

Nutrient Watershed Permit

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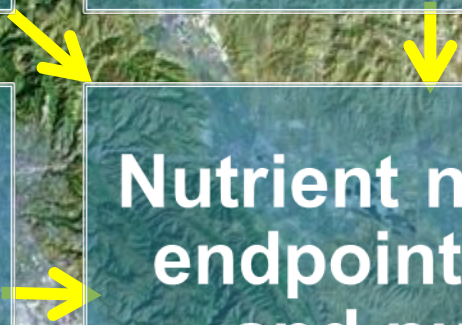
Background

**SF Estuary is
nutrient enriched**

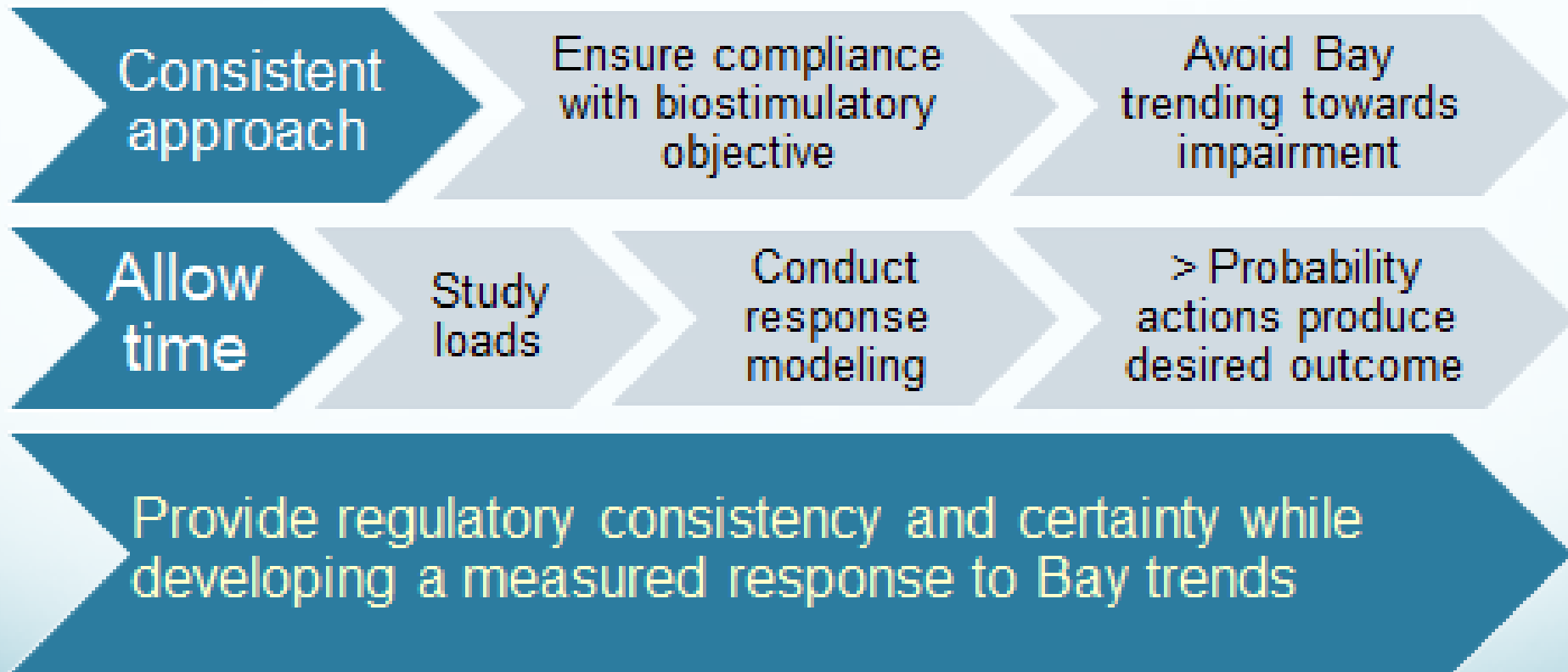
**Low productivity
in Suisun Bay**

**Increasing
phytoplankton and
decreasing DO in
most of the estuary**

**Nutrient numerical
endpoints (NNE)
and nutrient
strategy**



Nutrient Watershed Permit Purpose



Multi-Permit Plan

Now

- Gather information

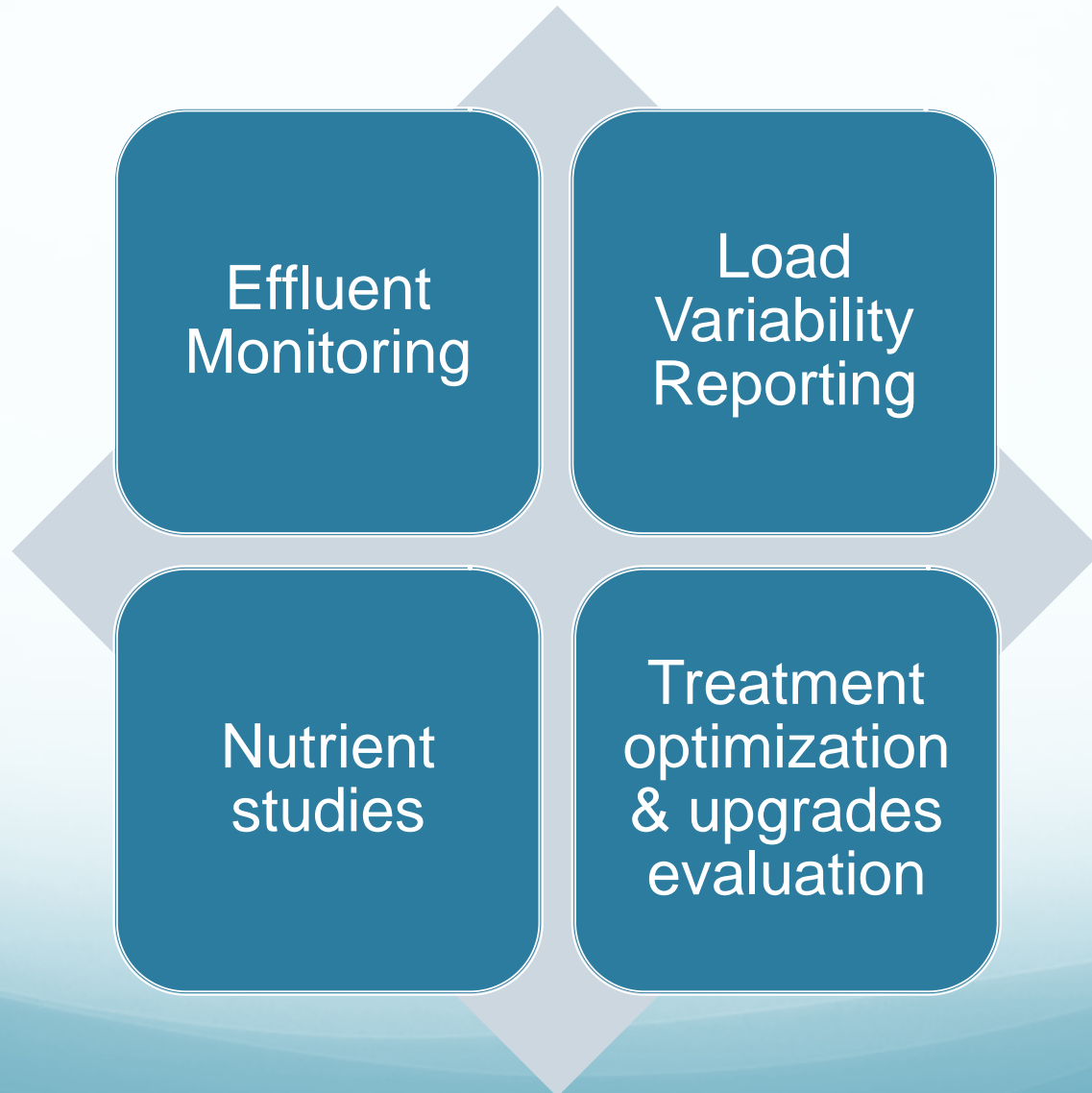
2019

- Continue load response modeling & studies
- May consider performance caps

≥2024

- Refine understanding and analyses
- May consider load reduction, if necessary

Components of First Permit



Monitoring & Reporting

- Understand nutrient loads and variability
- Monitor similar to current effort
- Report on trends and investigate causes of significant changes
- Report as a group, optional

Support Nutrient Studies

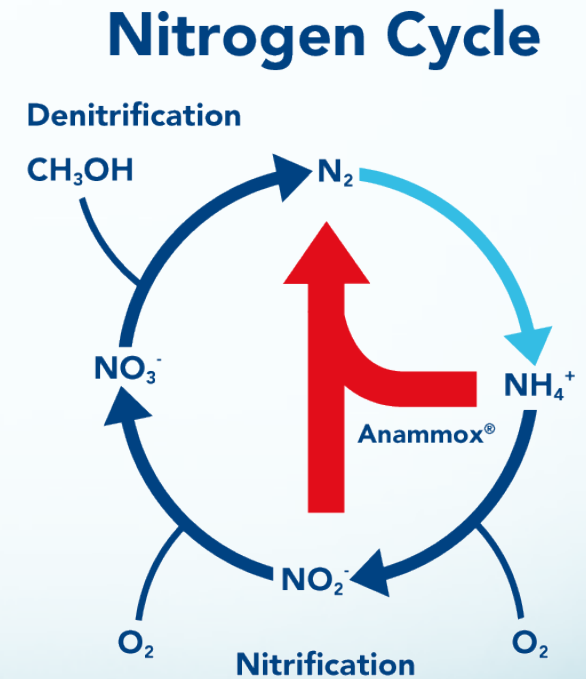
Nutrient studies

- Monitoring, modeling, special studies, data synthesis
- Coordinate via Nutrient Strategy governance structure

Cost allocation to be developed

Evaluate Treatment Plant Optimization and Upgrade

- Understand load reduction options and costs
- Understand possible ancillary impacts
- Inform short and long-term management decisions



Time Line

Next week

Tentative
Order

April 2014

Water Board
Hearing