

Desert Shores Channels Restoration Project



Bruce Wilcox speaking about the Project at Desert Shores



Desert Shores Channels Before QSA Water Transfers



Desert Shores Channels After QSA Water Transfers



The Recent Past- The Desert Shores Channels when connected to the Salton Sea



The Present- The Desert Shores Channels now disconnected from the Salton Sea



Habitat Loss - Remains of former tilapia fish nests in the Desert Shores Channels



Discoloration - as salinity rises, salt tolerant algae turn the Desert Shores Channel water red



November 2019 Saline south channel is red with *Dunaliella salina* algae. Seen from east end of Honolulu Lane.

Salt Crust Bottom -The bottom is turning into a crust of salt with more salt crust floating on brine



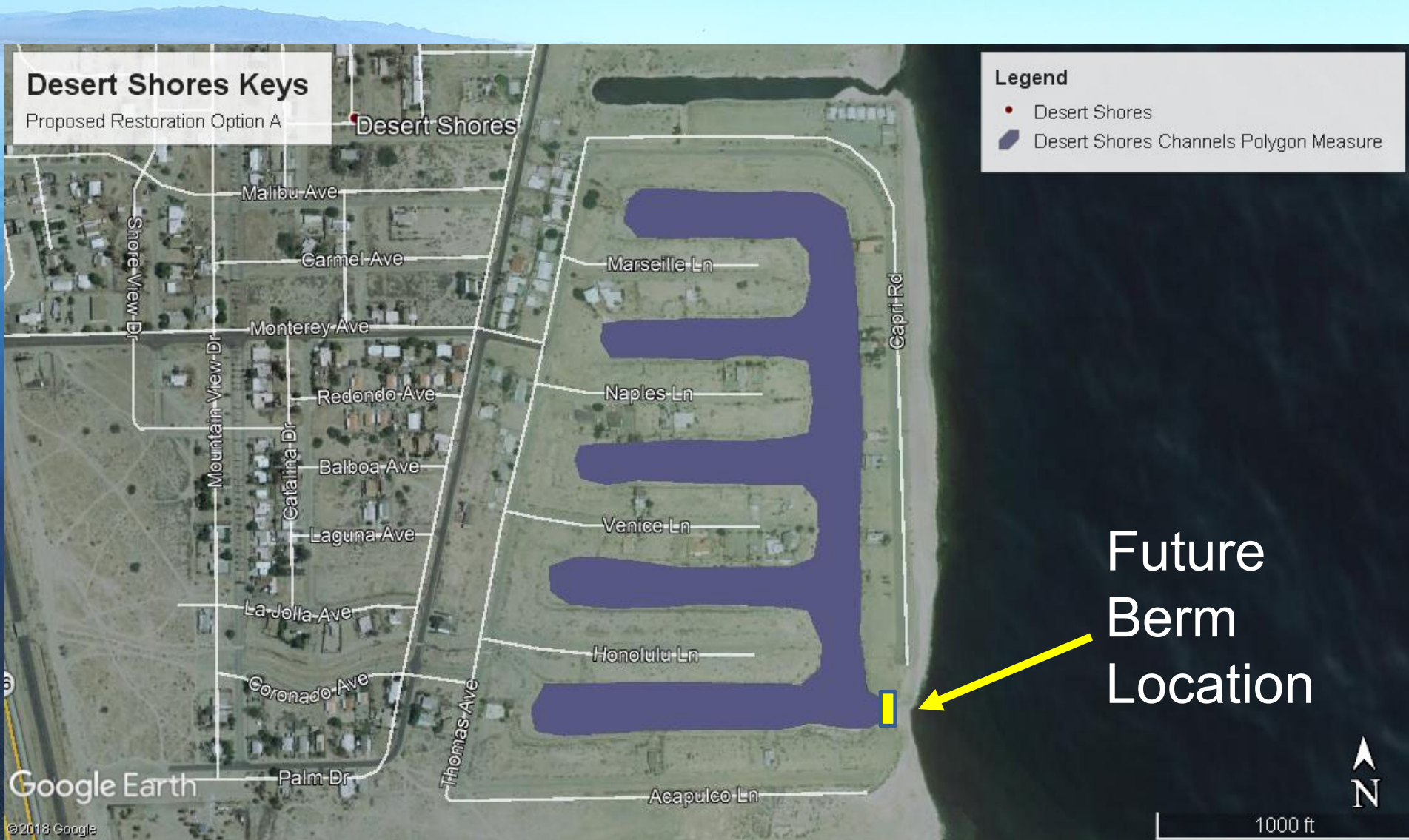
July 2019 Salt crust bottom at Desert Shores Channels.

Cyanobacterial Blooms in the Channels



September 2017 Algal Bloom in Desert Shores Channels.

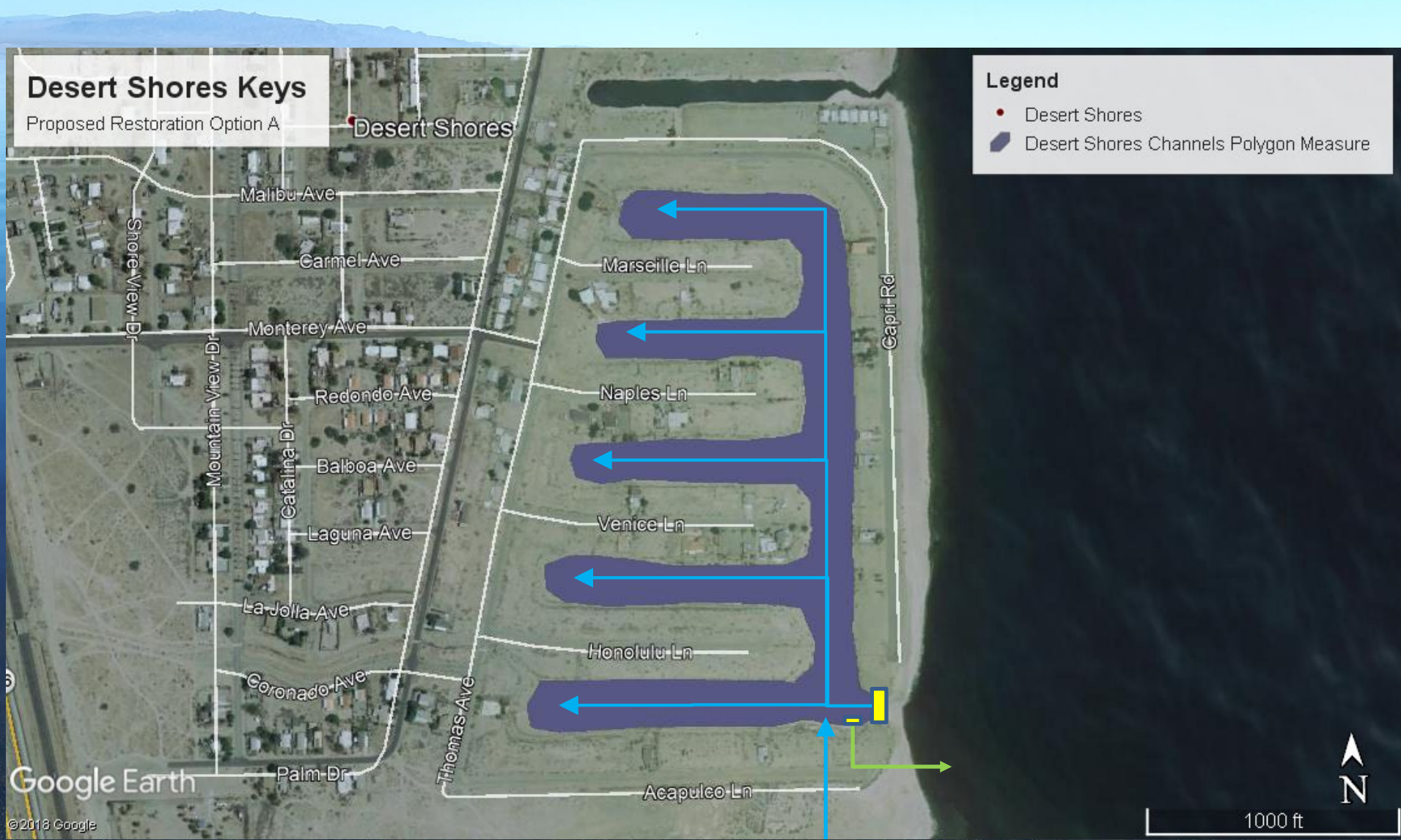
Restoration Phase 1- Build a berm and refill the Channels to Restore the Local Environment



Restoration Phase 1- Berm location across the former boat channel to the Salton Sea



Restoration Phase 1 - Water Circulation in Channels



Channel Pumping Requirements

Channels total surface area = 25 acres

Evaporation Loss = 141.7 acre-feet/year

22.8 af/month at summer peak

Seepage Loss = 34.2 acre-feet/year

Overflow to Sea = 141.7 acre-feet/year

Total Average Rate of Channel Water Loss = 317.6 af/yr

Avg. Pumping Rate Requirement = 1.25 acre-feet/day

or 407,240 gallons/day

Avg. Pump Capacity Requirement (Daylight only) = 1,234 gallons/minute

Avg. Pump Capacity Requirement (24 hr power) = 283 gallons/minute

Design & Permitting Project Schedule

High Level Task	Qtr3 2022			Qtr 4 2022			Qtr 1 2023			Qtr 2 2023			Qtr 3 2023		
Task 1. Project Management															
Task 2. Project Engineering Design															
Task 3. Community Outreach															
Task 4. Assessment of Habitat Model and Water Treatment Process															
Task 5. Phytoremediation and Aquatic Decontamination Testing															
Task 6. Environmental Documentation CEQA, NEPA															
Task 7. Permitting															



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Board Questions or Comments?

