



Project rendering

North Shore Wastewater Treatment Plant Program

PROGRAM UPDATE

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Commissioner / Chief Administrative Officer

Jody Deane

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April 10, 2025 Presentation to District of West Vancouver Council

74764065

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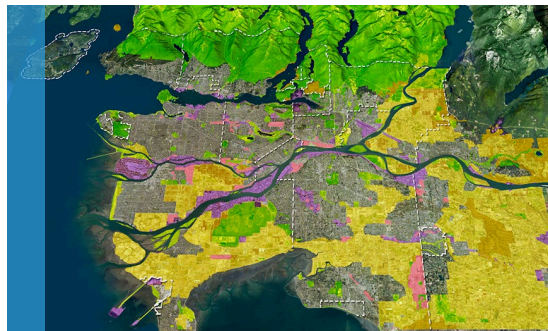
MISSION

A federation that collaboratively plans for and delivers regional-scale services



Deliver Core Services

Attain the highest possible levels of excellence in meeting our service delivery responsibilities.



Plan for the Future

Develop and use an integrated system of plans to manage all activities within Metro Vancouver's legislated scope of authority towards the achievement of a sustainable region.



Act as a Regional Forum

Build and facilitate collaborative processes, including those that engage citizens, to achieve a robust partnership that works together for a sustainable region.

Metro Vancouver Wastewater Treatment System



Part 1: Program Overview

NSWWTP Conceptual Rendering



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WHY ARE WE BUILDING A NEW TREATMENT PLANT?

- Meet Federal Regulation (2012)
- Protect the sensitive marine habitats of the Burrard Inlet and Salish Sea
- Replace the aging Lions Gate plant (1961)
- Return land to Province and Squamish Nation



Coho Salmon Fry



Orca

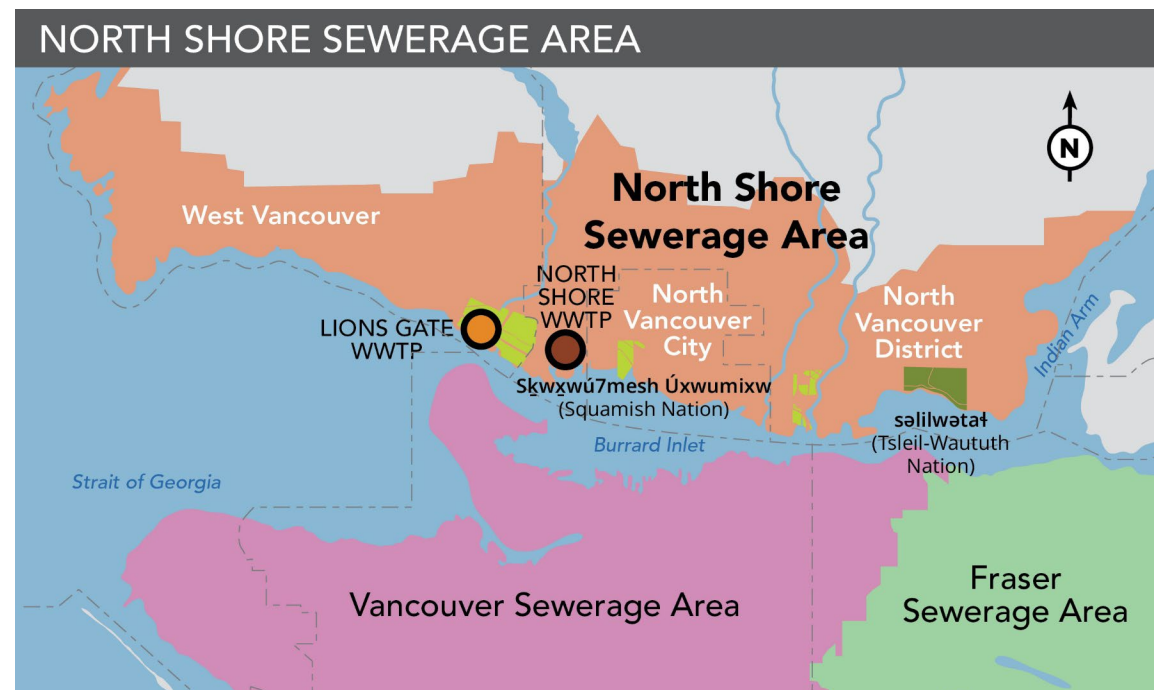
NSWWTP PROGRAM OVERVIEW



BUILDING FOR A GROWING POPULATION

Designed to serve over 300,000 residents

- District of North Vancouver
- District of West Vancouver
- City of North Vancouver
- Skwxwú7mesh Úxwumixw (Squamish Nation)
- səlilwətał (Tsleil-Waututh Nation)



FACILITY HIGHLIGHTS

- Tertiary filtration
- Accommodating growth
- Resource recovery and sustainability features
- Modern design and odour control
- Community amenities



SITE LOCATION



NSWWTP Site aerial, April 2023

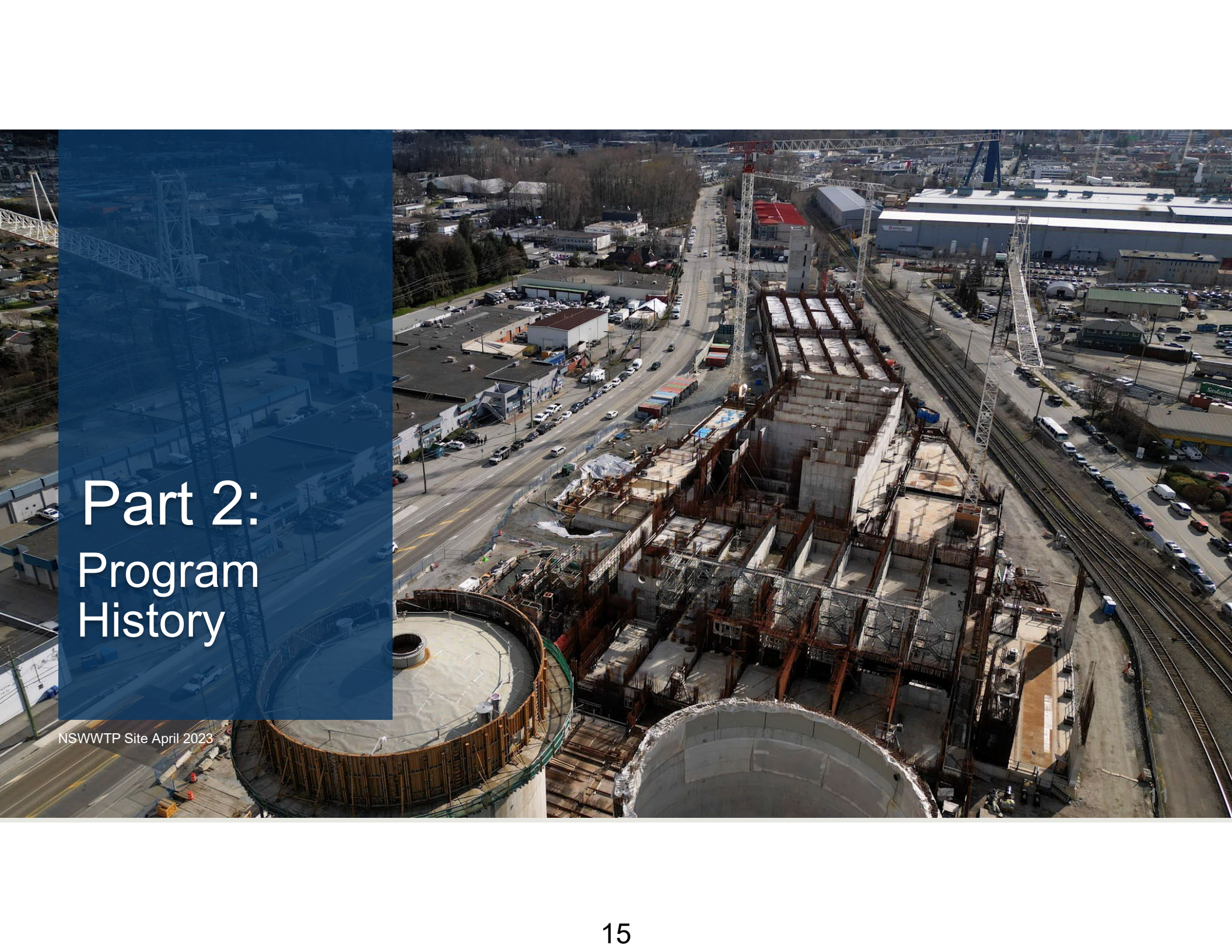
STACKED DESIGN FOR EFFICIENT USE OF SPACE



Annacis Island WWTP: ~50 hectares



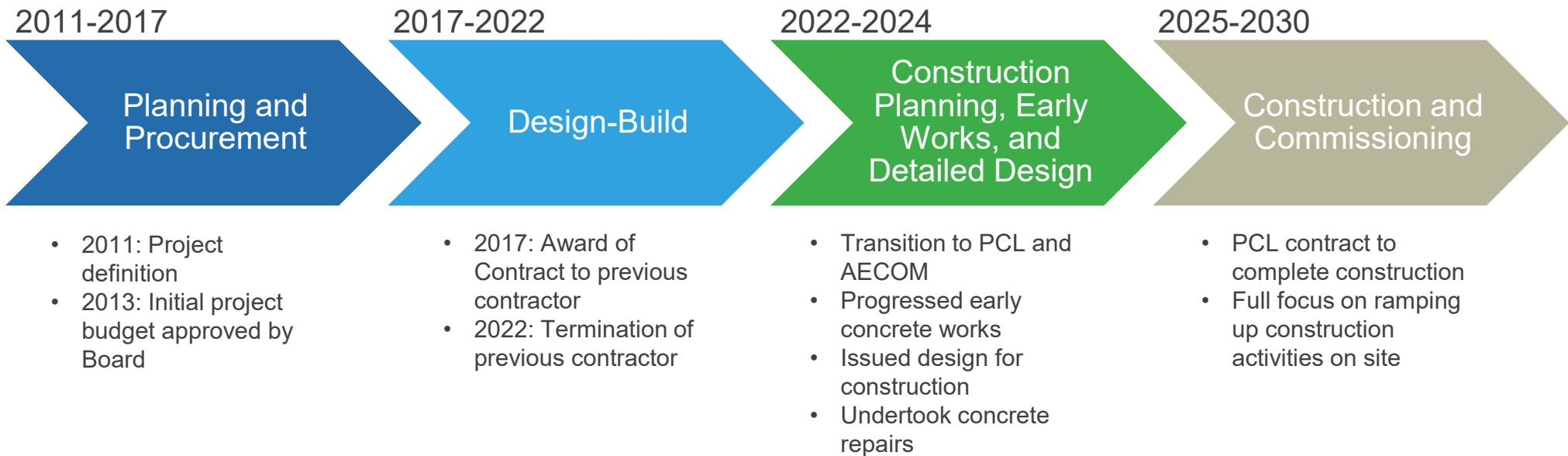
North Shore WWTP: 3.5 hectares



Part 2: Program History

NSWWTP Site April 2023

PROJECT TIMELINE

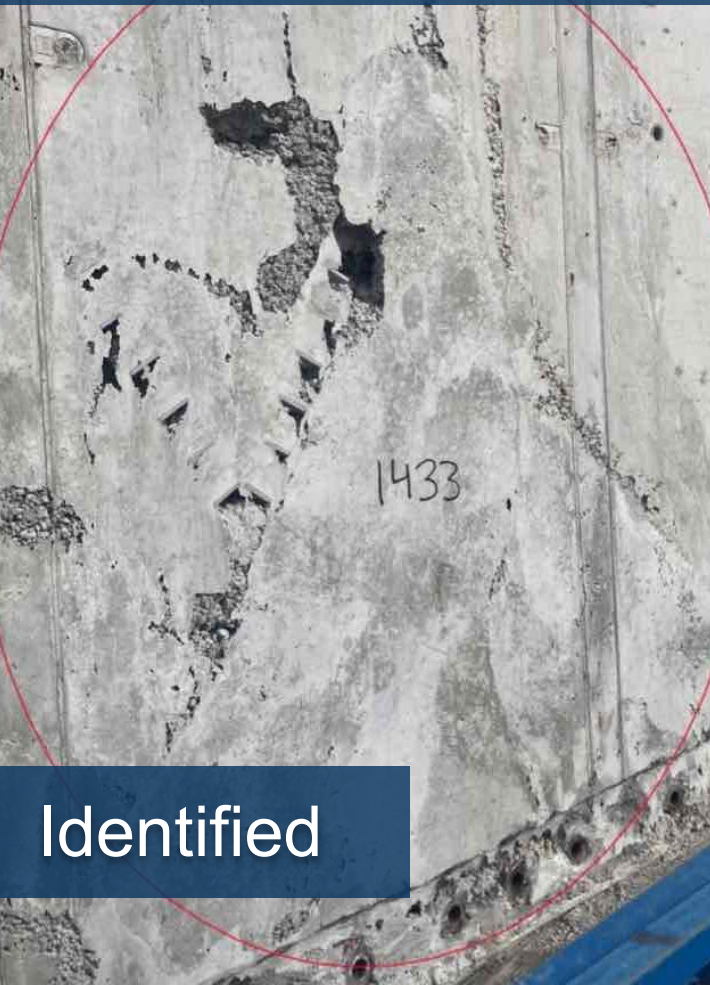


ACTIVITIES SINCE 2022 TRANSITION

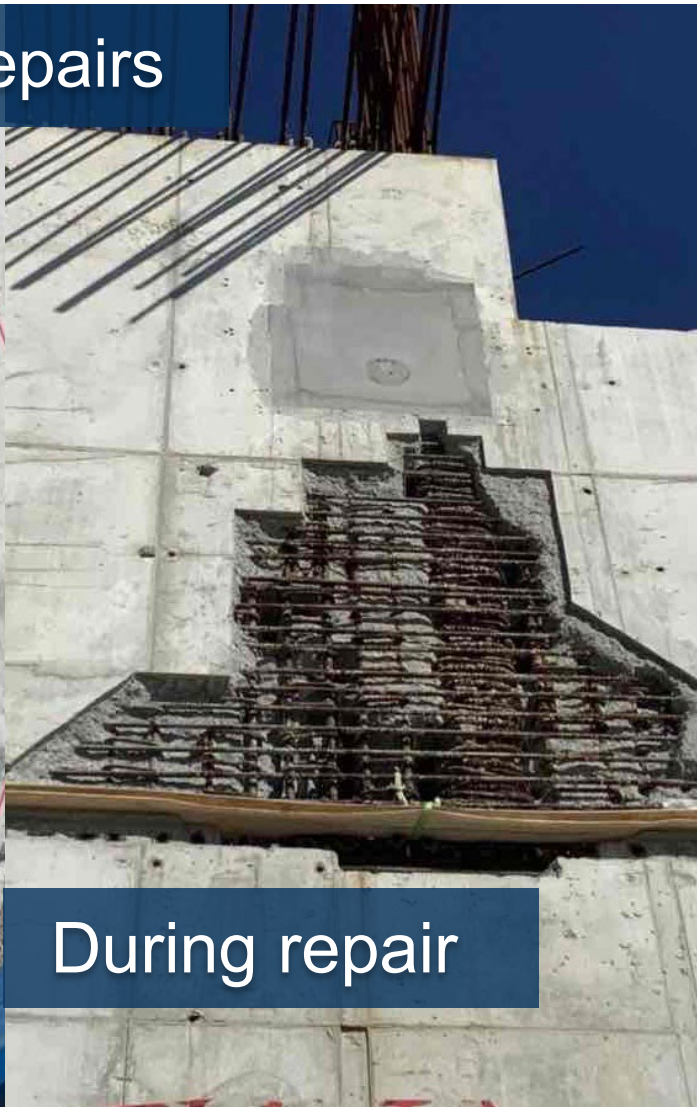
- Undertook a due diligence review of previous design and construction
- Takeover of design
- Transfer of construction and site responsibility
- Undertook concrete repairs and other concrete work (Early Works)



Over 1,500 concrete repairs



Identified



During repair



Repaired



Part 3: Moving Forward

NSWWTP Site November 2024

NEW CONSTRUCTION UNDERWAY

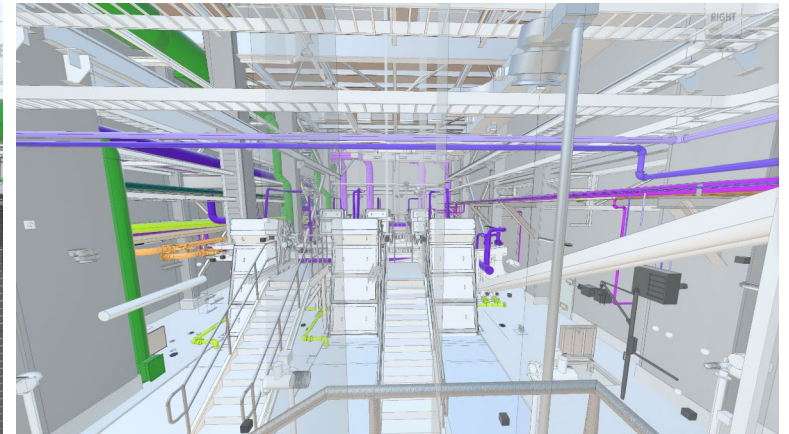
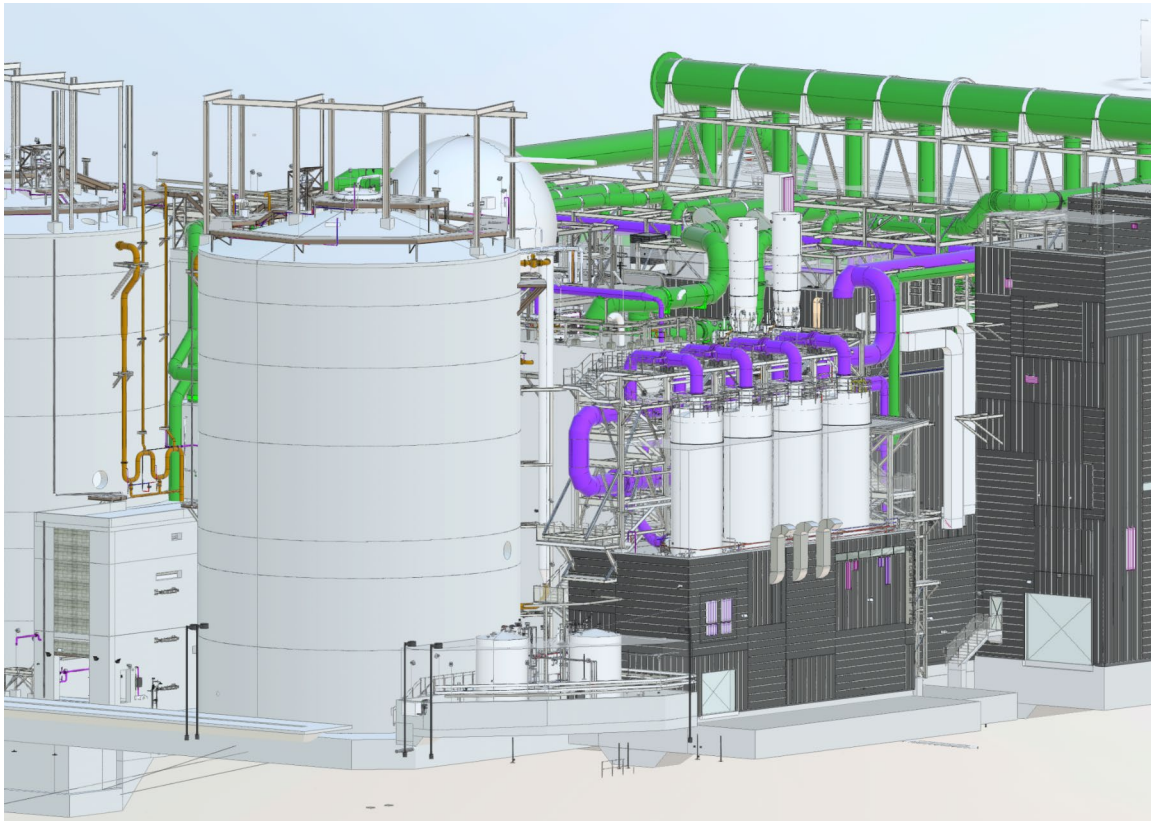


NEW CONSTRUCTION UNDERWAY

Structural Steel Installation



OPERATIONS PLANNING AND PROGRAMMING



CONSTRUCTION HIGHLIGHTS

The Completed Treatment Plant Will Include Around:

- 80,000 m³ of concrete
- 40,000 metres of piping
- 800 kilometres of electrical cabling
- 900+ pieces of wastewater treatment equipment
- 6,000+ instruments and control devices



PCL CONTRACT & PROGRAM BUDGET

- Contract for construction completion is signed
- Contract value is \$1.95B
- Contract value is within the program budget
- Schedule for completion is 2030
- Target cost contract model



PRINCIPLES OF TARGET COST CONTRACT

Transparency, Responsibility, and Incentives



Open Book Principles

- Fair and accurate financials
- Extends to partners and subcontracts



Target Cost

- Rewards efficient delivery, penalizes cost overruns
- Clear performance metrics



Clear Reporting

- Payments within 30 days
- Independent reviewer
- Independent auditor



Right to Audit

- Appointment of auditors, experts, advisors
- Extends to partners and subcontracts



Collaborative Model

- Joint resolution mechanisms
- Integrated team



Risk Allocation

- Owner's responsibility for Prior Work
- Appropriate risk transfer

ROLES AND RESPONSIBILITIES

COLLABORATION

1

Owner

- Manage overall program
- Budget and payment oversight
- Stakeholder communication
- Make key decisions
- Monitor progress

2

Construction Contractor

- Manage construction process and primary point of coordination
- Project performance / productivity
- Construction cost accounting and control
- Quality control

3

Engineer of Record

- Technical oversight
- Design
- Review and approvals
- Field support
- Quality assurance / construction conformance

LOOKING AHEAD



NSWWTP Architectural Rendering



NSWWTP Architectural Rendering

Thank you

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