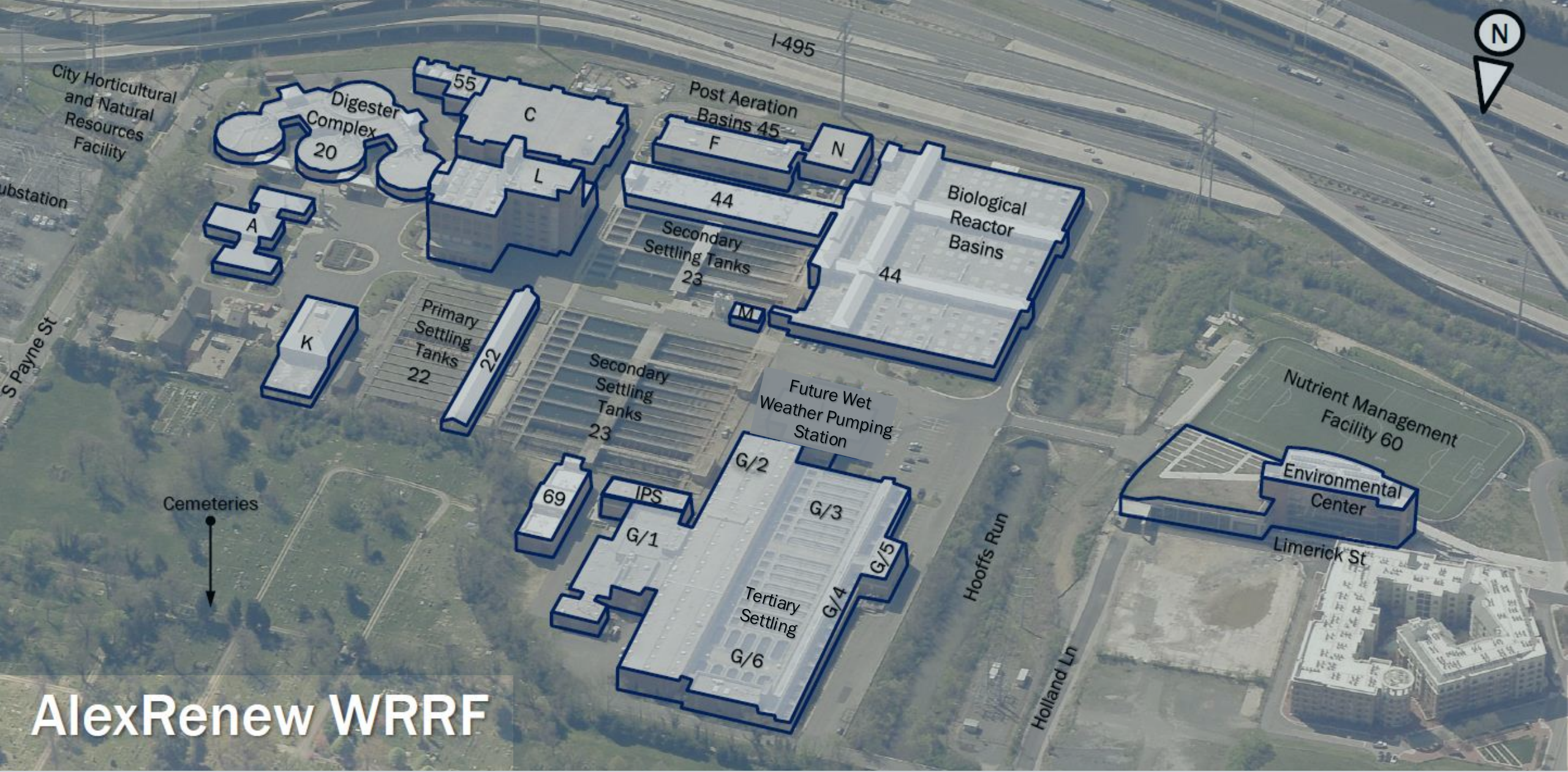
Treat wastewater to protect public health and the waterways that connect us

VISION

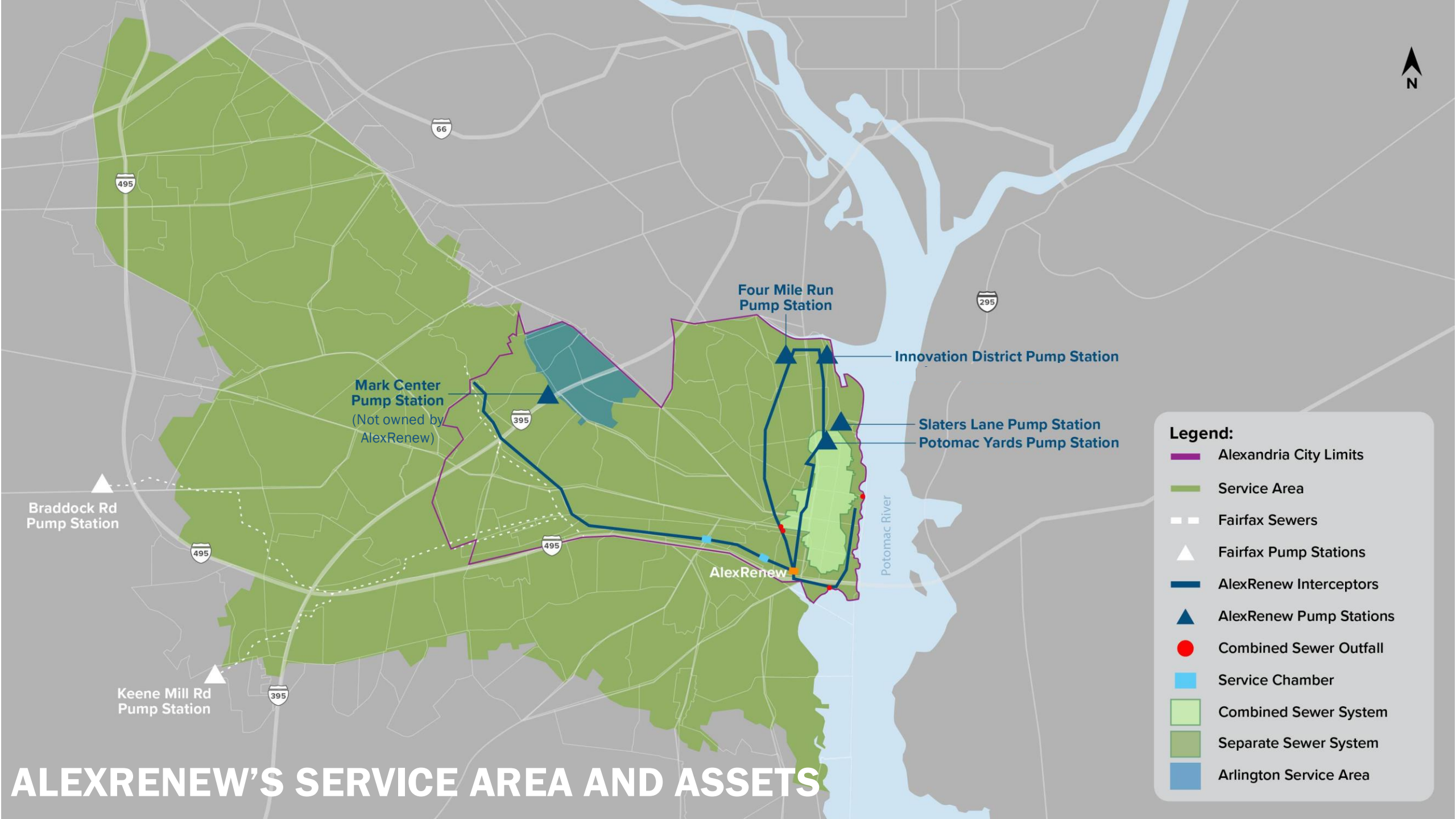
Every drop of water contributes to a thriving community and healthy environment for all

FAST FACTS

- Independent, wastewater-only authority
- Treats 13 billion gallons of wastewater annually
- Serves Alexandria, VA and portions of Fairfax County
- Governed by 5-member citizen Board
- One of three water providers in Alexandria, VA

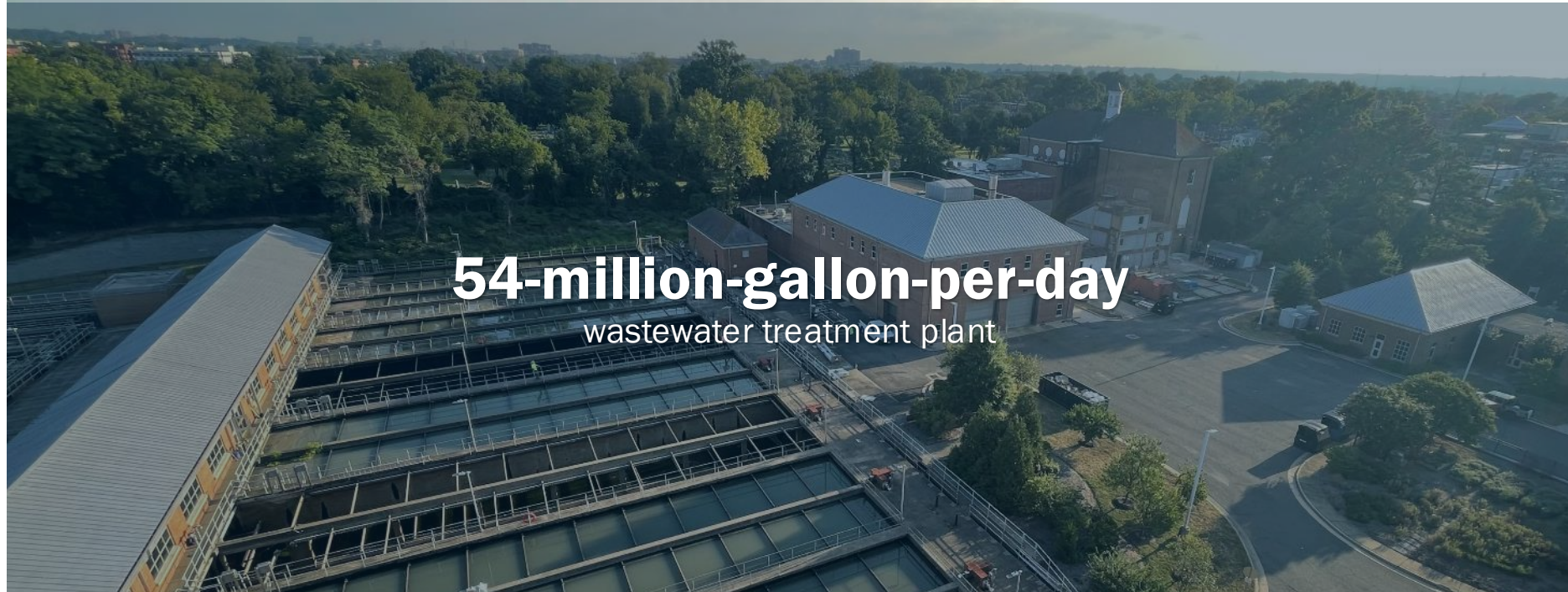


AlexRenew WRRF

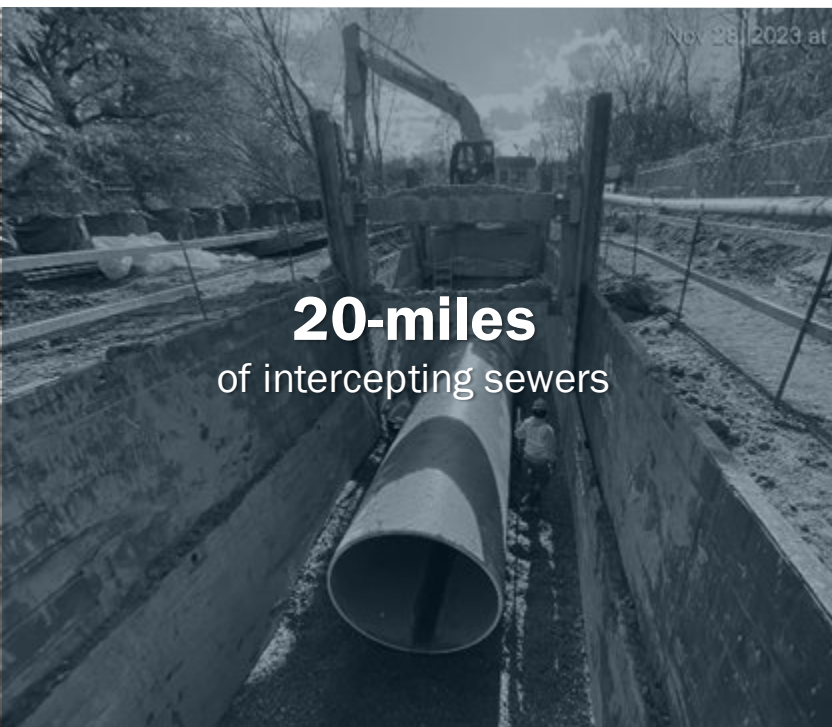


ALEXRENEW'S SERVICE AREA AND ASSETS

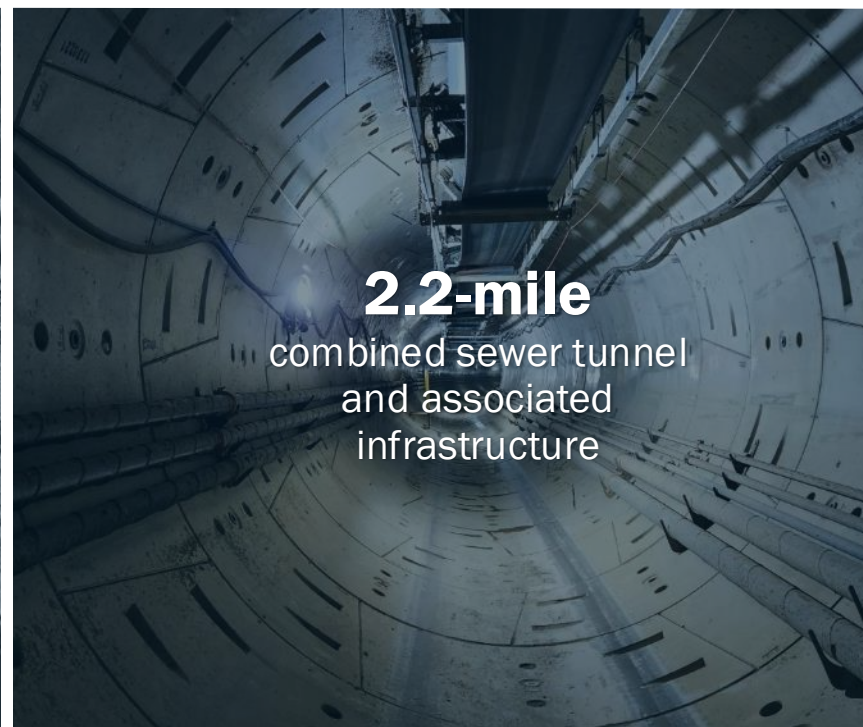
**ALEXRENEW'S
\$1.2 BILLION
OF ASSETS**



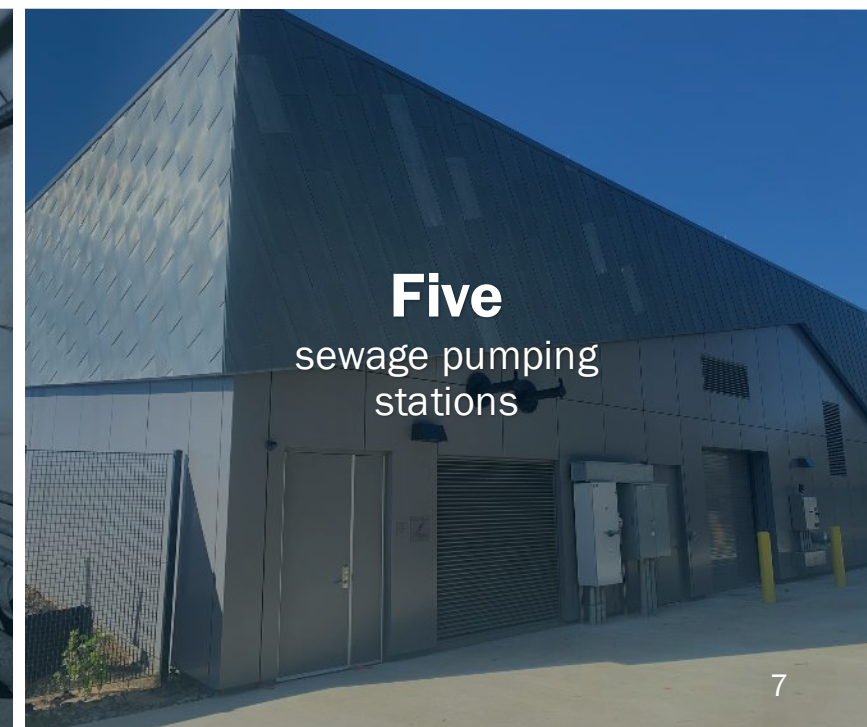
54-million-gallon-per-day
wastewater treatment plant



20-miles
of intercepting sewers



2.2-mile
combined sewer tunnel
and associated
infrastructure



Five
sewage pumping
stations

AlexRenew

STRATEGIC GOALS

Operational Excellence

Taking proactive steps to meet current and future challenges

Thriving Workforce

Investing in our staff and fostering a culture of belonging

Environmental Sustainability

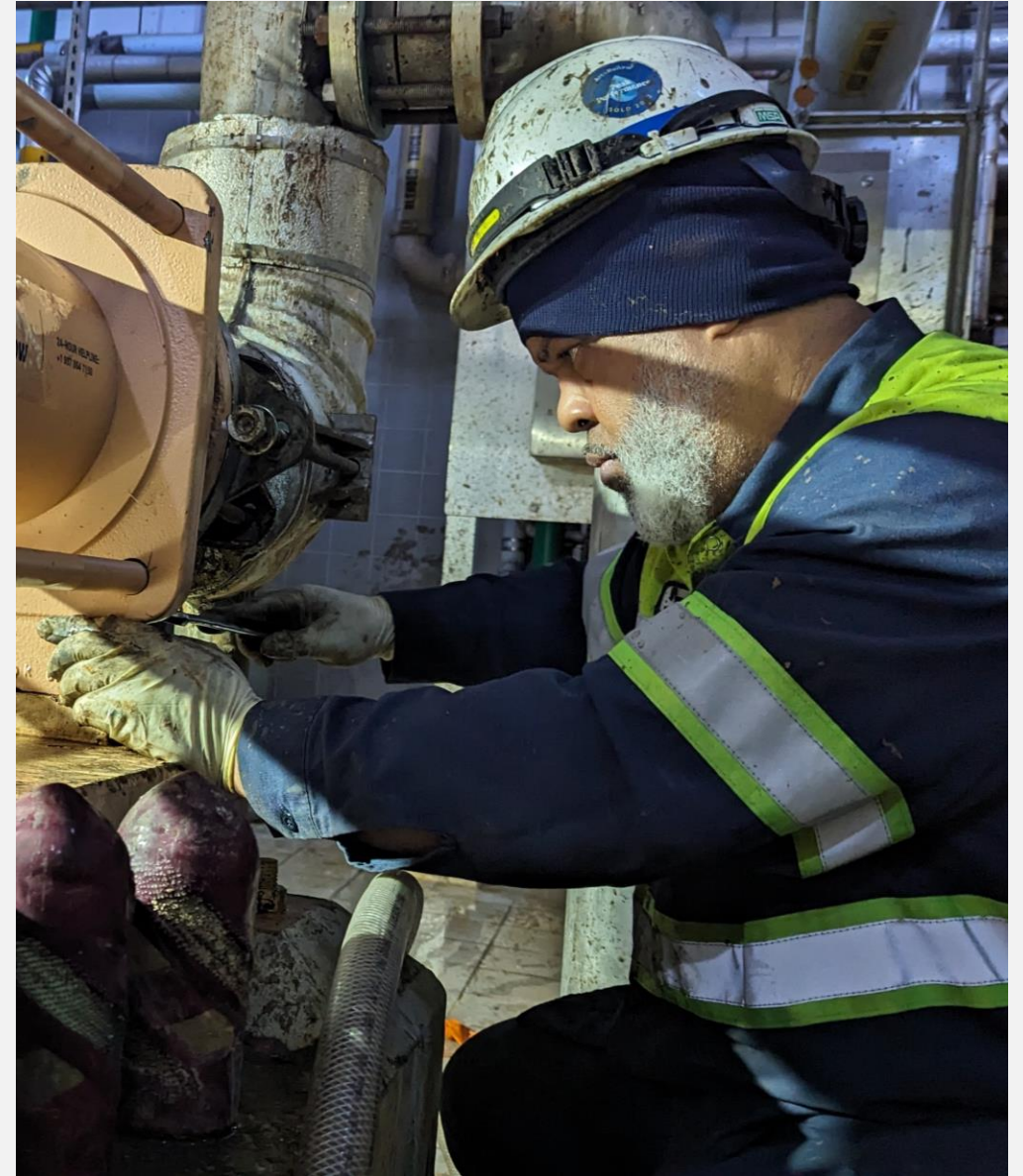
Being good stewards of our resources to minimize our impact on the environment

Commitment to Community

Strengthening connections with the public and providing affordable service

Strategic Partnerships

Promoting watershed-level thinking through collaboration and advocacy





ALEXRENEW

MAJOR CURRENT AND UPCOMING PROJECTS

Tertiary
Systems
Upgrade
Project

Centrate
Pretreatment
Upgrade Project
(CPT)

RiverRenew
Tunnel Project

Preliminary and Primary
Systems Upgrade Project
(PPSU)

Job Order
Contracts

Solids Upgrade
Program
(SUP)

phaseforward

Building a Resilient Wastewater Future



Solids Upgrade Program

Type: CMAR
CMAR: PC Construction
Engineer: Stantec
Inspections: Stantec



Preliminary and Primary Systems Upgrade Project

Type: CMAR
CMAR: Ulliman Schutte
Engineer: GHD
Inspections: GHD



Centrate Treatment Project

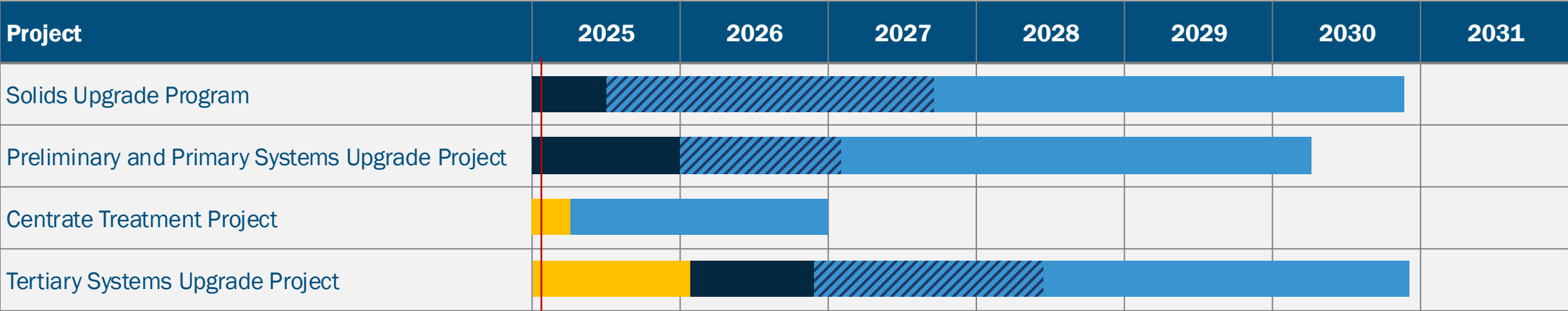
Type: Design-Bid-Build
Contractor: TBD
Engineer: Jacobs
Inspections: Brown & Caldwell (CM)



Tertiary Systems Upgrade Project

Type: Progressive Design-Build
Design-Builder: TBD
Owner's Advisor: Carollo
Inspections: Brown & Caldwell (CM)

PHASEFORWARD SCHEDULE

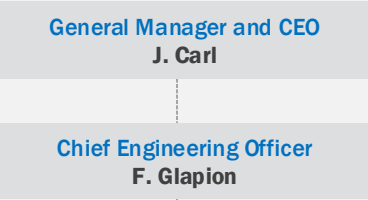


Procurement

Design

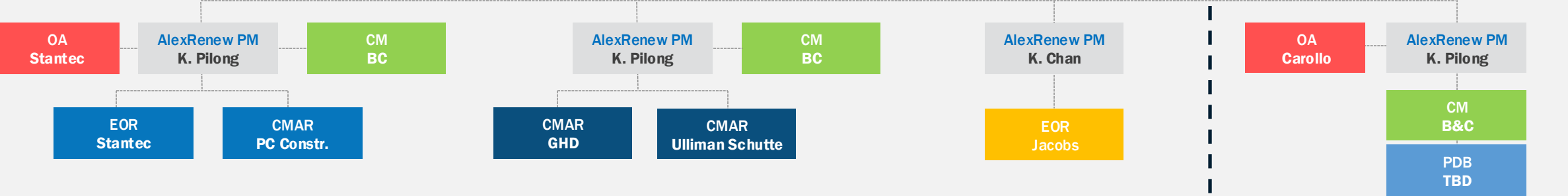
Construction

PHASEFORWARD ORG CHART

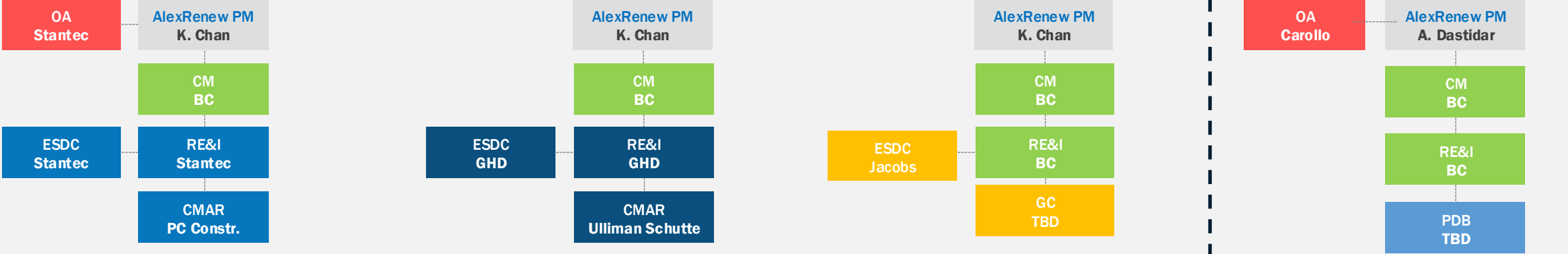


- AlexRenew
- CM Team (B&C)
- Centrate (DBB)
- Owner's Advisor
- PPSU (CMAR)
- Tertiary (PDB)
- Solids Upgrade Project (CMAR)

Preconstruction Phase



Construction Phase



Solids Upgrade Program

Preliminary and Primary
Systems Upgrade Project

Centrate Treatment Project

Tertiary Systems Upgrade
Project

TERTIARY SYSTEMS UPGRADE PROJECT

PROJECT SNAPSHOT

- 1 Filter rehabilitation and conversion to denitrification
- 2 Tertiary settling tank equipment upgrades
- 3 New denitrification filters

DELIVERY METHOD

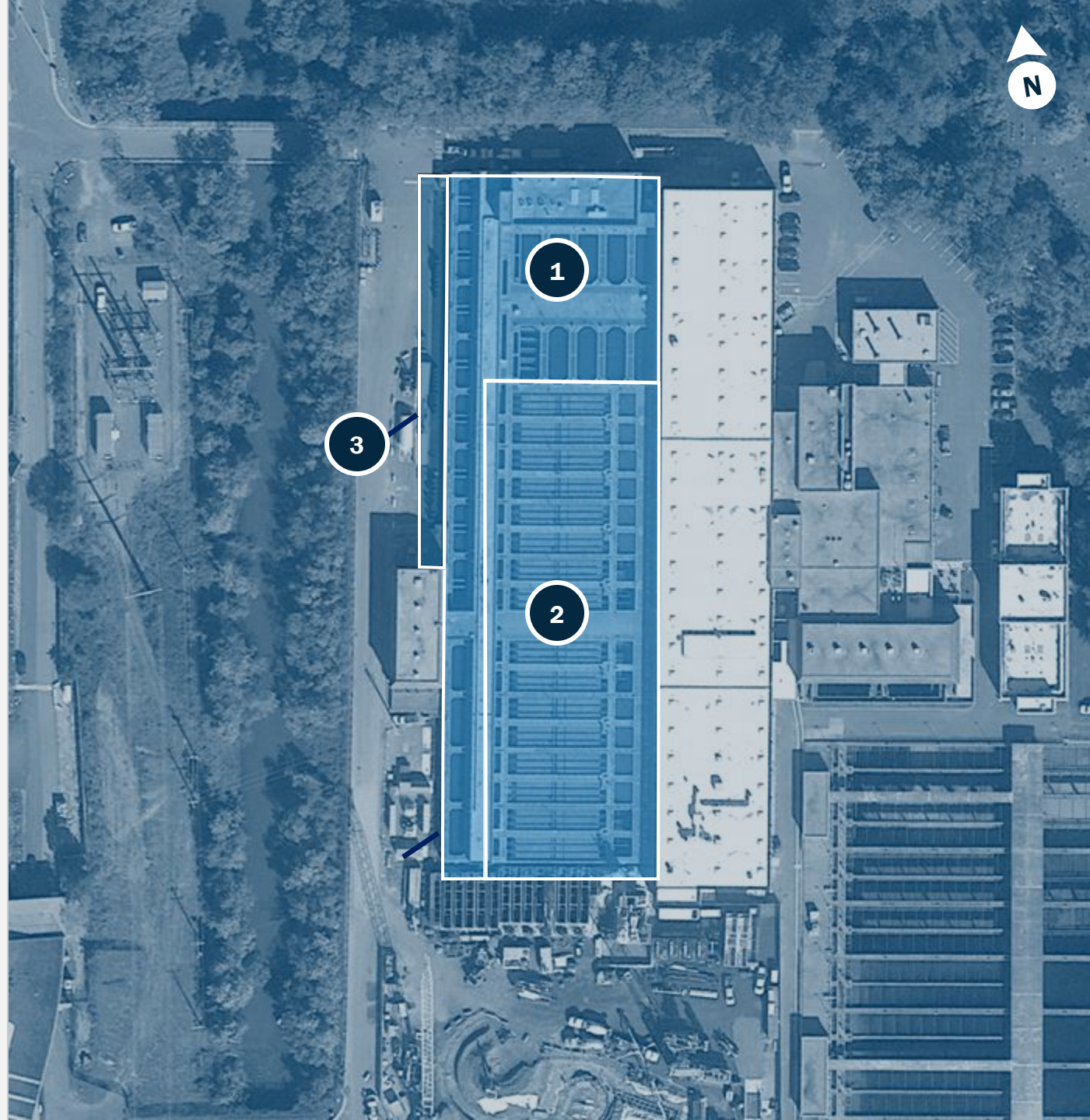
- Progressive Design-Build

ESTIMATE CONSTRUCTION COST

- \$130 million (ROM estimate)

SCHEDULE

- Notice to Proceed: January 2026



FILTER REHABILITATION AND CONVERSION

AlexRenew's 22 filters require rehabilitation to address ageing infrastructure and conversion to denitrification.

Project scope includes:

- / Replace media and gravel support
- / Replace valves and actuators
- / Replace air piping
- / Replace pumps and blowers
- / Replace NaOCl and dilution water piping
- / Structural repairs
- / Trough refurbishment
- / Retain/clean underdrains



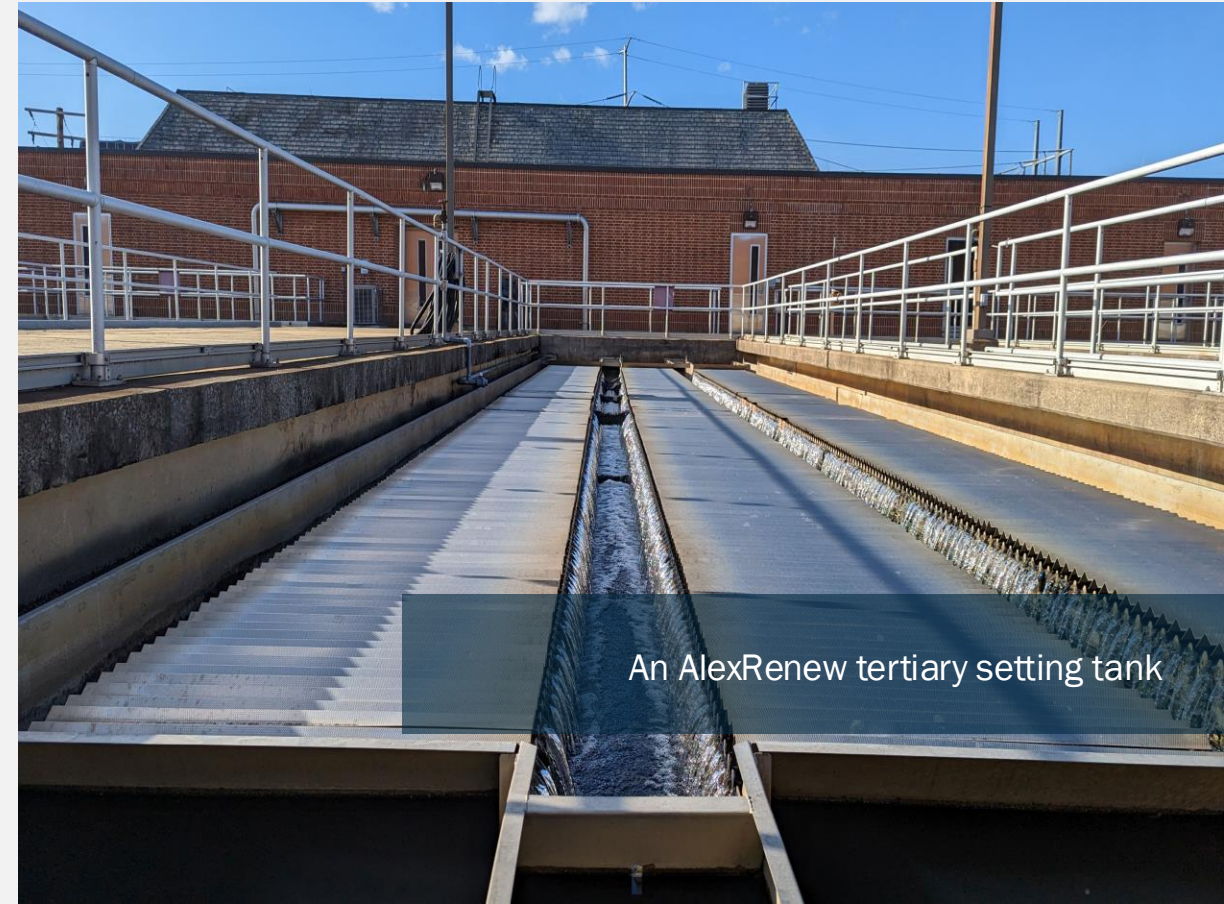
An AlexRenew filter

TERTIARY SETTLING TANK UPGRADES

AlexRenew's existing 8 tertiary settling tanks require upgrades to improve the reliability of the system

Project scope includes:

- / Clean settling plates and weirs
- / Replace equipment
 - / Stop plates, baffles walls, rapid mixers, chain & flight system, flocculators etc.
- / Repair concrete
- / Replace valves and piping
- / Add membrane tank covers



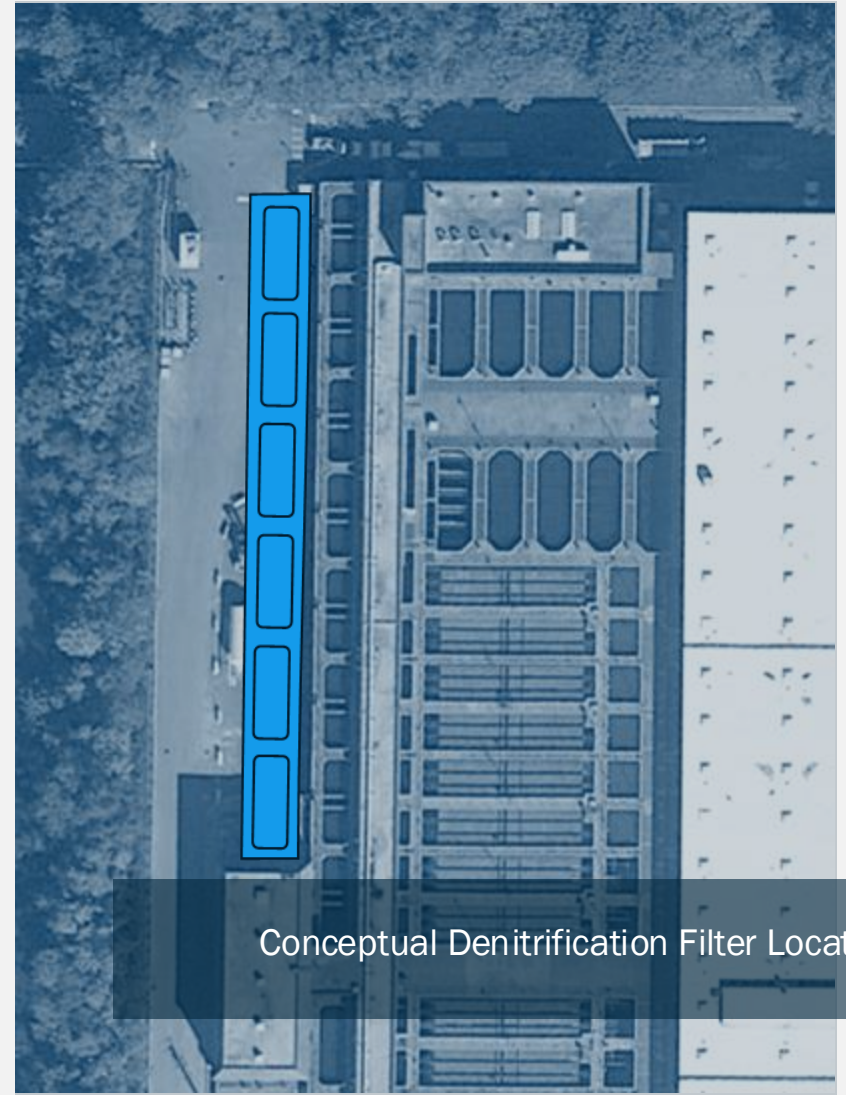
An AlexRenew tertiary setting tank

NEW DENITRIFICATION FILTERS

To support plant expansion and remove additional nitrogen load associated with additional flow, up to six (6) new denitrification filters will be constructed.

Project scope includes:

- / Construct structure to house new denitrification filters
- / Add piping gallery
- / Site improvements (i.e. piles)



Conceptual Denitrification Filter Location

PROCUREMENT OVERVIEW

PROCUREMENT

- / Two-Step Process (RFQ/RFP)

PRECLUSIONS

- / Brown & Caldwell and Schnabel (PhaseForward Construction Management Team)
- / Carollo (Tertiary Systems Upgrade Project Owner's Advisor)

ANTICIPATED REQUIREMENTS

- / Contractor-led Design-Build Team (no engineer-led teams)
- / Must demonstrate ability to self-perform (~ at least 50% of work)
- / Bonding Capacity (approximate) - \$120M

ANTICIPATED CONTRACT PROVISIONS

**Mutual Waivers of
Consequential Damages**

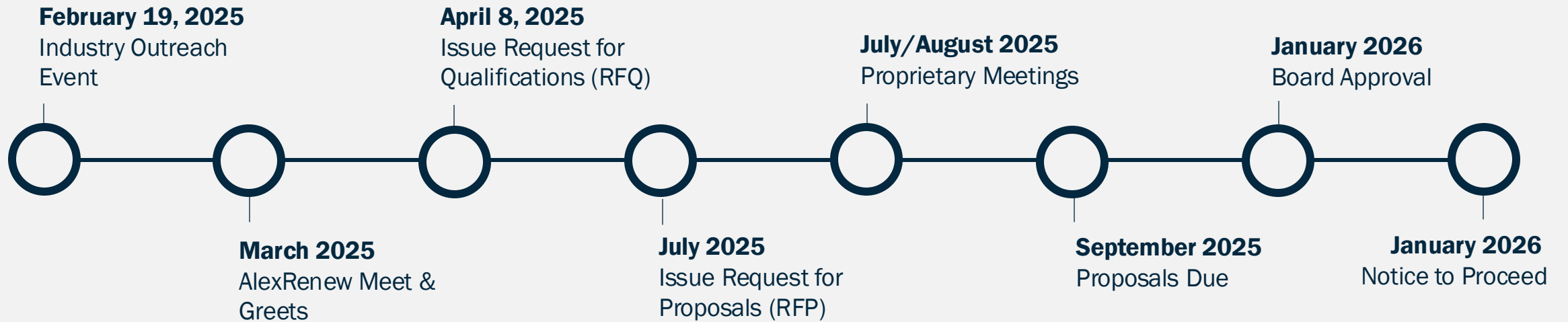
Partnering

**Change Process/Delegation
of Authority**

Liquidated Damages

Design-Builder Self-insures

PROCUREMENT TIMELINE



NEXT STEPS

MEET AND GREET WITH ALEXRENEW

- / Opportunity to introduce firms to AlexRenew staff
- / Now through March 28, 2025
- / To schedule, reach out to AlexRenew's Point of Contact via email

TERTIARY SYSTEMS UPGRADE RFQ

- / Will be posted on [AlexRenew.com/procurement](https://alexrenew.com/procurement) and eVA.virginia.gov

ALEXRENEW POINT OF CONTACT

Igor Scherbakov
Procurement Manager
Tertiary-25-004@alexrenew.com

