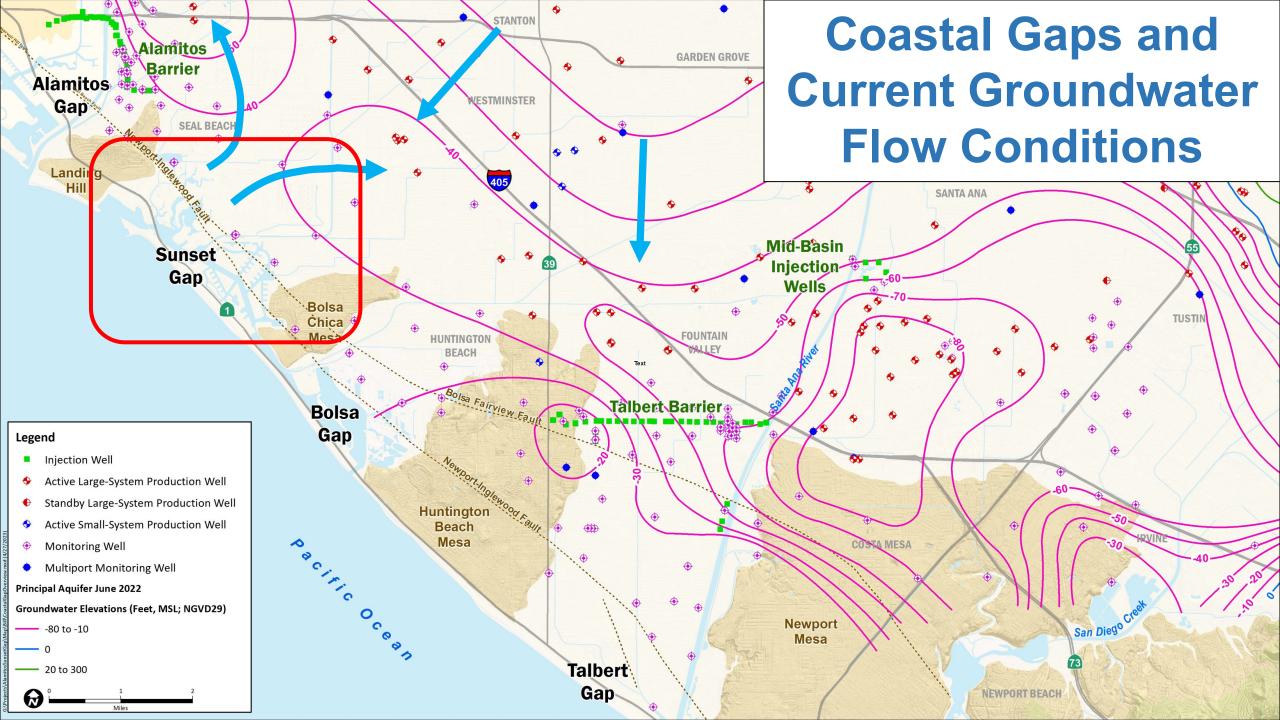


Sunset Gap Seawater Barrier Feasibility Study

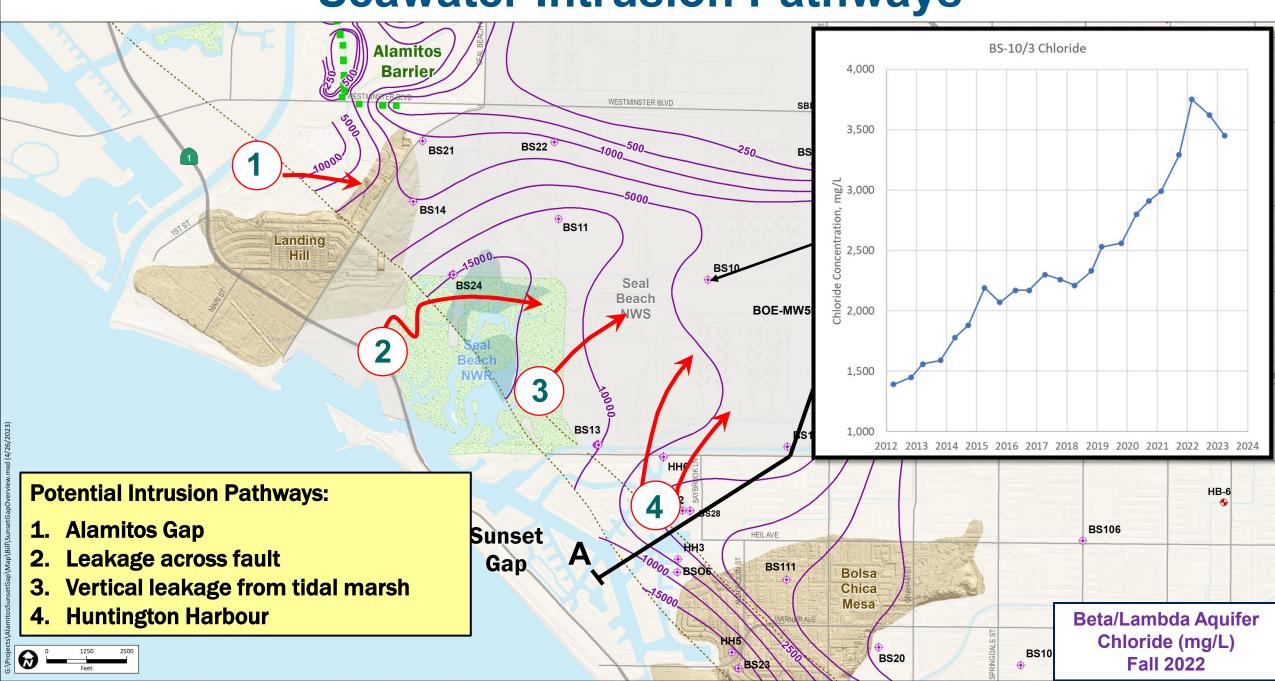


Bill Leever, PG, CHg Principal Hydrogeologist

Pre-Proposal Meeting May 31, 2023

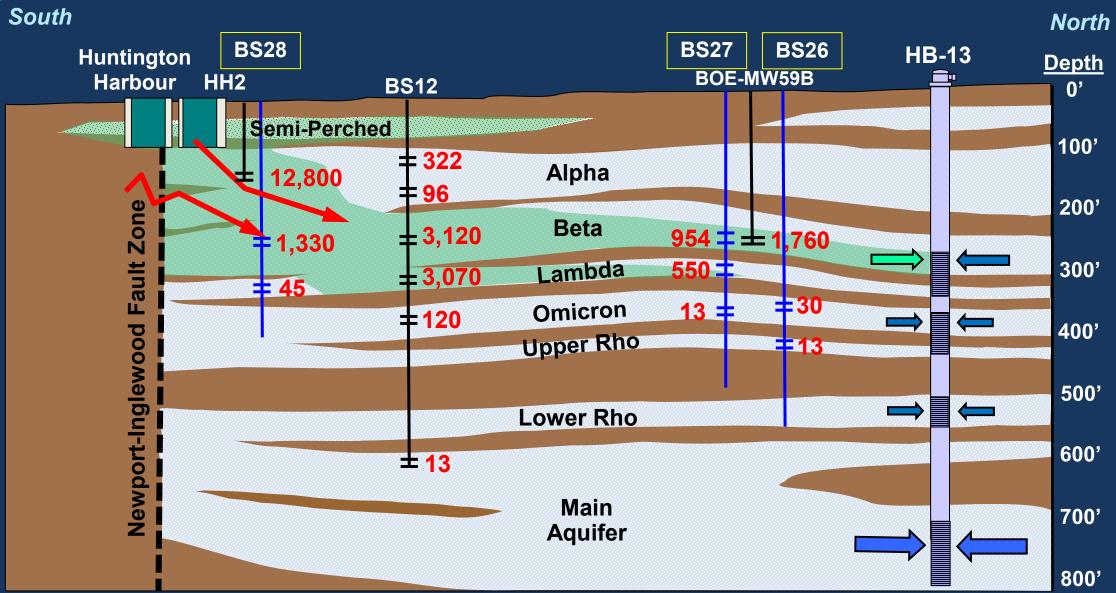


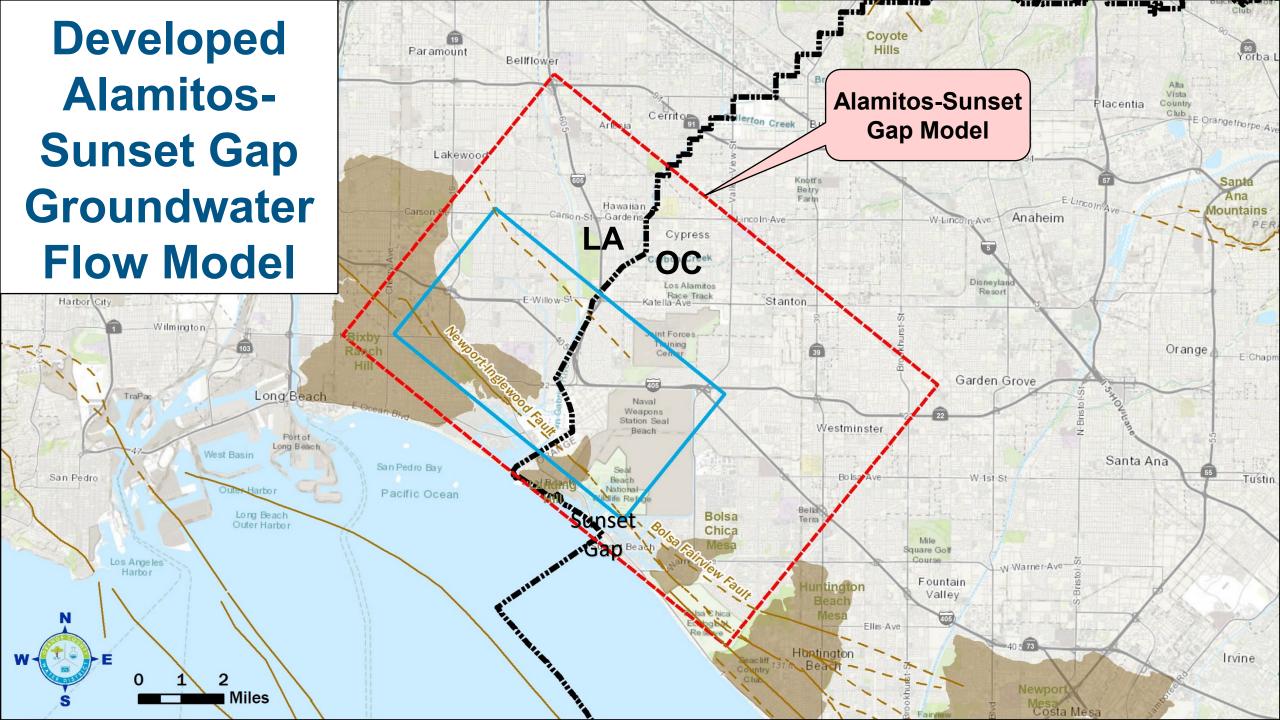
Seawater Intrusion Pathways

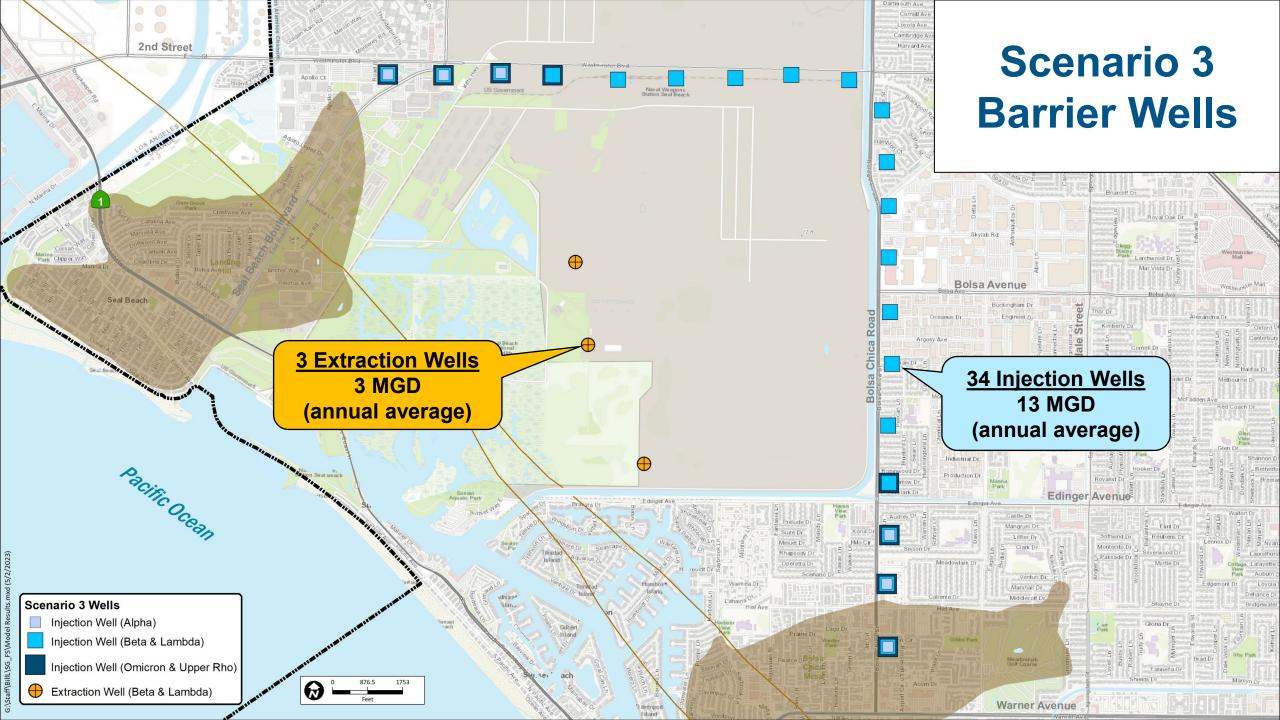


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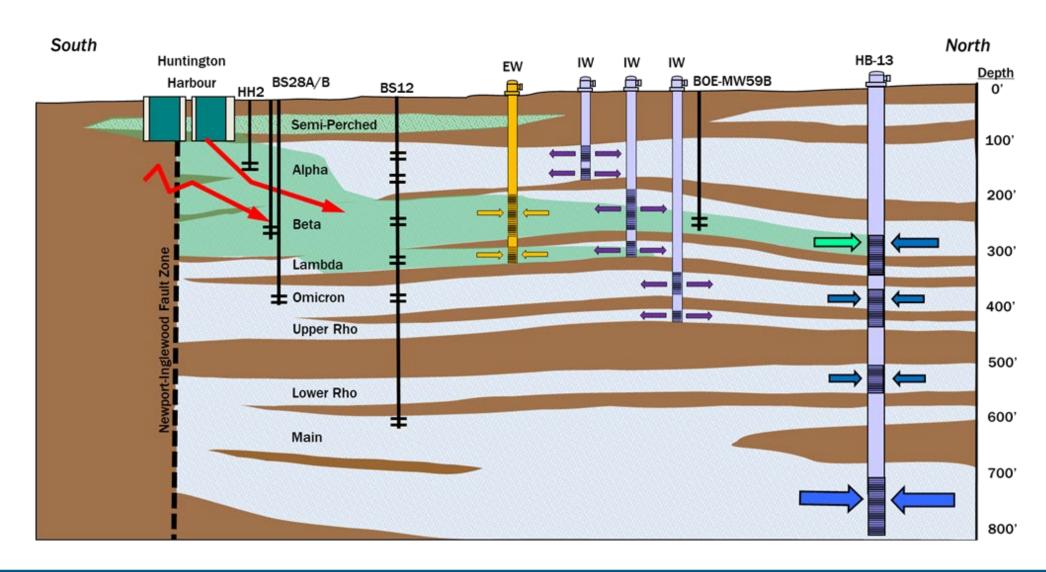
Seawater is intruding inland towards Huntington Beach production wells primarily in the Beta Aquifer.

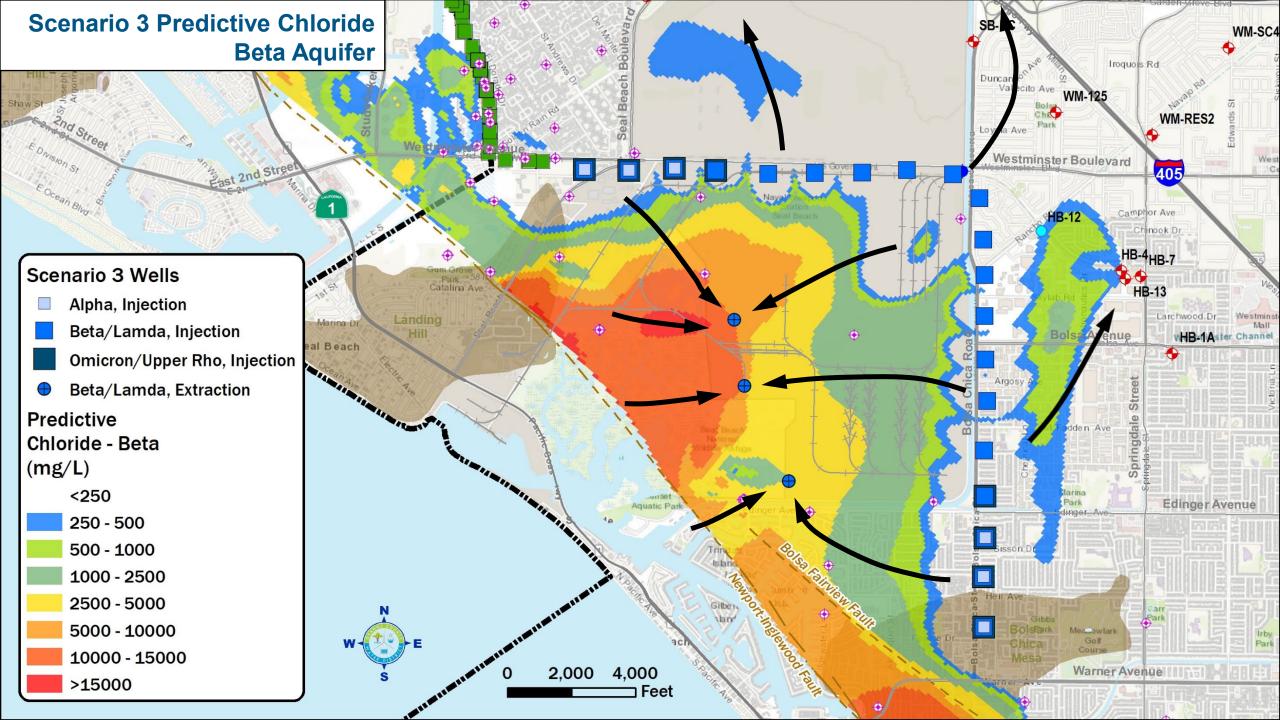






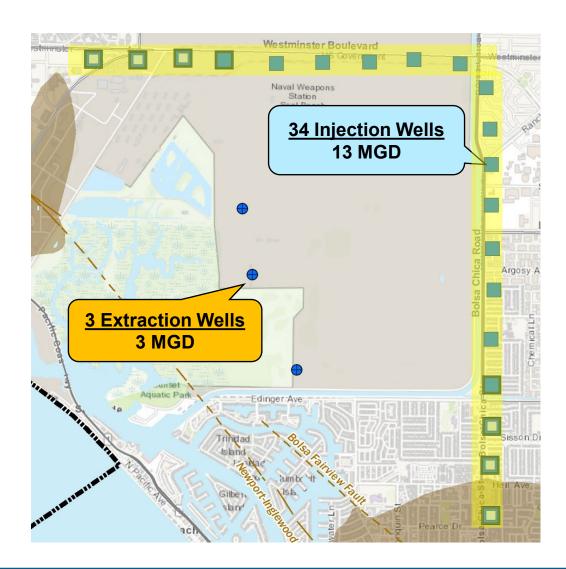
Schematic Barrier Concept

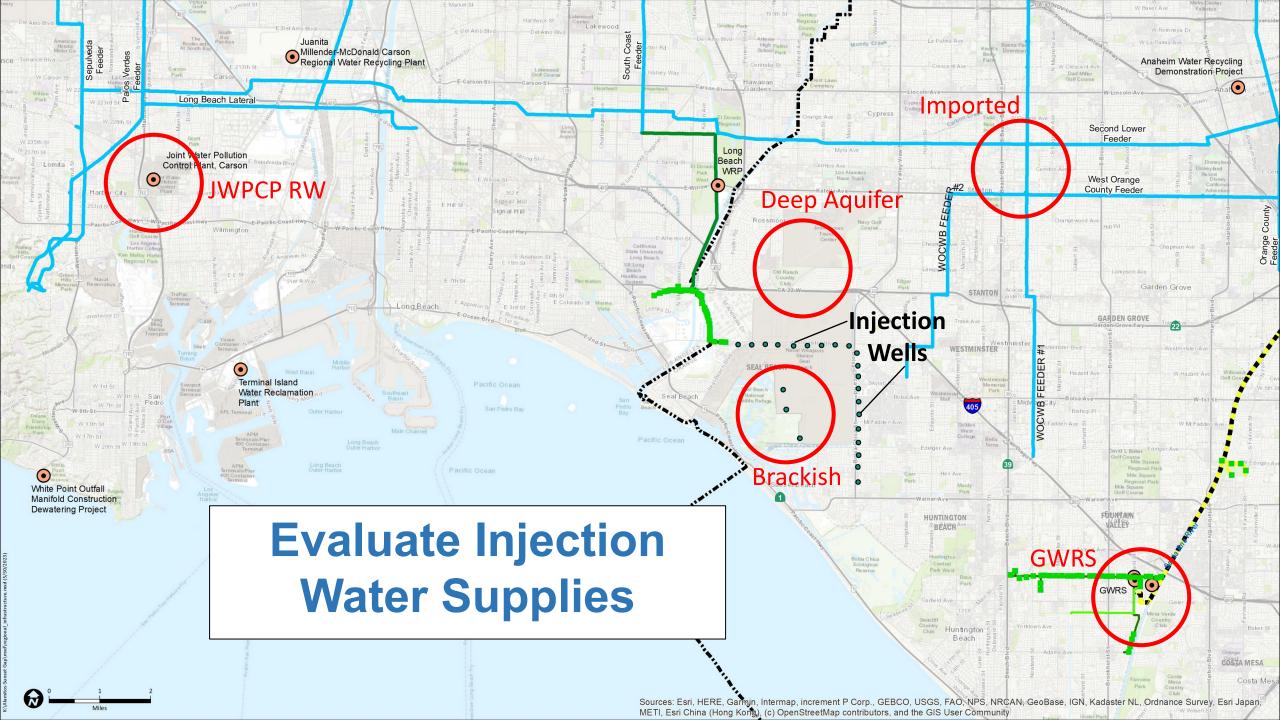




Feasibility Study Scope of Work

- Evaluate injection water supply
 - GWRS
 - Imported water
 - Deep aquifer groundwater
 - MWD's Carson plant
 - Brackish groundwater





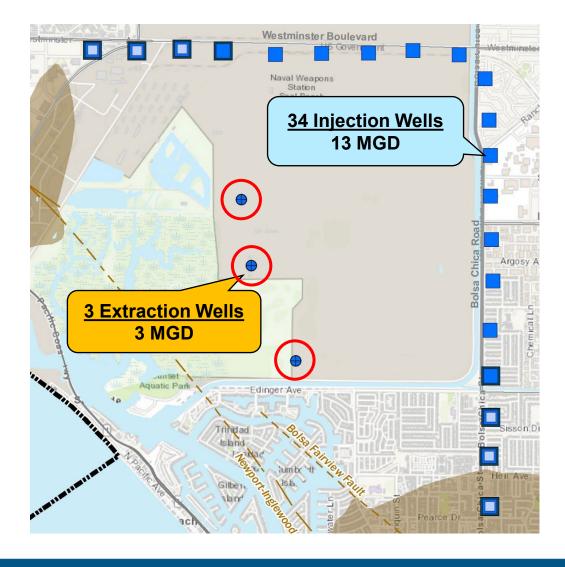
Feasibility Study Scope of Work

- Evaluate injection water supply
 - GWRS
 - Imported water
 - Deep aquifer groundwater
 - MWD's Carson plant
 - Brackish groundwater
- Extraction well siting and groundwater discharge
 - Injection water supply
 - Sewer
 - Surface waters
- Injection barrier alignment
- Project concept, 10% design and
- Feasibility Study report
- Test well implementation plan

Deliverable
Workshop 1
TM 1

Deliverable
Workshop 2
TM 2

Deliverable
Workshop 3
TM 3



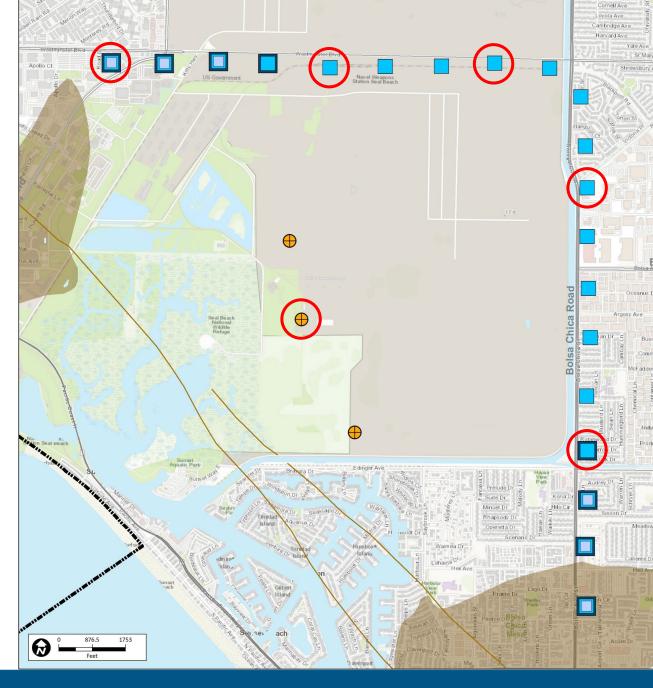
Test Well Implementation Plan

Produce sufficient hydrogeologic data (K,T,S) to refine the number, spacing, and flow rate of the barrier wells

- Test Wells (will become part of future barrier)
 - 9 injection wells at 5 sites
 - 1 Beta/Lambda extraction well
 - 1 Deep aquifer supply well (if needed)
 - 10 monitoring wells at 5 sites

Plan

- 30% design of all testing components
- Data collection equipment and methods
- Data analysis and interpretation methods
- Permitting requirements
- Engineer's estimate for construction, testing, data analysis, and reporting



Schedule

- RFP Issued: May 18, 2023
- Proposals Due: June 30, 2023, 10:00 a.m.
- Award Agreements: September 21, 2023
- Kick-off Meeting: October 4, 2023
- Final FS Report: October 4, 2024







QUESTIONS?

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