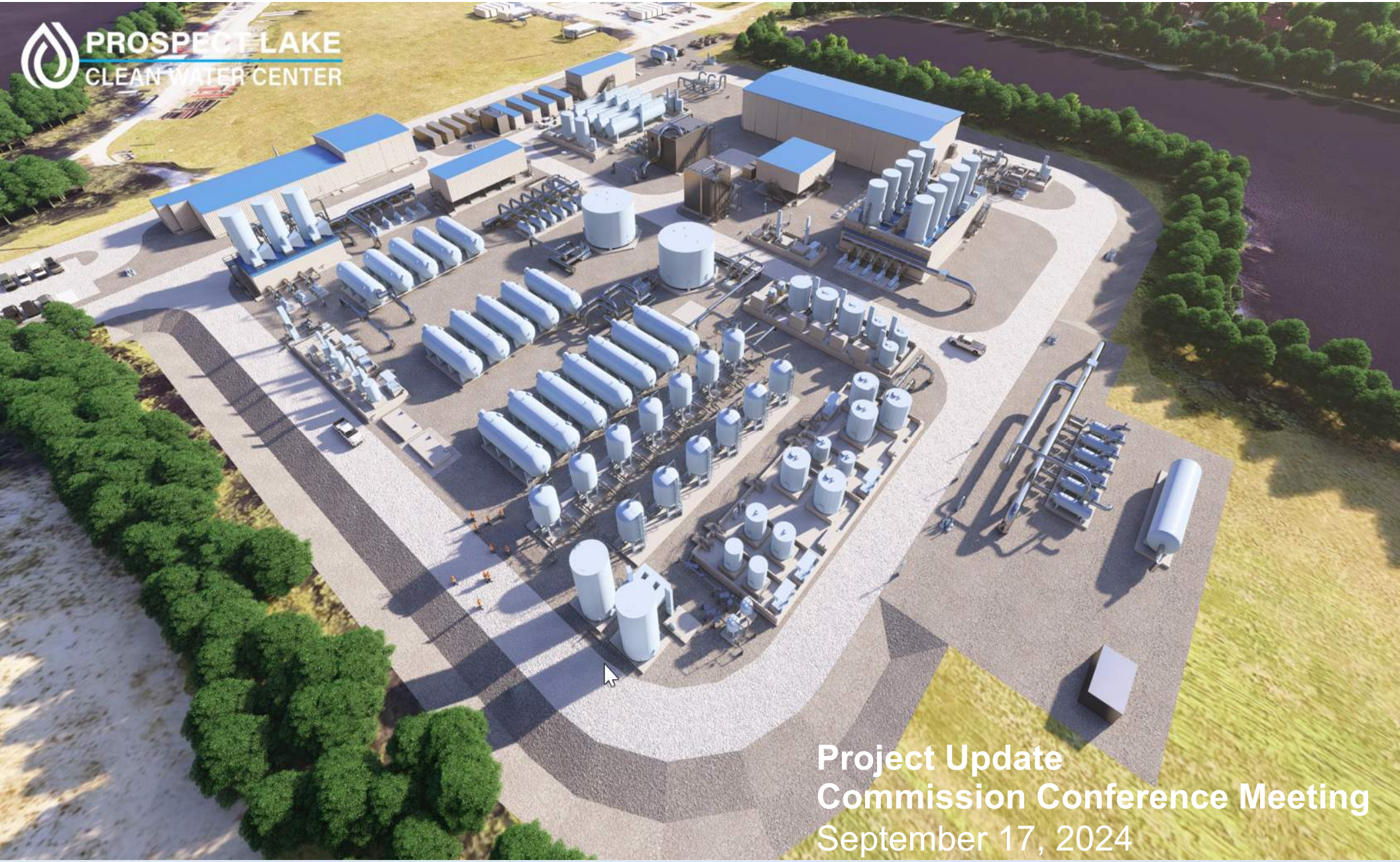
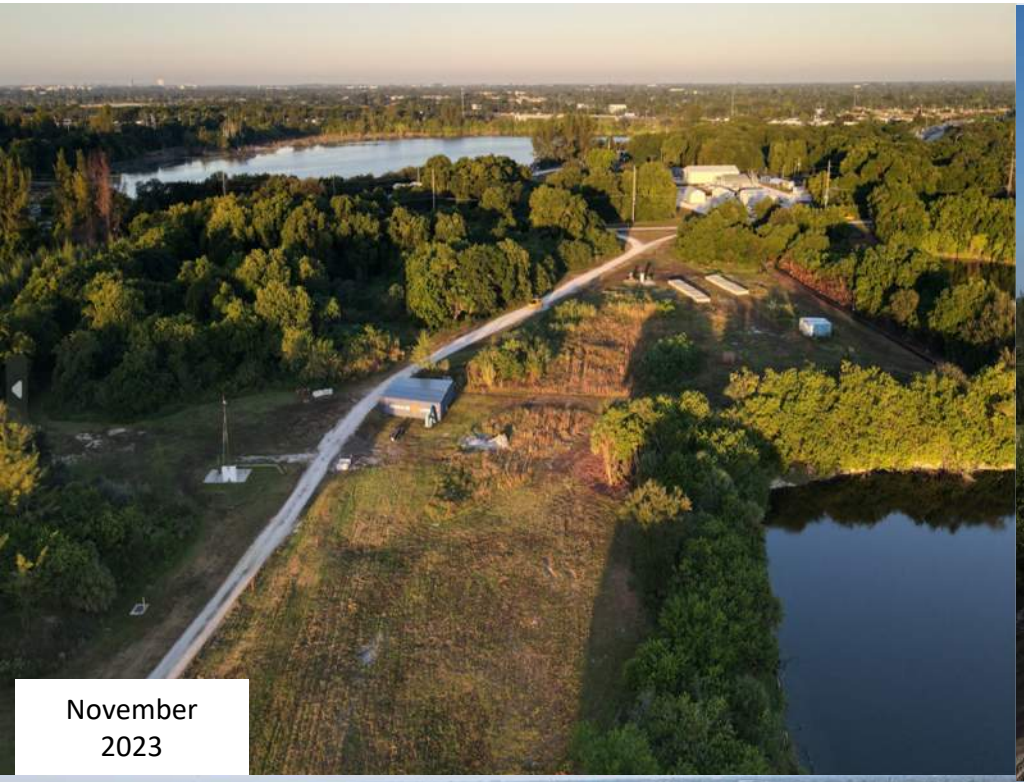


Project Update
Commission Conference Meeting
September 17, 2024

CITY OF FORT LAUDERDALE

PROSPECT LAKE
CLEAN WATER CENTER



November 2023

February 2024

December 2023

April 2024

CITY OF FORT LAUDERDALE

PROSPECT LAKE CLEAN WATER CENTER

May 2024

July 2024

June 2024

August 2024

CITY OF FORT LAUDERDALE

PROSPECT LAKE CLEAN WATER CENTER

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PROSPECT LAKE CLEAN WATER CENTER

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PROSPECT LAKE CLEAN WATER CENTER

CITY OF FORT LAUDERDALE

PROSPECT LAKE CLEAN WATER CENTER


4" Water Hydrant for Youngquist
Temp Water line w/ Hydrants
CRAFT PARKING
STOCKPILE AREA
STAFF PARKING
PIPE YARD
Maint. & Fuel Storage
Craft Training
RESERVED FOR EQUIPMENT LAYDOWN
Burrowing Owl Mitigation Area
TOPSOIL STOCKPILE
MULCH / DEBRIS STOCKPILE
Building Steel Laydown
Youngquist Laydown Area
Burrowing Owl Mitigation Area

Mass Excavation Comparison

Mobilized – September 2023
Broke Ground – October 2023

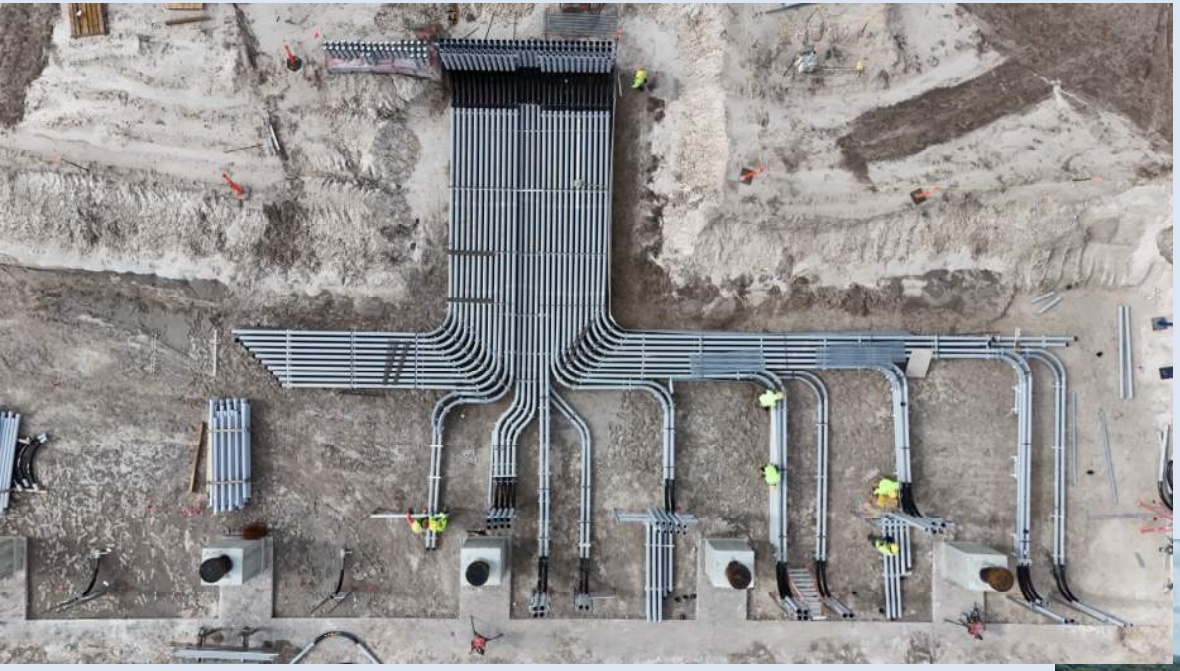
Excavated – 97,000CY of 110,000CY
Backfilled – 85,000CY of 167,000CY

Increasing site elevation by 7’

Underground Pipe Progress

Underground Pipe Installed
27,000 of 37,000 Linear Feet

Underground Electrical Conduit Progress



Underground Electrical Conduit
105,000 of 138,000 Linear Feet installed

Injection Wells

Current Depth of West Injection well-
3000 of 3500 Linear feet

Current Depth of Monitoring well-
1500 of 1800 Linear feet

Upcoming Onsite Activities

- Complete underground and backfill phase-
  - October 2024
- Complete Major equipment Foundations
  - November 2024
- Begin to receive Plant equipment
  - September 2024- Stripping towers

Permitting Update

- Permitting process with the City is progressing smoothly
- Critical Infrastructure Agreement between City and County Approved
- FDEP permit to construct issued April 2024

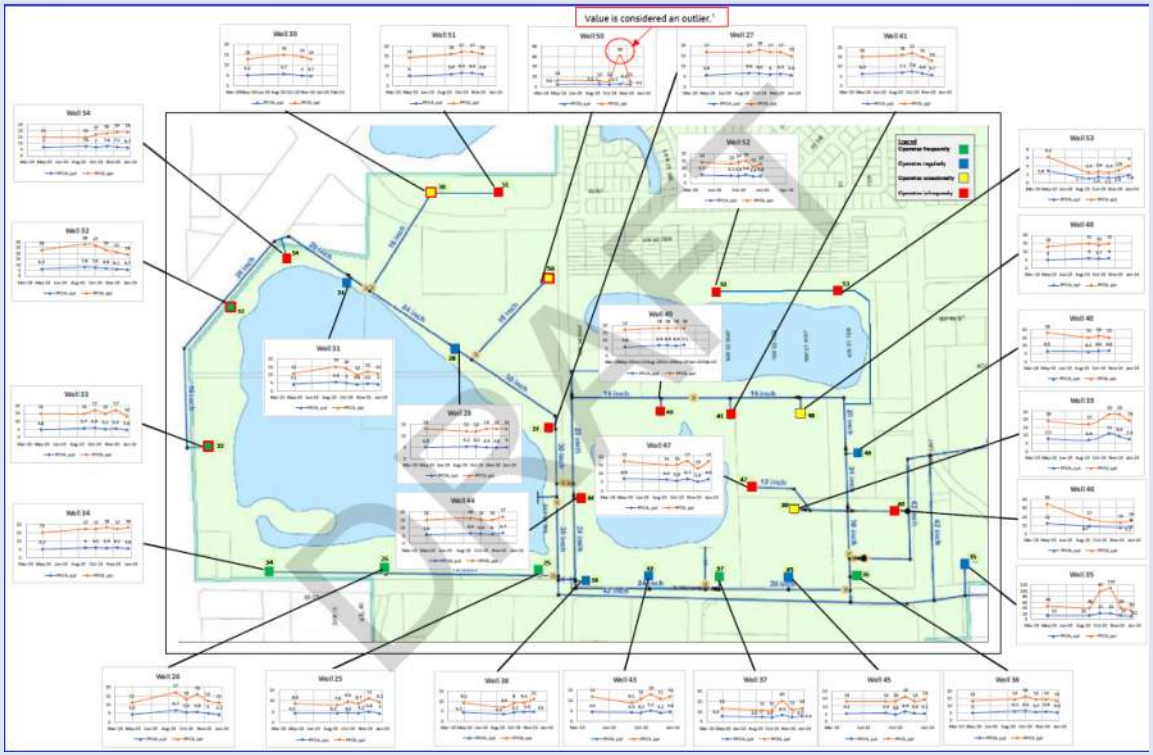
Optimal Corrosion Control Treatment

- January 2021 – Lead and Copper Rule Revision (LCRR)
  - Requires water systems to conduct an optimum corrosion control treatment (OCCT) study before implementing a treatment change.
  - December 2023 Proposed Lead and Copper Rule Improvements further reinforce the need for a pipe loop study
- October 2023 – Jacobs completed a desktop OCCT study
  - Reviewed existing distribution system water quality and pipe materials
  - Recommend a pipe loop study to confirm treatment chemicals and different treatment blending limits
- Pipe loop tests include:
  - Six loops each using 3 pipe materials to simulate the impact on distribution system water quality of different blends of nanofiltration, ion exchange and corrosion inhibitor chemical treatment
  - Pilot will operate for 52 weeks to meet EPA / FDEP requirements and will cost $5.8M

PFAS Update

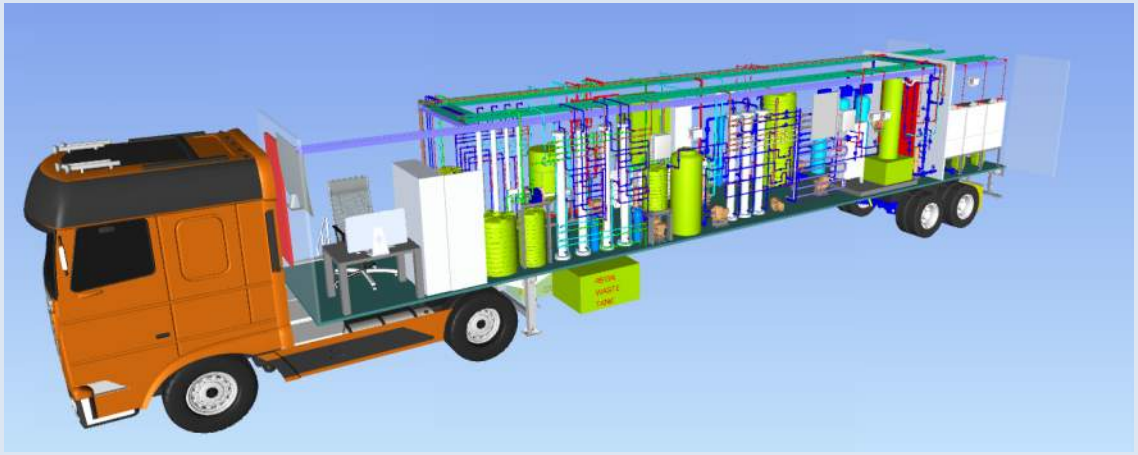
- PFAS Background (Ref: *EPA Proposed PFAS National Drinking Water Regulations FAQs)*
  - Per- and Polyfluoroalkyl Substances (PFAS) are manufactured chemicals used in industry and consumer products (e.g., nonstick cookware, waterproof clothing, firefighting foam) since the 1940s
  - The Environmental Protection Agency (EPA) set a Maximum Contaminant Level (MCL) of 4 parts per trillion (PPT)

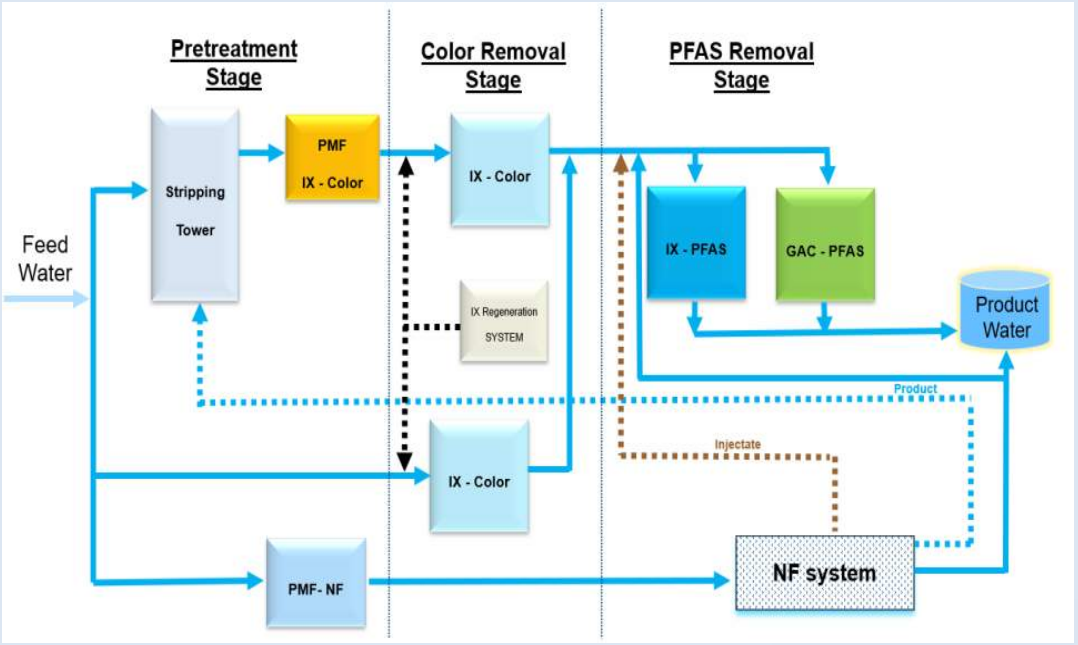
- Project Considerations and Activities To Date
  - City directed Project Company to test for PFAS in the well field during the summer of 2023
    - Average PFAS levels were approximately 18 PPT
  - A Preliminary Engineering Report was submitted to the City in October of 2023; given the uncertainty around the final MCL and the related costs for treatment at that time, the City directed Project Company to move forward with a Pilot Study
  - The City and their owner's representative (Hazen & Sawyer) has worked with Project Company to develop the scope of work to conduct the Pilot Study



PFAS Pilot

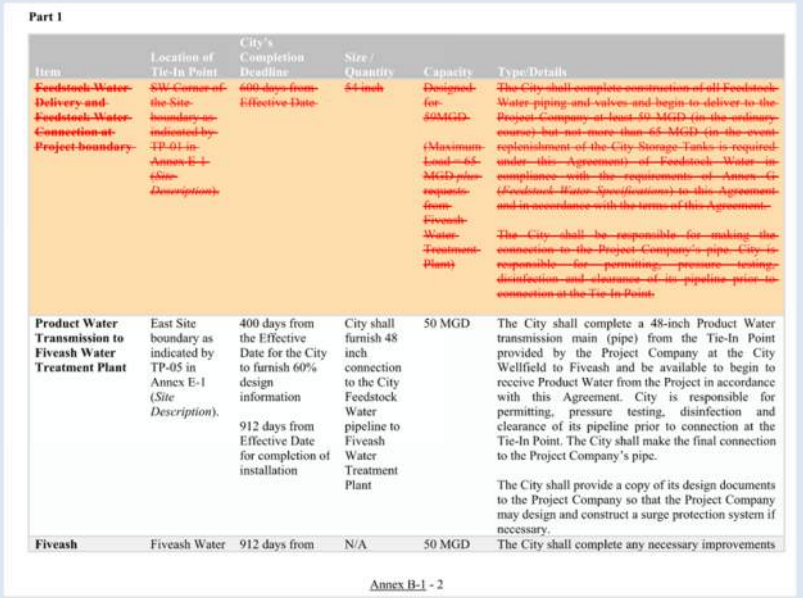
- The regulation change requires full compliance by April 2029
- Pilot objective is to validate that the new plant can remove PFAS or determine if additional treatment is required
- The pilot simulates all relevant treatment processes designed for Prospect Lake and will evaluate alternative technologies for PFAS removal (e.g., GAC, IX Resins)
- Piloting is an essential stage to ensure compliance before any full-scale implementation of a solution is implemented
- The Pilot Study will take approximately 9 months to complete and will cost $4.7M





Upcoming Change Orders

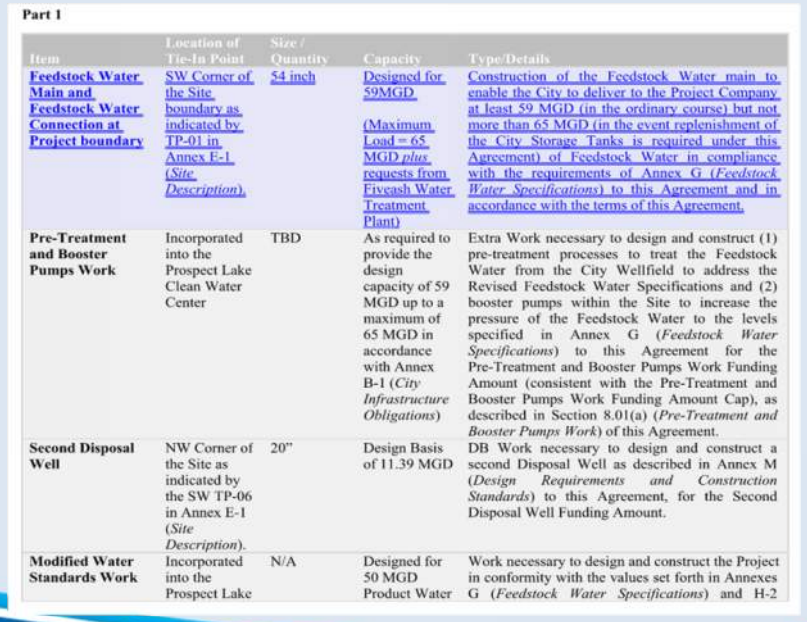
- First Amendment to the Comprehensive Agreement / Change Order #4 - Transfer of 54-inch Feedstock Watermain from Annex B-1 City Infrastructure Obligations to Annex to B-2 City Enabling Works, $3,275,339
- Change Order #5 - Optimal Corrosion Control Pipe Loop Test, $5,790,004
- Change Order #6 – PFAS Pilot Testing, $4,720,061



Part 1

Item	Location of Tie-In Point	City's Completion Deadline	Size / Quantity	Capacity	Type/Details
~~Feedstock Water Delivery and Feedstock Water Connection at Project boundary~~	~~SW Corner of the Site boundary as indicated by TP-01 in Annex E-1 (Site Description).~~	~~600 days from Effective Date~~	~~54 inch~~	~~Designed for 59MGD (Maximum Load = 65 MGD plus requests from Fiveash Water Treatment Plant)~~	~~The City shall complete construction of all Feedstock Water piping and valves and begin to deliver to the Project Company at least 59 MGD (in the ordinary course) but not more than 65 MGD (in the event replenishment of the City Storage Tanks is required under this Agreement) of Feedstock Water in compliance with the requirements of Annex G (Feedstock Water Specifications) to this Agreement and in accordance with the terms of this Agreement.~~ ~~The City shall be responsible for making the connection to the Project Company's pipe. City is responsible for permitting, pressure testing, disinfection and clearance of its pipeline prior to connection at the Tie-In Point.~~
Product Water Transmission to Fiveash Water Treatment Plant	East Site boundary as indicated by TP-05 in Annex E-1 (*Site Description*).	400 days from the Effective Date for the City to furnish 60% design information 912 days from Effective Date for completion of installation	City shall furnish 48 inch connection to the City Feedstock Water pipeline to Fiveash Water Treatment Plant	50 MGD	The City shall complete a 48-inch Product Water transmission main (pipe) from the Tie-In Point provided by the Project Company at the City Wellfield to Fiveash and be available to begin to receive Product Water from the Project in accordance with this Agreement. City is responsible for permitting, pressure testing, disinfection and clearance of its pipeline prior to connection at the Tie-In Point. The City shall make the final connection to the Project Company's pipe. The City shall provide a copy of its design documents to the Project Company so that the Project Company may design and construct a surge protection system if necessary.
Fiveash	Fiveash Water	912 days from	N/A	50 MGD	The City shall complete any necessary improvements

Annex B-1 - 2



Part 1

Item	Location of Tie-In Point	Size / Quantity	Capacity	Type/Details
Feedstock Water Main and Feedstock Water Connection at Project boundary	SW Corner of the Site boundary as indicated by TP-01 in Annex E-1 (*Site Description*).	54 inch	Designed for 59MGD (Maximum Load = 65 MGD *plus* requests from Fiveash Water Treatment Plant)	Construction of the Feedstock Water main to enable the City to deliver to the Project Company at least 59 MGD (in the ordinary course) but not more than 65 MGD (in the event replenishment of the City Storage Tanks is required under this Agreement) of Feedstock Water in compliance with the requirements of Annex G (*Feedstock Water Specifications*) to this Agreement and in accordance with the terms of this Agreement.
Pre-Treatment and Booster Pumps Work	Incorporated into the Prospect Lake Clean Water Center	TBD	As required to provide the design capacity of 59 MGD up to a maximum of 65 MGD in accordance with Annex B-1 (*City Infrastructure Obligations*)	Extra Work necessary to design and construct (1) pre-treatment processes to treat the Feedstock Water from the City Wellfield to address the Revised Feedstock Water Specifications and (2) booster pumps within the Site to increase the pressure of the Feedstock Water to the levels specified in Annex G (*Feedstock Water Specifications*) to this Agreement for the Pre-Treatment and Booster Pumps Work Funding Amount (consistent with the Pre-Treatment and Booster Pumps Work Funding Amount Cap), as described in Section 8.01(a) (*Pre-Treatment and Booster Pumps Work*) of this Agreement.
Second Disposal Well	NW Corner of the Site as indicated by the SW TP-06 in Annex E-1 (*Site Description*).	20"	Design Basis of 11.39 MGD	DB Work necessary to design and construct a second Disposal Well as described in Annex M (*Design Requirements and Construction Standards*) to this Agreement, for the Second Disposal Well Funding Amount.
Modified Water Standards Work	Incorporated into the Prospect Lake	N/A	Designed for 50 MGD Product Water	Work necessary to design and construct the Project in conformity with the values set forth in Annexes G (*Feedstock Water Specifications*) and H-2

Thank You
Questions