
SECOND WORKSHOP FOR

POSEIDON'S HUNTINGTON BEACH DESALINATION PLANT

PERMIT RENEWAL AND WATER CODE 13142.5(b) DETERMINATION

**PART 4: MARINE LIFE
MITIGATION PLAN**

PRESENTERS:

**HOPE SMYTHE
JAYNE JOY
TERRI REEDER
DANIEL ELLIS**

ITEM NO. 3

MAY 15, 2020

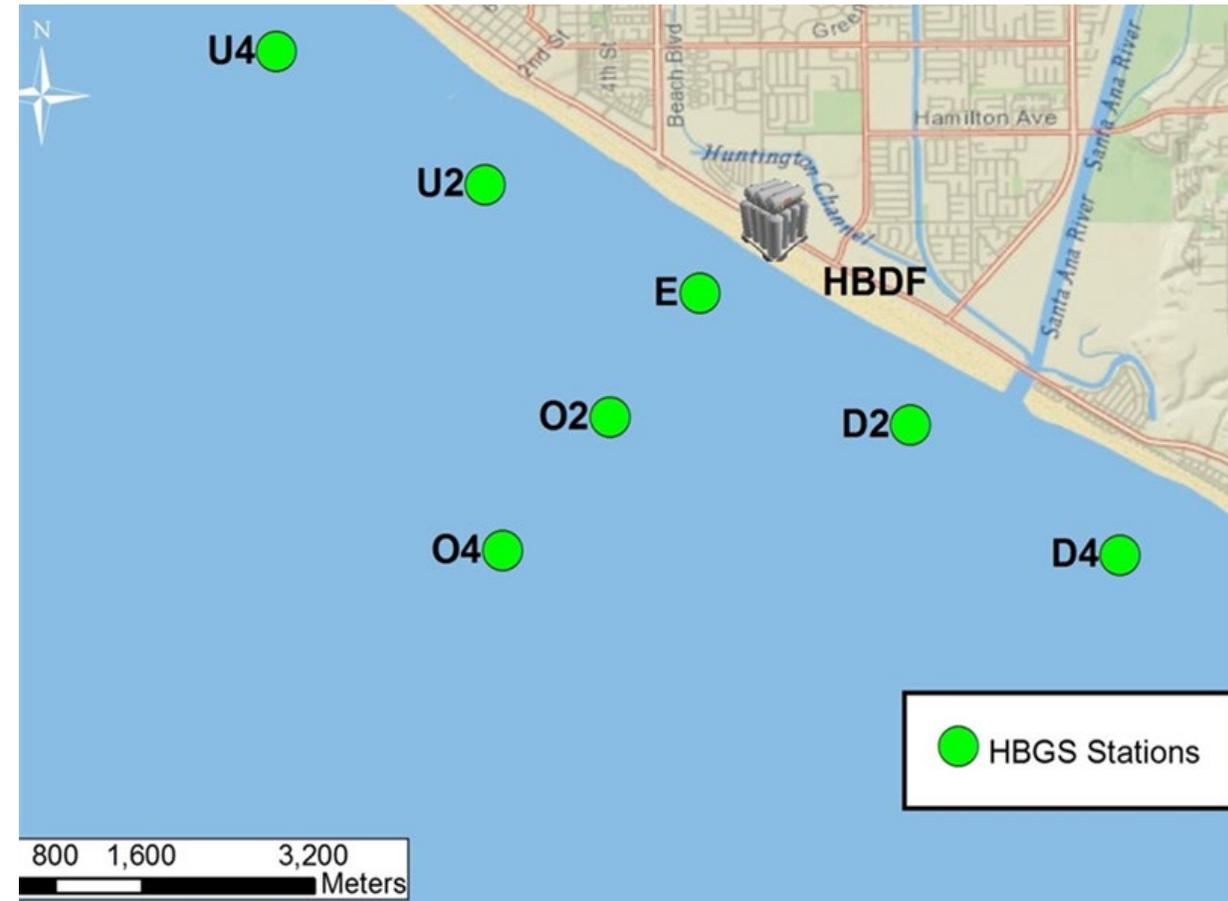


MARINE LIFE MITIGATION REQUIREMENTS

- MITIGATION REQUIRED FOR THE PROPOSED FACILITY
- PROPOSED MITIGATION PROJECT AND CONDITIONAL PERMIT

2003-2004 AES HUNTINGTON BEACH DATASET

- The 2003-2004 dataset provided sufficient data to conduct a robust ETM/APF analysis for Station E (Raimondi, March 2019)
- CCC and Poseidon calculated APFs using the 2003-2004 dataset; Regional Board staff used the average of these
- Final APF for Station E: 421.4 acres



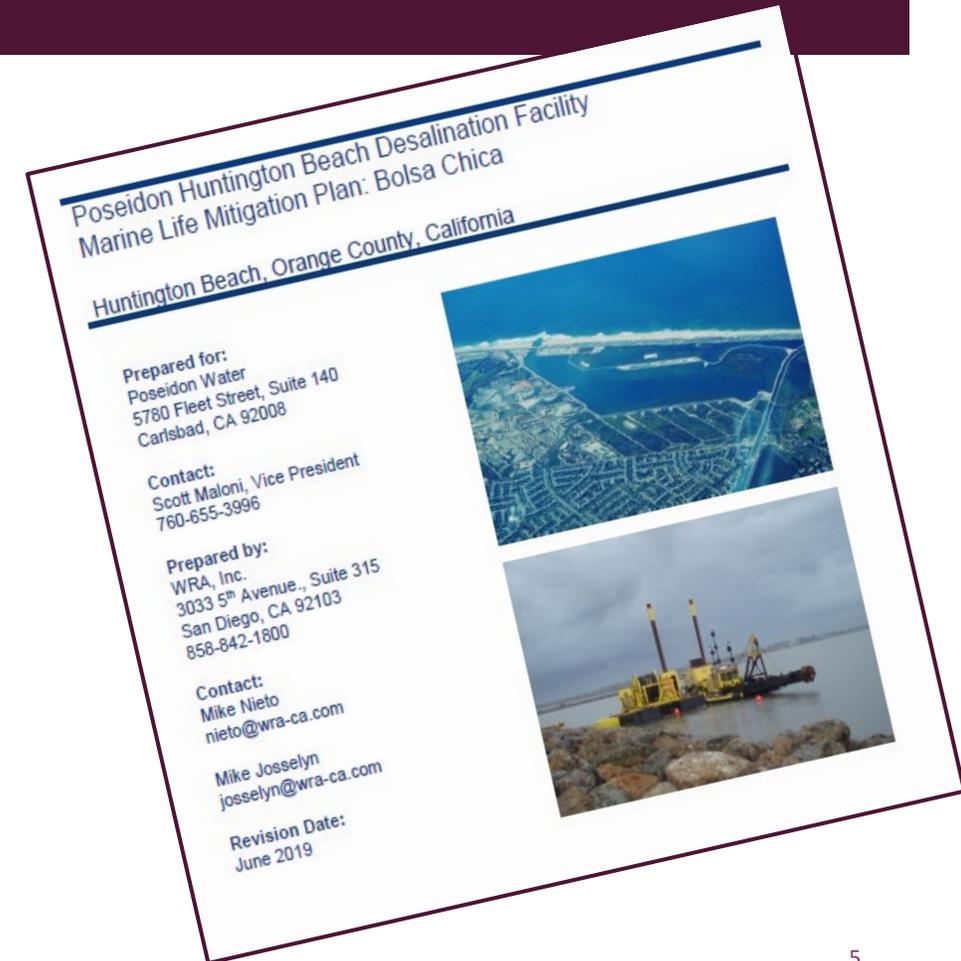
APPLYING A MITIGATION RATIO TO THE APF (APF SCALING)

- Using information provided by NOAA Fisheries staff, Water Board staff determined that a mitigation ratio of 1:4.5 was appropriate for out-of-kind mitigation.
 - Adjusted value for shallow, soft bottom habitat by 30% as recommended by NOAA Fisheries staff and the Bond Paper
- Application of the 1:4.5 mitigation ratio to the APF for soft-bottom species resulted in an adjusted APF of 109.5 acres

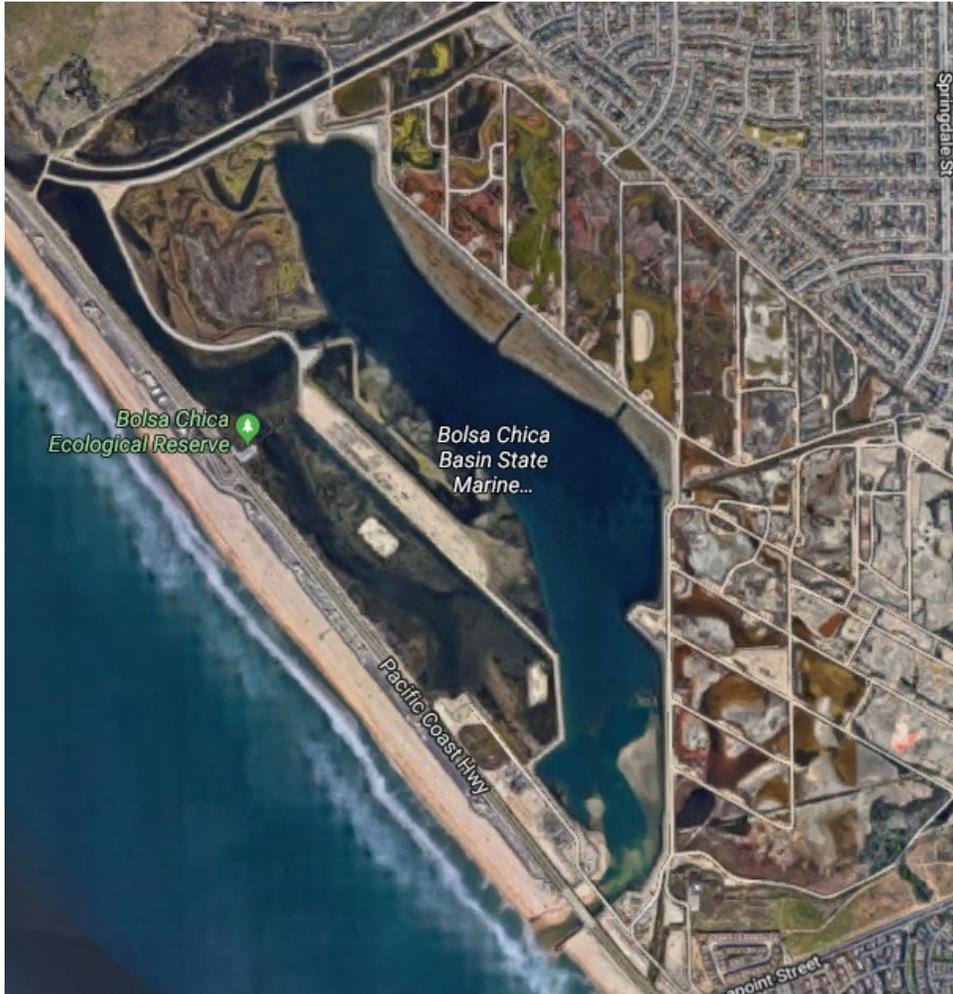


MARINE LIFE MITIGATION PLAN (MLMP)

- The Discharger submitted their MLMP



BOLSA CHICA MITIGATION



BOLSA CHICA MITIGATION – FIELDSTONE PROPERTY



 Fieldstone Restoration Sites (12.17 ac.)

 Culvert

 Contour Lines 1/4 FT.

Biological Communities

 Ruderal (0.27 ac.)

 Open Water (1.03 ac.)

 Salt Marsh (4.92 ac.)

 Barren / Salt Pan (5.95 ac.)

BOLSA CHICA MITIGATION – OIL PADS/ROADS

- ~1.2 acres of restoration



 Oil Pad Sites (1.34 ac.)

 Contour Lines 1/4 Ft.

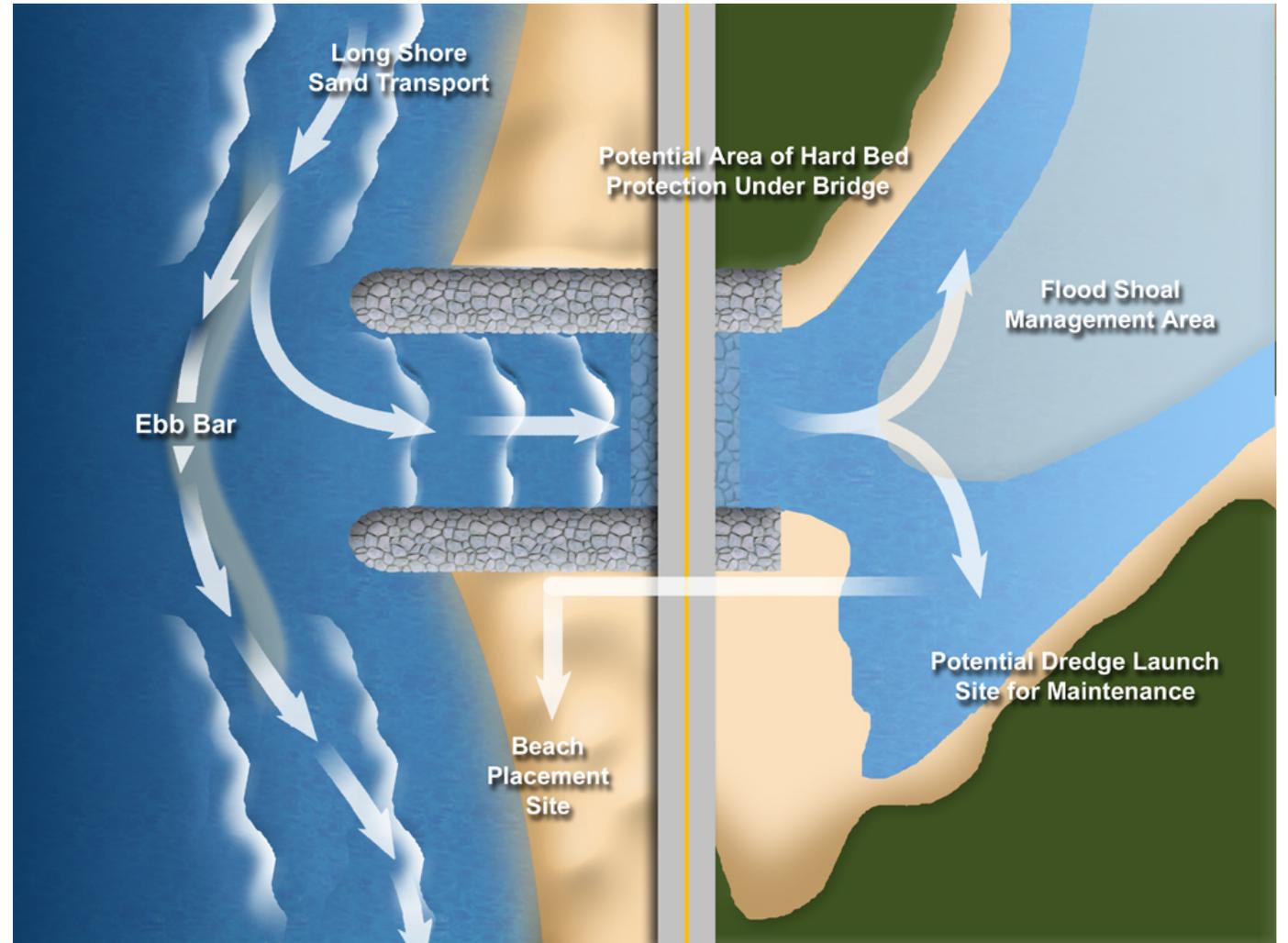
Biological Communities

 Ruderal (1.34 ac.)

BOLSA CHICA MITIGATION – MUTED TIDAL BASINS WATER CIRCULATION ENHANCEMENT



BOLSA CHICA MITIGATION – INLET MAINTENANCE DREDGING



MITIGATION

Activity	Acres
Fieldstone	4.5
Oil Pads/Roads	1.2
Muted Tidal Basins	15
Inlet Dredging	108
Total Acres of Mitigation:	129

ATTACHMENT K (TENTATIVE ORDER)

Tasks	Due Date
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BOLSA CHICA MITIGATION PROJECTION



DECISION POINTS

Issue	Comments	Recommendation
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NEXT STEPS



NEXT STEPS



Staff is reviewing comments, developing responses to comments, and revising the documents, as appropriate

Tentative Order 2020-0005 and Water Code 13142.5(b) determination will be presented to the Board for adoption at the Regular Board meeting on July 31, 2020