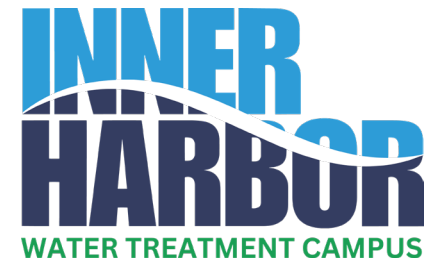


Update on Inner Harbor Water Treatment Campus Project

City Council Meeting
July 22, 2025



Presentation Overview



Current Project Status Update



Project Timeline



Demonstration Plant



Cost Model Update



Future Project Topics



Current Treatment Campus Layout

Current Project Status Update

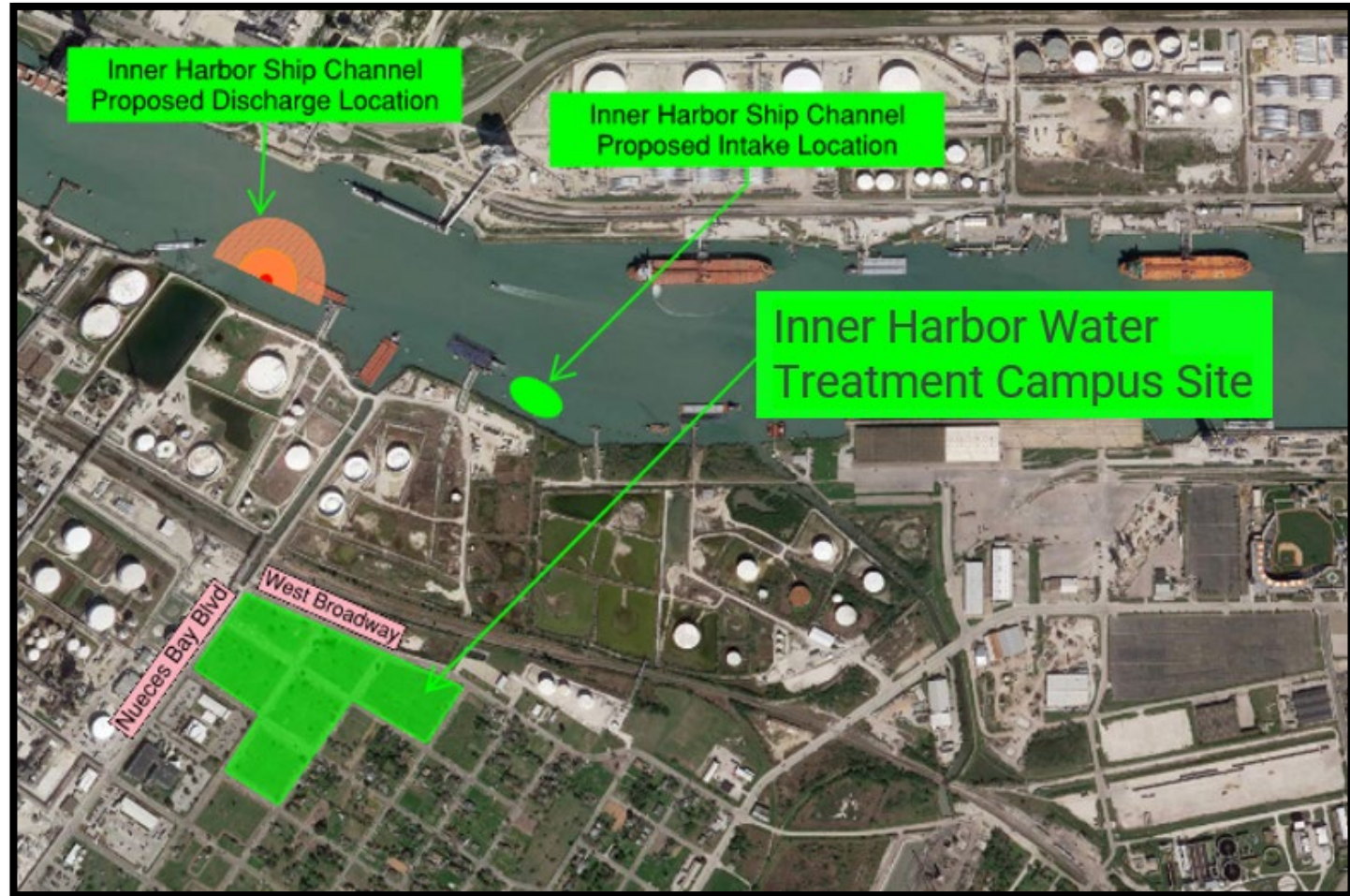
Project Overview:

Phase 1A – Complete

Phase 1B – Design, Early Works,
and Guaranteed Maximum
Price (GMP)

Phase 2 – Final Design and
Construction

Phase 3 – Operating and
Maintenance Services



Current Project Status Update

Current Status:

Phase 1A – Substantially Complete

Phase 1B – Start Date: April 15, 2025

Contract amendments issued to date: 4 Total

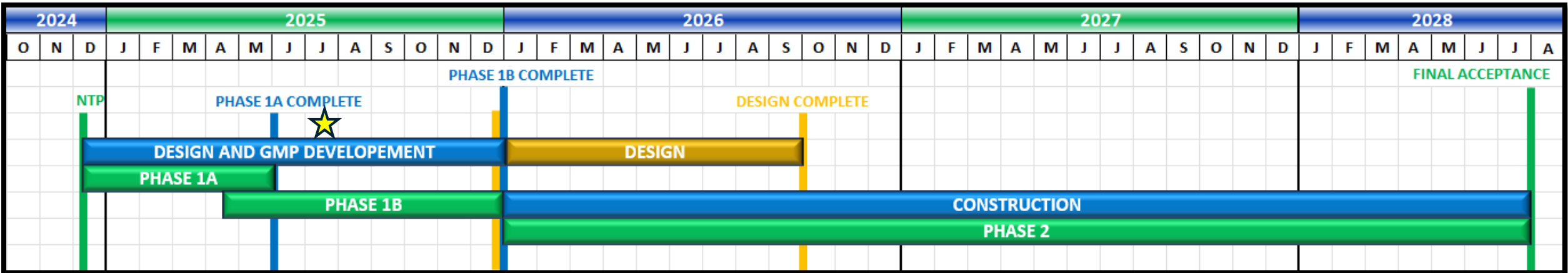
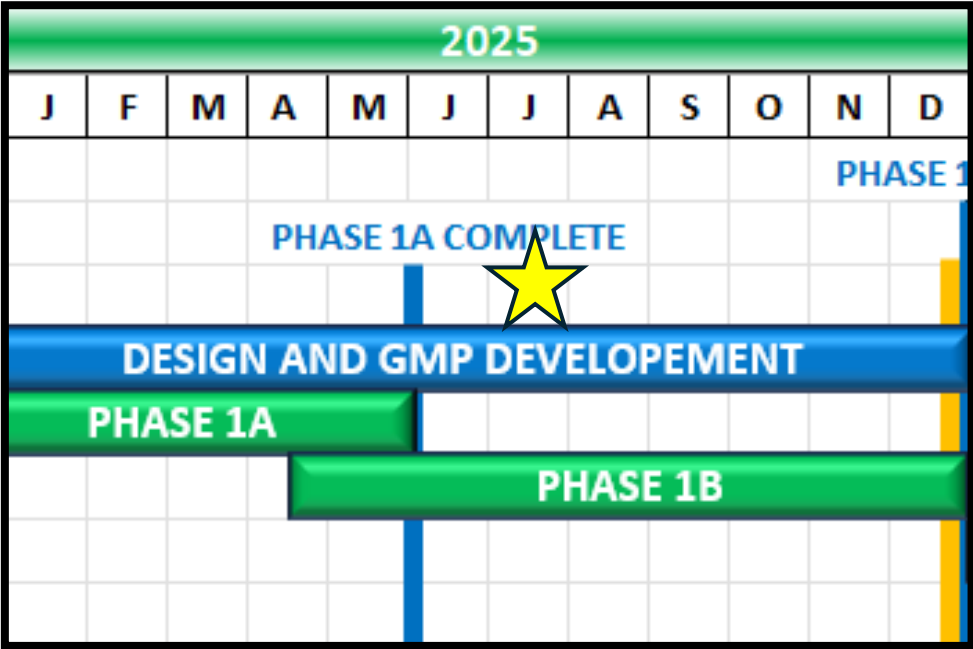
Demonstration Plant Schedule:

- Construction Completion: August 2025
- Operation Startup: August/September 2025
- TCEQ 30-Day Start: September/October 2025

Project Timeline

Current Status (★):

- Demonstration Plant in construction – 15% Complete
- Design development in progress
 - Amendment planned for July 29 City Council



Demonstration Plant

Demonstration Plant Schedule:

- Construction Start: June 2025
- Operation Startup: August/September 2025
- TCEQ 30-Day Start: September/October 2025

Construction Progress:

- Erosion control installation is complete
- Equipment deliveries in progress; All process treatment units received
- Discharge water line installation is 70% complete
- Site prep at plant site is 80% complete

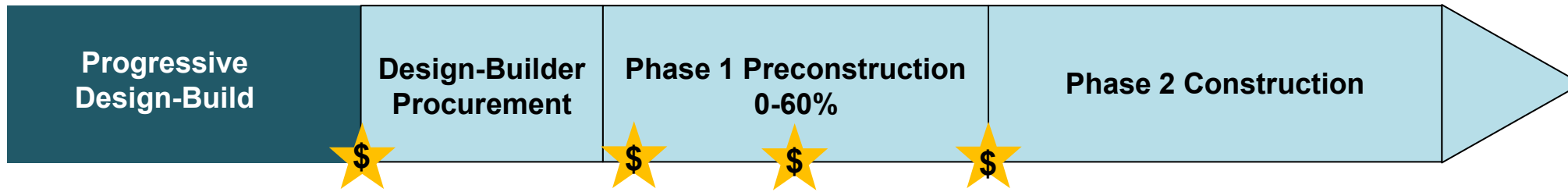
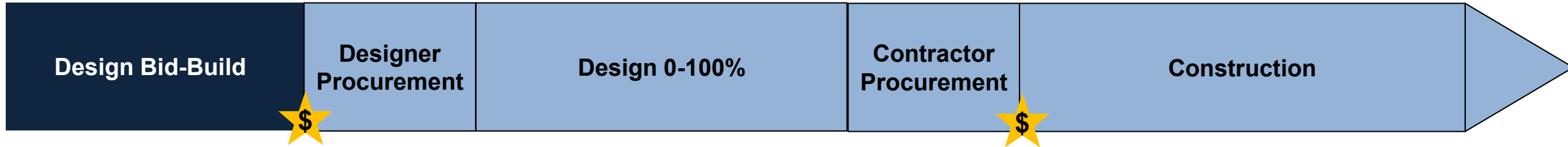


Cost Model: Contract Requirement

Phase 1A Deliverable

"Design-Builder will develop a Cost Model that shall be a good faith estimate of the cost to deliver a fully functional and complete Project, inclusive of all costs to complete Phase 2, and shall be based on the assumptions and risks that are known at the time Design-Builder submits the Cost Model to City. The Cost Model shall contain the same information required in a Binding Construction Price Proposal and must include a narrative explaining risks, assumptions and contingencies."

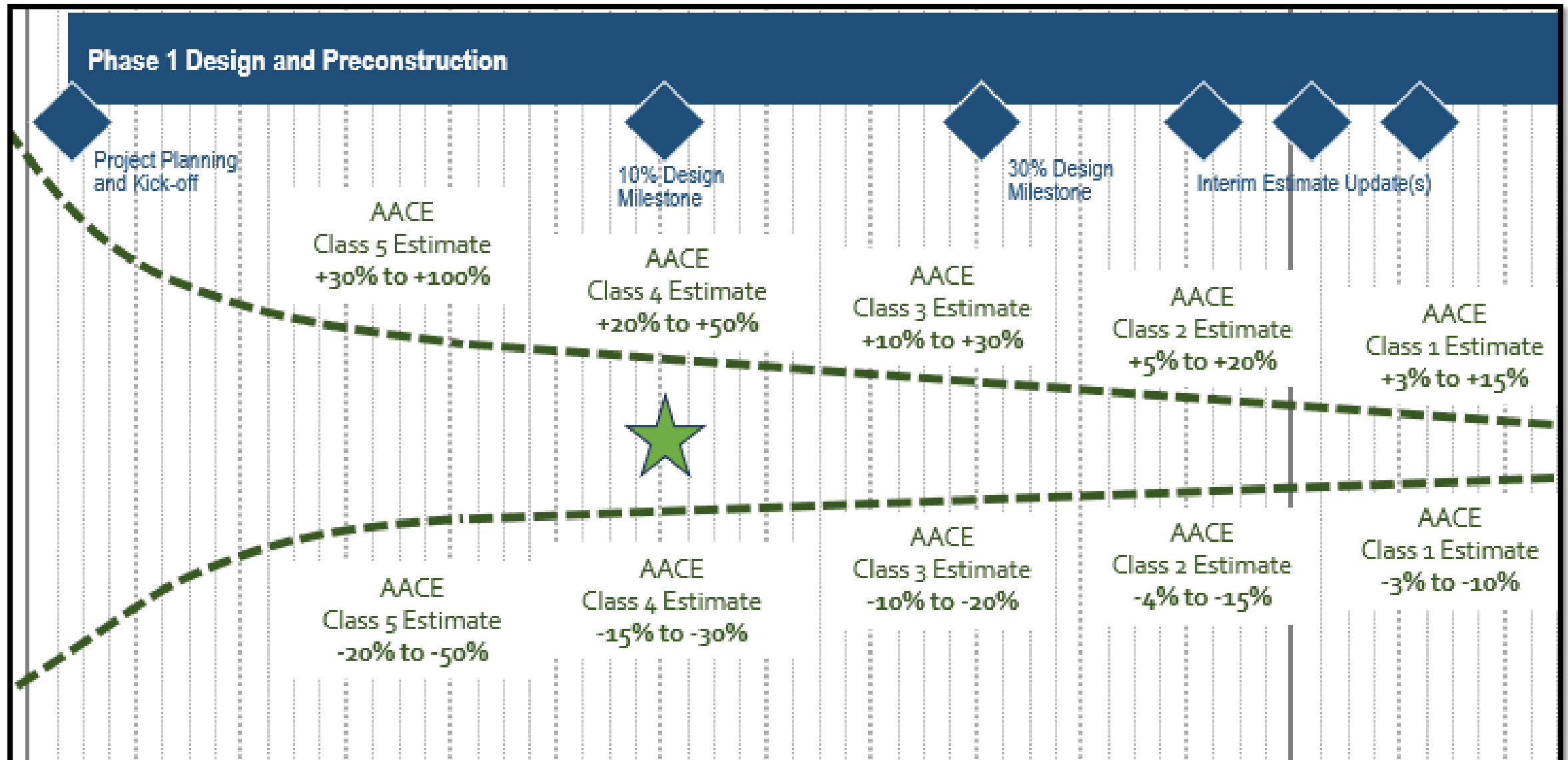
Cost Model: Project Cost Review Points



Design Bid-Build – approximately 10-12% of project costs committed before cost certainty

Progressive Design-Build – numerous opportunities to review cost models and cost certainty achieved at 8-10% of project costs

Cost Model: Cost Iteration Process



Cost Model: Impact to CCW Ratepayer

Rate Analysis:

	Initial Budget \$757M	10% Cost Model \$1.189B
Residential Average Monthly Increase	\$9.96	\$11.38
Residential Average Monthly Water Bill	\$72.64	\$74.06

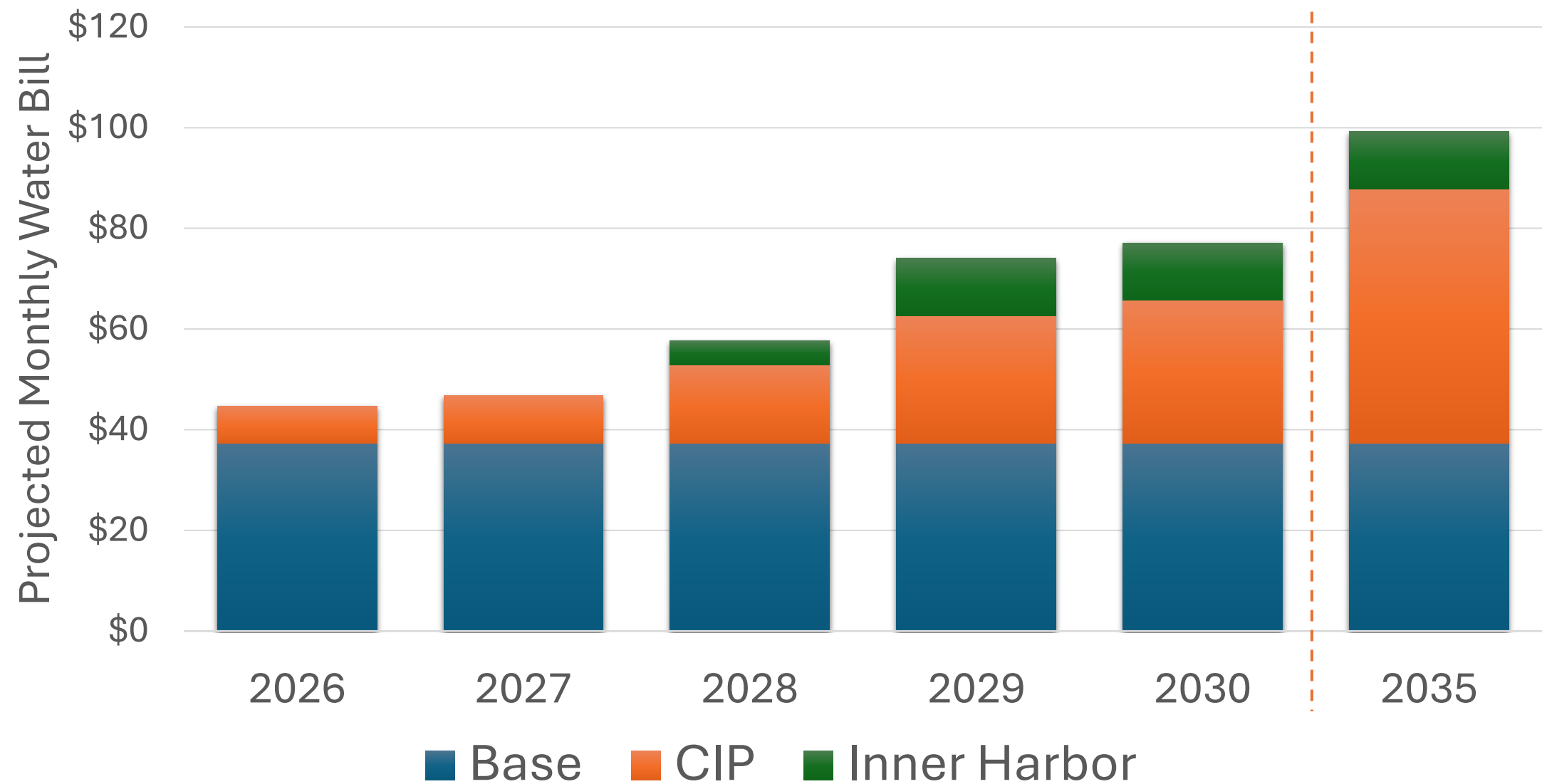
- Average baseline monthly water bill is projected to be \$62.68
- Rates are forecasted for 2029, the year the full debt service and operation and maintenance cost will begin
- Residential average monthly increase based on use of 6,000 gallons per month

Cost Model: CCW Rate Payer Forecast

	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2035
Residential Average Monthly Water Bill w/o Inner Harbor	\$37.29	\$44.65	\$46.73	\$52.86	\$62.68	\$65.78	\$87.85
Residential Average Monthly Water Bill w/ Inner Harbor	\$37.29	\$44.65	\$46.73	\$57.61	\$74.06	\$77.11	\$99.24
10% Cost Model Increase	-	-	-	\$4.75	\$11.38	\$11.33	\$11.39

- Residential average monthly rates based on use of 6,000 gallons per month

Cost Model: CCW Rate Payer Forecast



Cost Model: Cost of Water

	Initial Budget	10% Cost Model
All in Capital Costs	\$757 M	\$1.189 B
Debt Service	\$43.0 M/yr	\$68.1 M/yr
Annual Operating Costs	\$44.0 M/yr	\$32.0 M/yr
Annual Costs (2029)	\$87.0 M/yr	\$100.1 M/yr
Cost of Water (2029)	\$7.95/kgal	\$9.14/kgal

Cost Model: Impact to CCW Ratepayer

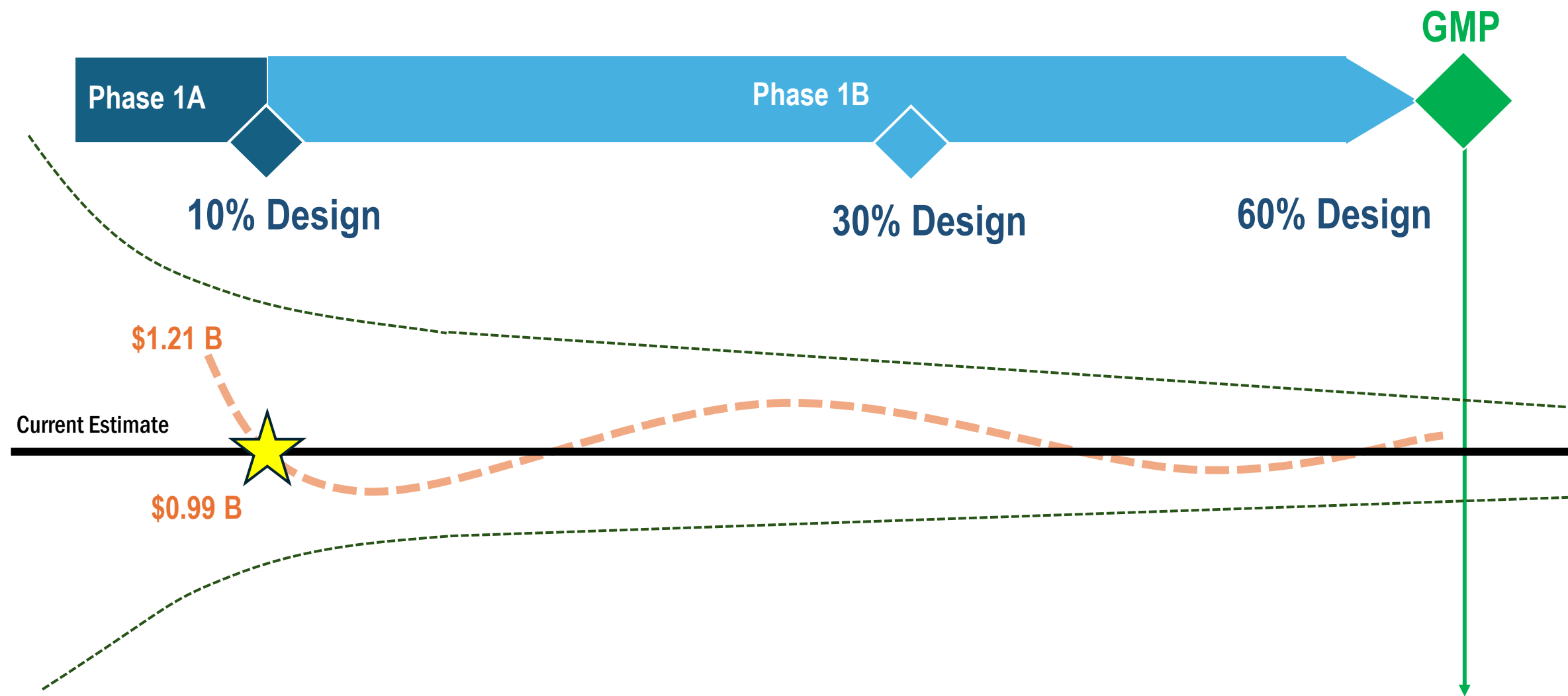
Impact to the CCW Ratepayer	Initial Budget \$757M	10% Cost Model \$1.189B	Cost Model + Grant**
Average Monthly Increase (Residential)*	\$9.96	\$11.38	\$9.92
Average Monthly Increase (Commercial)	\$181.00	\$206.83	\$180.12
Average Monthly Increase (Large Volume)	\$405,040	\$462,986	\$403,215

Rates are forecasted for 2029, the year the full debt service and operation and maintenance cost will begin

* Residential average monthly increase is based on use of 6,000 gallon per month

** \$180 million grant funding from the U.S. Bureau of Reclamation

Cost Model: Construction Cost Iteration



Cost Model: Project Cost Breakdown

Project Phase	Status	Estimated Cost	
Project Administration, Technical Support and Construction Inspection Services (Owner's Advisor)	Ongoing	\$35M	Planning, Design & Admin Services
Phase 1A – Planning, Pilot Protocol, and Basis of Design	Complete	\$10M	
Phase 1B – Design, Early Works, and Guaranteed Maximum Price (GMP)	Ongoing	\$95M	
Phase 2 – Final Design and Engineering Services	Planned	\$52M	
Phase 2 - Construction	Planned	\$997M	
Total Project Cost		\$1.189B	

Cost Model: Engineering Summary

Planning, Design and Administration Services		
Planning and Design Services	Cost	Description
Base Design Services	\$ 62,773,580	Engineering for Final Design
Engineering Services During Construction	\$ 44,315,420	Construction Detailing and Support
Vendor Engineering	\$ 11,653,493	Supplier Design Submittals
Estimating	\$ 4,680,000	Cost Model and GMP Estimating
Procurement	\$ 1,170,000	Commercial Procurement Process
Constructability	\$ 11,115,000	Value Engineering and Integration of Construction Plan
Management and Planning	\$ 9,426,425	Project Management and Scheduling
Demonstration Plant	\$ 12,000,000	Demonstration Plant Supply and Construction
Subtotal	\$ 157,133,918	
Freese and Nichols Administration Services	\$ 35,000,000	Design and construction technical support, contract support, and inspection services
Total	\$ 192,133,918	

Cost Model: Construction Summary

Phase 2 Construction Cost Summary		Cost	Description
1	Marine Work	\$ 151,493,815	
	Intake Line	\$ 69,757,035	Incoming Pipeline from Inner Harbor
	Discharge Line	\$ 81,736,780	Discharge Pipeline to Inner Harbor
2	Treatment Plant Labor and Construction Equipment	\$ 582,271,072	
	Civil	\$ 45,830,149	Desal Earthwork, Paving, and Sitework
	Structural	\$ 92,404,650	Desalination Plant Concrete and Steel
	Piping (Underground and Above Ground)	\$ 118,242,391	Piping within the Desalination Plant
	Process Equipment	\$ 154,130,011	Desal Processing Equipment
	Electrical and Instrumentation	\$ 104,113,659	Desal Power and Controls
	Buildings	\$ 67,550,212	Buildings and Equipment Enclosures
3	Product Waterline	\$ 69,962,876	Product Pipeline from Desal to Navigation
4	Navigation Pump Station Improvements	\$ 24,705,495	Storage Tank and Blending Equipment
5	Escalation	\$ 48,740,000	Labor Equipment Materials Escalation
6	Contingency	\$ 45,000,000	Unknowns
	Subtotal	\$ 922,173,258	
7	Bonds and Builders Risk Insurance	\$ 9,020,551	Bonds and Insurance
8	General Conditions	\$ 66,095,324	Construction Management and Support Services
	Total Cost	\$ 997,289,133	

Cost Model: Next Steps

- 30% Design Submittal and Cost Model Update
- 60% Design Submittal and Guaranteed Maximum Price
- Early Works Packages (Future Council Approved Amendments)
 - Utility Relocation/Demo July 2025
 - Site Grading October 2025
 - Underground Utilities November 2025
 - Foundations/Pipeline December 2025

Future Project Topics

Upcoming Briefings and Meeting:

- City Council Briefings
 - At least twice per month through 2025
 - Next briefing August 12, 2025

Upcoming Topics:

- Demonstration Plant Construction Status Update
- Design amendment planned for July 29 City Council



Questions?