



**Mike Johns, PhD**

Toxicology Consultant

to

San Diego Unified Port District

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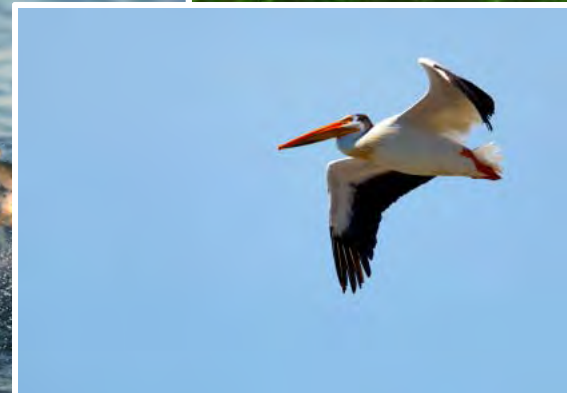
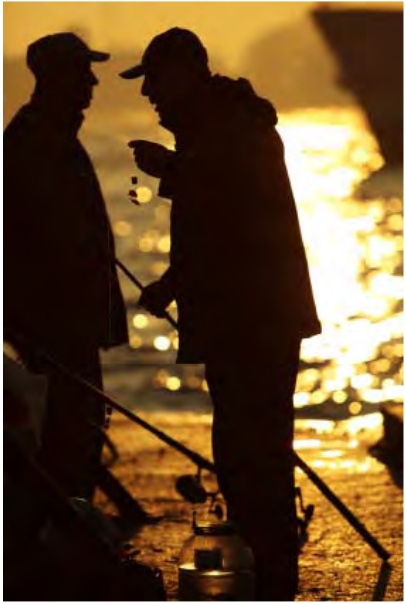
# Sufficiency of DTR

- RWQCB considered information typical to sediment investigations
- Analysis is consistent with acceptable practice
- Would do some analysis differently
  - Fisher exposure includes catching fish outside site
  - Consider inclusion of additional polygon
  - Additional analysis of another polygon

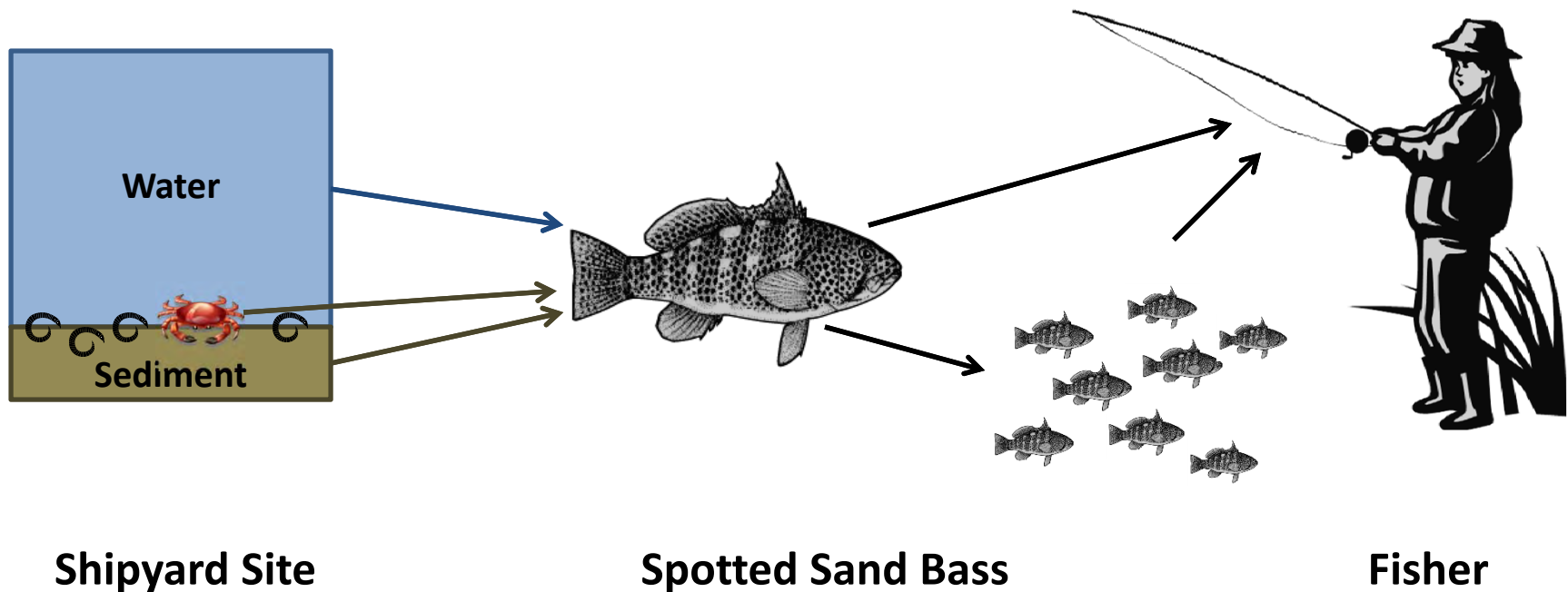
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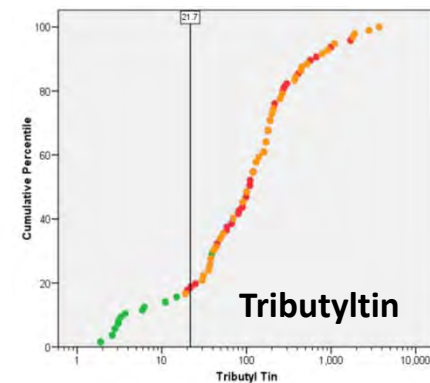
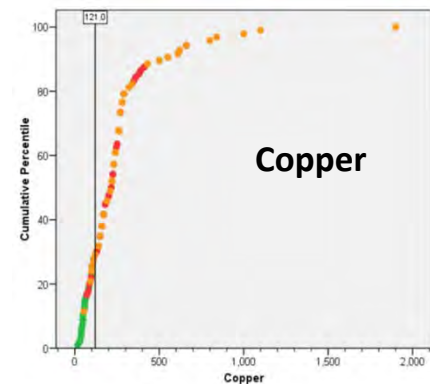
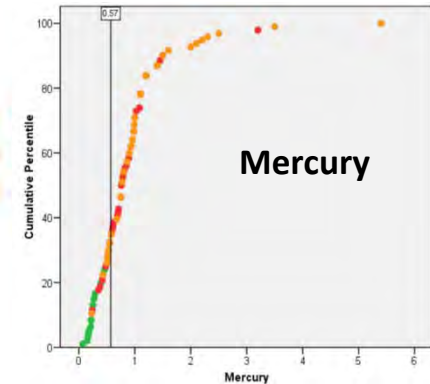
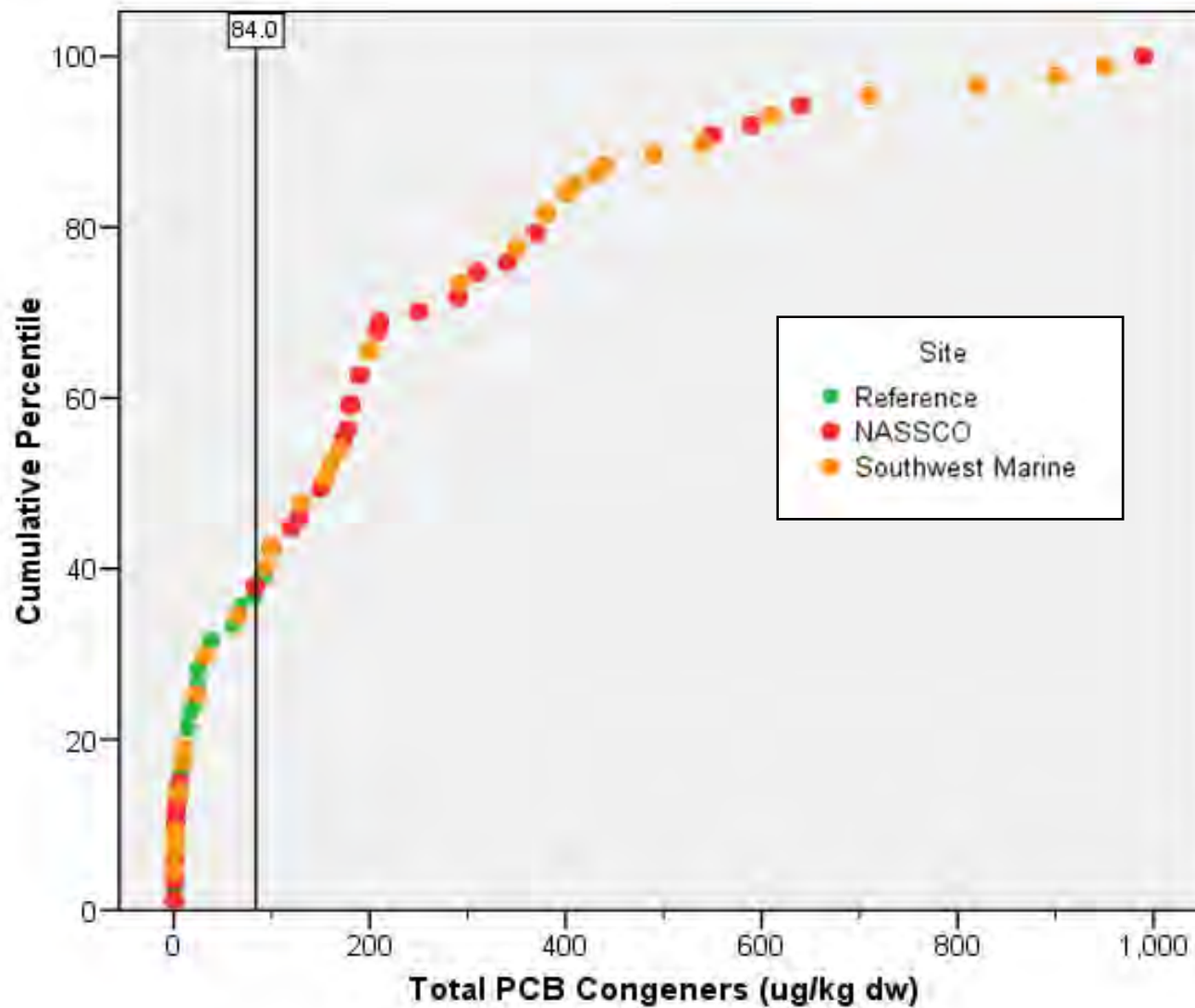
# Beneficial Uses



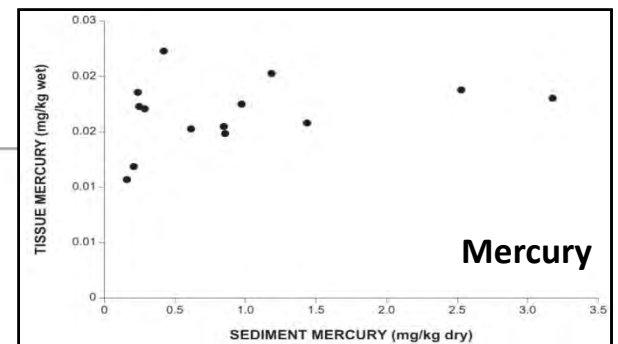
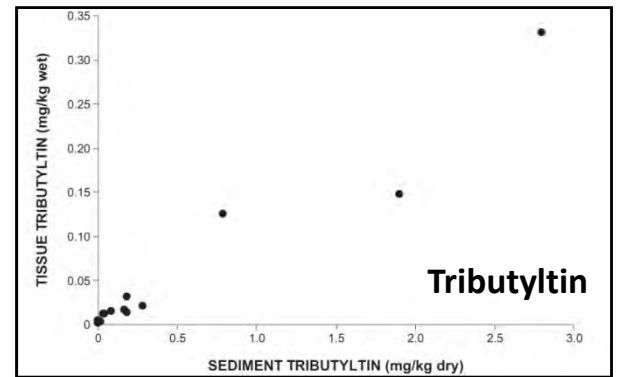
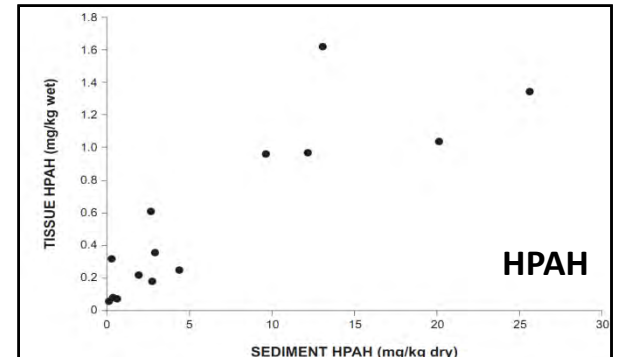
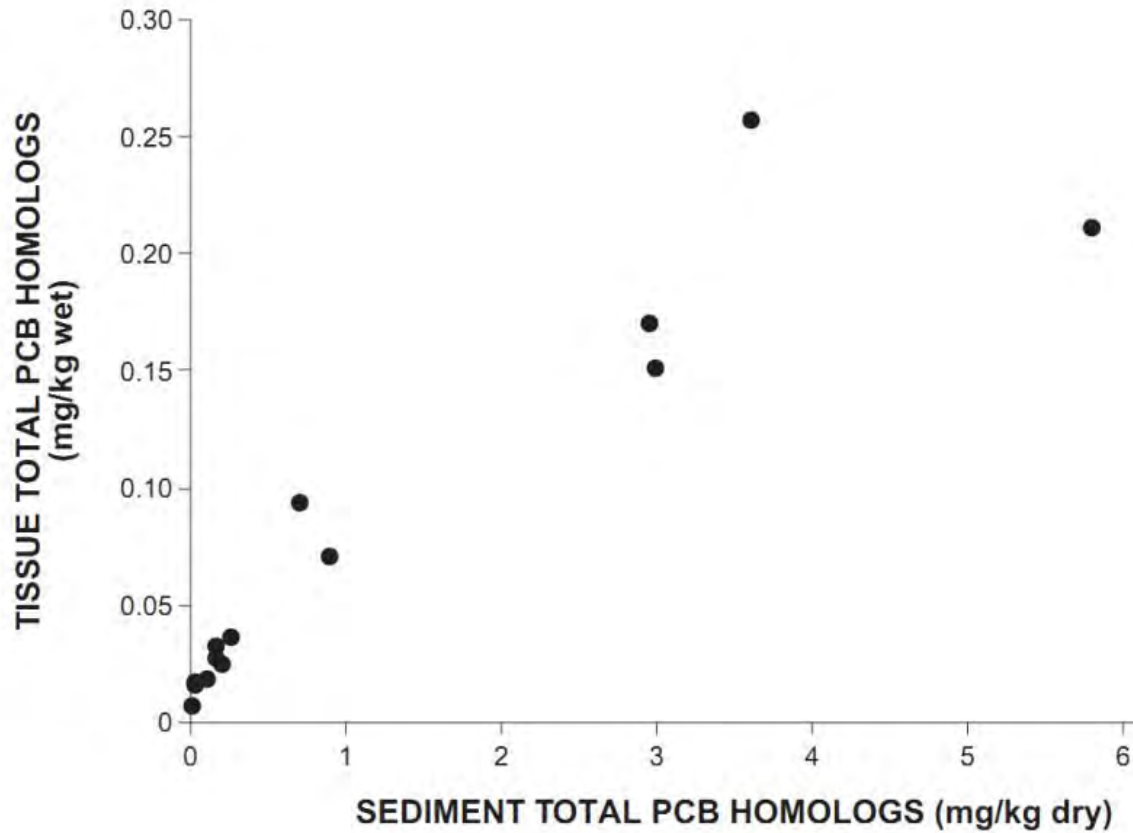
# Exposure pathway conceptual model



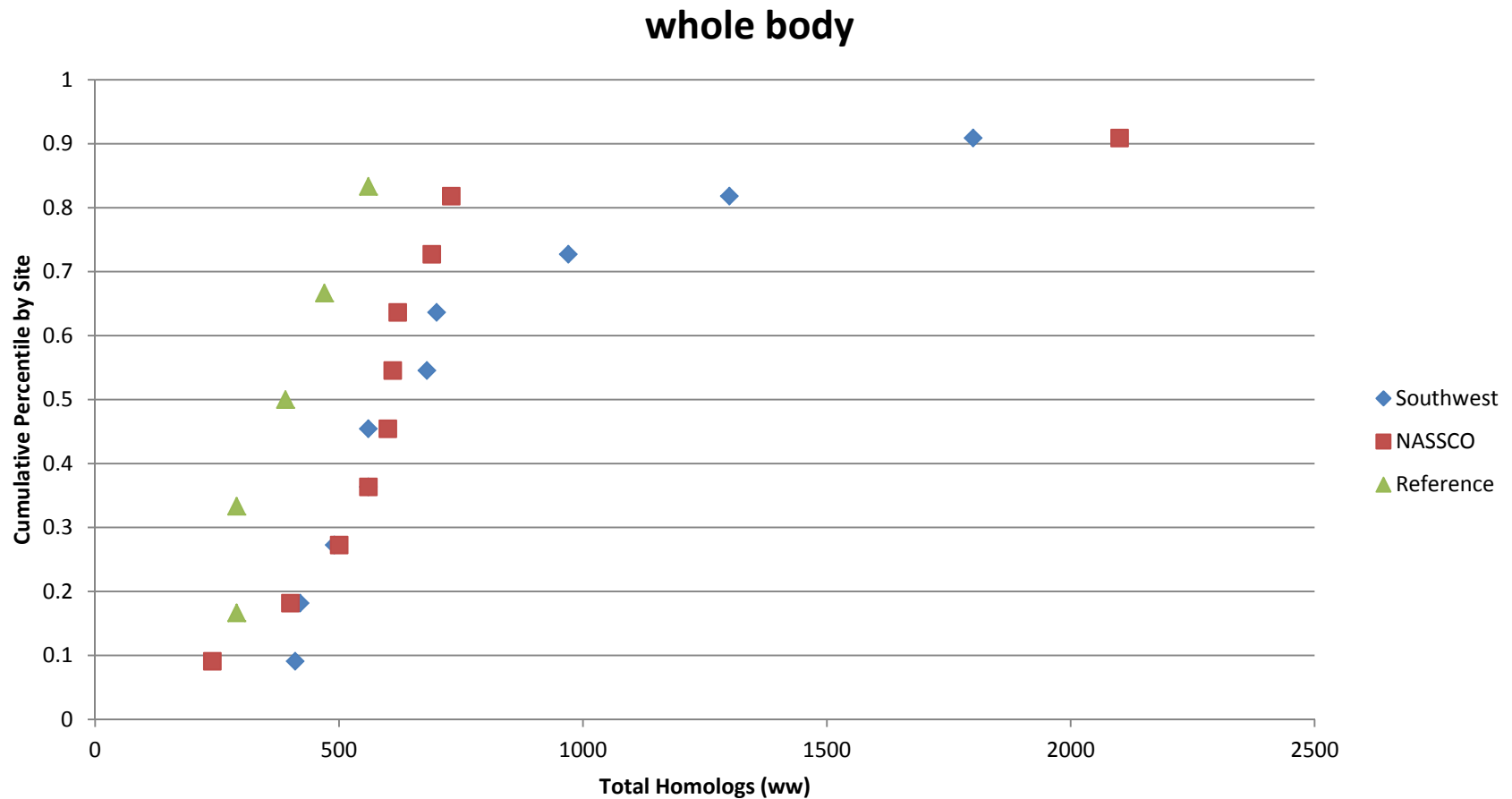
# Shipyards sediment concentrations are high



# Shipyard chemicals can accumulate in aquatic animals

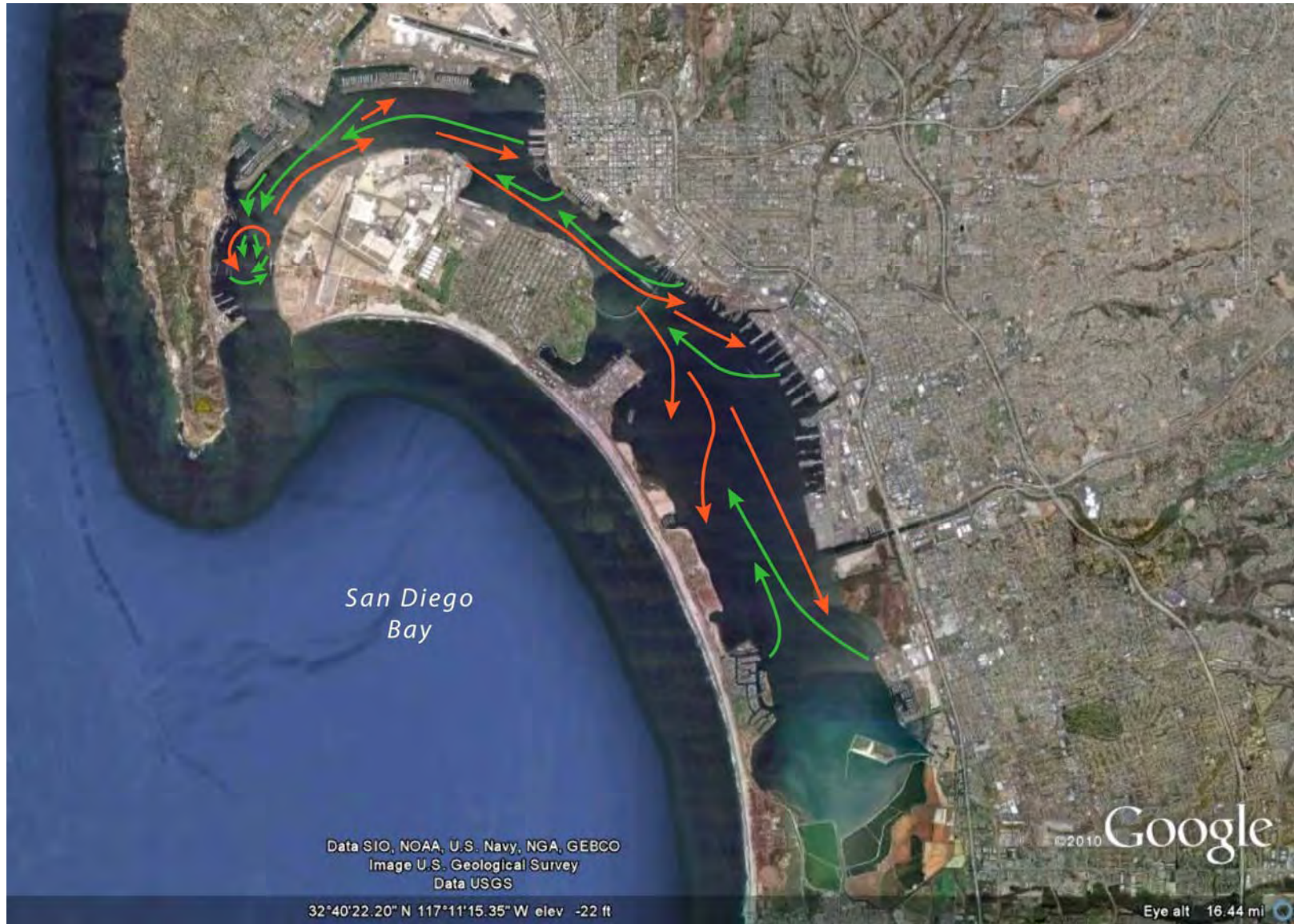


# Fish tissue concentrations exceed concentrations in reference fish





# Spotted sand bass



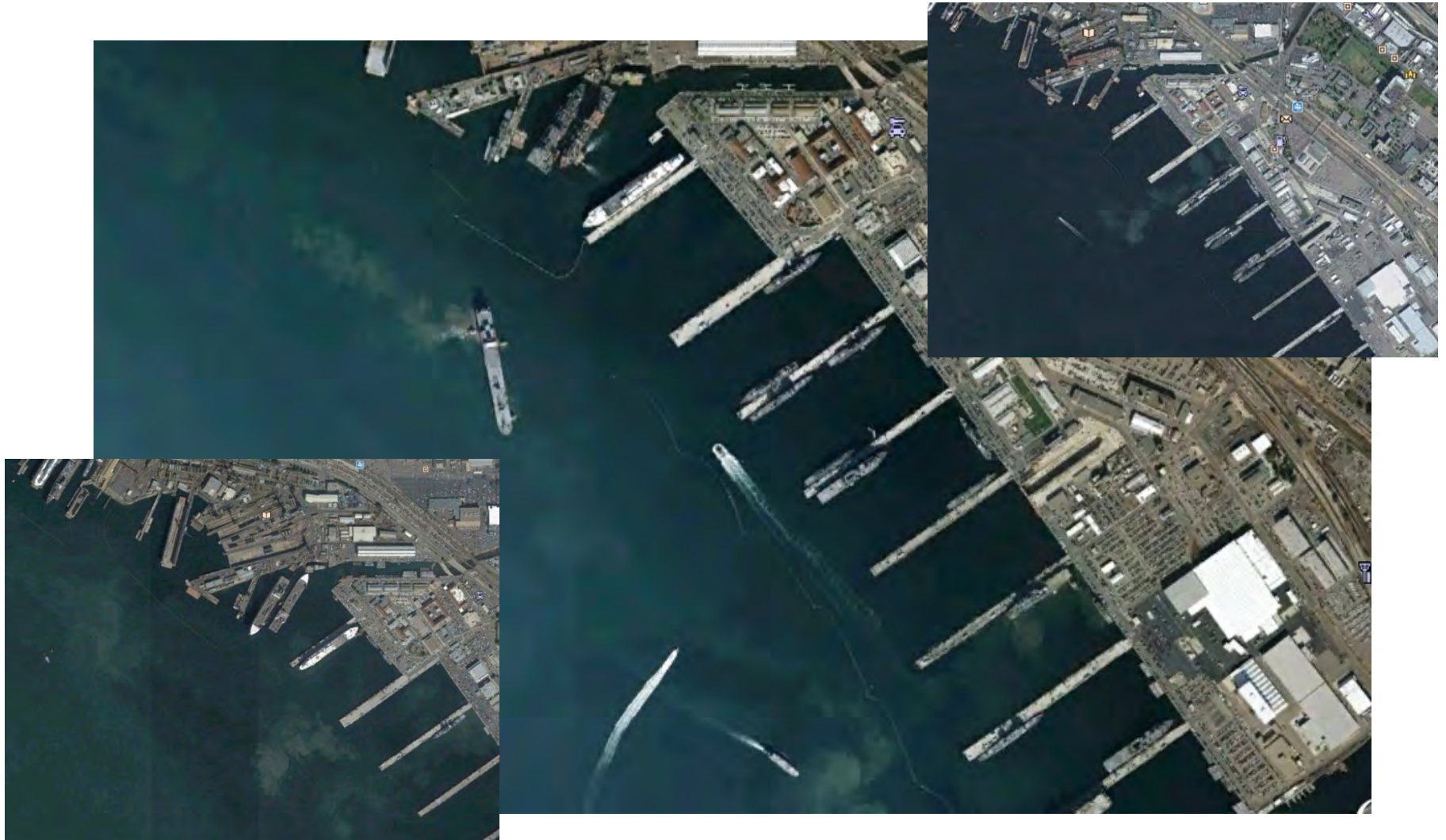


# Fisher interactions



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# Sediment re-suspension with engine testing and docking





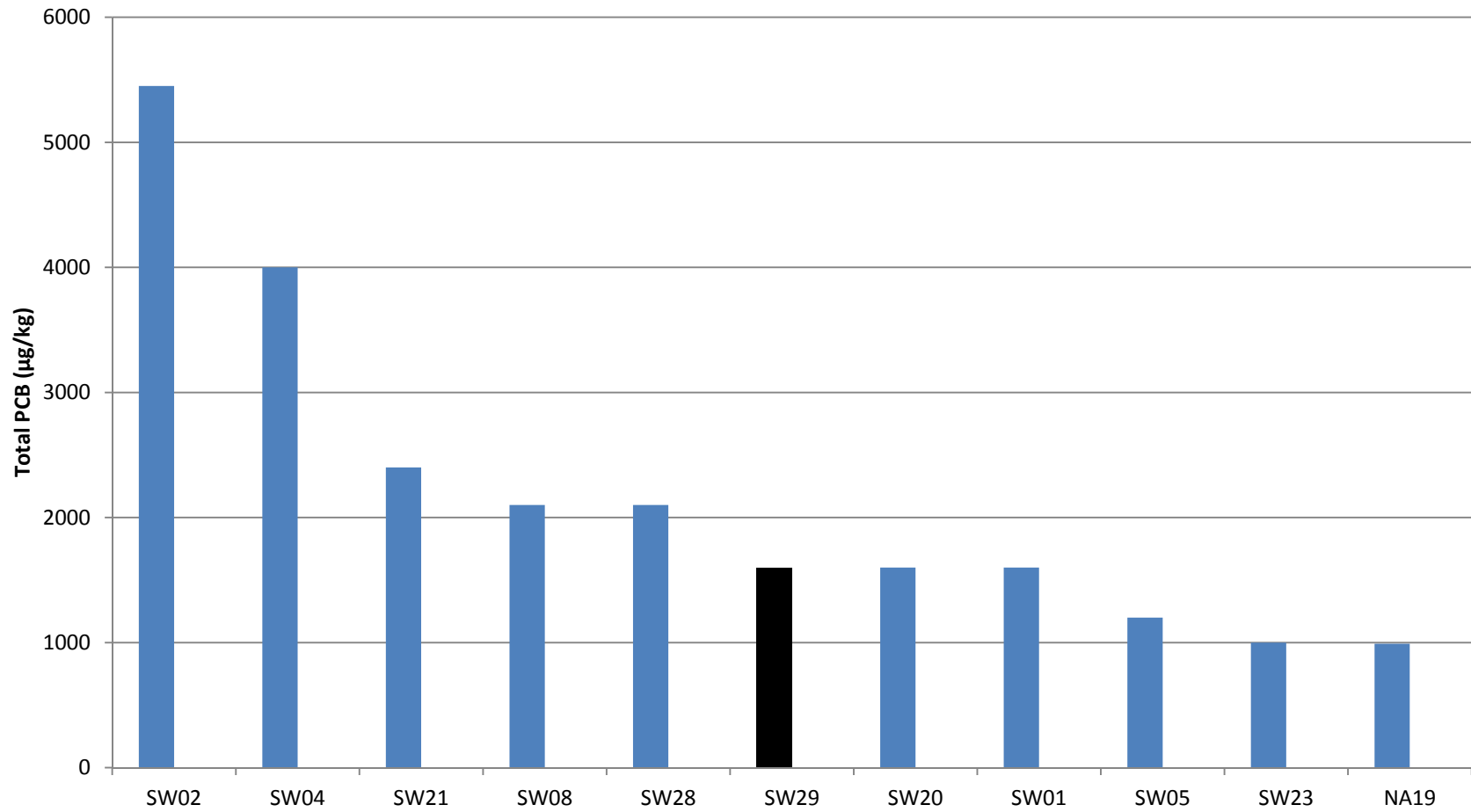
# Polygon SW 29



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# Rank of SW 29



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# Incremental cleanups are important to preserving beneficial uses of the Bay

