



Initiating and Completing Complex Dam Removals

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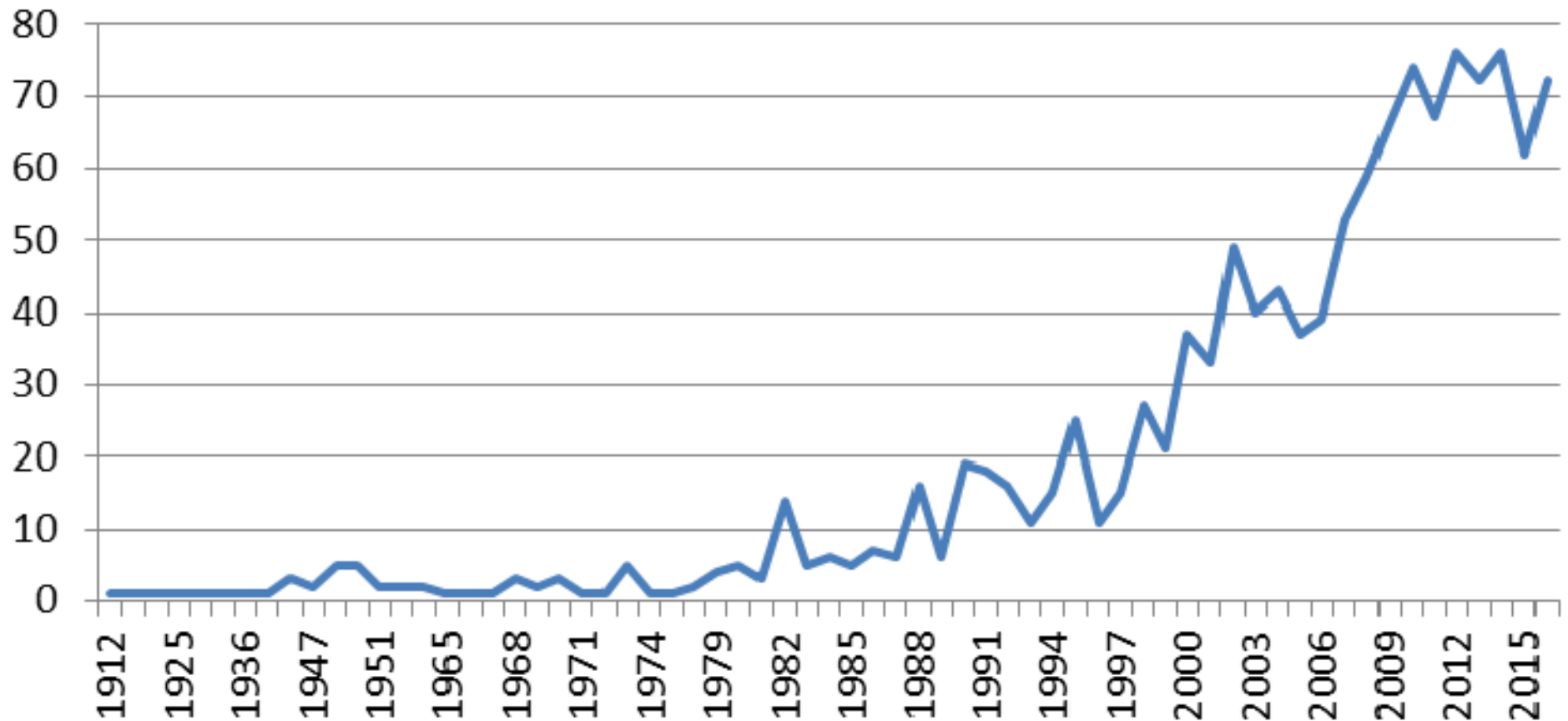


American Rivers
Rivers Connect Us

...and we connect rivers

More than 1,370 dams have been removed around the country

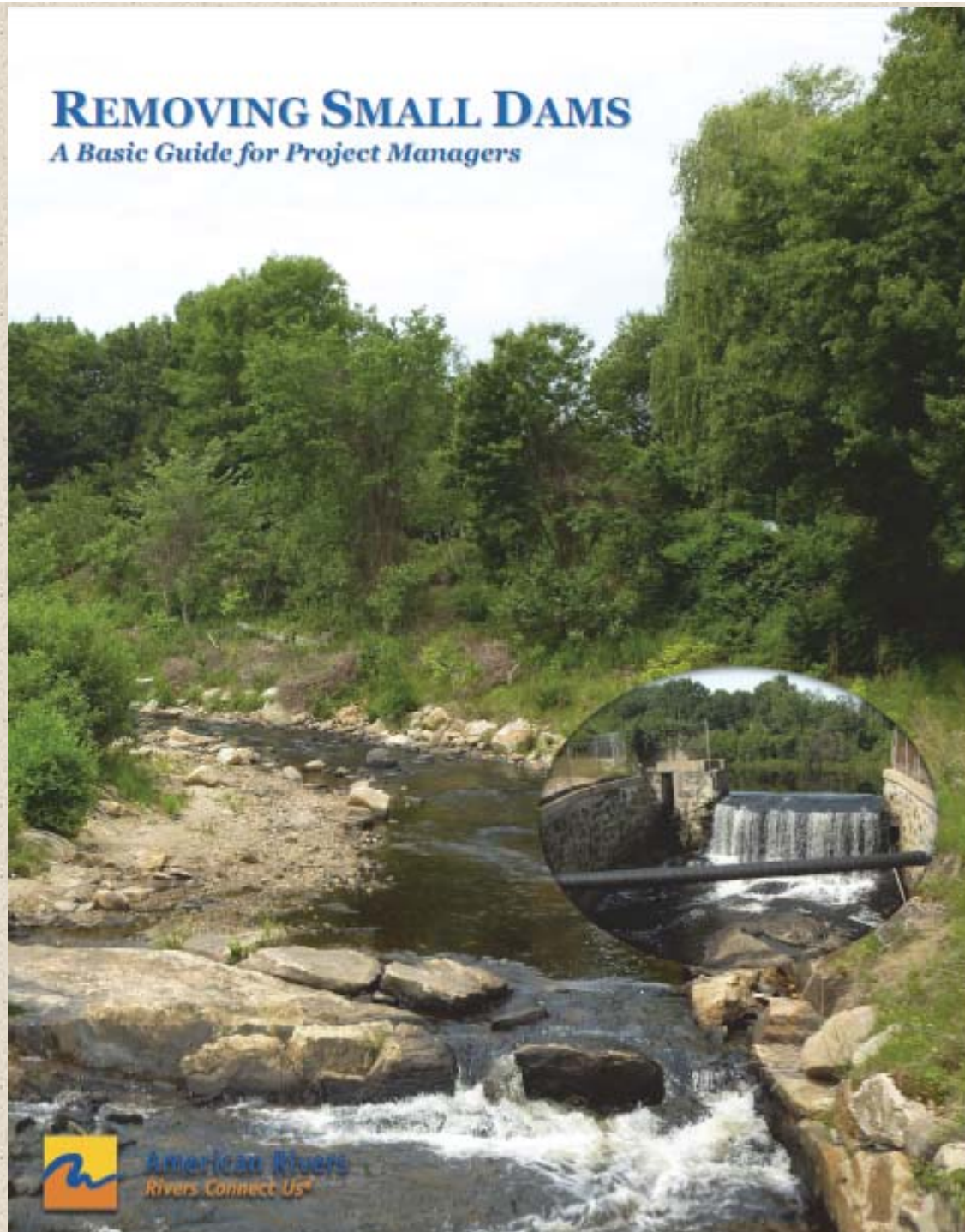
of Dams Removed





REMOVING SMALL DAMS

A Basic Guide for Project Managers



Outline:

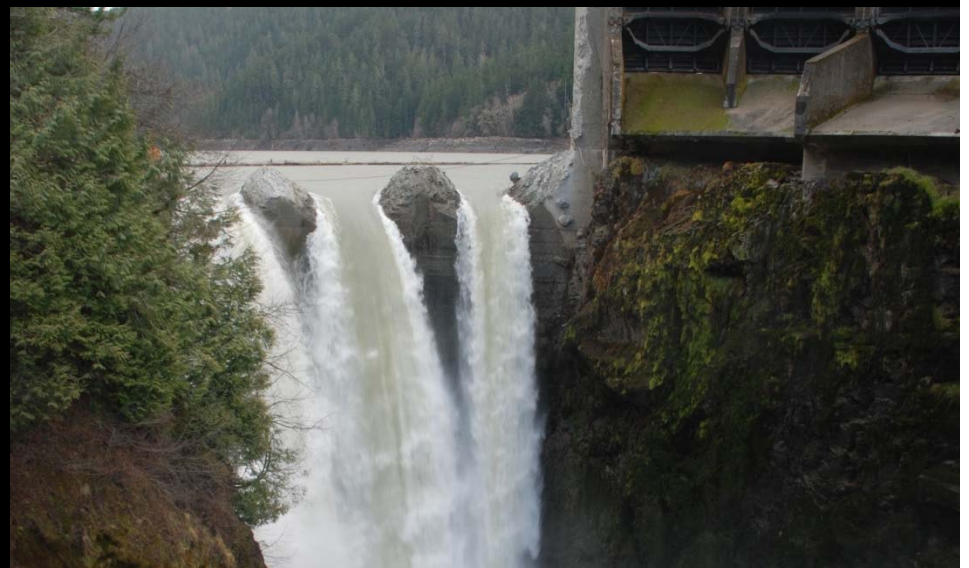
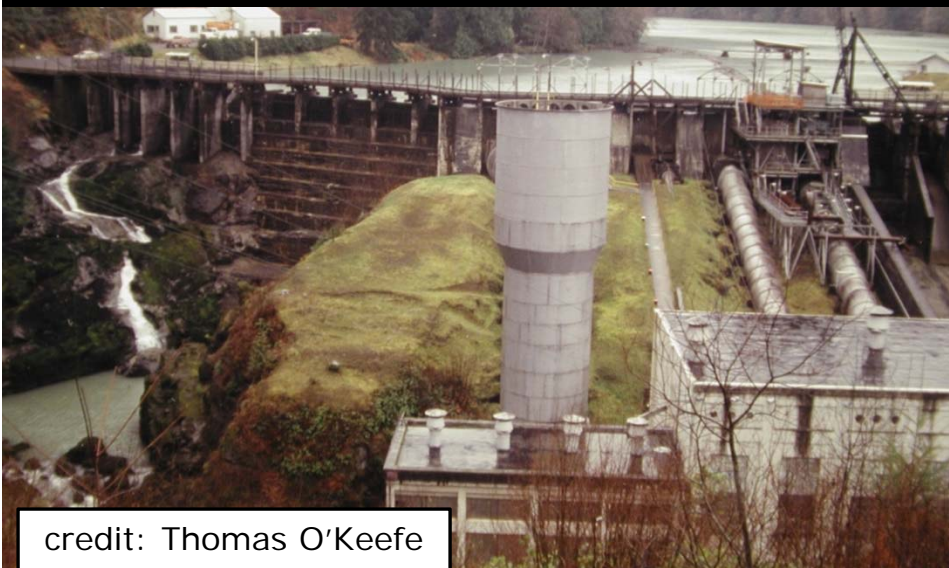
1) Defining dam removal complexity

2) Initiating more complex projects

3) Making complex projects more efficient



What makes a dam removal project “complex”?



credit: Thomas O'Keefe

There is a spectrum of complexity

Complex dam removals are in the highest tier for habitat restoration, but currently take 10+ years to implement

Several factors contribute to complexity



Active Dam Use

In Beys Galore Ads, July 22, 2015

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Customer Service Representatives Apply Now! etwojobs.com

664-9999
125 S. Front
Central Point, Or

WHAT'S HIDING BEHIND OUR DAMS?

**METHYL MERCURY? ARSENIC TRIOXIDE?
HEXAVALENT CHROMIUM? URANIUM?**

Do these deadly chemicals lurk behind the dams environmentalists demand be removed? Probably. But we'll never know if the government does not carry out the relevant studies they are required to, BY LAW. If these chemicals are there, they MUST be removed BEFORE the dams are. If they are not, they will end up in our water supply where they will cause illness, fetal deformities, cancer, heavy metal poisoning, and even death. All of this destruction and misery will be thrust upon us in order to help a few more salmon spawn. Is a fish really worth exterminating a human being for? Is a wee toddler, dying in agony from leukemia really a fair trade for the welfare of a fish? We hope you will join us in a resounding chorus of "Heck, no!"

ASK QUESTIONS! DEMAND ANSWERS!

Call or write to the players involved and ask them why they refuse to do an EIS (Environmental Impact Study) on the sediment behind the dams they are planning to remove.

Senator Herman Baertschiger
(District 2, Northern Jackson County & Josephine County)
Phone - 541-787-1702 | Email - Sen.HermanBaertschiger@state.or.us

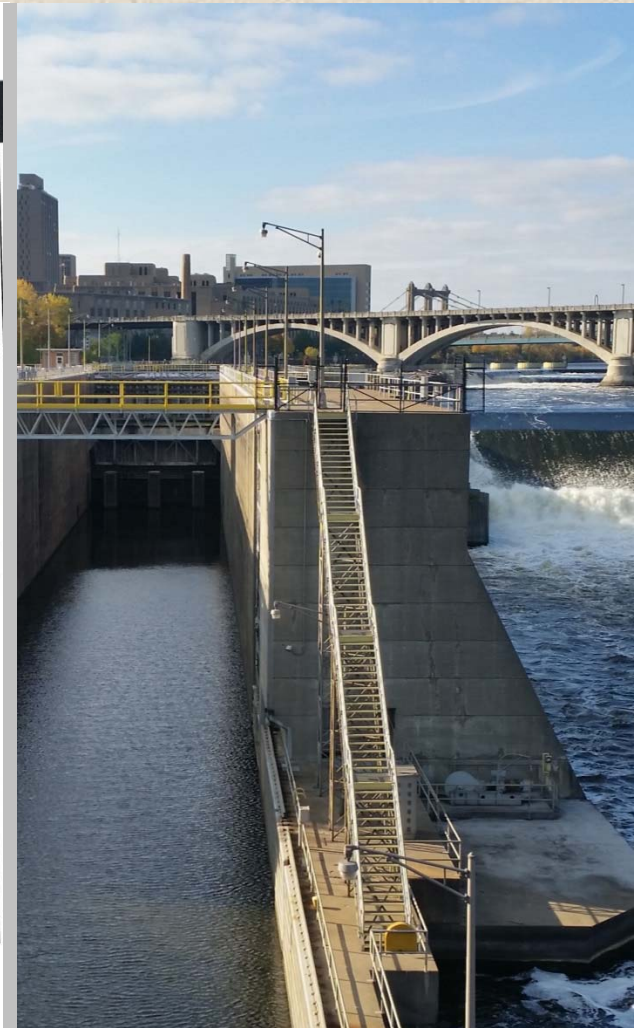
Aaron Cubic (Grants Pass City Manager)
Phone - 541-450-6000 | Email - ACubic@GrantsPassOregon.gov

Bob Hunter (Waterwatch.org Environmental Organization)
Phone - 541-708-0731 | Email - info@Waterwatch.org

Kelly Madding (Director, Jackson County Development Services)
Phone - 541-774-6519 | Email - MaddinKA@JacksonCounty.org

Greg Walden (Congressman, District 2)
Phone - 541-776-4646 Email - Walden.House.gov (Use form mailer)

Community Resistance



Government Ownership

Several factors contribute to complexity



Infrastructure



Contaminants

Application for Federal Assistance

* 1. Type of Submission:

- Preapplication
- Application
- Changed/Corrected Application

* 3. Date Received:

04/04/2016

5a. Federal Entity Identifier:

State Use Only:

6. Date Received by State:

8. APPLICANT INFORMATION:

* a. Legal Name: American Rivers, Inc.

Fundraising

Large size doesn't necessarily equate with complexity



Willow Falls Dam, WI



Bloede Dam, MD

There are few mechanisms for initiating complex dam removals



Great Works Dam, ME



Veazie Dam, ME

credit: Penobscot Restoration Trust

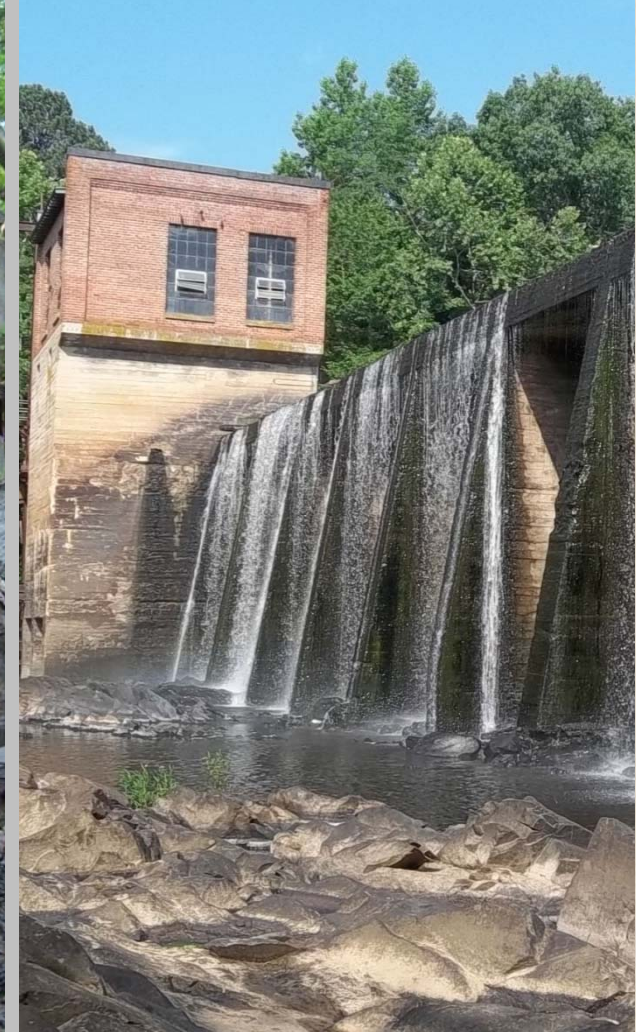
There are few incentives for dam owners to remove dams



FERC Relicensing



Dam Safety/Liability



Buyout (Mitigation)

Initiating Complex Dam Removals

Past project differences show that projects can be completed more efficiently



Enloe Dam, WA

credit: Thomas O'Keefe

Projects need a defined and effective structure and project manager



Veazie Dam, Penobscot River, ME



Copco 1 Dam, Klamath River, CA

Improving Dam Removal Project Efficiency

The regulatory environment is becoming more amenable to dam removals



Condit Dam, WA

credit: Thomas O'Keefe

New regulatory guidance:

- EPA variance
- USACE 404 Nationwide
- EPA FAQ

For scientific/engineering issues, learn from past projects

MATILIJA DAM ECOSYSTEM RESTORATION FEASIBILITY STUDY VENTURA COUNTY, CA

PROJECT MANAGEMENT PLAN

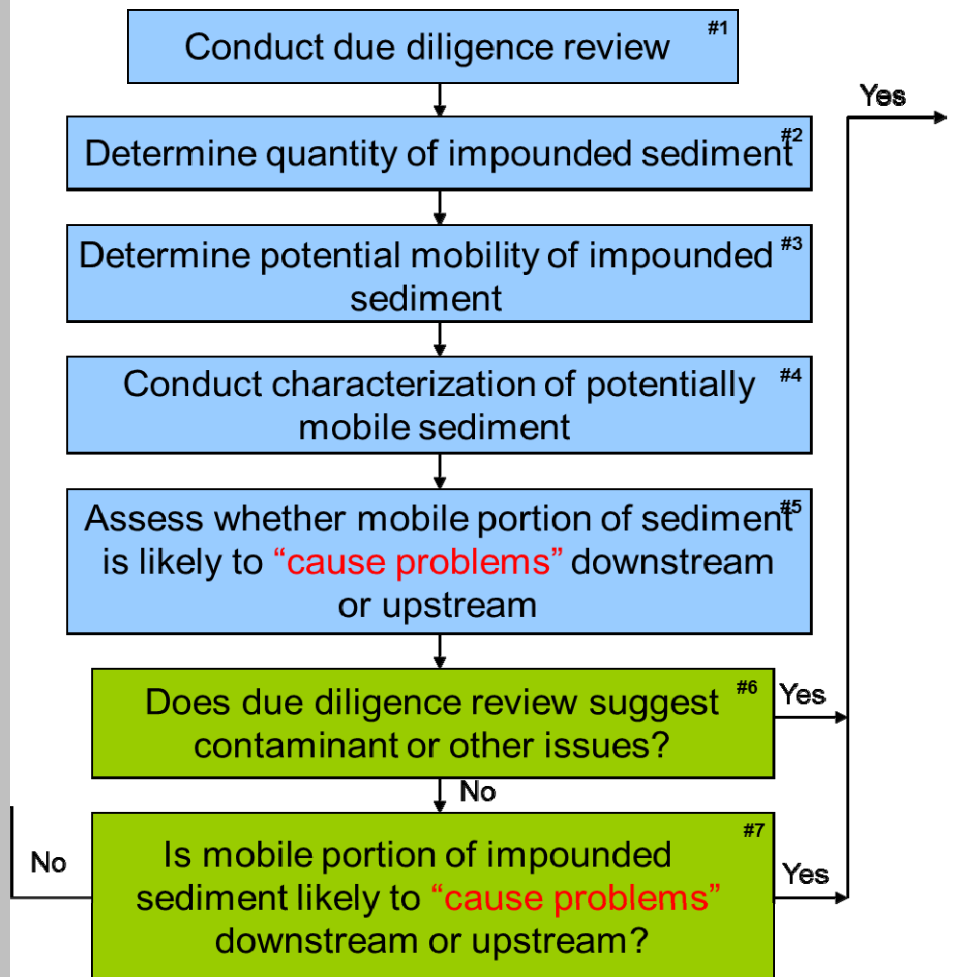


Los Angeles District
South Pacific Division



April 2001

Matilija Dam, CA



NH Sediment Protocols

Conclusion:
Identify and implement more incentives for
large-scale, complex dam removals



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