# Delta RMP Design Workshop

Central Valley Regional Water Quality Control Board

August 15, 2012

# Meeting Goals

- Review past RMP development and describe future implementation process
- Respond to stakeholders' comments on 1st draft of program plan
- Discuss specifics of management questions, governance, budget / funding, and program design approach
- Agree on next steps forward

# Agenda

- Part I
  I. Introductions, meeting outcomes
  II. How we got to where we are now
  III. RMP implementation process
  IV. Comments and responses
- Part II
  I. Expectations for Phase I
  II. Management questions
  III. Governance structure
  IV. Implementation and funding
  V. Design guidelines

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# Meeting Outcomes

- Understand RMP development phases and process
- Address as many reviewer comments as possible
- Achieve more specificity on key issues (management questions, governance, funding, design approach)
- Identify next steps forward

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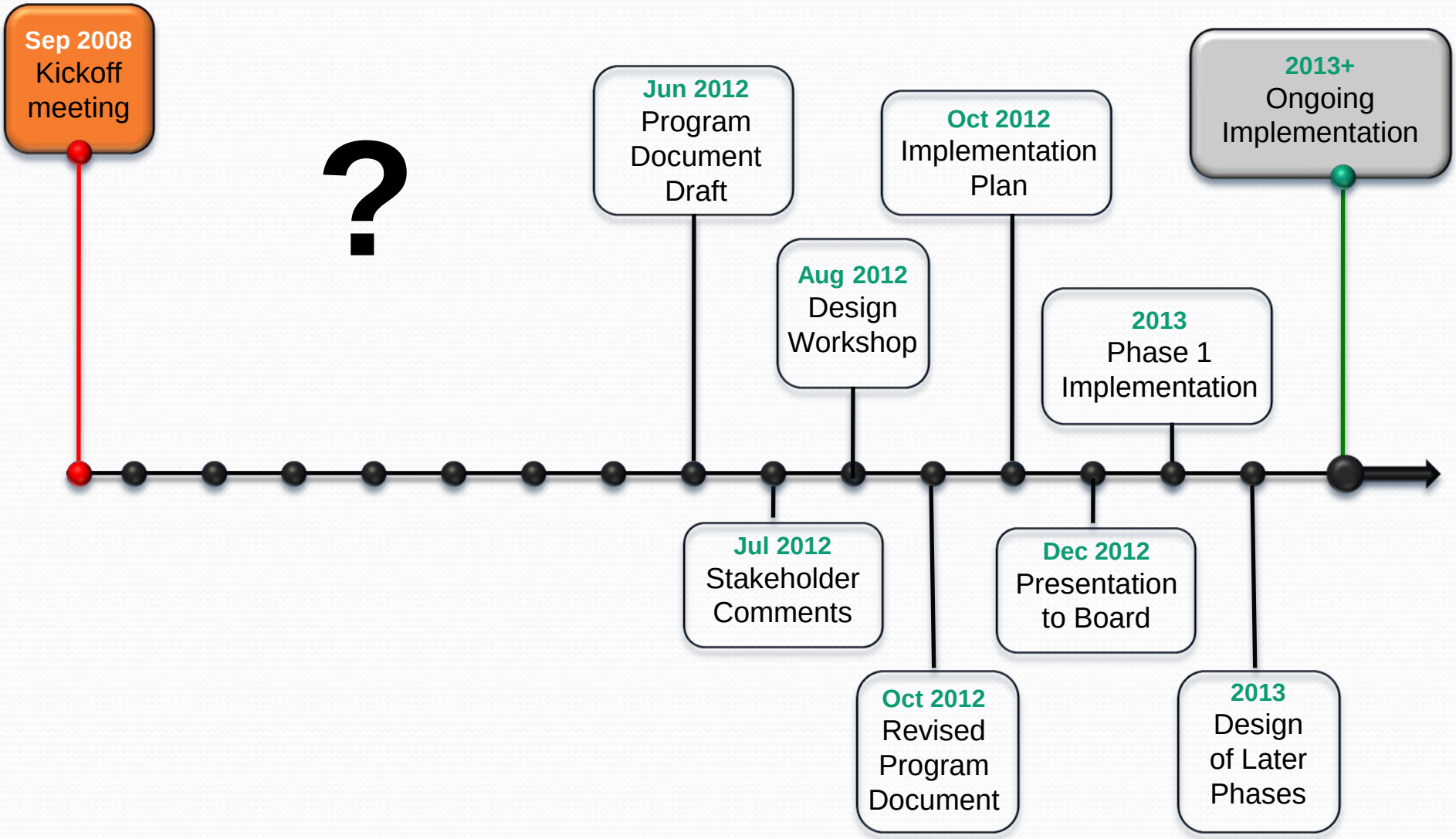

Sep 2008
Kickoff meeting
?
Jun 2012
Program Document Draft
Aug 2012
Design Workshop
Oct 2012
Implementation Plan
2013+
Ongoing Implementation
2013
Phase 1 Implementation
Jul 2012
Stakeholder Comments
Dec 2012
Presentation to Board
Oct 2012
Revised Program Document
2013
Design of Later Phases

## Who came?

**Sep 2008**
Kickoff meeting

- ✓ Agencies
- ✓ Consultants
- ✓ Wastewater Stormwater
- ✓ Ag
- ✓ Water agencies
- ✓ Dredgers
- ✓ Wetland managers
- ✓ Bay RMP

60+ participants

## Primary issues and workgroups

- → Governance
- → Monitoring and assessment questions
- → Data integration and management
- → Coordination with other agencies
- → Funding

**Sep 2008**
Kickoff meeting

➡ **Need more** ⓘ

→ Summary of existing monitoring/directory
→ Contaminants synthesis report

➡ **Regional Water Board to lead pilot phase**

**Nov 2008**
Follow Up Meeting
*Governance Workgroup*

**Sep 2008**
Kickoff meeting

**Nov 2009**
Summary of existing monitoring/directory

**Nov 2008**
Follow Up Meeting *Governance Workgroup*

**May 2010**
Draft Program Plan

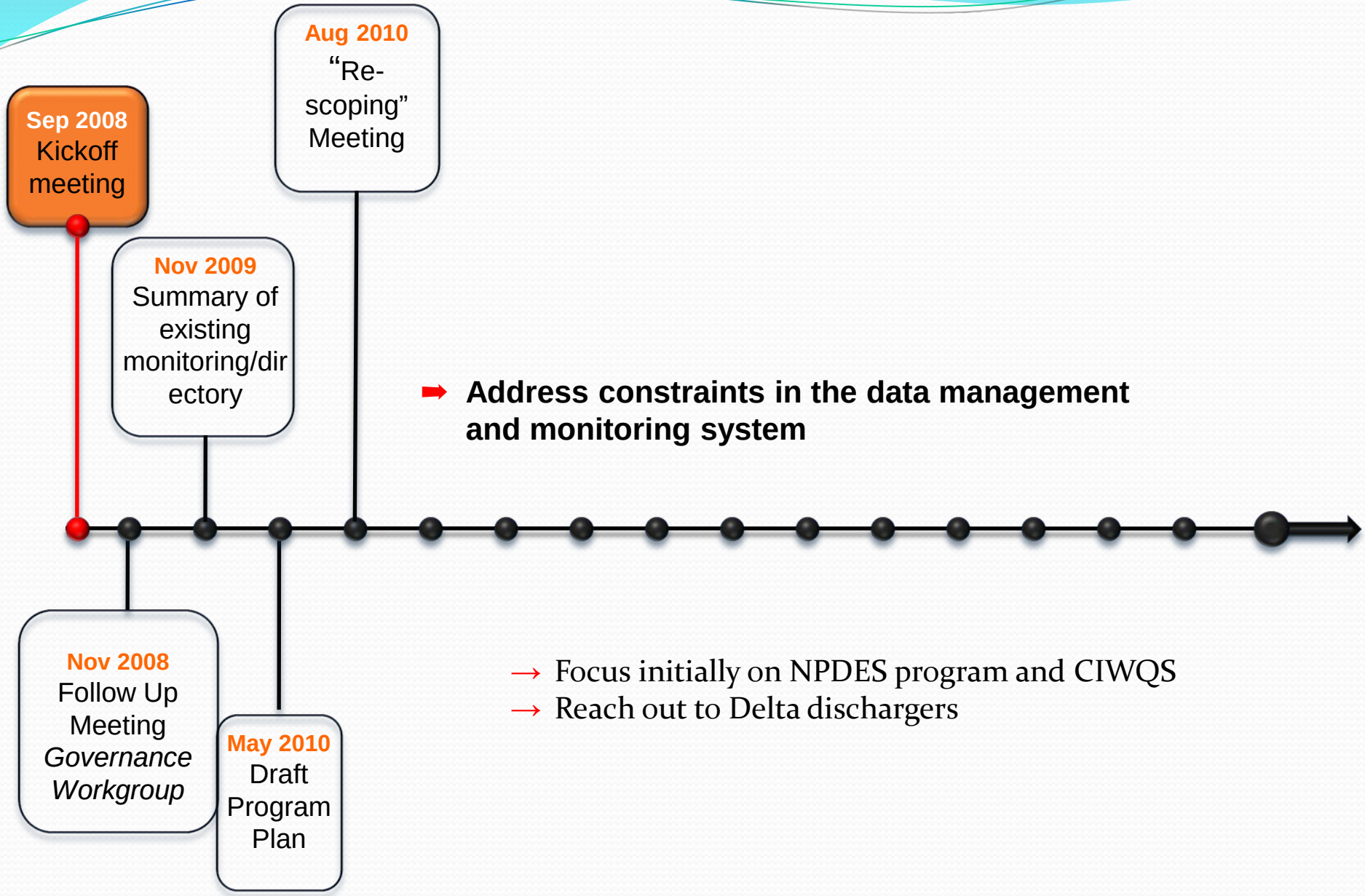
**+ Contaminants Synthesis Report (M. Johnson et al. 2010)**

*"It is unlikely that trying to glean data from current monitoring programs will be able to address issues similar to the POD in the future."*

➡ **Address constraints in the data management and monitoring system**

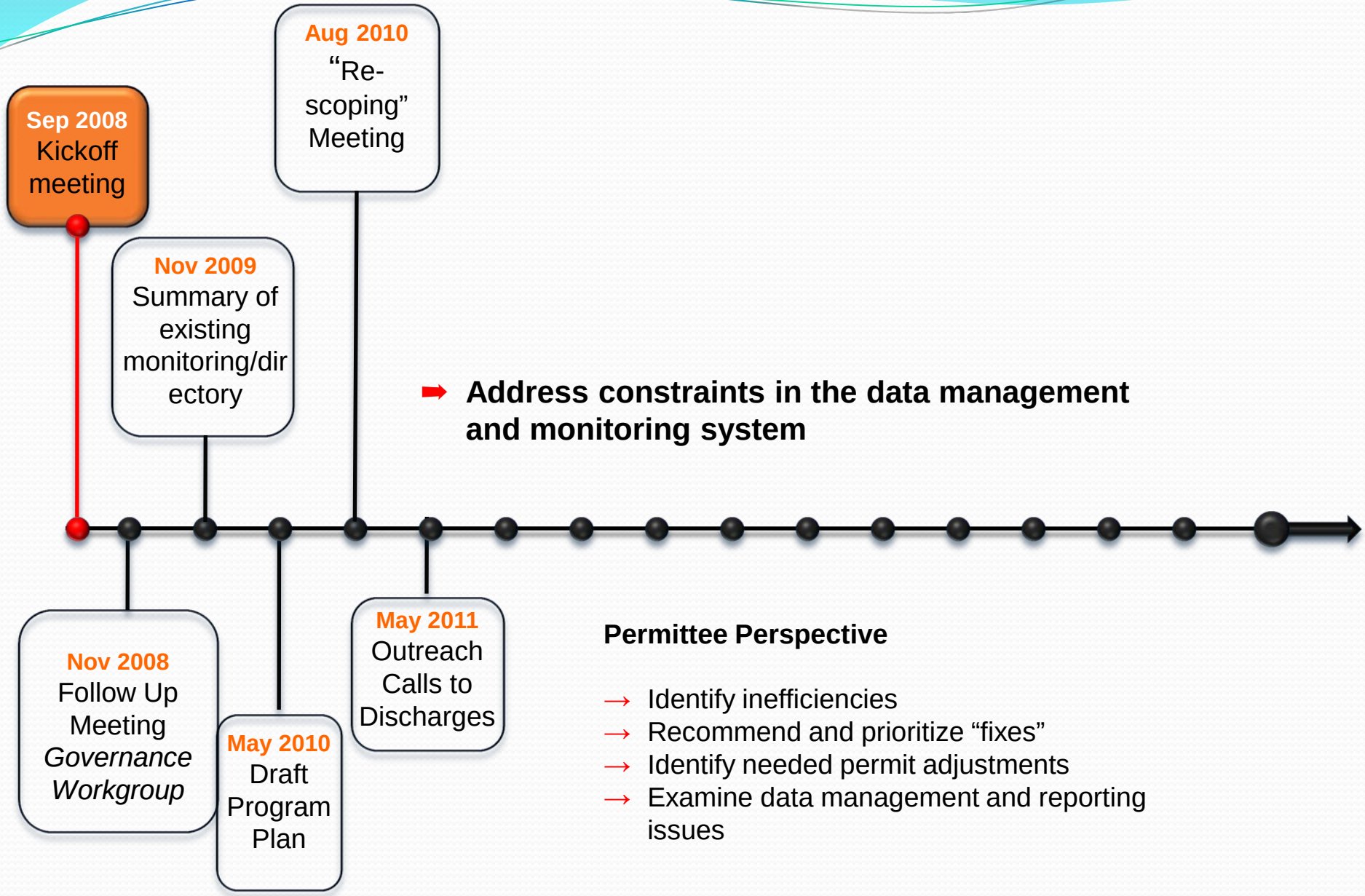
**Lessons Learned (M. Johnson. May 12, 2010 meeting)**

→ "Most data unusable"
→ "Insufficient records spatially and temporally"
→ "Integration of data types difficult"




➡ **Address constraints in the data management and monitoring system**

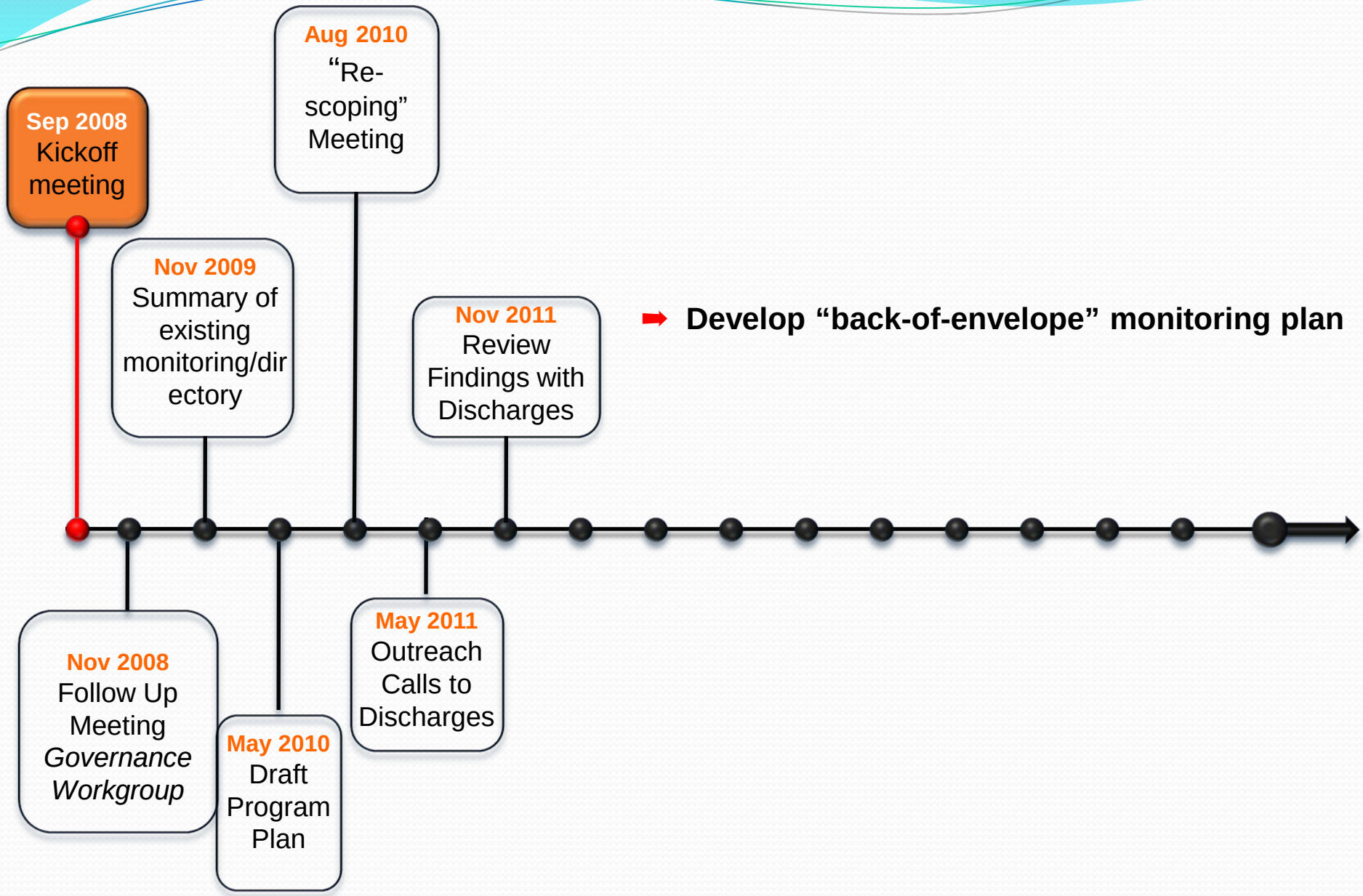
→ Focus initially on NPDES program and CIWQS
→ Reach out to Delta dischargers




➡ **Address constraints in the data management and monitoring system**

**Permittee Perspective**

→ Identify inefficiencies
→ Recommend and prioritize "fixes"
→ Identify needed permit adjustments
→ Examine data management and reporting issues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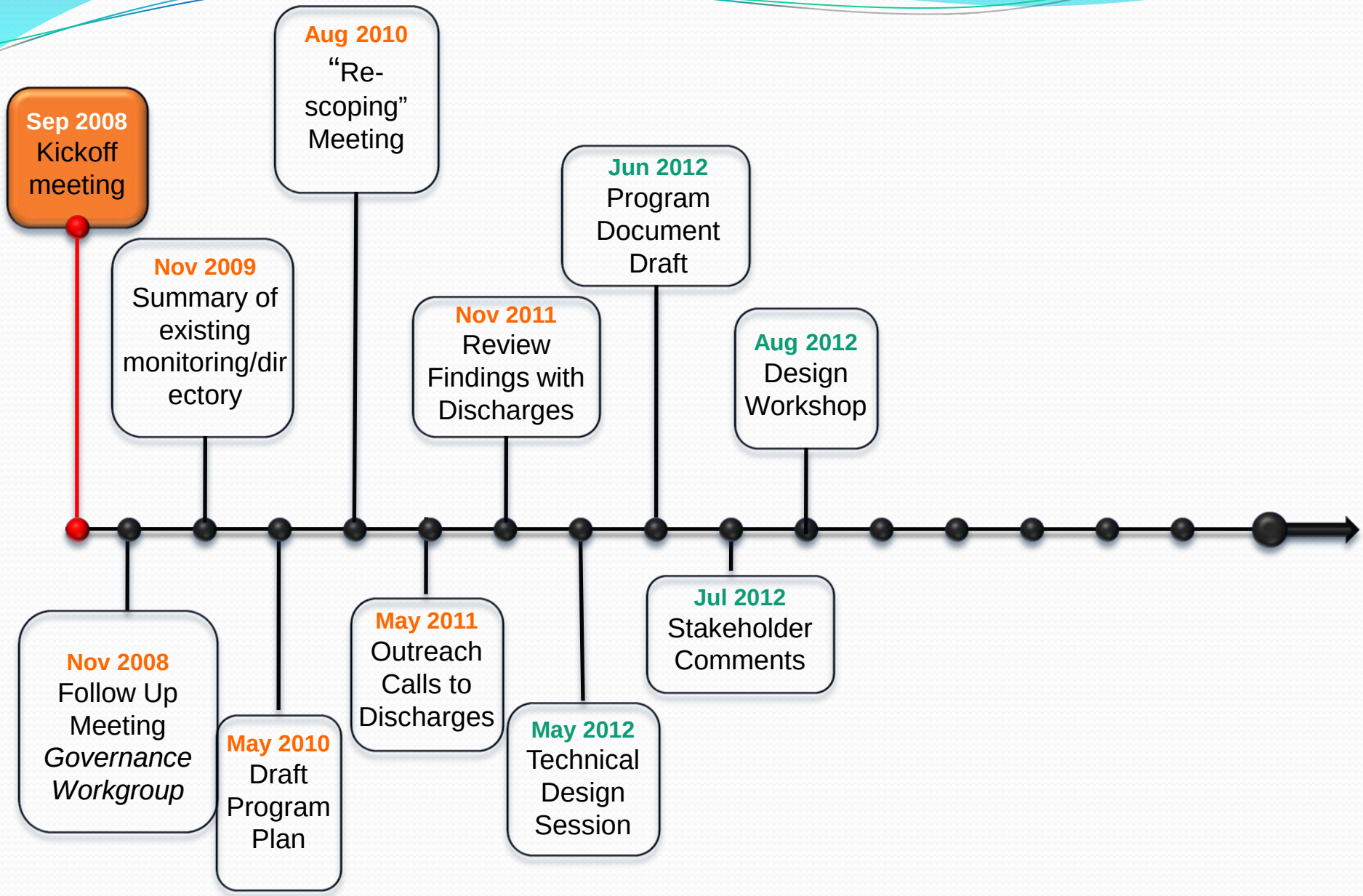
Kickoff meeting
Aug 2010
"Re-scoping" Meeting
Nov 2009
Summary of existing monitoring/directory
Nov 2011
Review Findings with Discharges
Develop "back-of-envelope" monitoring plan
Nov 2008
Follow Up Meeting
Governance Workgroup
May 2010
Draft Program Plan
May 2011
Outreach Calls to Discharges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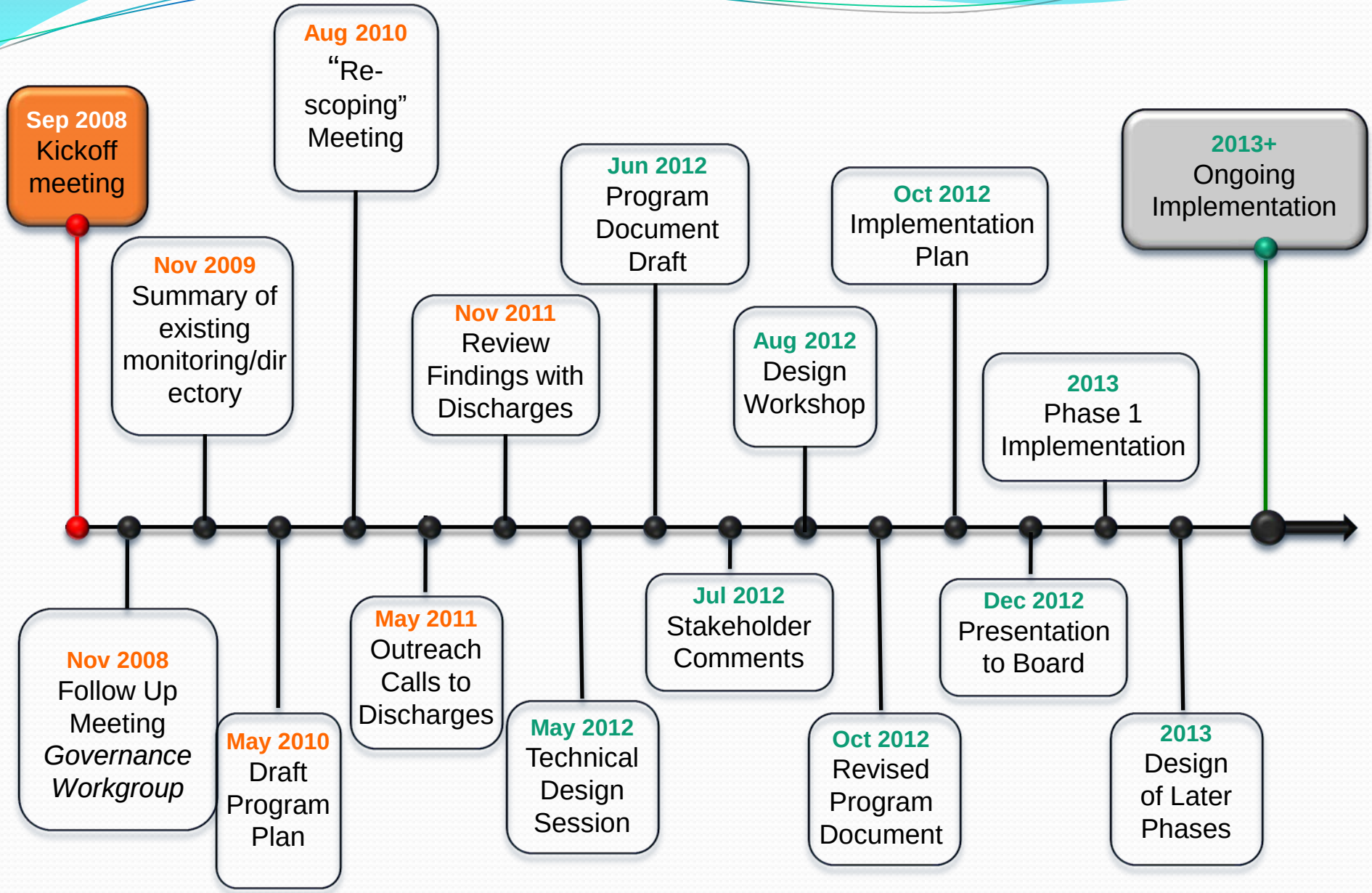
May 2012
Technical Design Session
Jul 2012
Stakeholder Comments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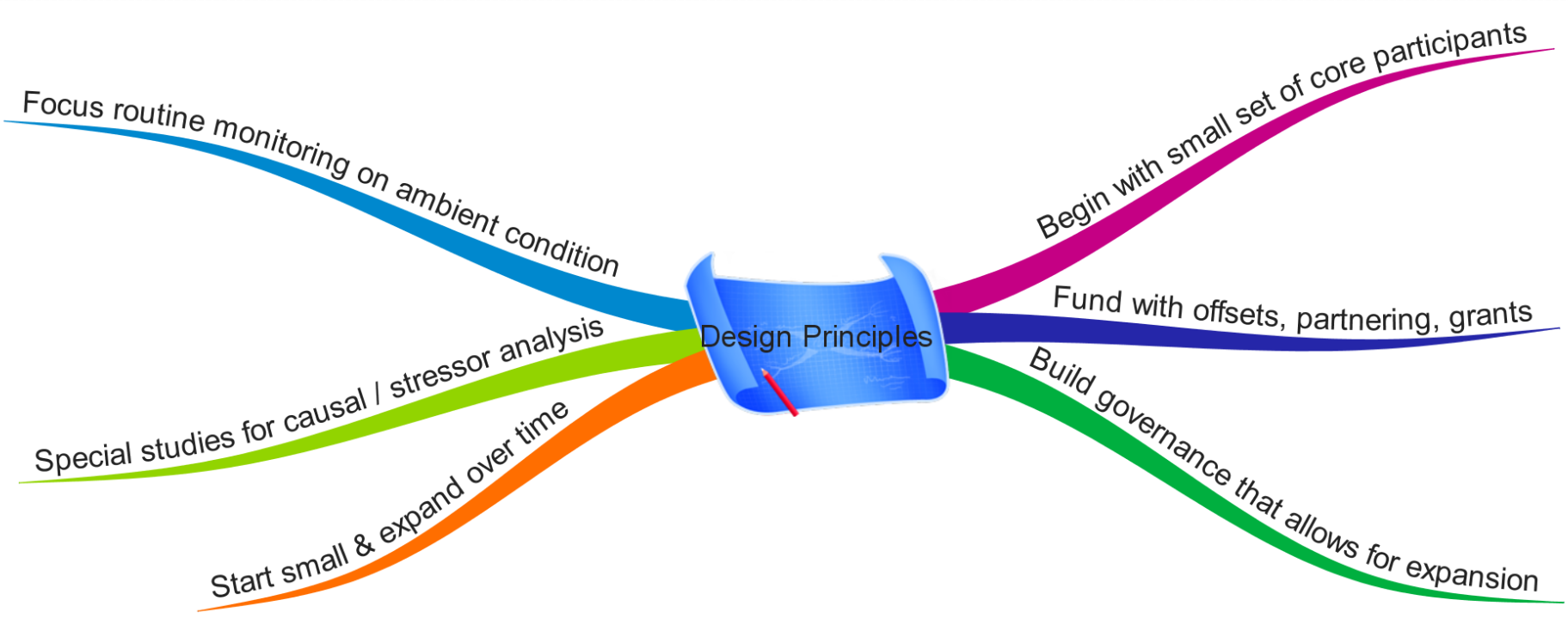
# Design Principles



# Phased Implementation

- Effective for other RMPs
  - Bight Program began with just 4 POTWs
  - SF Bay RMP began with simple monitoring design and narrowly focused set of indicators
  - SWAMP began with a small subset of its overall scope
  - Monitoring Council began with "low hanging fruit"
  - Watershed programs in S CA limited by funding available from reprogrammed compliance monitoring
- Three phases: Startup, Development, Implementation

# Phase I: Startup (2009 – 13)

- Managed by Board staff
- Board decision Dec 2012; implementation 2013
- Initial questions to be answered
- Focus on ambient condition related to contamination
- Use reprogrammed receiving water monitoring funds and readily available partnerships
- Build basic governance structure
- Determine initial questions to be answered
- Continue building relationships
- Prioritize additional questions / programs (e.g., drinking water, TMDLs, mercury, CV Salts)

# Phase II: Development (2013 – 16)

- Address additional questions
- Integrate relevant programs into RMP
- Formalize relationships with other programs
- Expand governance as needed
- Obtain needed funding
- Continue to formalize data analysis, assessment, reporting
- Reprioritize expansion opportunities
- Evaluate first two phases

# Phase III: Long-term Program (> 2016)

- Expand scope according to priorities
- Ongoing assessment of current activities and new opportunities
- Periodic program review

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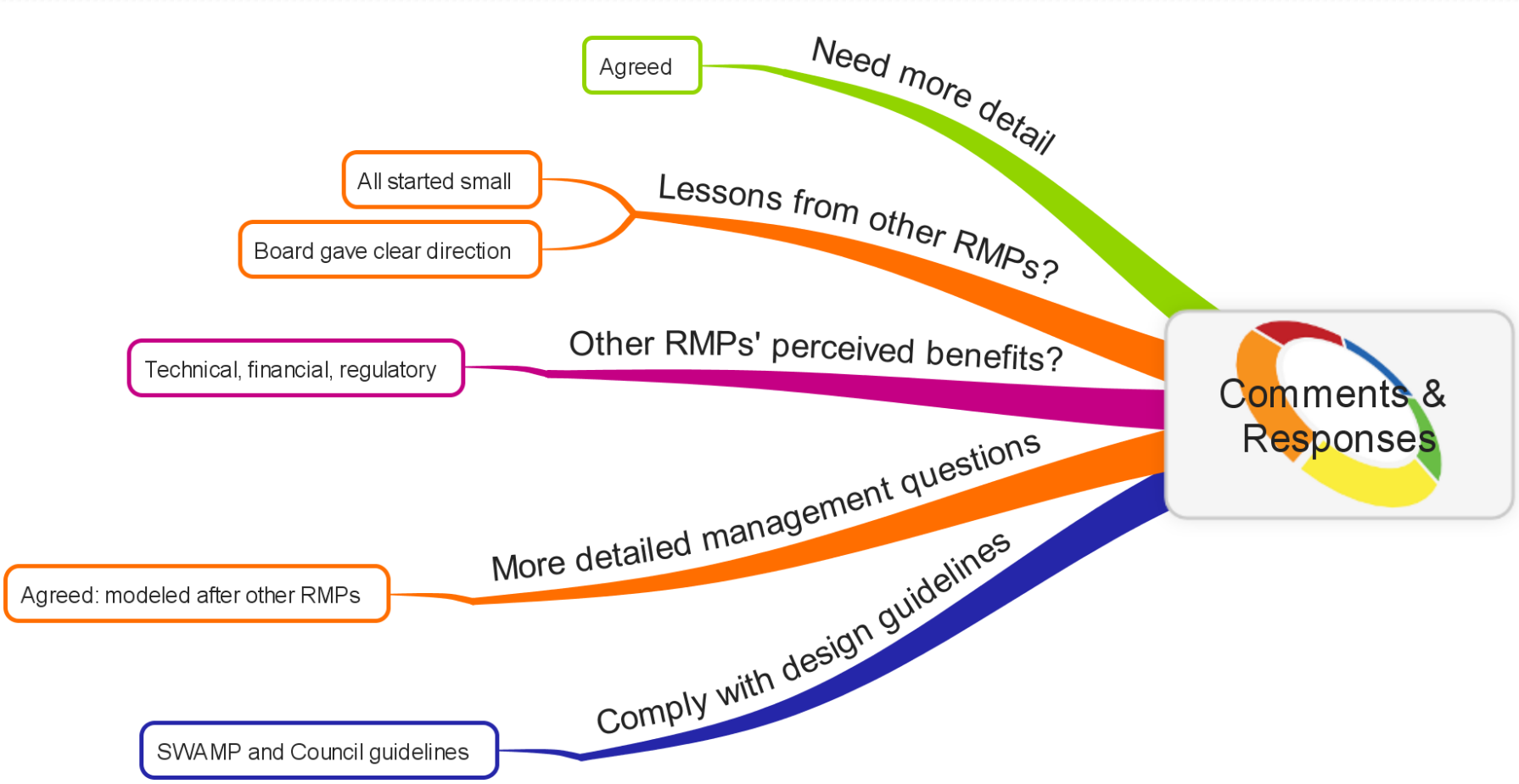
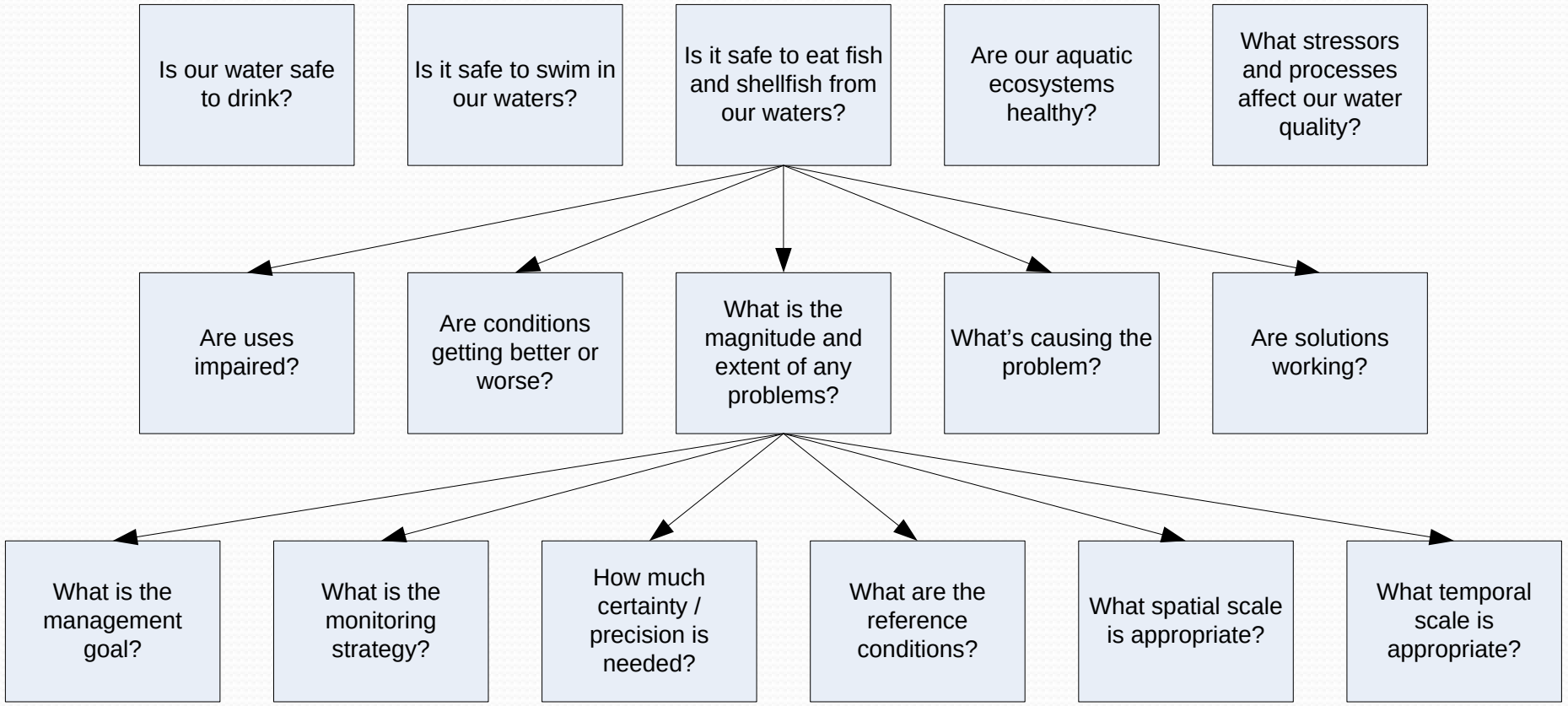
# Comment Categories

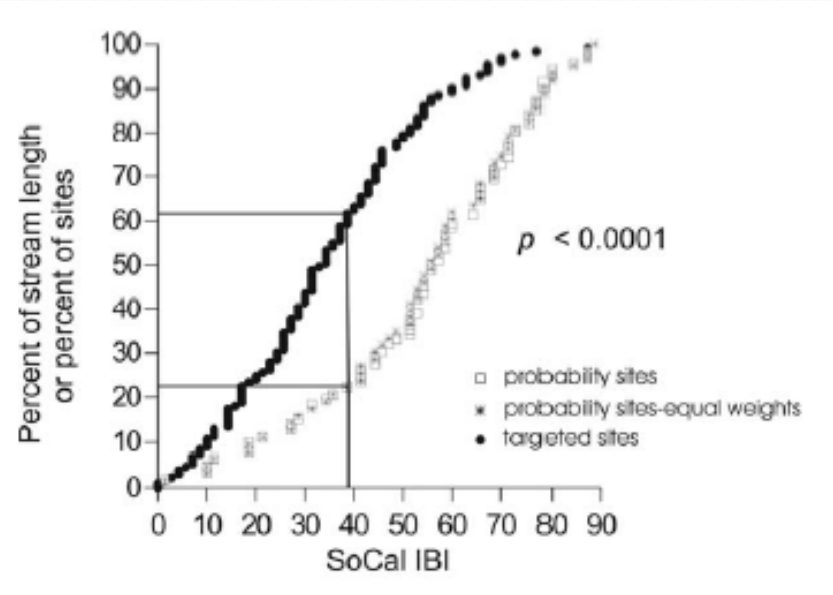
# Comment Responses



# Questions: SWAMP Framework



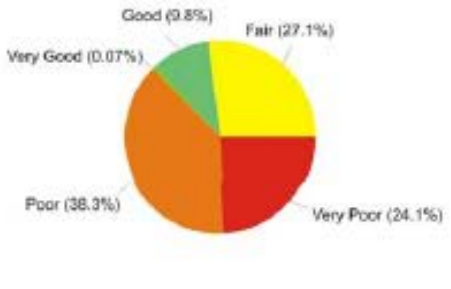
# Data Products: SWAMP





probability sites


probability sites- equal weights

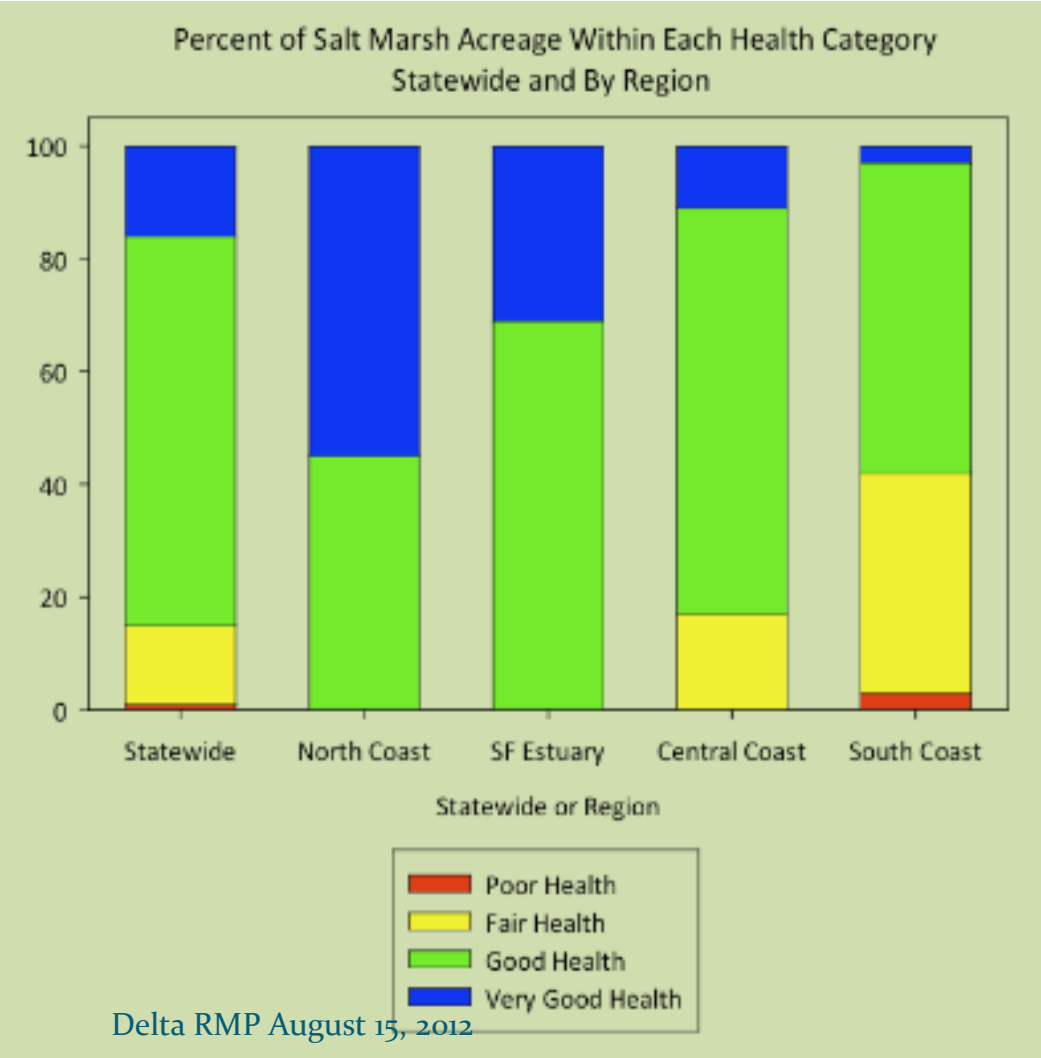



targeted sites

# Questions: Monitoring Council Portals

- How much wetland habitat does California have?
- How much wetland habitat has California lost?
- How healthy are California's wetlands?
- What is the extent of our stream and river resources?
- What is the condition of our streams and rivers?
  - Bugs
  - Algae
  - Water chemistry
  - Toxicity

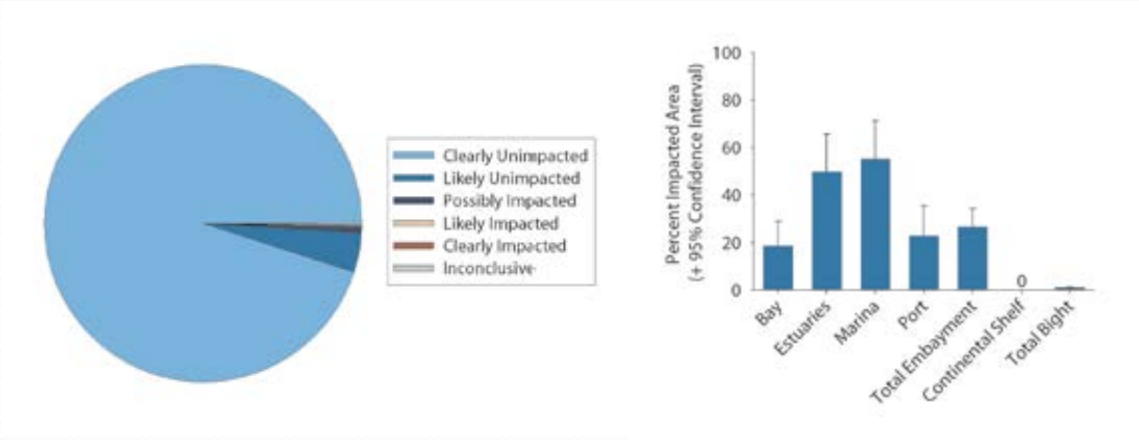
# Data Products: Council



# Questions: Bight '08 Coastal Ecology

- What is the extent and magnitude of environmental impact in the Southern California Bight?
- How does the extent and magnitude of environmental impact vary among habitats?
- What are the trends in the extent of environmental impact?

# Data Products: Bight




Extent of sediment contamination impacts in the Southern California Bight

Extent of impacted sediments by habitat as defined by multiple lines of evidence (chemistry, toxicity, community structure)

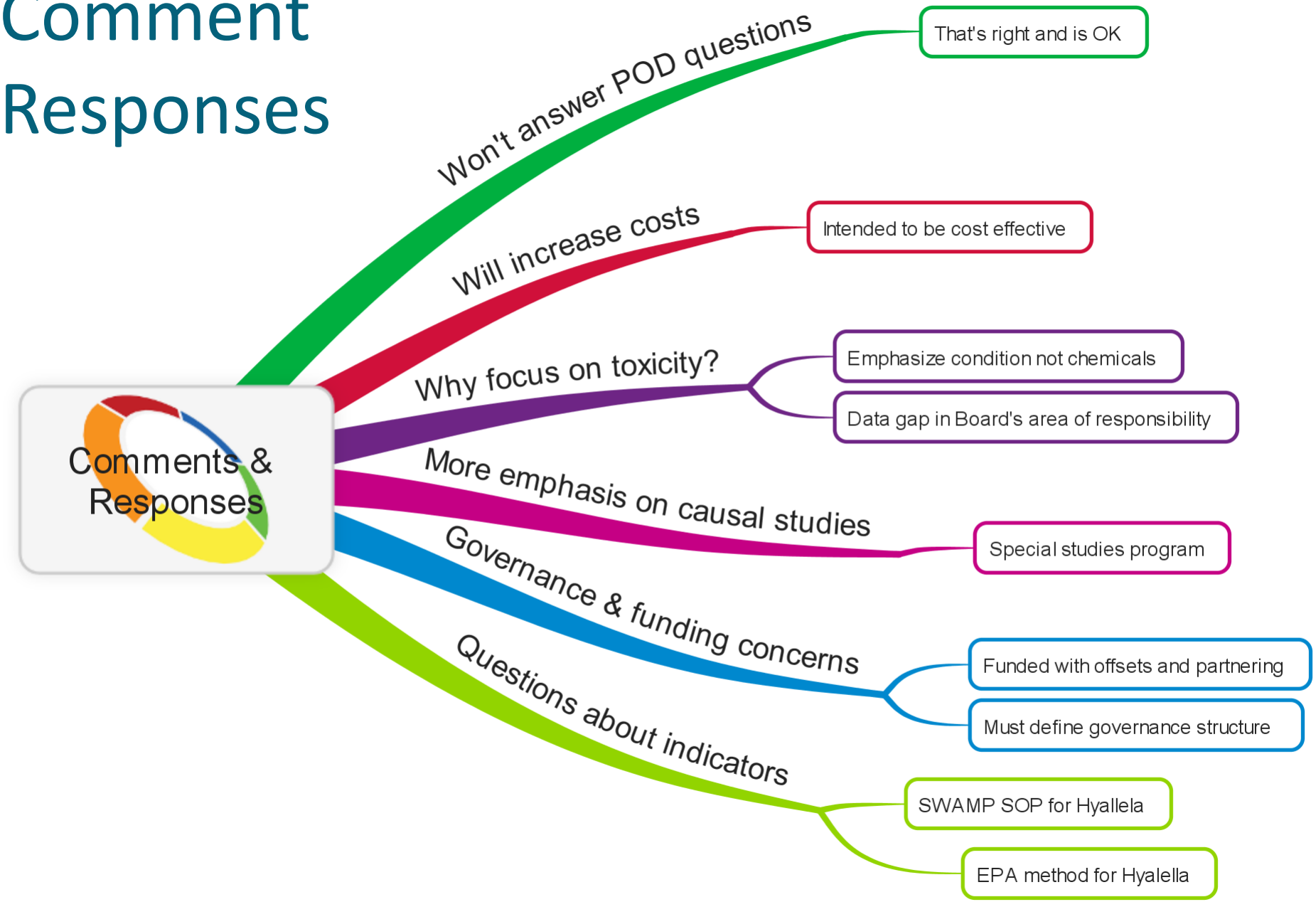
Contingency table indicating the percent agreement in toxicity among the two test species.

| | | Amphipod | |
|---|---|---|---|
| | | Not Toxic | Toxic |
| Mussel Embryo | Not Toxic | 72.2% | 10.0% |
| | Toxic | 14.4% | 3.3% |

# Questions: SF Bay RMP

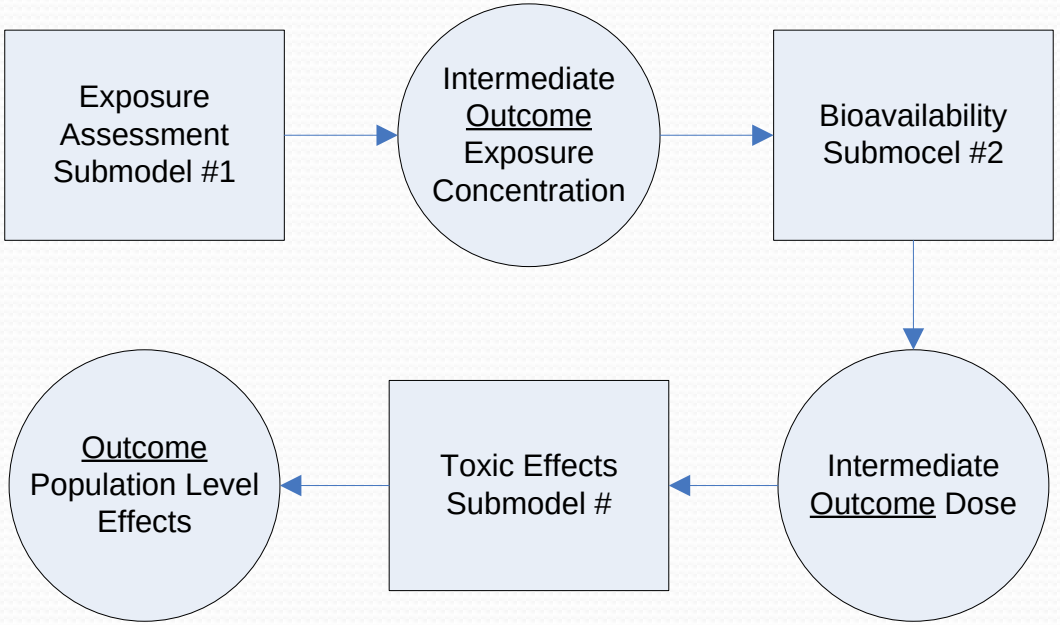
- What are the spatial and temporal patterns of impacts of sediment contamination?
- Which pollutants are responsible for observed impacts?
- Is there clear evidence of pollutant effects on survival, reproduction, or growth of individual birds?

# Comment Responses



# Toxicity in Context

- Begin at Outcome: Population level effects in DRERIP model
- Unresolved questions about magnitude, extent, persistence of toxicity throughout Delta
- The very large number of potentially toxic chemicals makes it difficult to pursue a bottom-up approach without knowing more about patterns of toxicity



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# Expectations for Phase I

- Create governance structure / process
- Adjust existing permits to enable monitoring offsets
- Develop questions needing answers
- Finalize and implement initial design
- Agree on prioritized list of special studies
- Create long-term program plan (perhaps modeled after Monitoring Council's 10-year strategy)
- Complete first round of data analysis, synthesis, reporting

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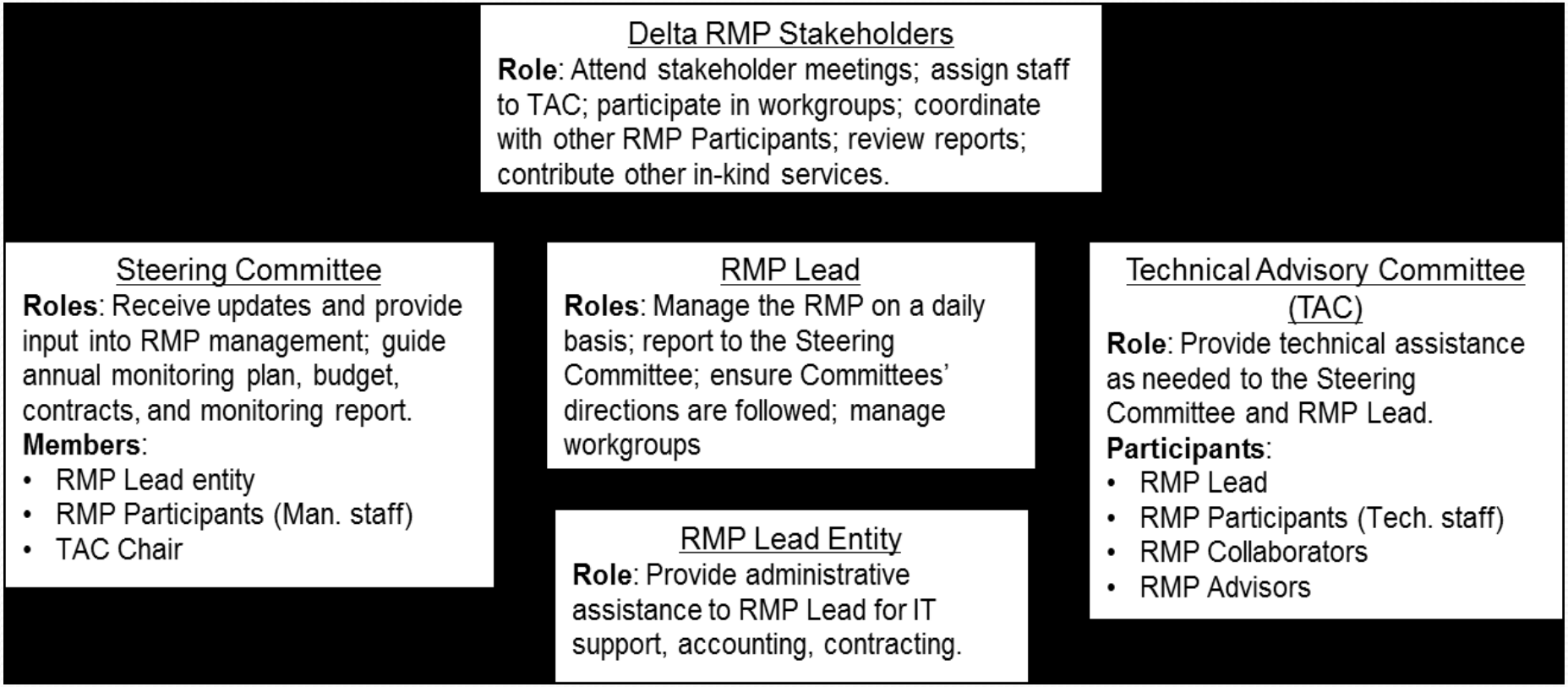
# Governance: Managing Entity

- QA/QC
- Data Management
- Contract Management
- Reporting
- Logistics Coordination
- Meetings/workshops/communication
- **Analysis/assessment**

# Stakeholder Proposed Governance Structure for Discussion



# Governance: Next Steps

- Define Phase I core participants
- Establish Steering Committee
- Identify RMP lead entity
- Develop program plan

# Design Guidelines

- Will use Council's guidelines and benchmarks
- Will ensure that each of the 6 categories is fully addressed
- Program will be reviewed again by Monitoring Council's Estuary Workgroup