Agenda Item 2021-0132

[DRAFT] Shelter Island Yacht Basin Dissolved Copper Total Maximum Daily Load (TMDL)

September 14, 2021





SAN DIEGO

Agenda 2021-0132

Presentation and Direction to Staff

- A. Informational Update on a Proposed Pause of In-Water Hull Cleaning of Vessels With Copper-Based Antifouling Paint in Shelter Island Yacht Basin for an Eight-Week Period Starting Approximately Mid-December 2021 and Continuing Through Mid-February 2022, and
- B. Direction to Staff on a Draft Amendment to Section 4.14 of the District Code, Regulation of In-Water Hull Cleaning, To Implement the Temporary Pause



Project Partnership

David Gibson, Executive Officer, San Diego Regional Water Quality Control Boot

- Regional Board's role is to preserve, enhance and restore the quality of California's water resources
- Establish regulations when waters do not support beneficial uses
- Share mutual concerns about TMDL
- Regular coordination with the Port
- Project partner for Hull Cleaning Pause



TMDL Compliance



Copper levels in Shelter Island exceeds 3.1 µg/L state regulatory standard



Per TMDL Copper Antifouling Paint is primary source via

- Passive leaching
- In-Water Hull Cleaning

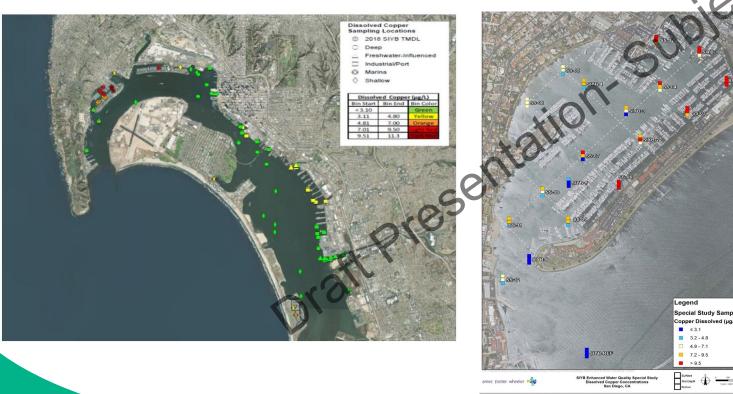
76% reduction required by 2022

District, marinas & yacht clubs, hull cleaners, and boaters are named dischargers

PORT of SAN DIEGO

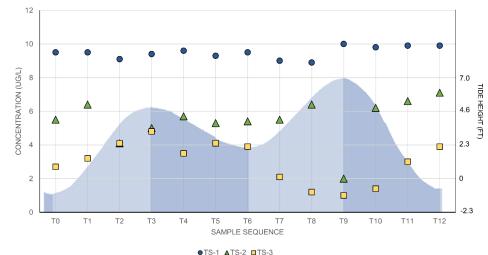
Water Quality- What We Know

- <u>Bay-wide water quality</u>: marinas have higher dissolved copper concentrations, especially in SIYB
- In SIYB:
 - Copper concentrations well studied in SIYB
 - Water column is relatively consistent, slightly lower concentrations at bottom depths
 - Tidal influences examined within inner, mid, and outer portions of SIYB



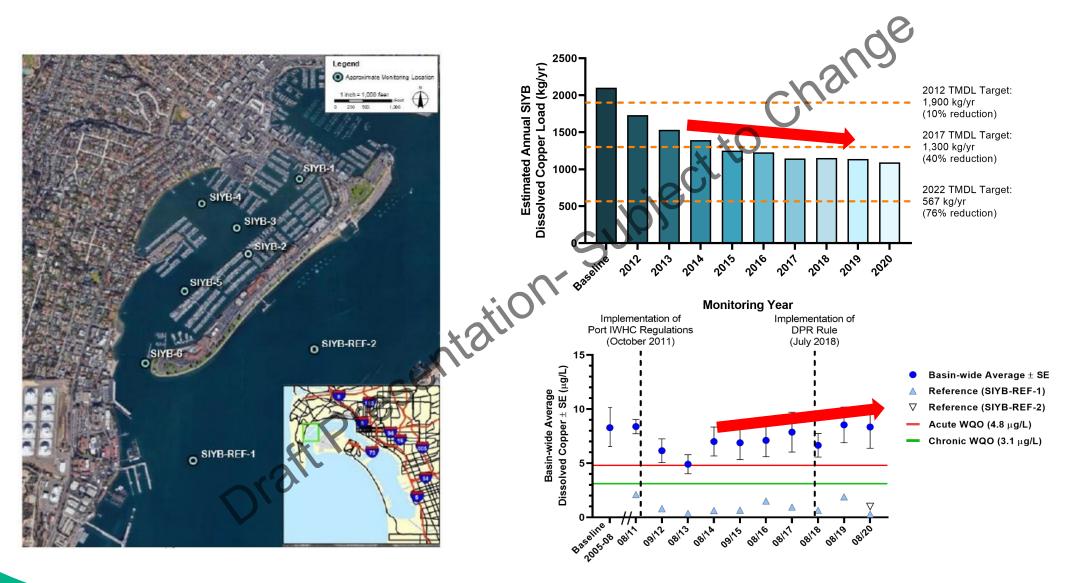
2018 SIYB Time Series Study Surface Water Dissolved Copper Concentrations January 3-4, 2018

-nane





SIYB Water Quality and Loading Disconnect



In-Water Hull Cleaning & Water Quality

Recent Scientific Studies

- 2019 Conceptual Model Review (Wood): adjusting hull cleaning frequencies and practices will reduce conner locate to improve to improve water quality
- 2021 Study 319 Report: Monitoring of Dissolved Copper in California Coastal Waters (Dept of Pesticide Regulation): concluded hull cleaning may contribute 45% greater load compared to no cleaning

Blue Economy Incubator Findings

- Boatwash evaluated water quality effects from diver-based cleaning
- Diver-based cleaning can increase copper 5-10x (4-50 µg/L) greater than state standard and effects last 30 days







SIYB Vessel Profile: Hull Cleaning Projections 2,169 vessels in SIYB (2020 TMDL Report) 2,051 with Copper Paint 118 with non-copper/no paint Standard Practice: 15 cleanings/year The Result: 30,7659 year 592 / week 84 / day



Public Engagement Efforts

Ongoing Engagement

- -ubject to change • Port Marina Working Group est. August 2020
- Meetings with divers and boatyards
- Hull cleaning surveys- February 2021

Incorporating Feedback

• Key issues: length of the pause, economic impact, vessel upkeep

Agency Support

- Worked with Regional Board on water quality testing plan
- CA Dept. of Pesticide Regulation finds the pause valuable to statewide efforts



In-Water Hull Cleaning Pause

biect to change Water Quality Testing Component Hull Cleaning Pause Sampling "Post-Pause" Sampling "Pre-Pause" Sampling 8 weeks 4 Weeks 4 Weeks December 19-February 12 November 21-December 18 February 13-March 12 No cleaning copper-based paints **Cleaning allowed Cleaning allowed** SIYB Only Weekly Water Quality Sampling in SIYB Weekly Water Quality Sampling in SIYB ٠ Weekly Water Quality Sampling



In-Water Hull Cleaning Pause

Water Quality Testing Component





Draft Ordinance Amendment

District Code 4.14, Regulation of In-Water Hull Cleaning

- 8 week pause in cleaning of copper-based antifouling paints in SIYB (Subsection E)
- Defines pause period as December 19, 2021 February 12, 2022
- <u>Only</u> Shelter Island Yacht Basin
- Only copper-based antifouling paints
- Includes prohibitions for cleaning
 - ✓ Hull cleaning business & Hull Cleaners
 - ✓ Boaters
 - Marinas
- Provision expires upon conclusion of pause period



Proposed Adjustments

Addressing Stakeholder Concerns

- Schedule Adjustments ۲
 - Race events near end of pause ٠
- **Alternate Cleaning Locations**
- dation subject to change Ability to clean outside of the SIYB if needed ٠
- Maintain underside of boat (metabparts, drive shafts, replacing zincs, etc.) ۲



Staff Request for Board Direction

-ct to change Direction to Staff on a draft Amendment to 4.14 of the District Code, Regulation of In-Water Hull Cleaning, To Implement the vate. Oraft Presentation **Temporary Pause**

Agenda Item 2021-0132

[DRAFT] Shelter Island Yacht Basin Dissolved Copper Total Maximum Daily Load (TMDL)

September 14, 2021



