



**Request for Council Action –
Additional appropriation for expenses related to the
Northeast Water Purification Plant Expansion**

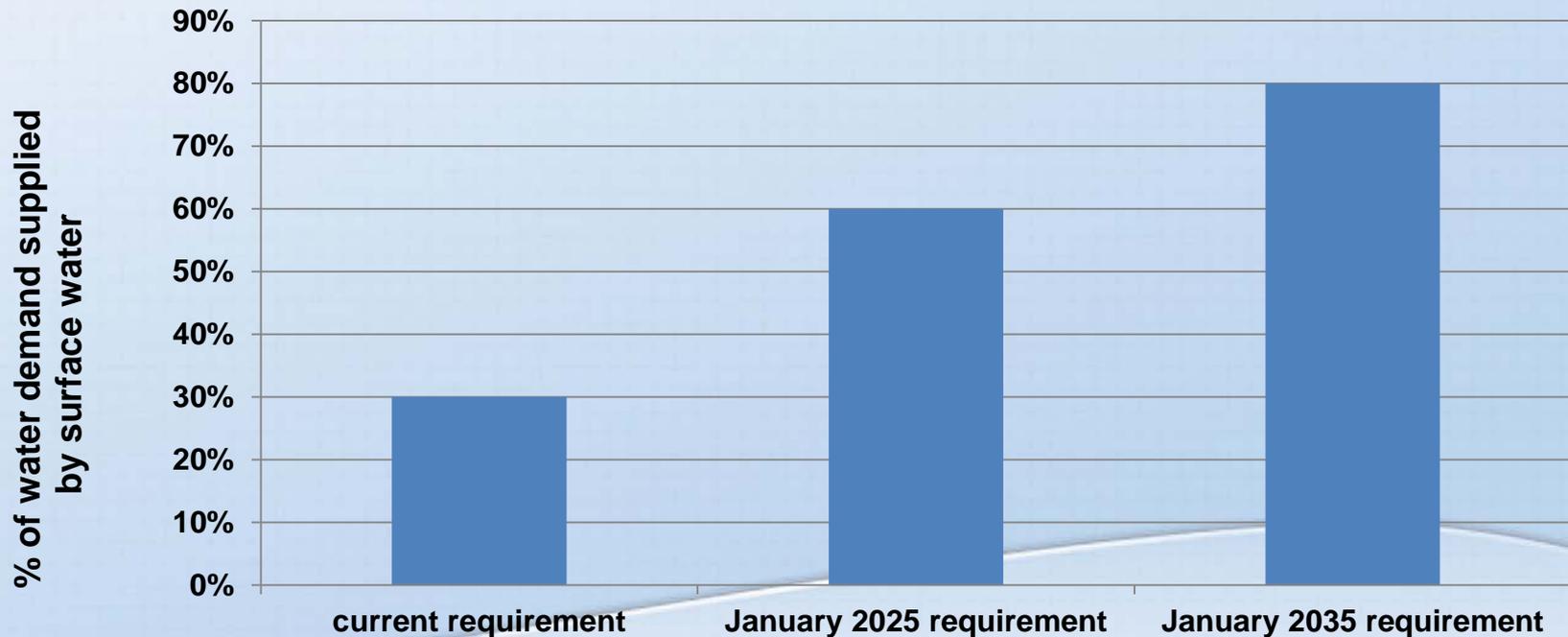
**Presentation to Council
Transportation, Technology & Infrastructure
Committee**

**Department of Public Works and Engineering
October 14, 2014**

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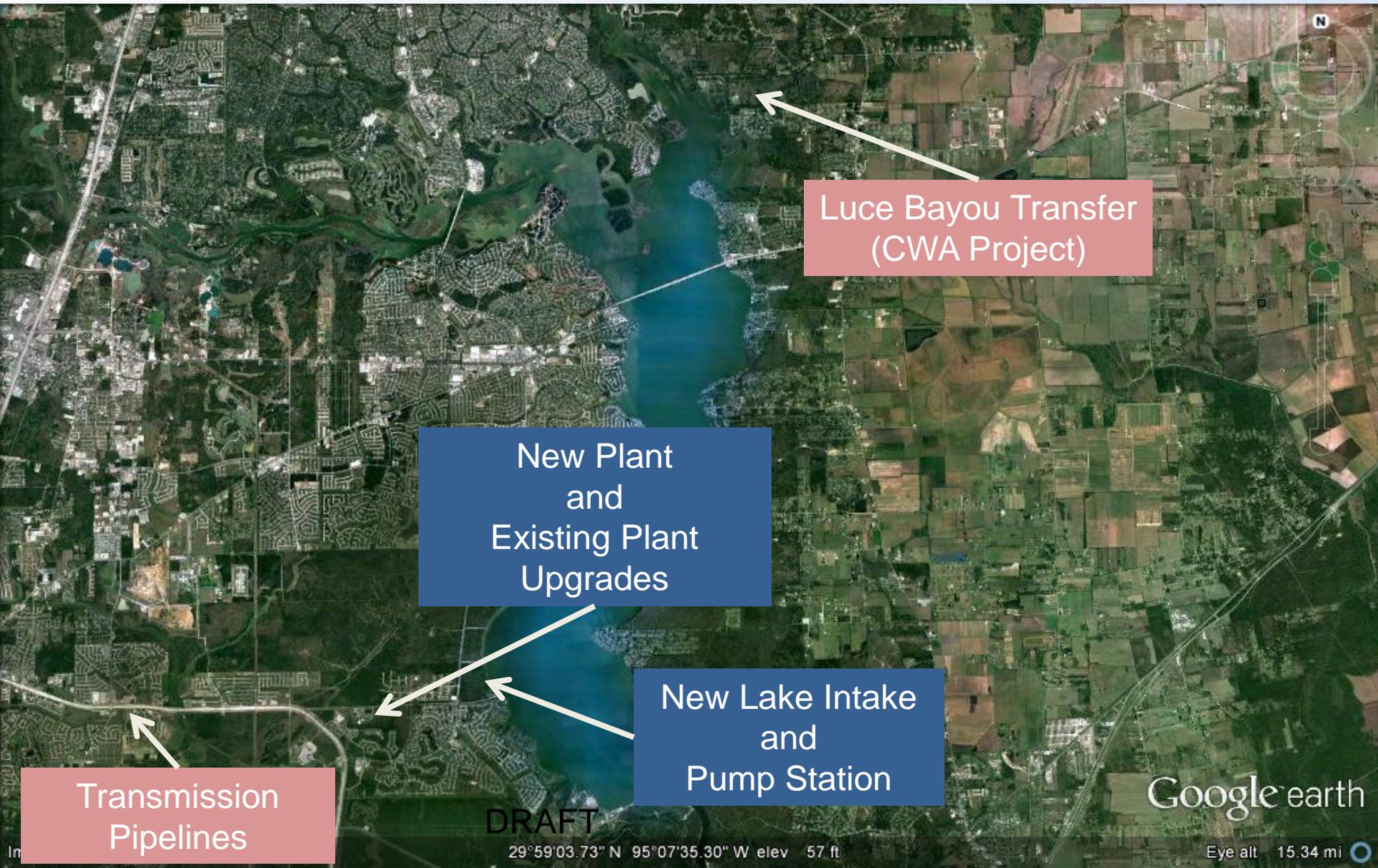
NEWPP Expansion Required To Meet Subsidence Regulations (HGSD & FBSD)

- ~75% to meet State unfunded mandate
- ~25% for demand growth



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NEWPP Expansion Is One Piece Of The Overall Regional Plan



Luce Bayou Transfer
(CWA Project)

New Plant
and
Existing Plant
Upgrades

New Lake Intake
and
Pump Station

Transmission
Pipelines

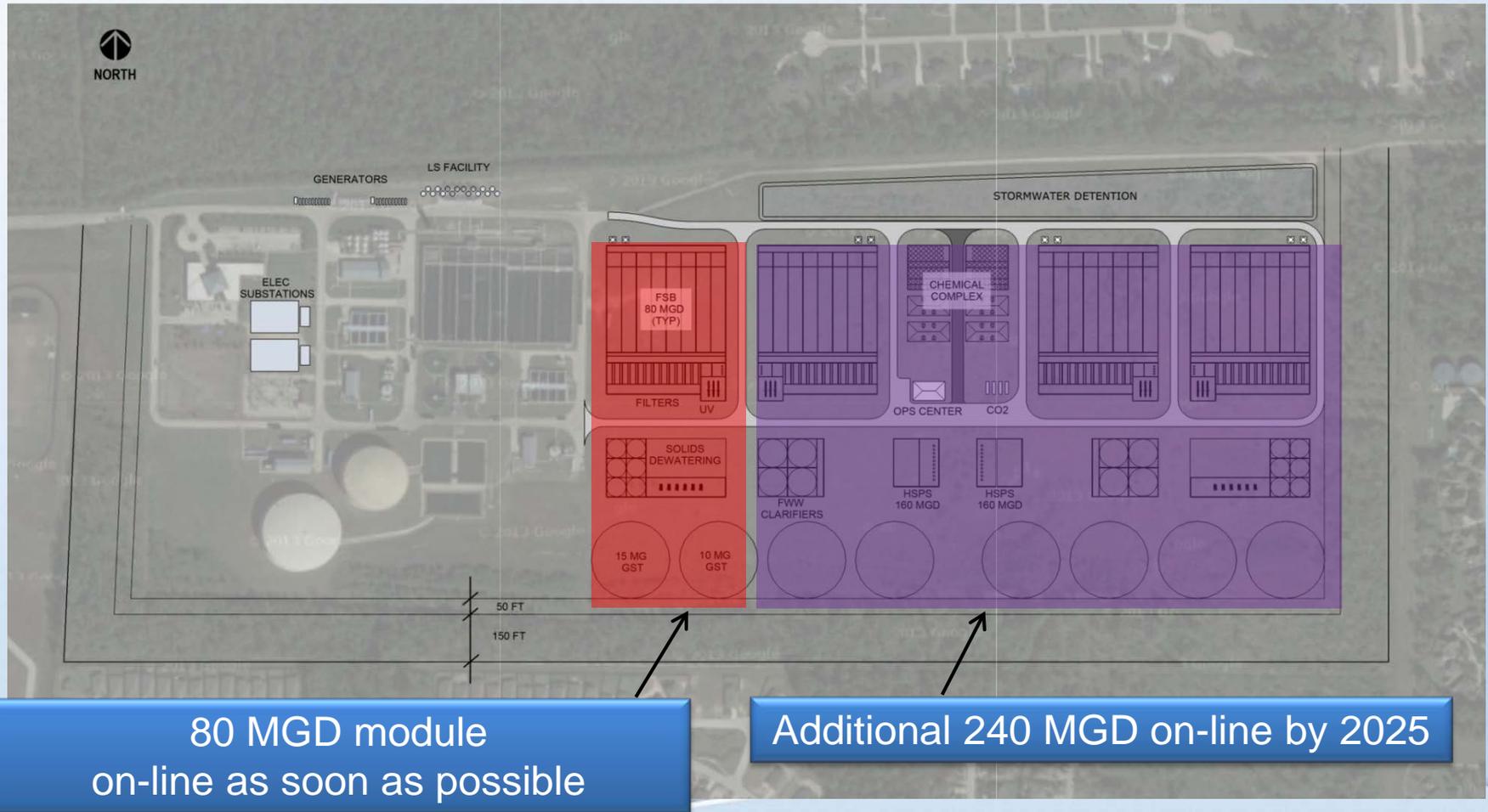
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29°59'03.73" N 95°07'35.30" W elev 57 ft

Google earth

Eye alt 15.34 mi

A Single 320 MGD Expansion With A Planned Early 80 MGD Milestone



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NEWPP Expansion Project Will Be A Collaborative Regional Effort

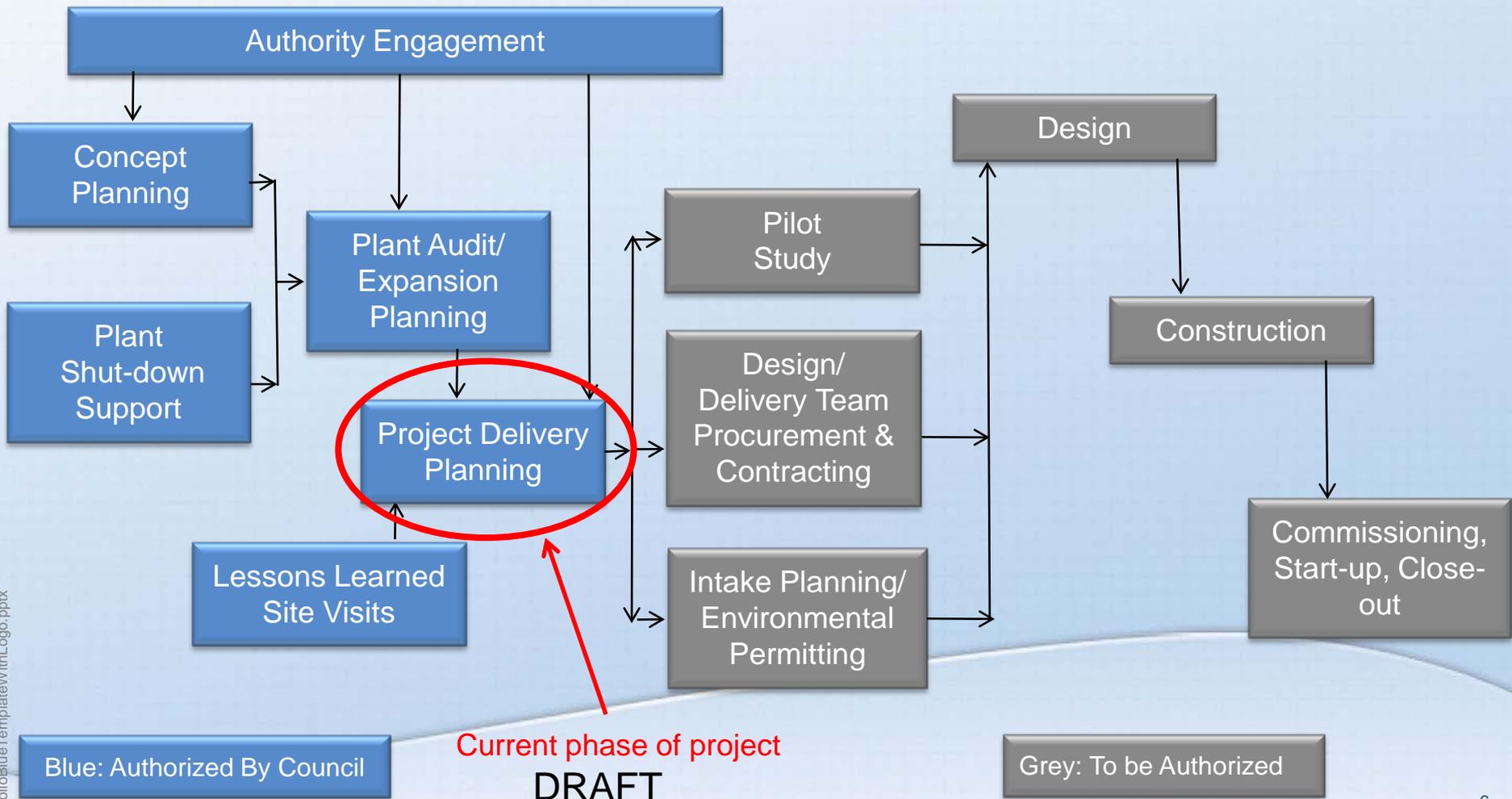
	Pro-Rata Share	
	Cost (%)	Demand Allocation (MGD)
NHCRWA	35.313	113.00
CHCRWA	1.525	4.88
NFBWA	21.406	68.50
WHCRWA	25.756	82.42
COH	16.000	51.20
Total	100.000	320.00

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Technical Advisor's Planning Tasks

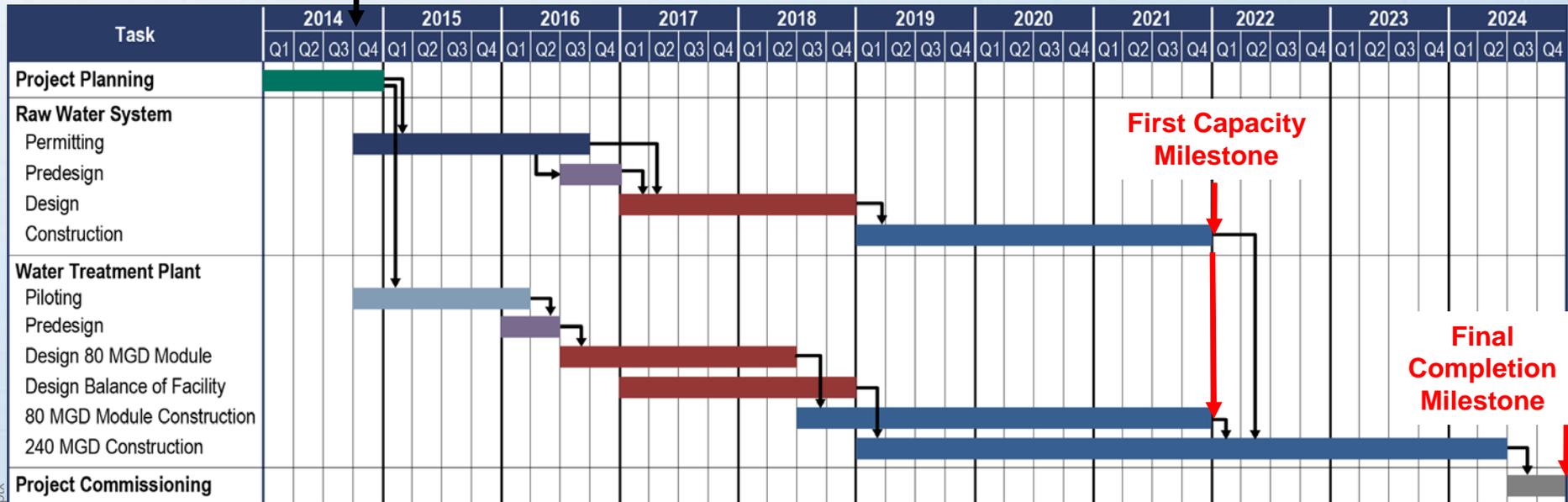
Project Planning (2012 – 2015)

Project Execution (2015 – 2025)



Permitting & piloting on critical path to achieving project milestones

Project at early stage of a very long process



*Schedule is based on alternative delivery, durations & milestones approximate and will be updated once negotiation process is complete.

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What The Additional Appropriation Will Fund

Pilot testing will establish treatment recommendations for reliable, continuous, & cost effective operation

Key Tasks

- Evaluate high-rate treatment, which can reduce footprint requirements
- Evaluate treatment enhancements
- Optimize treatment performance for reliability
- Identify potential capital & operating cost savings



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What The Additional Appropriation Will Fund

Environmental permitting is needed to obtain necessary approvals from State & Federal agencies

Key Tasks

- Finalize intake approach (deep water vs. near shore)
- Perform Section 404 permitting
- Conduct environmental surveys (wetlands, species, etc.)
- Obtain archaeological clearance
- Obtain approval from US Corps of Engineers



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Appropriation Is Supported By Authorities

1. Contract negotiations are progressing quickly.
2. All stakeholders are focused and diligently working together.
3. Draft second supplement contract contains a provision for Authorities to pay COH back for their pro-rata share of the cost that is directly related to the development of the project.
4. All Authorities' Boards have approved a Letter of Agreement (LOA) to allow the tasks to proceed without a final supplement in place.
5. Next Step: Council approves appropriation

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Northeast Water Purification Plant Expansion

Q&A

**Request the Committee's Recommendation of
Approval to the Council**

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