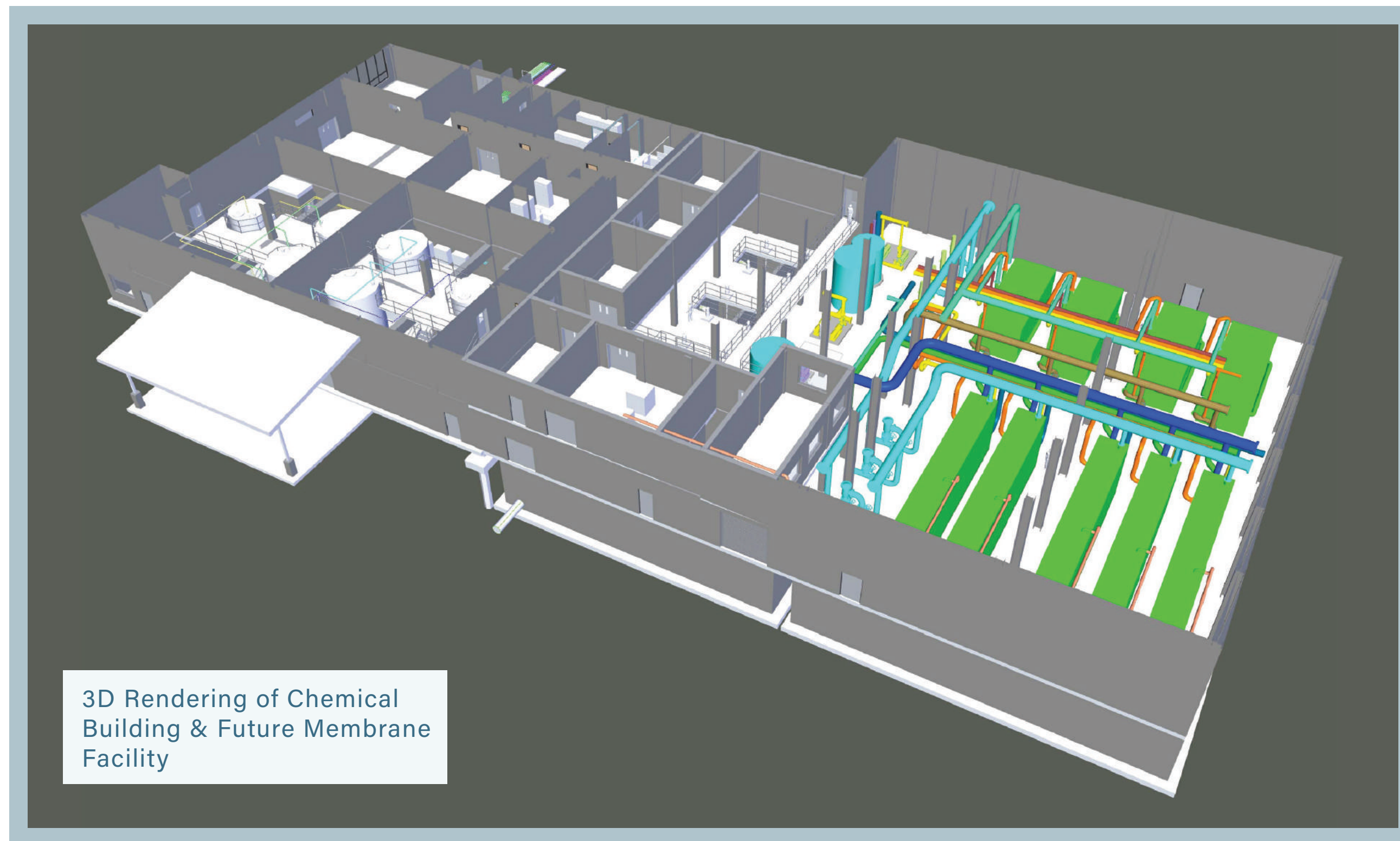


WATER TREATMENT PLANT UPGRADE

Phase 1: Chemical Storage and Dosing Building
plus Future Phases

PUBLIC OPEN HOUSE March 2019



3D Rendering of Chemical Building & Future Membrane Facility

OPEN HOUSE *FEATURES*

- Sign-in & Comments
- Background info
 - Intent of Open House
 - Why are we Upgrading the Water Treatment Plant?
 - Design Objectives
 - Design Numbers
 - Project Phases & Timelines
- Chemical Building
 - Visual Renderings of Proposed Construction
- 3D Model Animation



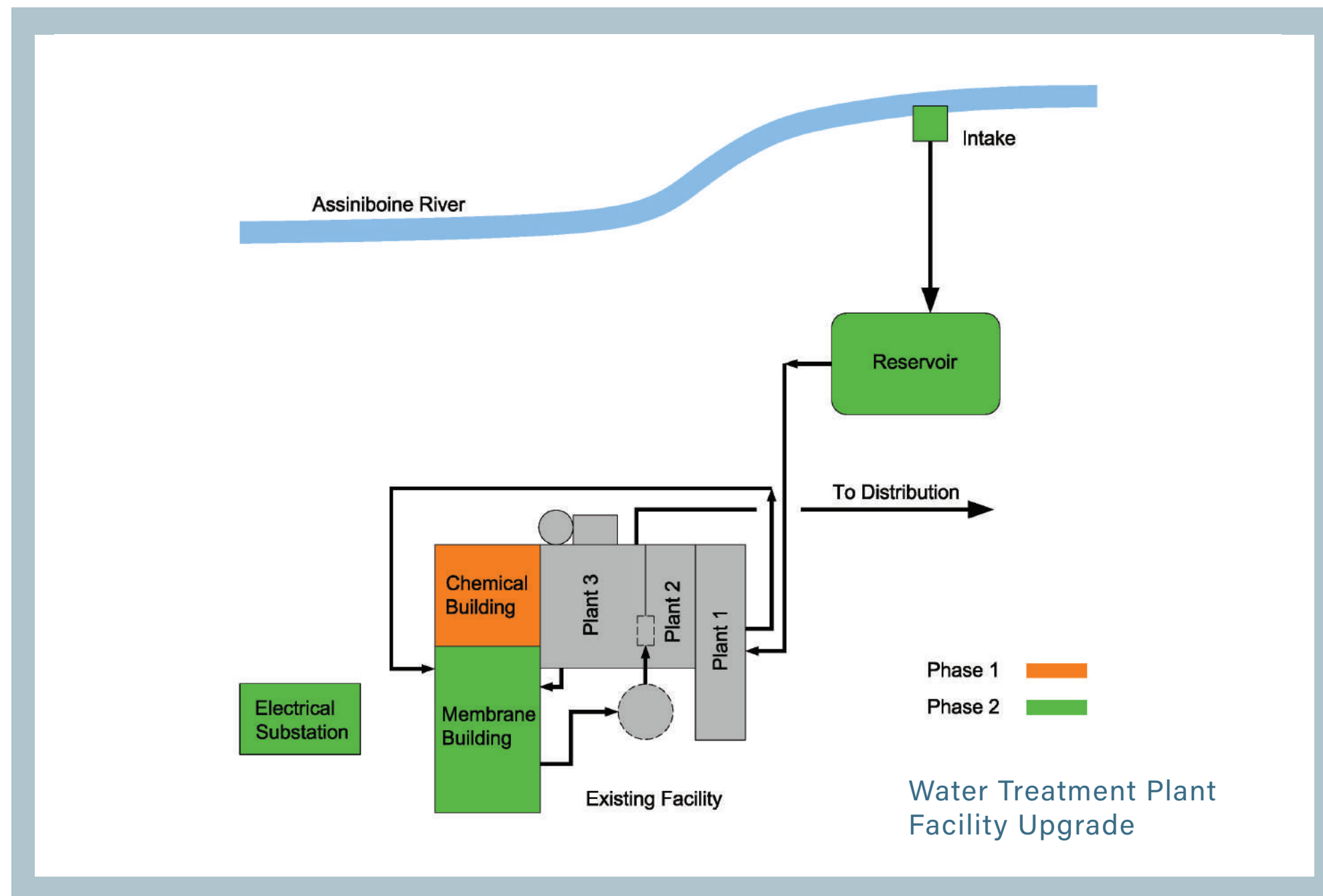
THE INTENT OF TODAY'S OPEN HOUSE IS:

1 To inform you about the progress of the Water Treatment Plant Upgrade project

2 To illustrate upcoming Phase 1 of construction: Chemical Storage and Dosing Building

3 To offer you the opportunity to provide comments and ask questions of the project team

Look for someone from the City of Brandon or Consultant team wearing nametags to help you out

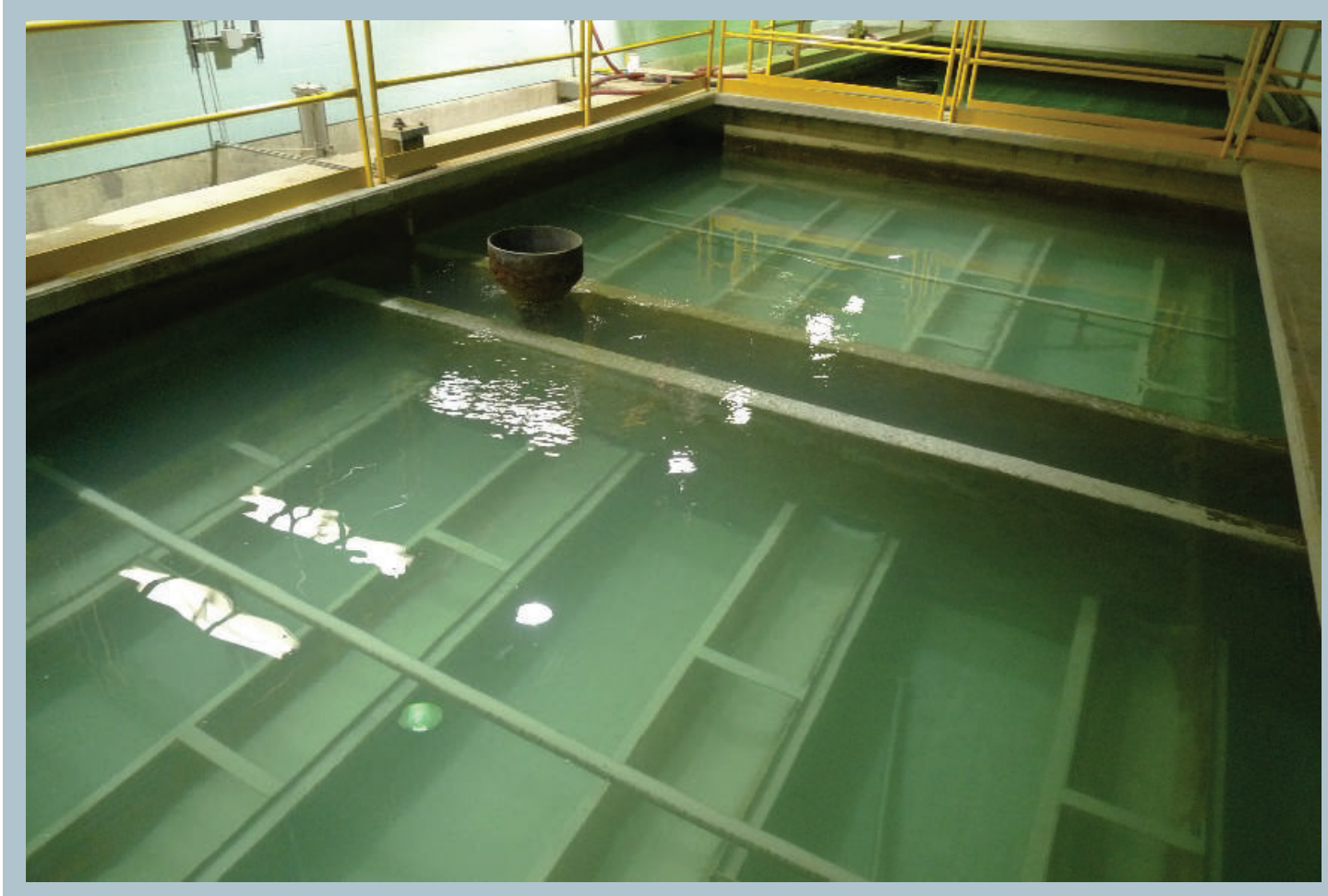


WHY DO WE NEED TO UPGRADE *THE WATER TREATMENT PLANT?*



- Stricter water quality regulations
- Treatment capacity for growing population
- Age of existing equipment
- Improve public safety and operational health and safety

DESIGN OBJECTIVES



- Centralize chemical storage and dosing
- Replace disinfection method: gaseous chlorine to liquid sodium hypochlorite
- Allow for corrosion control mitigation
- Manage disinfection by-products in the distribution system
- Increase treatment capacity for future water demand
- Modernize existing treatment facility
- Flood protection for site, including river intake

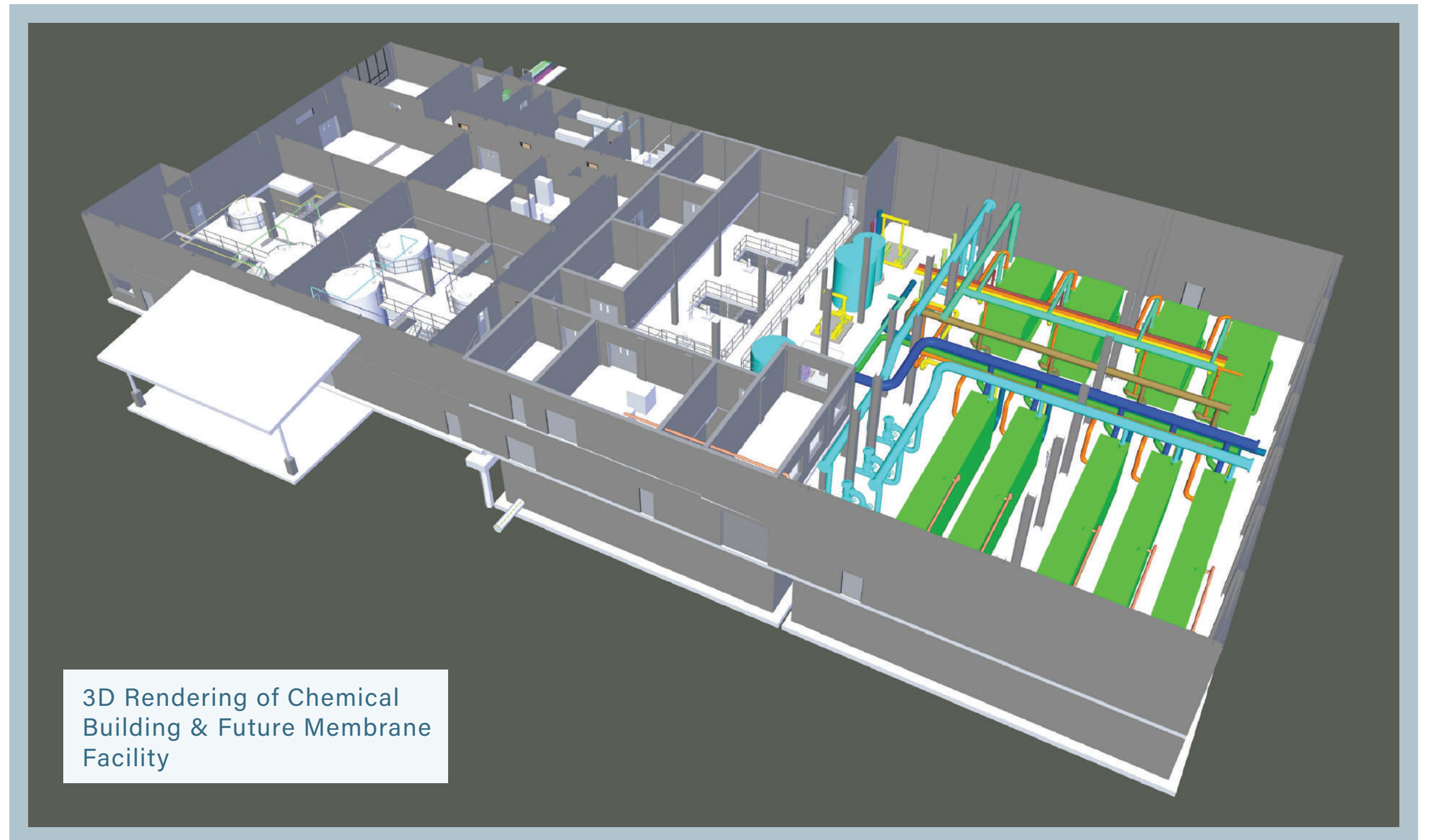
DESIGN NUMBERS

Design Horizon Year: 2048

POPULATION

2016 Census: 48,459

2048 Projection: 60,503



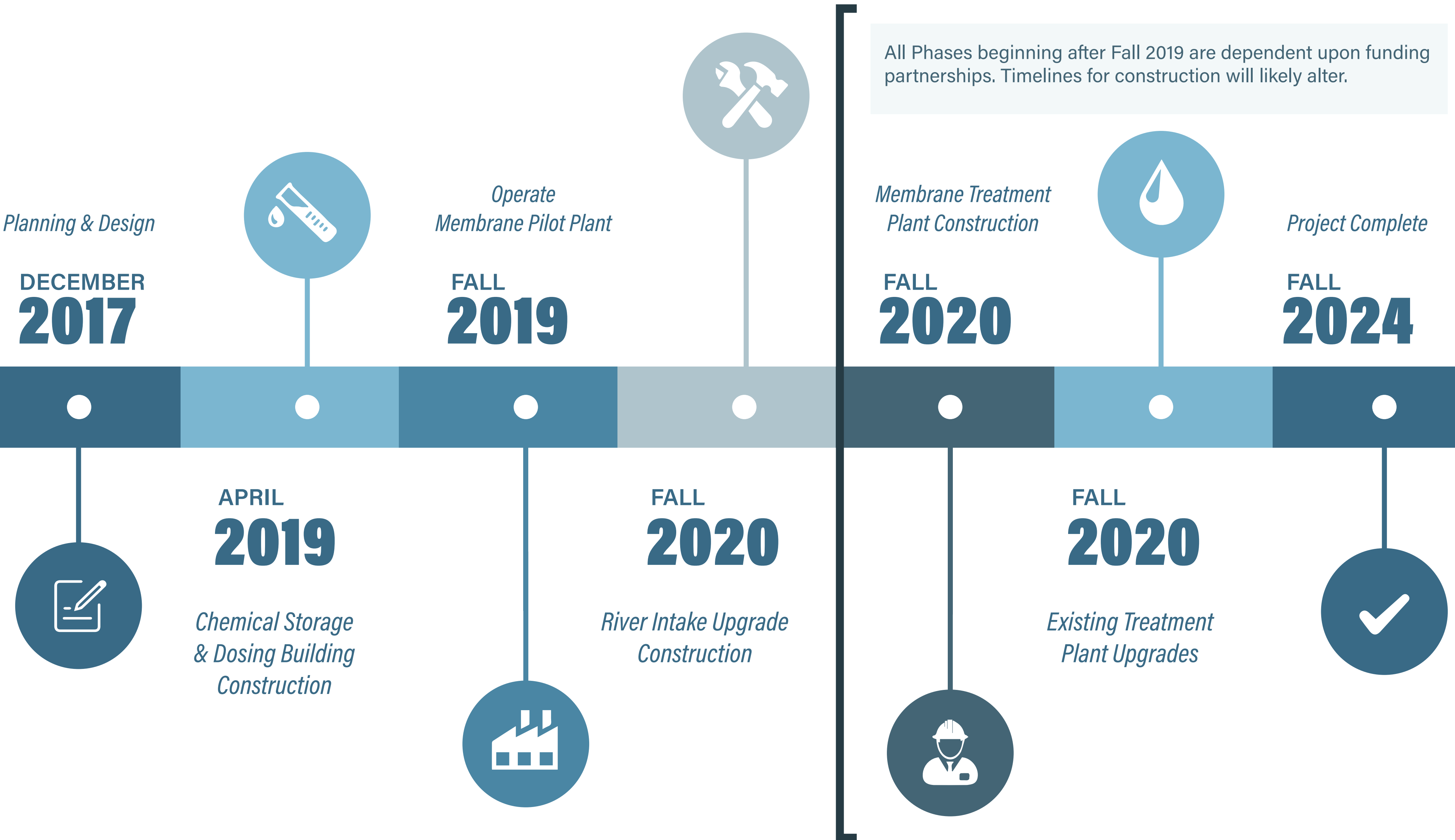
AVERAGE WATER DEMAND BY THE ENTIRE CITY

2016: 22,060,000 litres per day

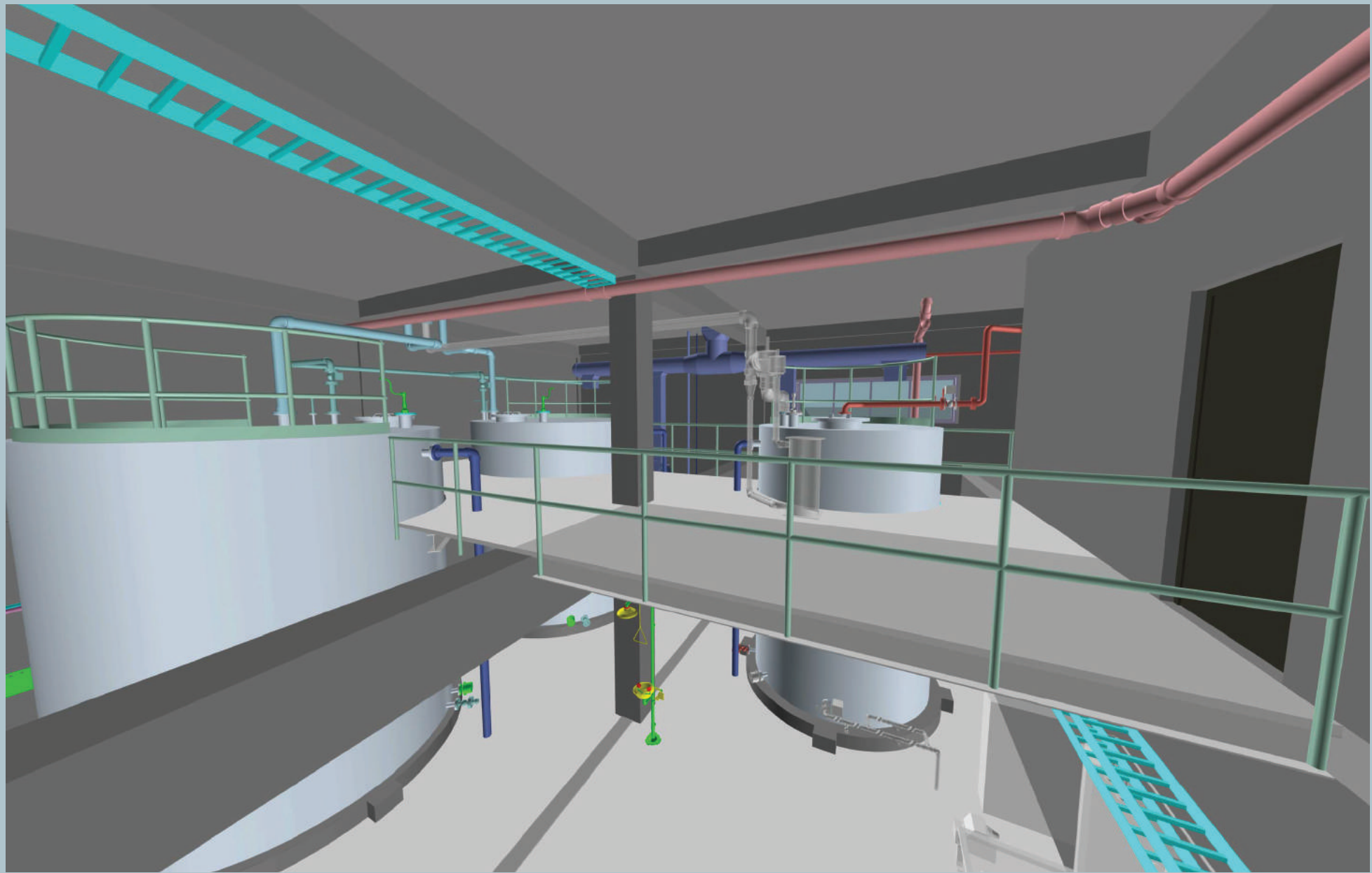
*2048 Projection: 29,540,000 litres per day**

**Corresponds to 23.7 times the volume of the Sportsplex swimming pool every day*

PROJECT PHASES & TIMELINES

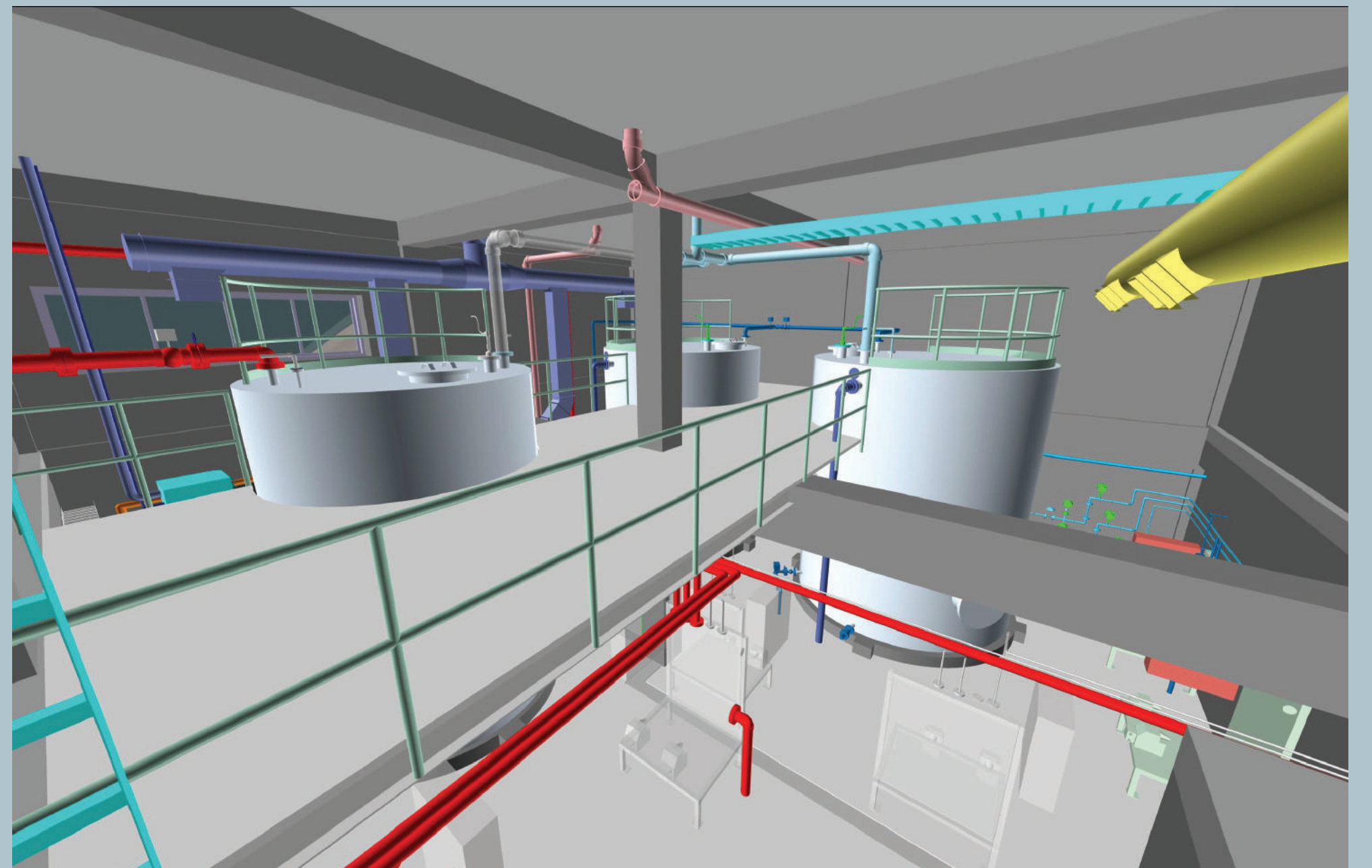


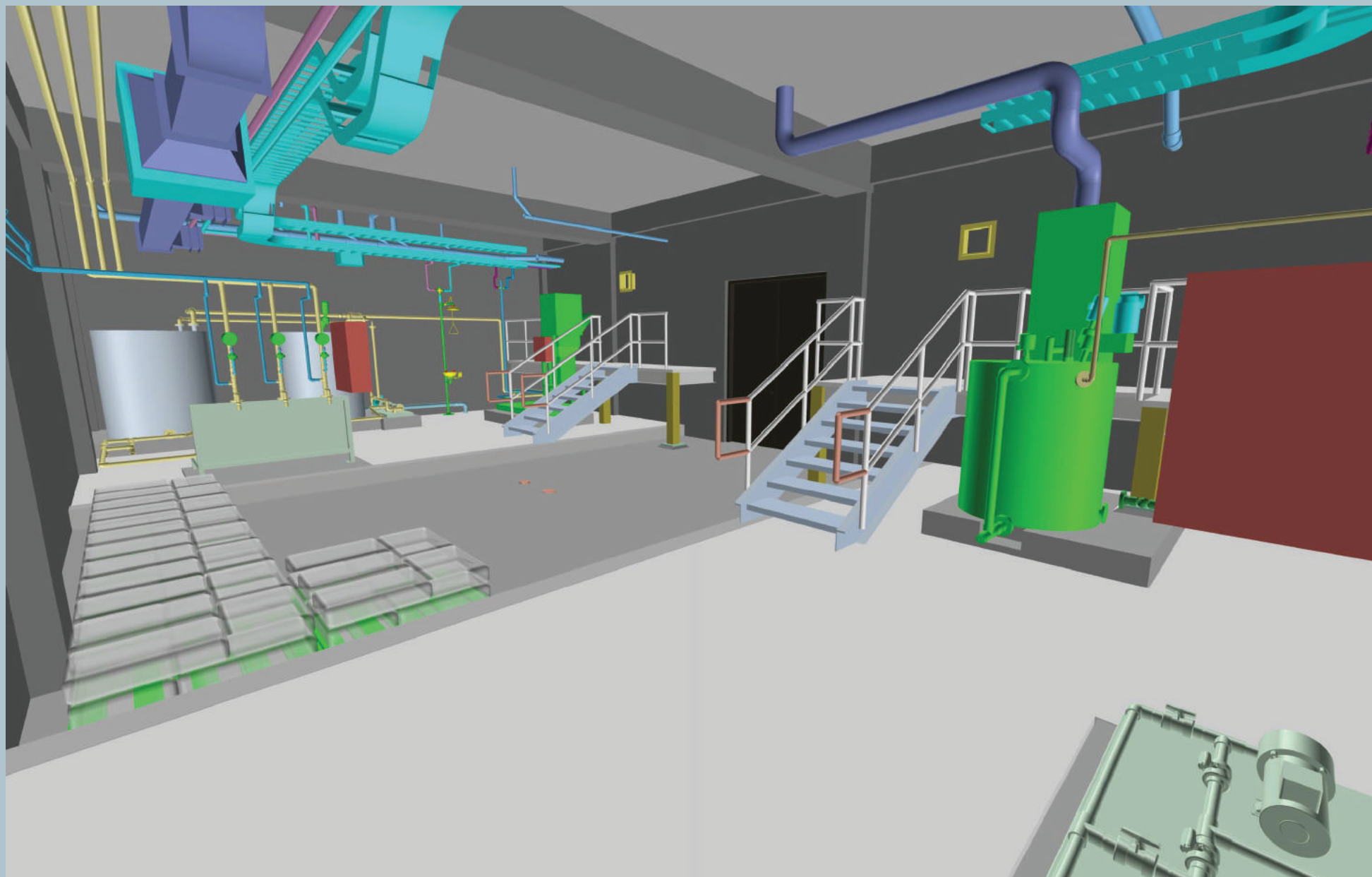
Construction of the Chemical Storage & Dosing Building will require that the City borrow \$16 million.



New Chemical Building
Bulk Chemical Storage

New Chemical Building
Bulk Chemical Storage

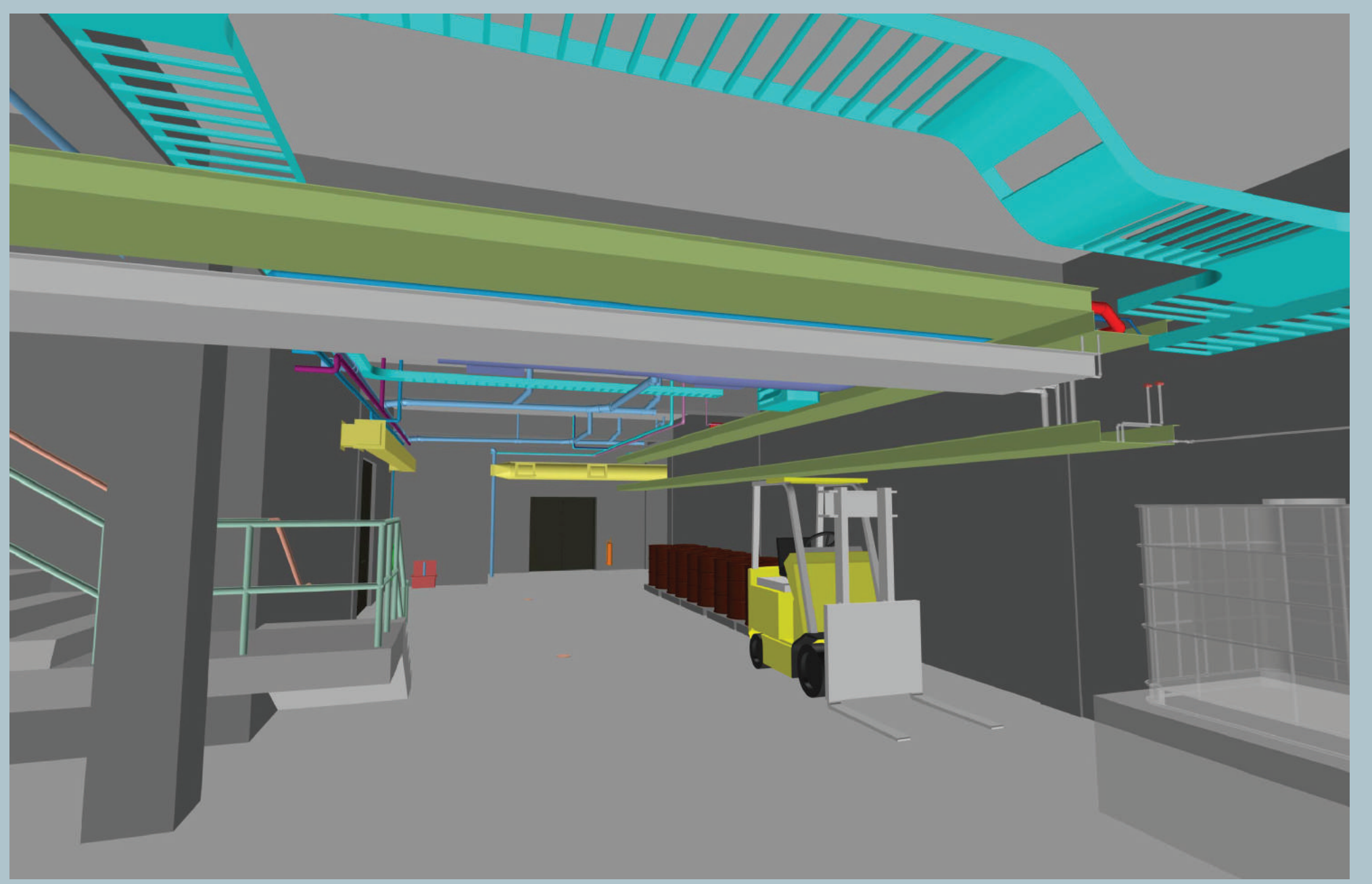




New Chemical Building
Dry Chemical Storage



New Chemical Building
Chemical Storage Area





New Chemical Building
North Elevation



New Chemical Building
West Elevation

