

REGIONAL WATER ISSUES

Advancing Water Abundance & Reliability

October 28, 2025

Regional Water Issues



Advancing Abundance, Reliability

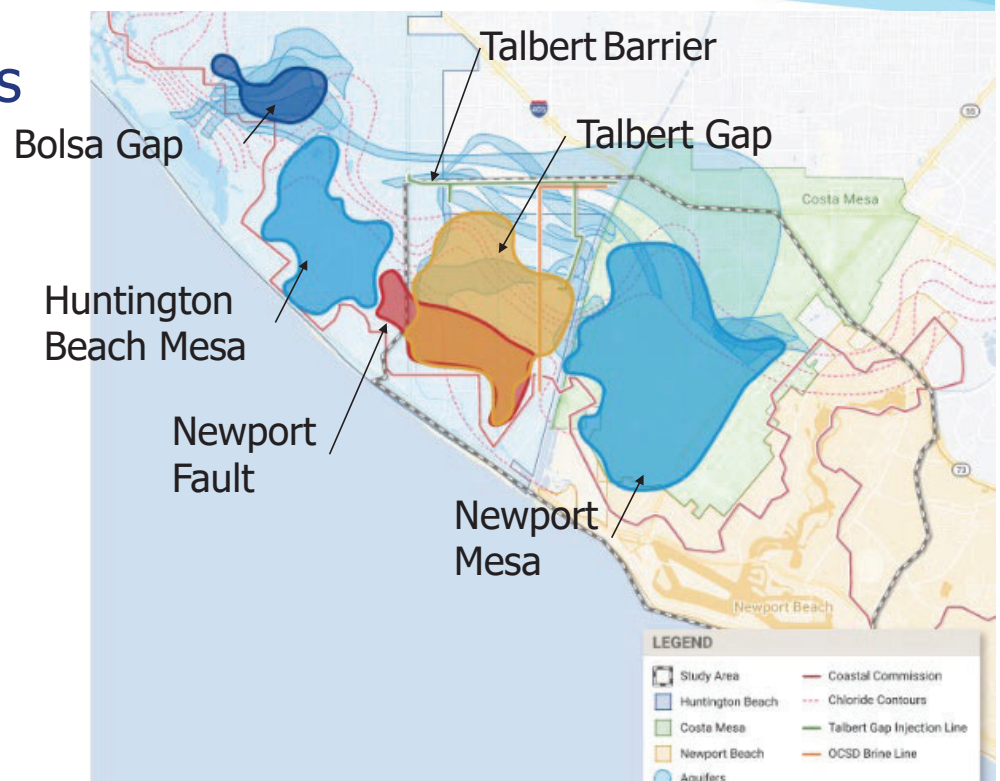
- Local SIP
- Interagency Water Transfer

LOCAL SIP

Feasibility Study of Brackish Groundwater Desalination

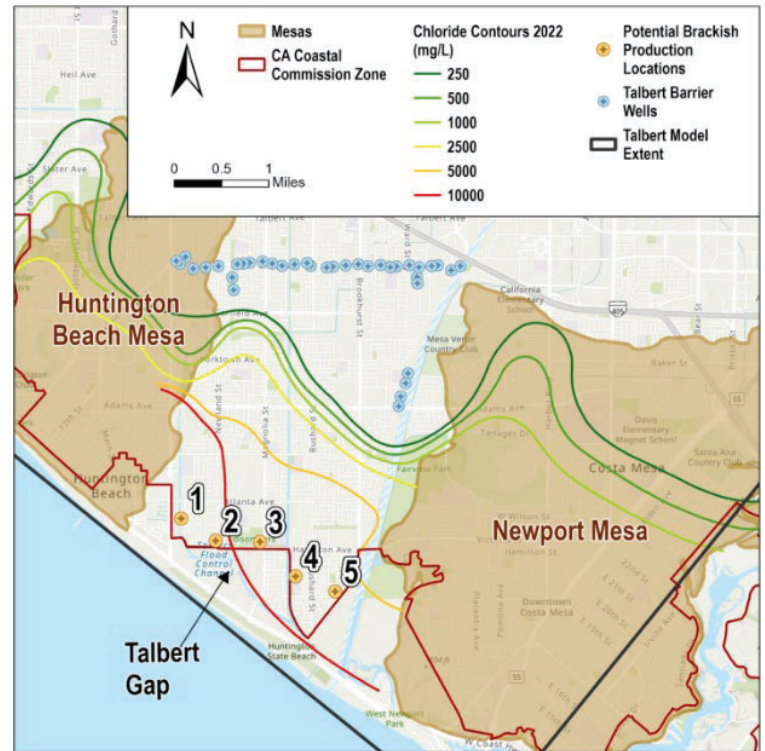
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Wellfield Locations



Simulated Well Locations

- Evenly distributed well from Atlanta Ave. to Brookhurst
- Close to coastal zone
- Wells screened in Talbert Aquifer



5 | October 28, 2025

Groundwater Modeling Results

- 70 – 80% of water from ocean
- 20 – 30% from OC Basin/Barrier
- 9,000 mg/L Chloride (18,000 mg/L)
- 4 to 8 mgd well production (2 to 5 mgd product water)

6 | October 28, 2025

Project Alternatives

	2.65 MGD Alternative	5.35 MGD Alternative
Feed Flow from Groundwater Wells (MGD)	4.00	8.00
Overall RO Recovery	70%	70%
Brine Discharge (MGD)	1.19	2.38
Finished Water Capacity (MGD)	2.65	5.35
Annual Yield (AFY)	2,996	5,993

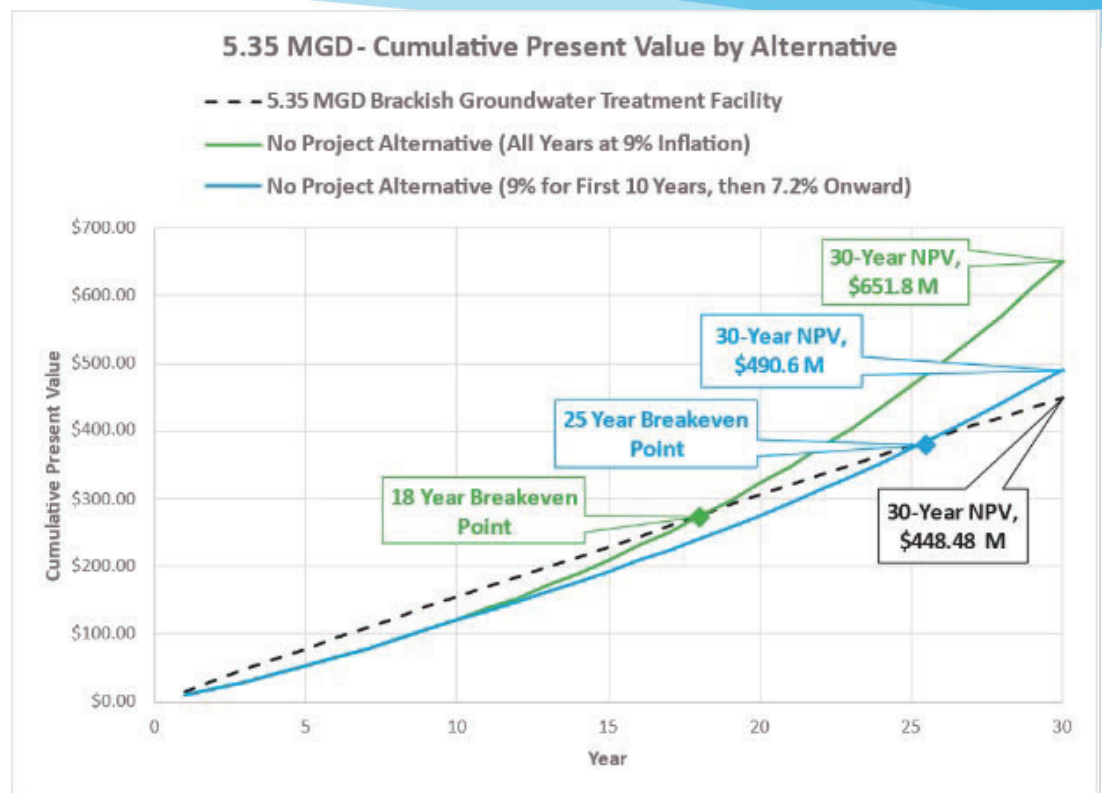
Alternative Comparison

Cost Component	5.35 MGD Brackish Groundwater Treatment Facility	2.65 MGD Brackish Groundwater Treatment Facility	Import 5.35 MGD of Treated Water (No Project Alternative)
Total Construction Costs	\$276.9 M	\$193.3 M	-
Total Project Cost	\$317.5 M	\$223.4 M	-
OPEX Costs (Year 2025)	\$8.870 M	\$4.771 M	\$9.625 M
Annual Project Yield (AFY)	5,993	2,996	5,993
First Year Unit Cost per AF (2025)	\$2,671	\$3,459	\$1,606
Net Present Value Cost per AF	\$2,495	\$3,163	\$2,728

Grant Funding

- Costs assume 20% of the total project cost is grant funded
 - Public – Private Partnership
 - WaterSMART
 - DWR Water Desalination Grant Program
 - State Revolving Funds
 - WIFIA

Economic Analysis



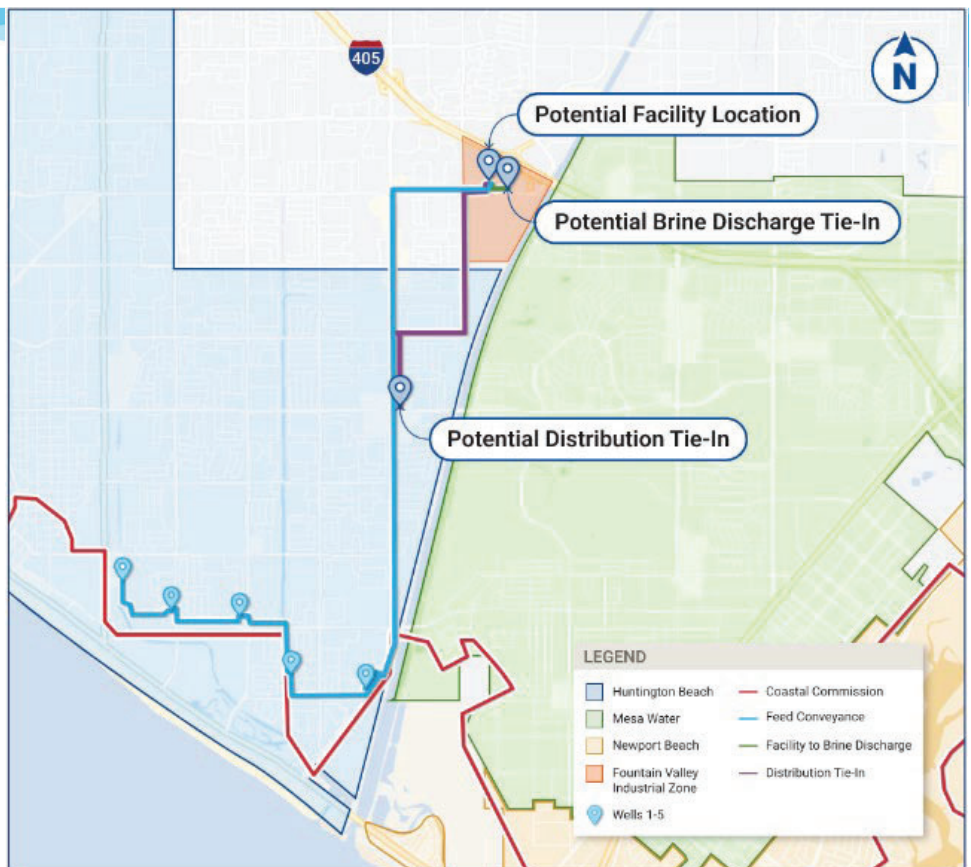
Next Steps

- Begin looking for potential treatment plant sites
- Develop Grant Funding Strategy
- Refine groundwater model
- Investigate subsidence potential

11 | October 28, 2025



Potential Treatment Plant Sites

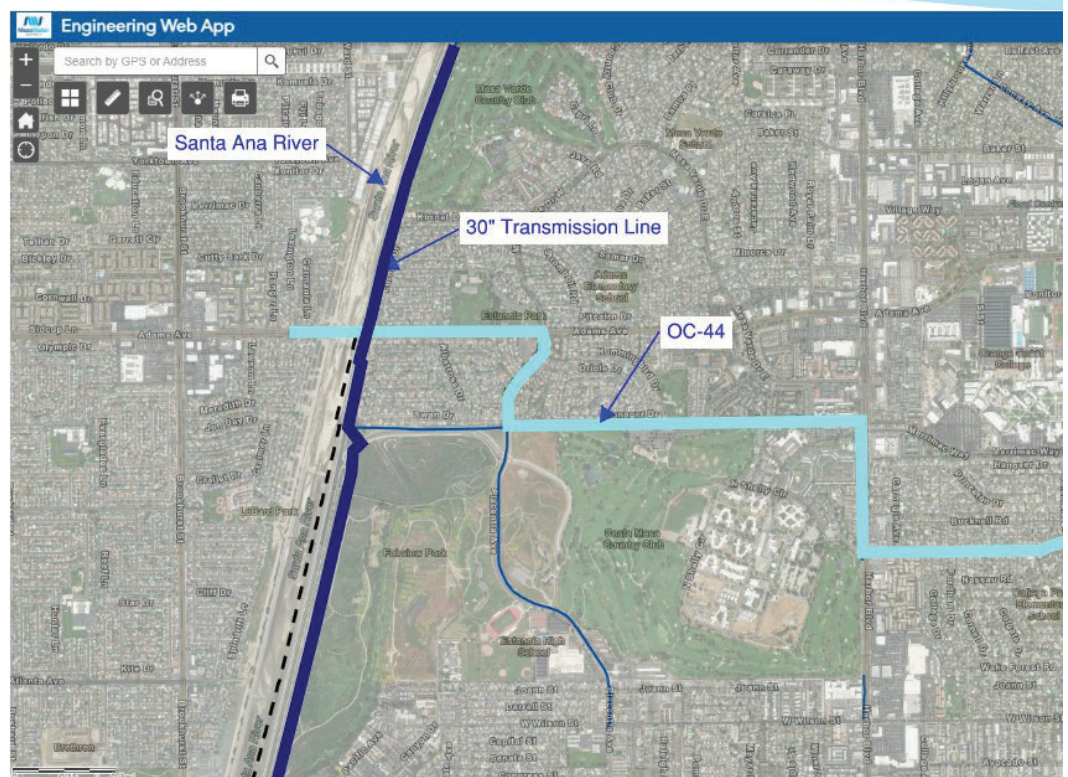


12 | October 28, 2025

INTERAGENCY WATER TRANSFER

October 28, 2025

Huntington Beach Interagency Water Transfer



Huntington Beach IWT Schedule

1. Notice to Proceed – August 2025
2. Draft Feasibility Study – December 2025
3. Board and Council Presentations – Winter 2026

15 | October 28, 2025



Newport Beach Interagency Water Transfer



Evaluate feasibility of supplying
Mesa Water available capacity to
Newport Beach

16 | September 10, 2025



Financial Analysis

1. 2,000 AFY Supply Scenario = \$900k in 1st Year Savings
2. Key Assumptions
 1. 1,000 AFY MWRP to Newport Beach & 1,000 AFY Clear Well for Newport Export
 2. Capital cost not included
 3. MWRP supply not subject to BEA & export groundwater only includes RA + energy costs
3. Savings increase with time

Study Conclusions

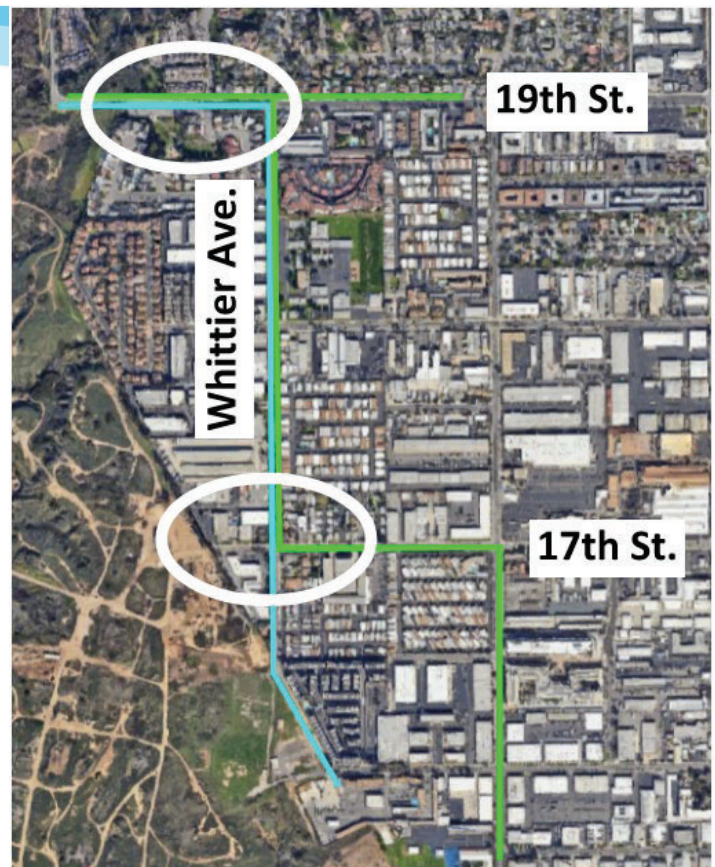
- **Substantial Available Capacity**
- **Low Capital Interconnection Potential**
- **Financial Benefits for All Parties**
- **Scalability**

Initial Next Steps

- **Newport Collaboration:** Confirm water quality, infrastructure requirements, operational strategy and partnership structure with Newport Beach
- **OCWD Coordination:** Confirm the conditions under which MWRF supply may be delivered to outside agencies while continuing to pay only the Replenishment Assessment
- **Capital Cost:** Complete hydraulic modeling and develop conceptual design/ cost estimate

Potential Interties

1. W. 19th Street
2. W. 17th Street
3. Along Whittier Ave.



Next Steps

1. Special Counsel
2. Agreement with Newport Beach
3. Confirm water supply with model
4. Contract with MKN for Engineering Services
5. Start Permitting
6. Design and Build Intertie

THANK YOU!