

Salton Sea Air Quality Mitigation Program

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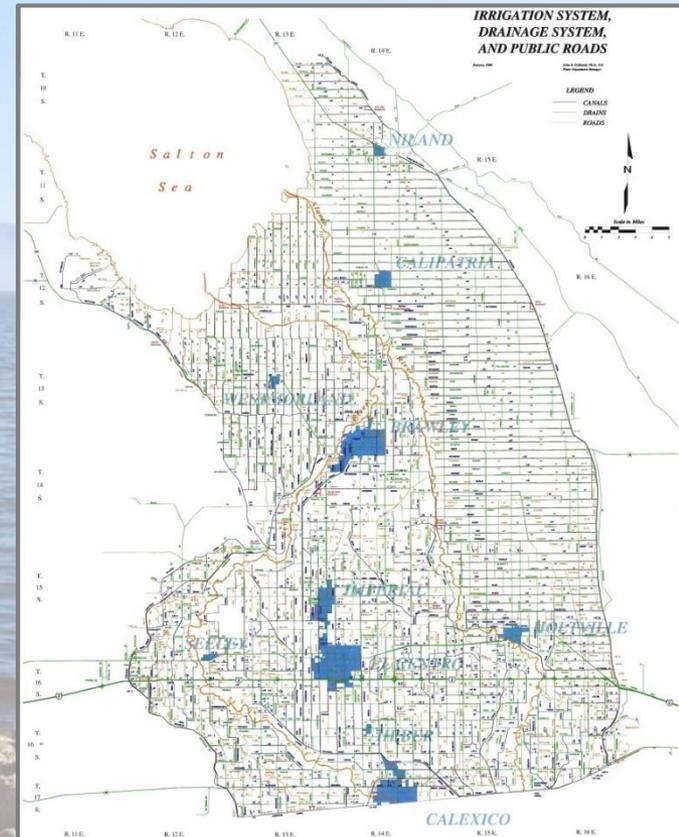
IID

A century of service.

Imperial Irrigation District

“The Imperial Irrigation District is a fiscally responsible public agency whose mission it is to provide reliable, efficient and affordably priced water and energy service to the communities it serves.”

- Energy provided to Imperial Valley and parts of southern Coachella Valley
- Water delivered to 148 miles of main canals and 1,442 miles of laterals, with 1,457 miles of surface drains



IID's Water Supply & Service Area

- 3,100,000 acre-feet annual Colorado River consumptive use entitlement
- 1,061,637 gross acres within boundaries
- 520,307 total acreage receiving water
- 472,818 total farmable acreage
- 451,015 total acreage in crops



Salton Sea

- Congressionally designated agricultural sump for IID and CVWD
- Almost 50% saltier than the Pacific Ocean
- 6 foot elevation decline since 2003 despite delivery of mitigation water
- Without transfers, Sea is estimated at turning hypersaline between 2010 and 2025
- With transfers, Sea is estimated to turn hypersaline 1-9 years earlier



QSA Salton Sea Mitigation

- The SWRCB imposed a 15-year (2003-2017) mitigation delivery requirement that was intended to maintain salinity levels for a long enough period of time to study feasibility, determine a restoration alternative and then begin implementation. Mitigation deliveries total up to 800,000 AF over the 15-year mitigation period.
- Mitigation volumes are proportional to the reduced Salton Sea inflows resulting from the conserved water transferred to SDCWA. Mitigation volumes increase as the conversion from fallowing to efficiency-based conservation measures ramps up.

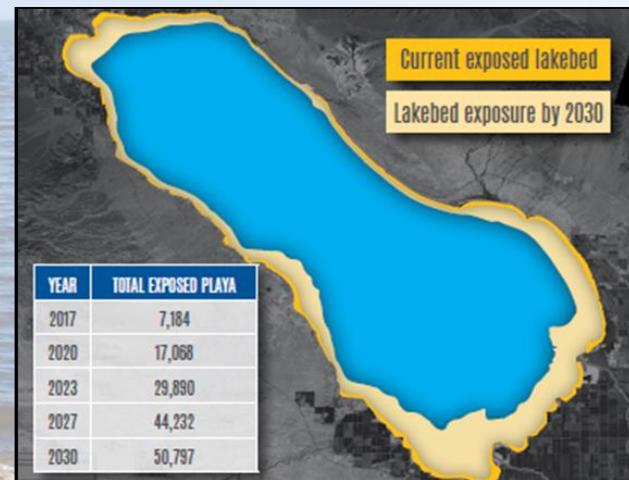
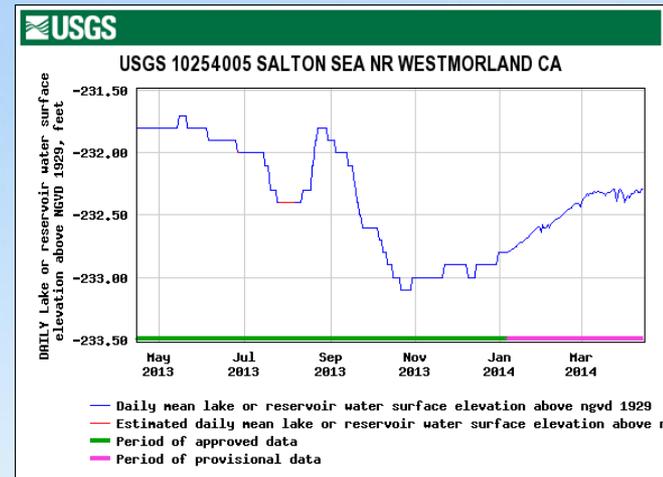
1 AF of efficiency-based conservation = 1 AF of reduced Salton Sea inflow

A Call to Action

- On November 18, 2014 IID, in coordination with Imperial County, submitted a petition to the California State Water Resources Control Board to exercise its continuing authority over the nations largest agricultural-to-urban water transfer.
- On March 15, 2017, more than two years later and less than 10 months of mitigation flows remaining, IID filed a request for a SWRCB evidentiary hearing to ensure the long-term viability of the QSA water transfers and provide for implementation of a smaller but sustainable restoration plan.

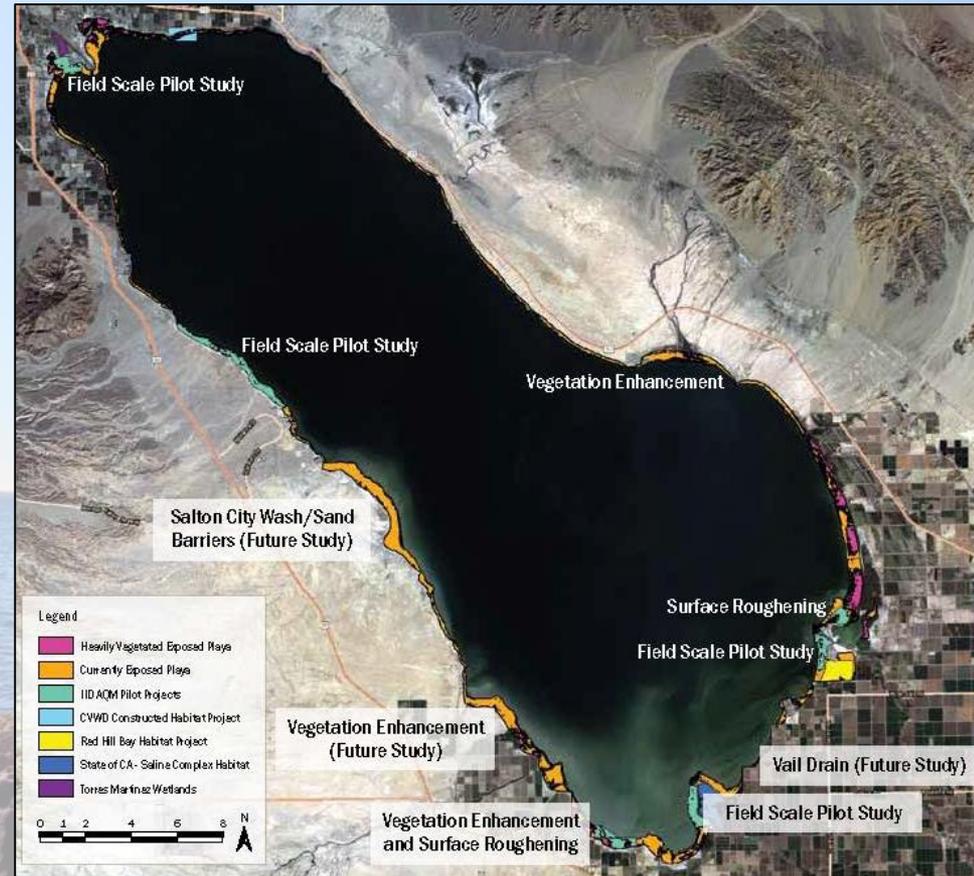
Salton Sea Issues

- Increased salinity
- Water quality
- Air quality impacts
- Receding shoreline
- Potential health and declining habitat value



IID's Salton Sea Air Quality Mitigation Program

- Developed in coordination with Imperial County; a comprehensive, science-based adaptive approach to characterize emissions potential of exposed playa as the Sea recedes and pro-actively implement projects to prevent significant dust emissions
- Pilot testing a range of dust control measures tailored to climate and soil conditions around the Salton Sea
- Identifying measures that can be quickly implemented and scaled to create a stable surface and/or prevent the spread of dust emissions on exposed playa



Air Quality Monitoring



**Salton Sea State Recreation Area
Air Monitoring Station**

Salton Sea Playa Monitoring

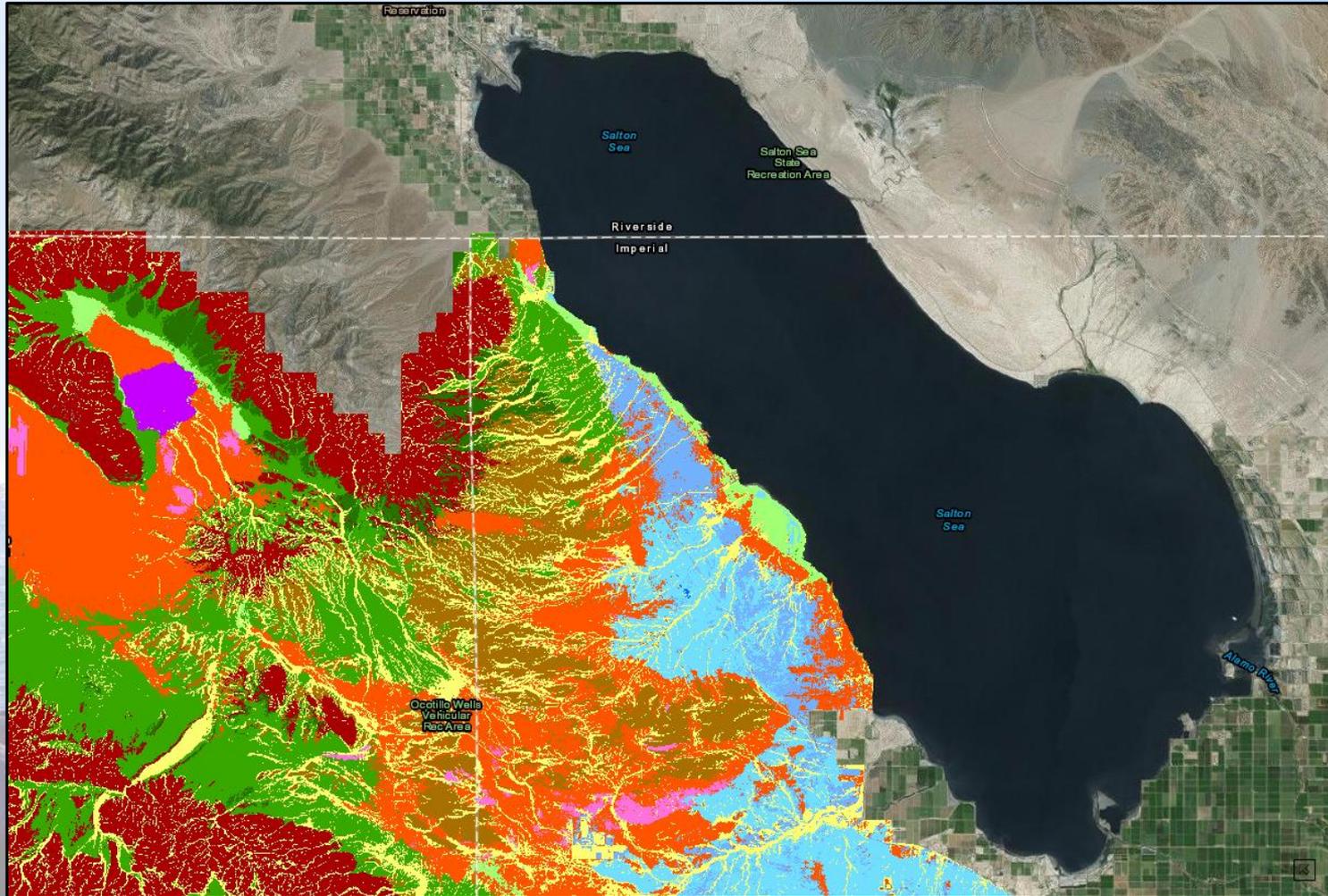


Vegetation Mapping



Portable In Situ Wind Erosion Lab

Off Lake Monitoring



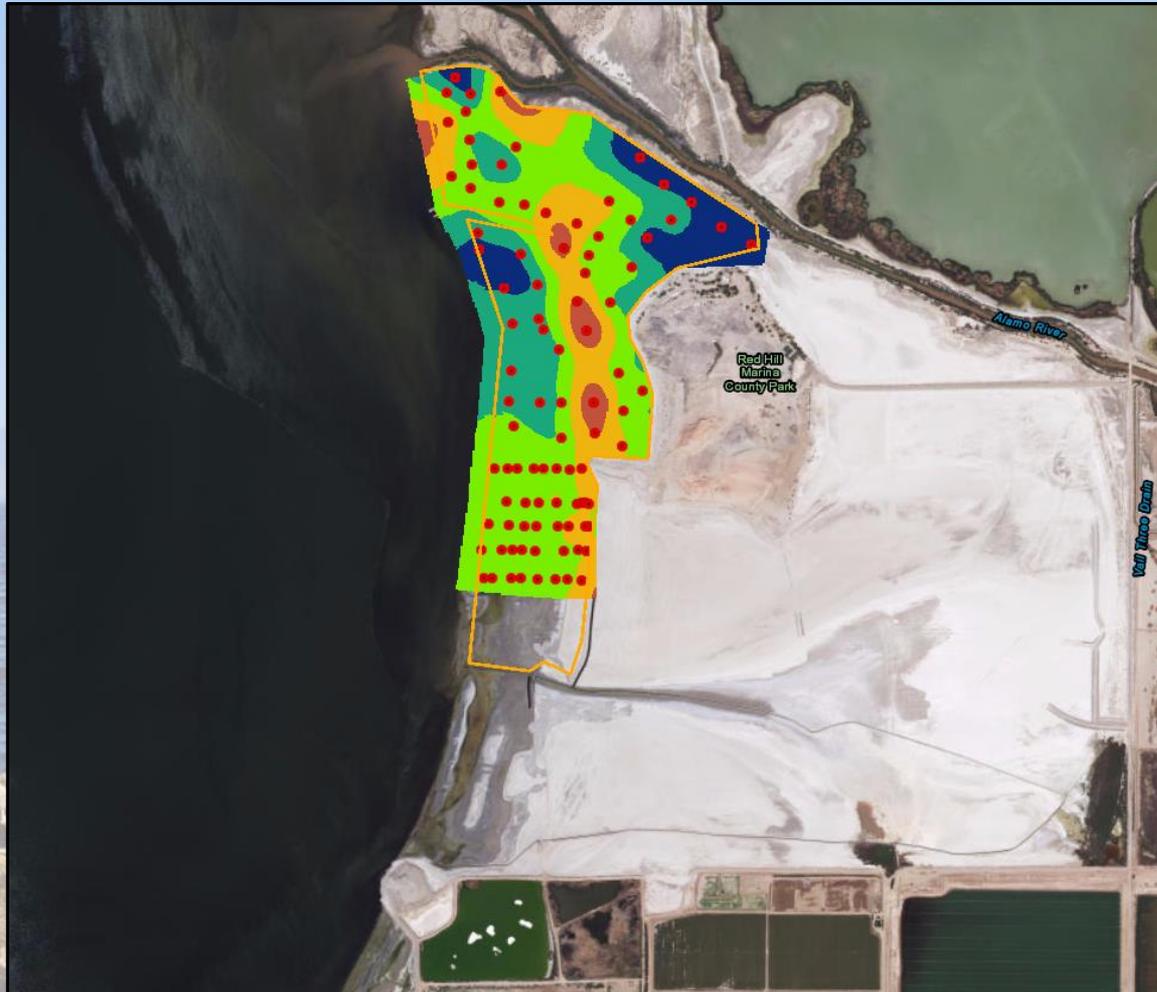
Surface Roughening



Vegetation Enhancement



2017-2018 Field Scale Projects



- Identify area for future project
 - *Air Station Data*
 - *PISWERL*
 - *Surface Characteristics*
- Soil Cores
- EM Soil Data
- Established Vegetation Mapping
- Project Design
 - *Surface Roughening, Veg Enhancement or Both/Other*
- Implementation

www.iid.com/airquality

www.SaltonSeaNow.com



www.facebook.com/SaltonSeaRestorationandRenewablesInitiative