

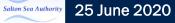
Salton Sea Perimeter Lake Concept Background

Presentation to:

Salton Sea Authority Board of Directors

June 25, 2020

complex world CLEAR SOLUTIONS™



Salton Sea Authority Benchmark Reports

Salton Sea Funding and Feasibility Action Plan

Benchmark 3: Evaluation of Alternatives With Respect to Existing Conditions



Salton Sea Funding and Feasibility Action Plan

Benchmark 4: Conceptual Plans and Cost Estimates Volume 2: Smaller Sea Options – Perimeter Lake Concept May 2016

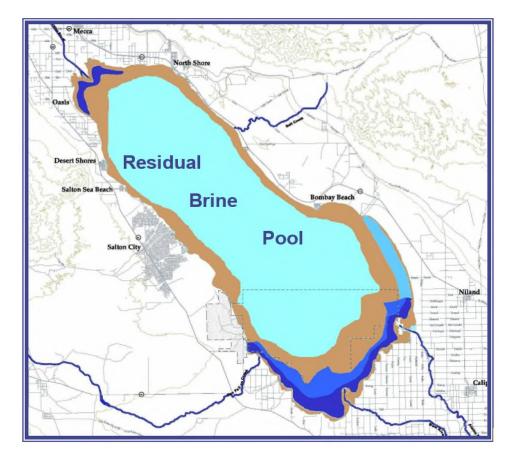


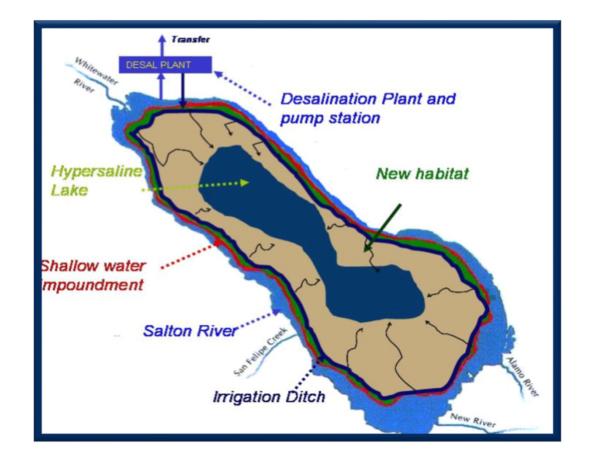
Salton Sea Funding and Feasibility Action Plan

Benchmark 7: Project Summary May 2016



Evolution of the Perimeter Lake Concept





US Filter (2002)

Pacific Institute (2001)

Salton Sea Authority Preferred Project (2004)



Final Preferred Project Report



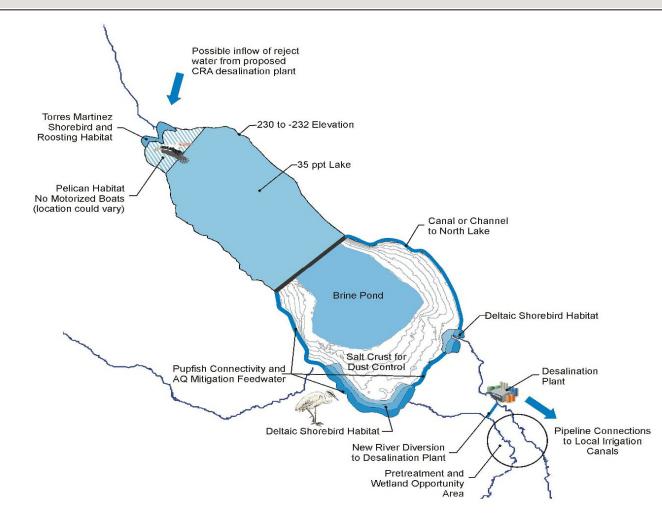
Salton Sea Authority

July 2004

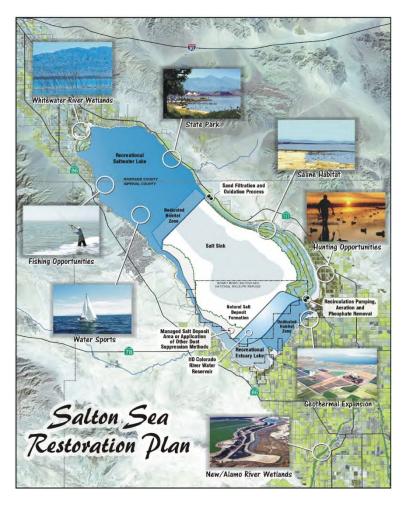


Salton Sea Authority 25 June 2020

Evolution of Salton Sea Authority Preferred Plan

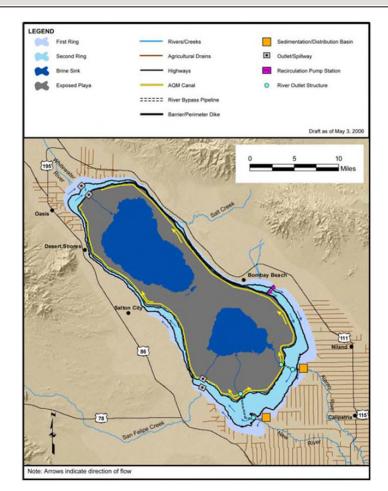


Salton Sea Authority (2003)

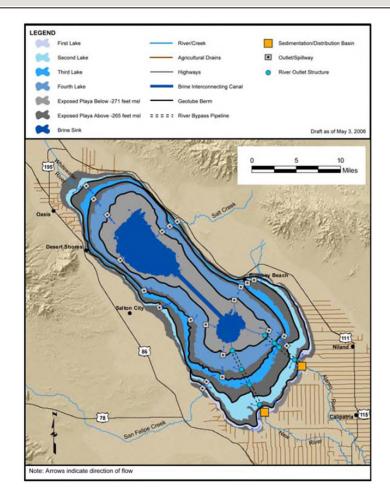


Salton Sea Authority (2006)

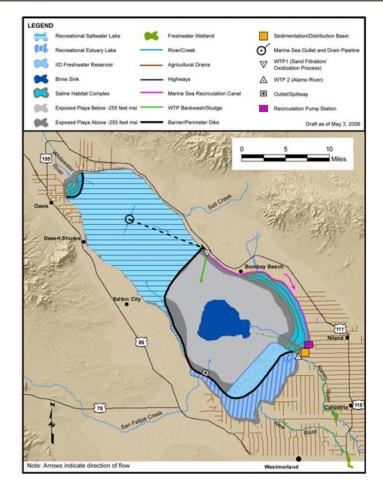
DWR PEIR (2006)



Alternative 3: Concentric Rings



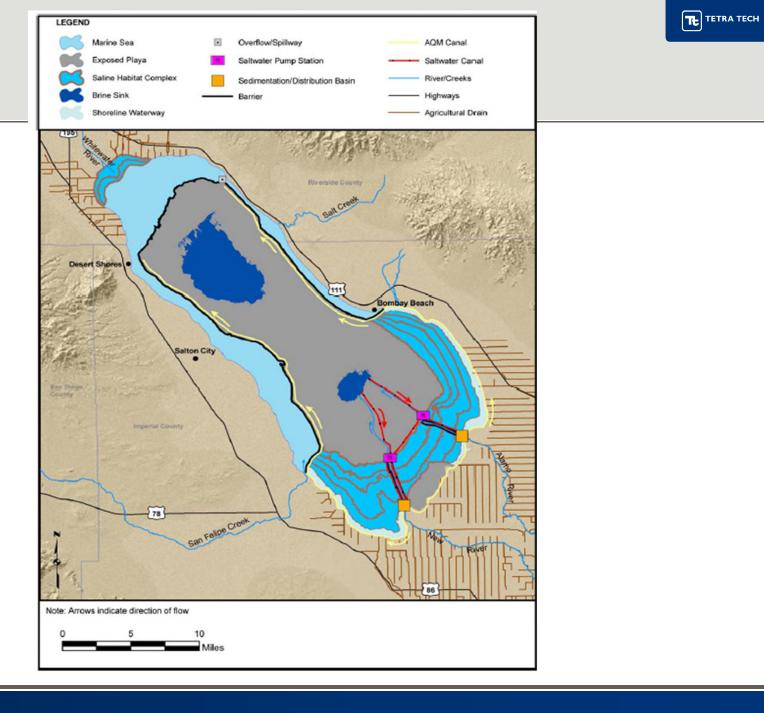
Alternative 4: Concentric Lakes (Imperial Group)



Alternative 7 Combined North & South Lakes (Salton Sea Authority)

DWR PEIR (2006)

DWR Preferred Alternative







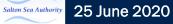


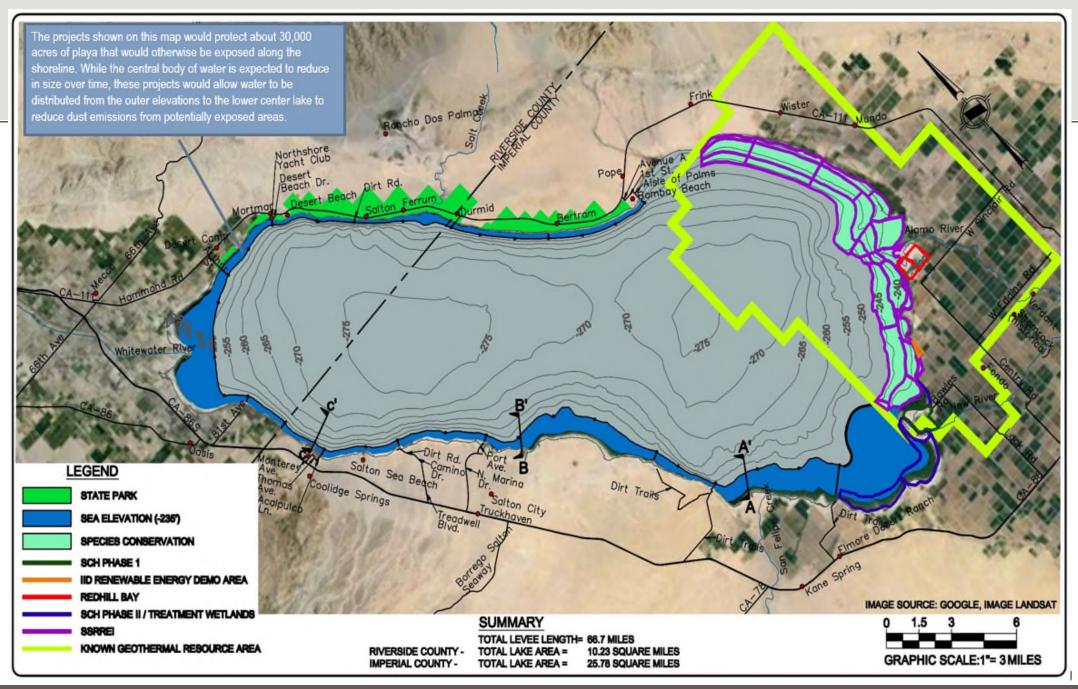
SS <u>Salton Sea</u> Authority Plan recognizes and works with

W limited Water

IF Incremental Funding

limited <u>Time</u>





Perimeter Lake

TE TETRA TECH

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Comparison to Other Lakes



Lake Elsinore



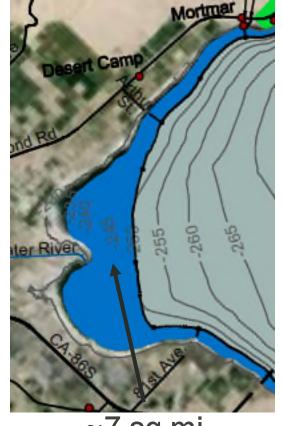
Diamond Valley Lake

Big Bear Lake: 5 sq mi

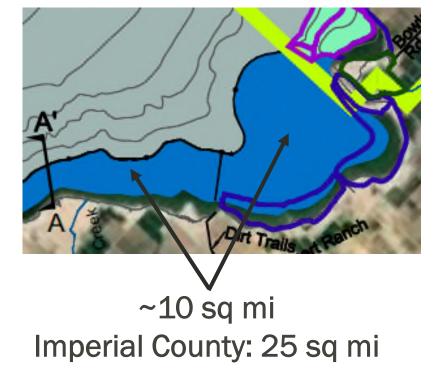
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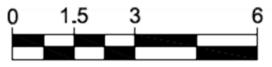
Perimeter Lake North & South Areas



~7 sq mi Riverside County: 10 sq mi

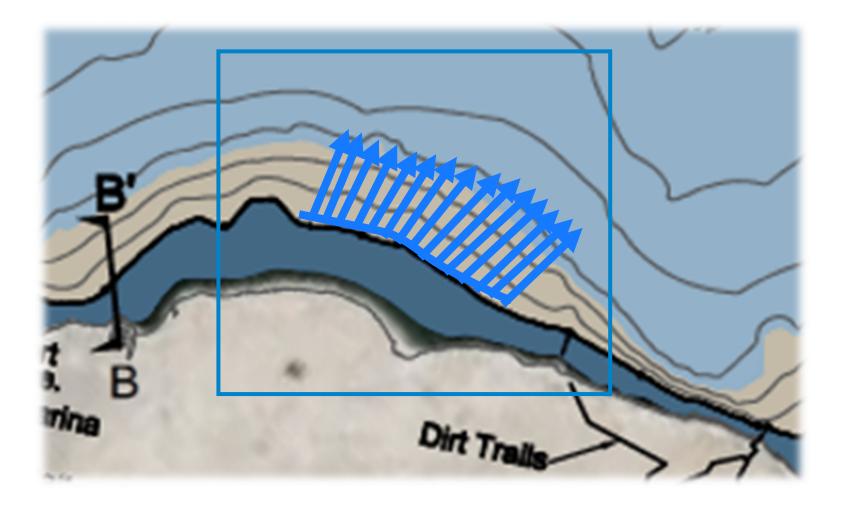


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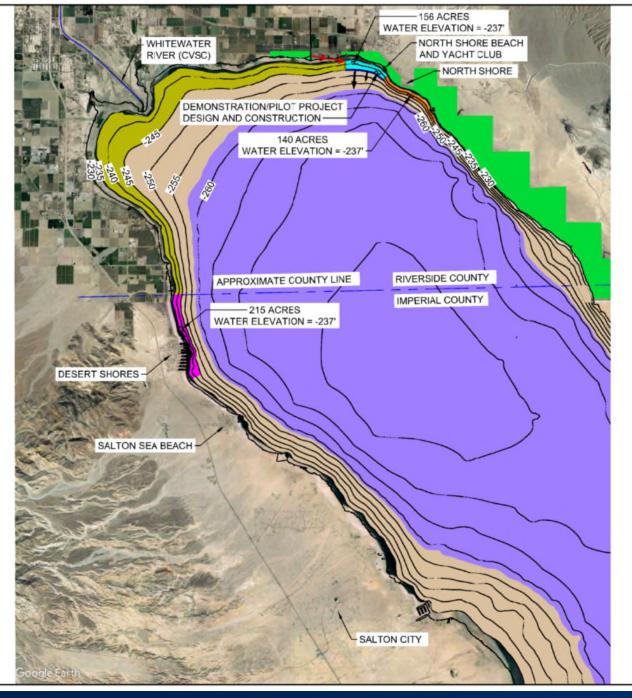


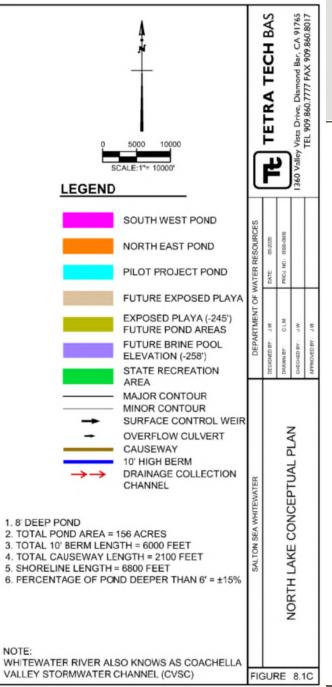


Irrigation System for Emissive Areas









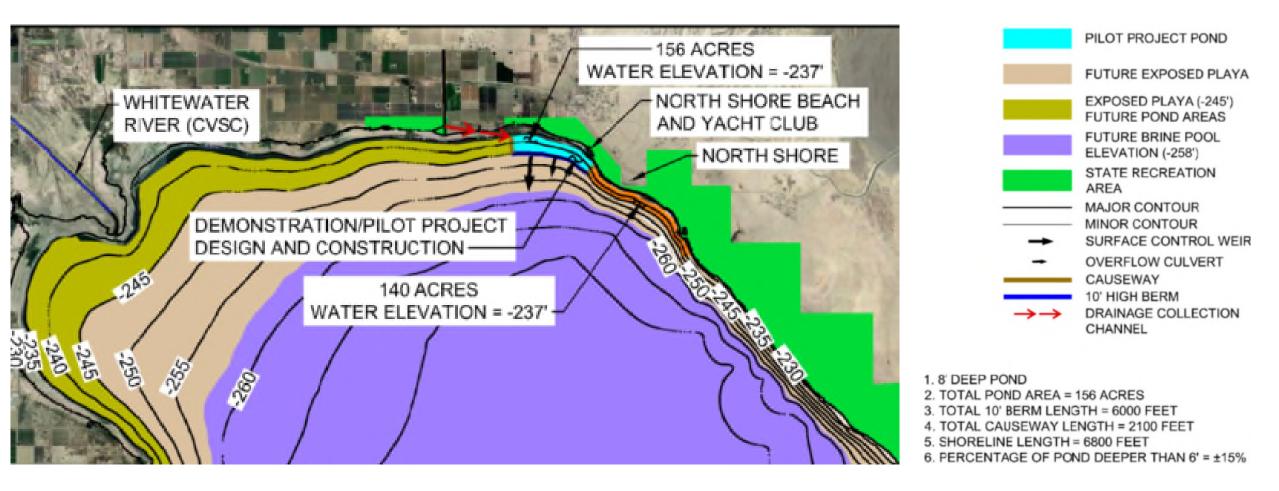
NOTE:

North Lake Concept

TETRA TECH

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Proposed Demonstration/Pilot Project







Advantages In Imperial County

- 26 square mile lake with areas up to 25 feet deep
 - Lake with cleaner, lower salinity water
 - Stable shoreline for Imperial County communities such Bombay Beach, Desert Shores, Salton City & Salton Sea Beach
 - Dredging will allow access to existing marinas
 - Preserves deep reservoir in south for micro-climate for agriculture
 - Preserves shallow habitat zone along nearly 30 miles near existing shoreline
- Habitat/dust control in south area allows full access to KGRA
- Works with existing IID Air Quality Control Plan
 - Provides irrigation source for emissive playa





Advantages In Riverside County

- ~10 square mile lake with deep habitat areas
 - Preserves shallow habitat zone along about 12 miles near existing shoreline
- Provides lake with cleaner, lower salinity water
 - Stable shoreline for Riverside County areas including the State Recreation Area
 - Dredging will allow access to existing marinas such as North Shore Yacht Club
- Provides irrigation source for emissive playa

