

Western Washington University

Western CEDAR

Salish Sea Ecosystem Conference

2014 Salish Sea Ecosystem Conference (Seattle, Wash.)

May 2nd, 10:30 AM - 12:00 PM

How Are the Fish Doing? Development and implementation of sixteen watershed monitoring and adaptive management programs for recovery of Puget Sound Chinook

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Vynne, Stacy; Dorner, Jeanette; Fore, Leska S.; Stiles, Kari A. (Kari Ann); White, Jacques; Hook, Abby; and Blackmore, Laura, "How Are the Fish Doing? Development and implementation of sixteen watershed monitoring and adaptive management programs for recovery of Puget Sound Chinook" (2014). Salish Sea Ecosystem Conference. 71.

https://cedar.wwu.edu/ssec/2014ssec/Day3/71

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Speaker Stacy Vynne, Jeanette Dor Laura Blackmore	ner, Leska S. Fore, Kari A. (Kari Ann) Stiles, Jacques White, Abby Hook, and

How are the Fish Doing?

Development and Implementation of 16 Monitoring and Adaptive Management Programs for Recovery of Puget Sound Chinook

Jacques White, Jeanette Dorner,
Stacy Vynne and Laura Blackmore
Salish Sea Ecosystem Conference
Seattle, WA
May 2, 2014









Presentation Outline

- Review the big picture
- Explain what we've learned
- So What? why what we've learned matters

Monitoring & Adaptive Management Project

THE BIG PICTURE

Monitoring & Adaptive Management (M&AM) Project Goal



Overall Purpose:

Create and maintain an adaptive management system for Chinook recovery by organizing local, watershed-scale monitoring and adaptive management plans to be consistent and integrated across the Puget Sound region.

Overall M&AM Program Goals

Phase 1: April 2013 – June 2014

Translate high priority aspects of existing watershed recovery chapters, not make new policy

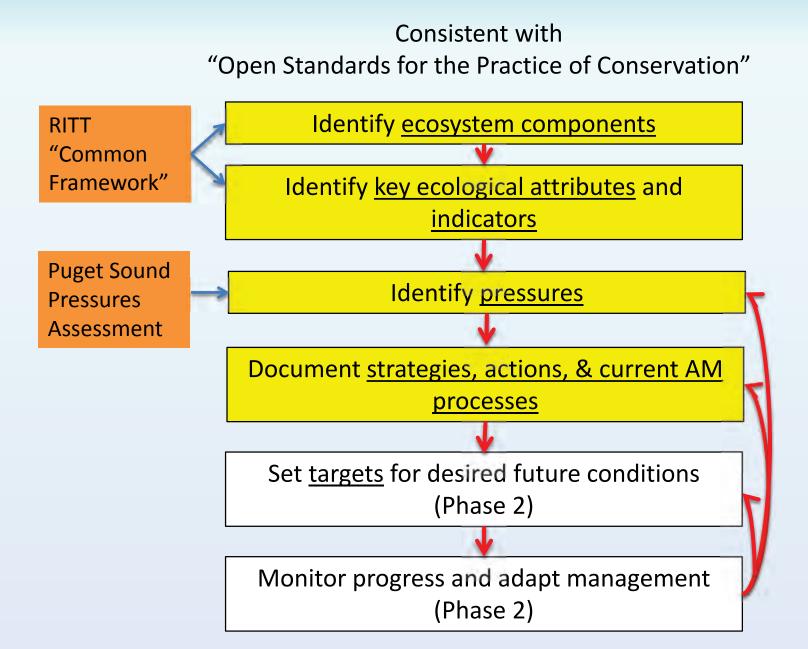
Phase 2: July 2014 and Beyond

Fill gaps, refine priorities, and use new framework to adaptively manage Chinook salmon recovery

Approach

- Watershed Core Teams
 - >60 people trained and leading
 - 100 additional people creating products
- Supporting Efforts
 - Recovery Implementation Technical Team (RITT)
 - PSP Staff ERCs, Scientists, Managers
 - Long Live the Kings Coaching Team
- EPA Funded

Regional Monitoring & Adaptive Management Approach



Phase 1 Products: Viability

- Viability Assessment (all watersheds):
 - Habitats & stocks present in watershed
 - Important characteristics of habitats & stocks (KEAs)
 - Prioritized status & trends indicators
 - Baseline & current data for indicators
 - Identify goals & desired future status
- Viability Assessment (desired):
 - Condition bins: poor, fair, good, very good

Examples

- Channels >50m Bankfull Width
 - KEA: Sediment delivery
 - Indicator: Substrate composition
- Chinook
 - KEA: Abundance
 - Indicator: Natural origin adult spawner abundance

Phase 1 Product: Pressures

- Pressures identification (=threats)
 - Using Puget Sound Pressures Assessment taxonomy
 - Pressures adversely affecting habitats and species

Regional Product: Pressure ID

% Watersheds*
80%
80%
70%
70%
60%

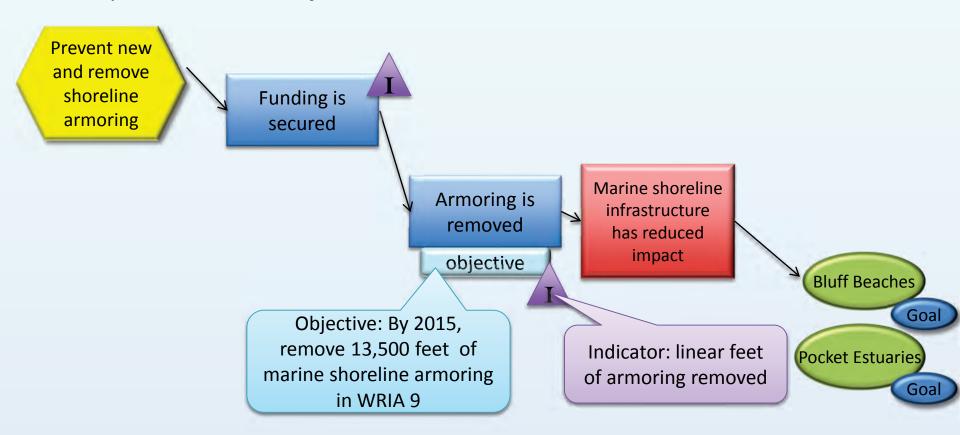
Phase 1 Product: Results Chains

- Document strategies and objectives
- Prioritize implementation and effectiveness indicators
- Identify gaps in logic and strategies

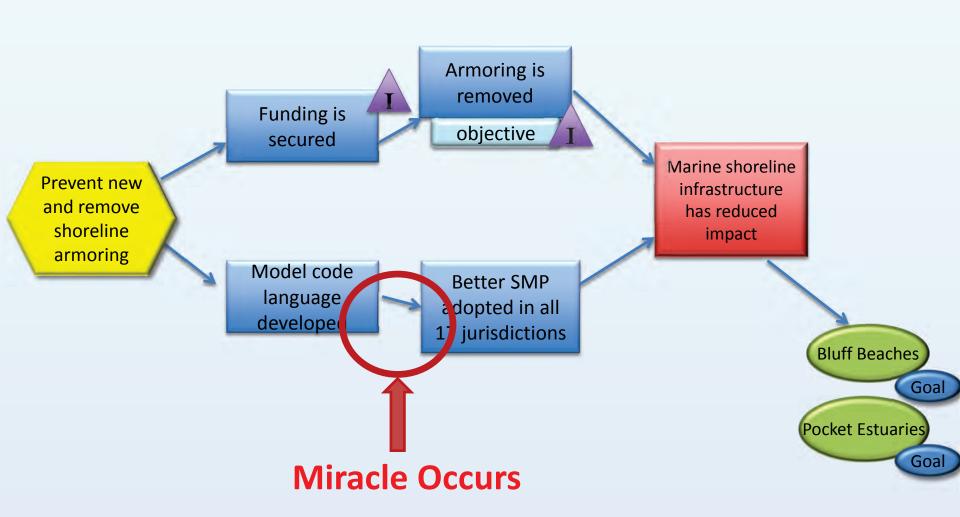
Results Chains Articulate Theory of Change

Determine Intermediate Outcomes (to connect strategy to goals)

Develop Measureable **Objectives and Indicators**



Results Chains: Identify Gaps



Monitoring & Adaptive Management Project

WHAT WE'VE LEARNED

What We Have Learned: Ecosystem Components

- Most plans comprehensively cover the ecosystem
- Menu Common Framework– helps with selfexamination
 - Lake Washington/Cedar/Sammamish no nearshore components

What We Have Learned: Goals

- All watersheds have fish goals
- Some have habitat goals & desired future status
 - Nisqually & Green/Duwamish
- Many have few/no quantitative habitat goals or desired future status
 - Lake Washington/Cedar/Sammamish

What We Have Learned: Viability

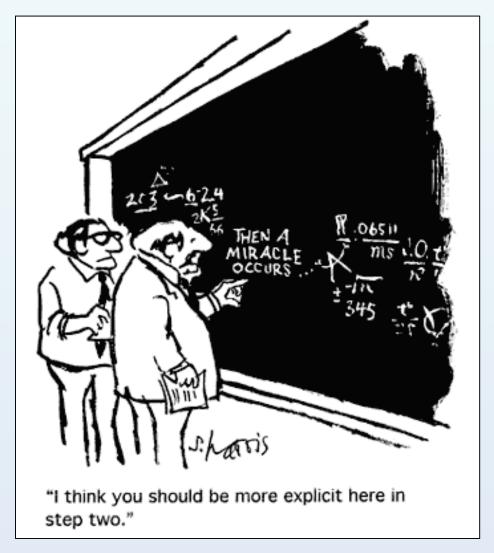
- Core Teams understand their systems
- Technical folks in most watersheds can articulate status & trend indicators
- Needs:
 - Subset of indicators monitored consistently across the region
 - Guidance on defining desired future conditions and goals
 - Funding

What We Have Learned: Pressures/Stressors

- Most plans comprehensively identify pressures and stressors
 - Limiting factors, etc.
- PSPA provides opportunity to ID gaps.
 Green/Duwamish examples:
 - Climate change and sea level rise
 - Recreational land use
- Few plans, if any, prioritize pressures

What We've Learned: Results Chains

- Gaps in logic
- Gaps in strategies



What We've Learned: Results Chains

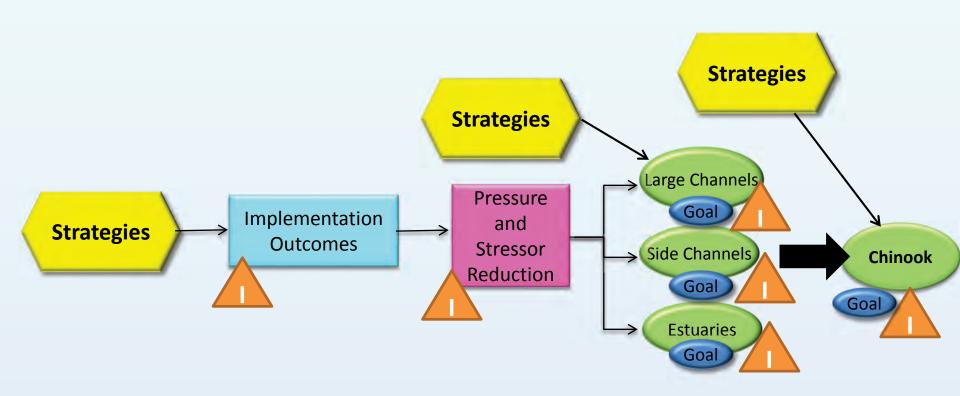
- Gaps in logic
- Gaps in strategies
- Implementation tracking already in place
- Creating system to track effectiveness
 - Green/Duwamish example



Monitoring & Adaptive Management Project

SO WHAT?

Framework Builds Monitoring Plans



Implementation

Effectiveness

Status and Trends

Summary: Phase 1 Results

- Framework in each watershed creates a system that:
 - Ties monitoring results clearly to actions and goals
 - Highlights gaps in current plans and structures
 - Allows for consistent reporting and evaluation of progress
- Description of existing adaptive management system

Phase 2 Desired Results

- Complete translation, especially viability work and pressures assessment
- Develop and implement new adaptive management systems in each watershed
- Develop and implement monitoring plans

THANKS TO OUR COACHING TEAM!

Laura Blackmore, Cascadia Consulting Group Abby Hook, Hook-Knauer Kara Nelson, Kara Nelson Consulting Susan O'Neil, Long Live the Kings Robert Warren, Bonneville Environmental Foundation

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QUESTIONS AND DISCUSSION