

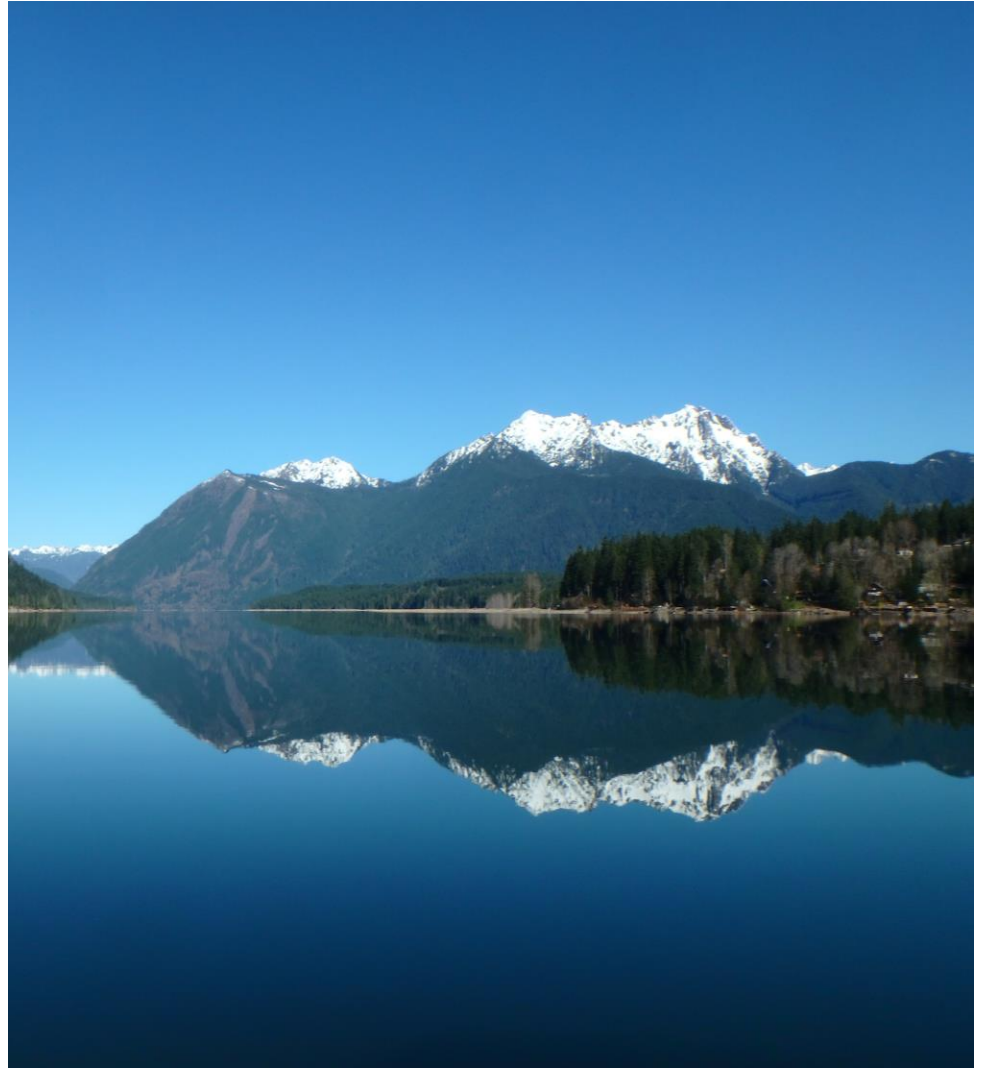
Lake Cushman and Kokanee Shoreline Use Permitting

Introducing a new path to assist with regulatory
permitting

Presented by:
Wynnae Wright, Tacoma Power
Kristin Mahen, US Army Corps of Engineers

Meeting Purpose

- **Connect with Tacoma Power & Federal regulatory agencies**
- **Learn about the Cushman Shoreline Management Plan (SMP)**
- **Learn about the US Army Corps of Engineers regulatory permitting process**
- **Introduce the PACKS program and tools**
- **Answer your questions**



Agenda



Time	Topic
3:00	Welcome, Introductions, Purpose, and Ground Rules
3:10	Skokomish Tribe Introduction
3:20	Tacoma Power's Shoreline Management Plan 101
3:35	USACE PACKS Programmatic Roll-out
3:55	Tacoma Power PACKS Application Tools
4:00	Q&A
5:00	Meeting Adjourned

Special Guests:

Joseph Pavel, Skokomish Tribe

Josh Taylor & Christina Schroeder, USACE

Ryan Mc Reynolds & Brianna English, USFWS

Jeff Vanderpham, NOAA/NMFS

Teresa Loo, Tacoma Power

Ground Rules

- **All guests will be muted during presentations**
- **Add questions to chat.** They will be answered during the Q&A session.
- **Live Q&A** as time allows
- **Meeting will be recorded and available on TPU's website**
- **Stay on topic**
- **Be respectful**

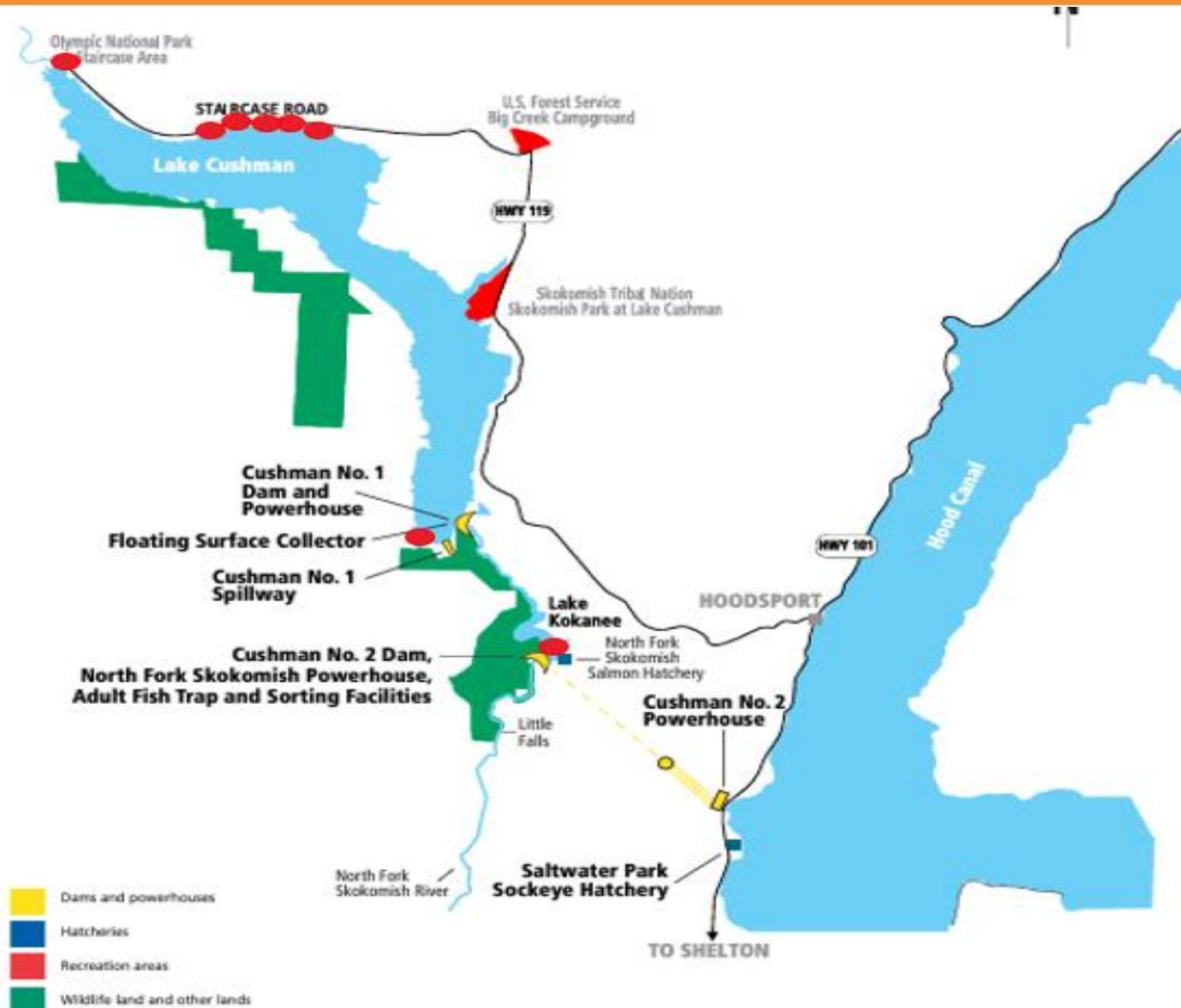


Welcome, Joseph Pavel

Director, Skokomish
Department of Natural
Resources



Cushman Hydroelectric Project



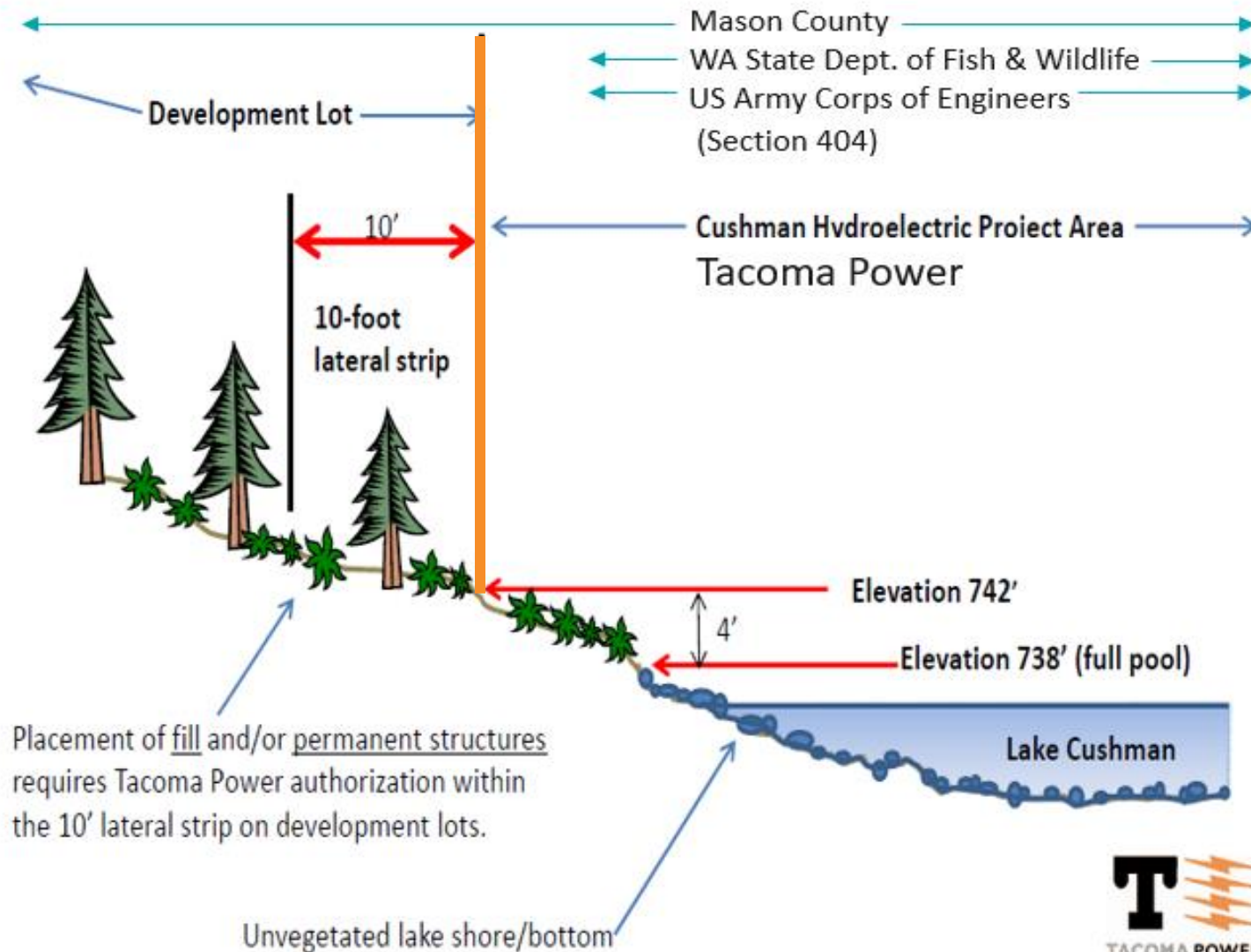
Cushman Dam No.1



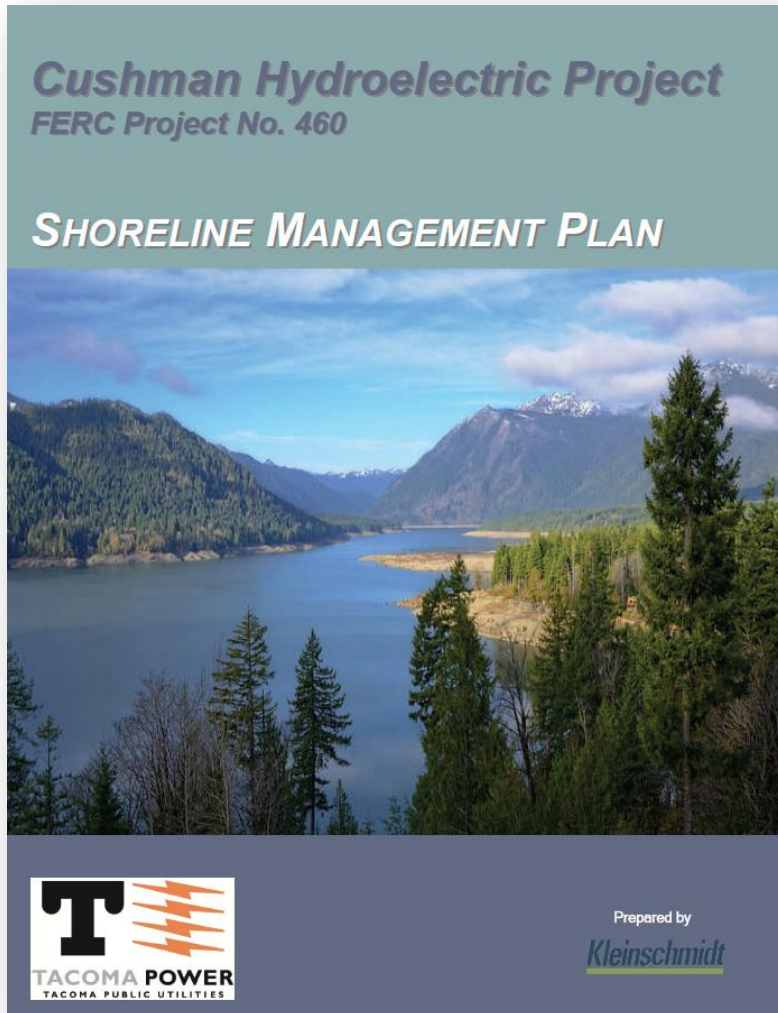
Cushman Dam No.2



Property Boundaries & Jurisdiction



Cushman Shoreline Management Plan



- FERC requirement
- Shoreline planning tool

Main objectives-

- Compliance with FERC and Settlement Agreement
- Protect and maintain natural and cultural resources
- Establish an opportunity for some private shoreline uses

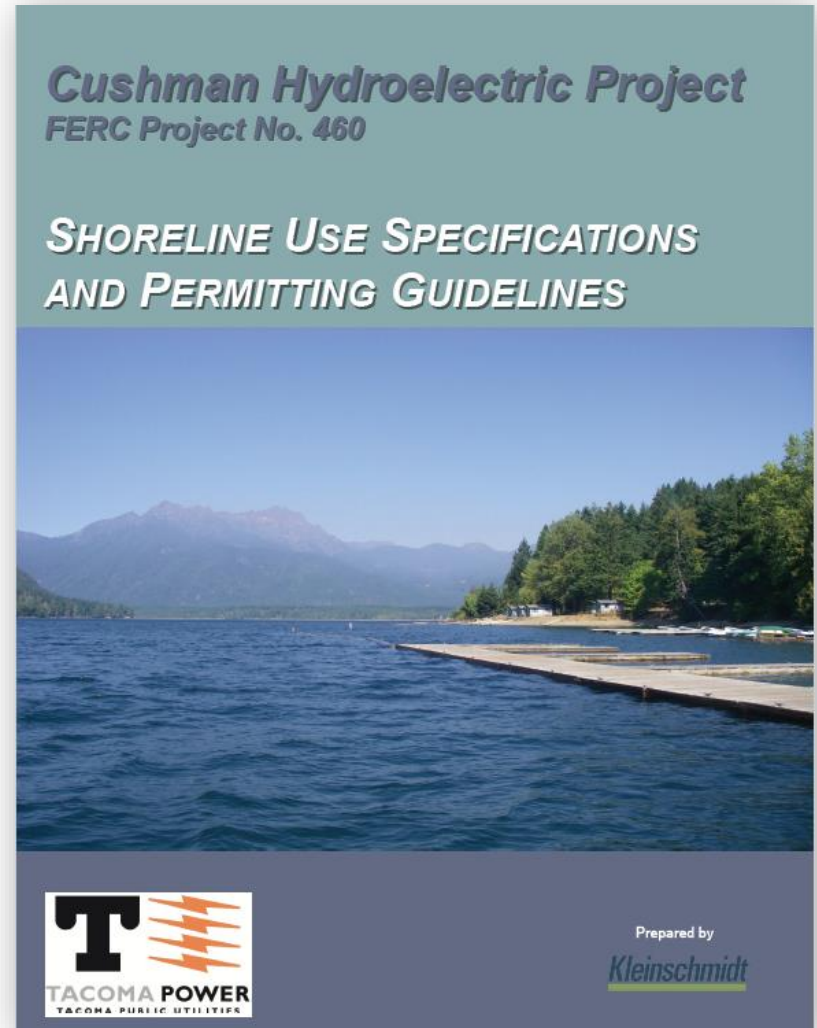
Shoreline Use Specification and Permitting Guidelines (SUSPG)



- Supports the SMP
- Handbook for eligible lessees

Main objectives-

- Describe allowed uses
- Define permitting (SUP) process
- Establish review criteria
- Outline requirements
- Provide development standards



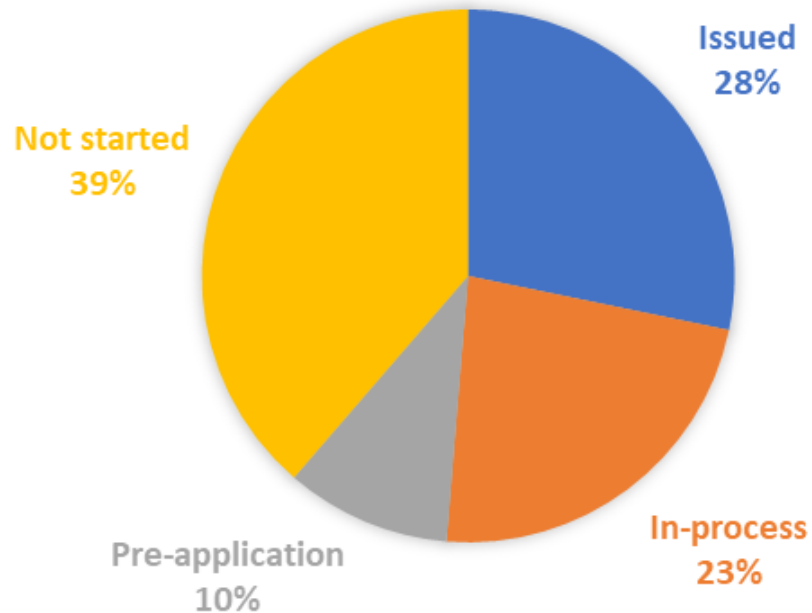
Implementation - Influencing Factors

- Condition of Existing Structures
- COVID-19 Continuing Impacts
- Timing:
 - Cultural Resources Surveys
 - Construction Window
- SUP Expiration or Change in Ownership
- Regulatory Permitting Complexity



SMP Implementation To Date

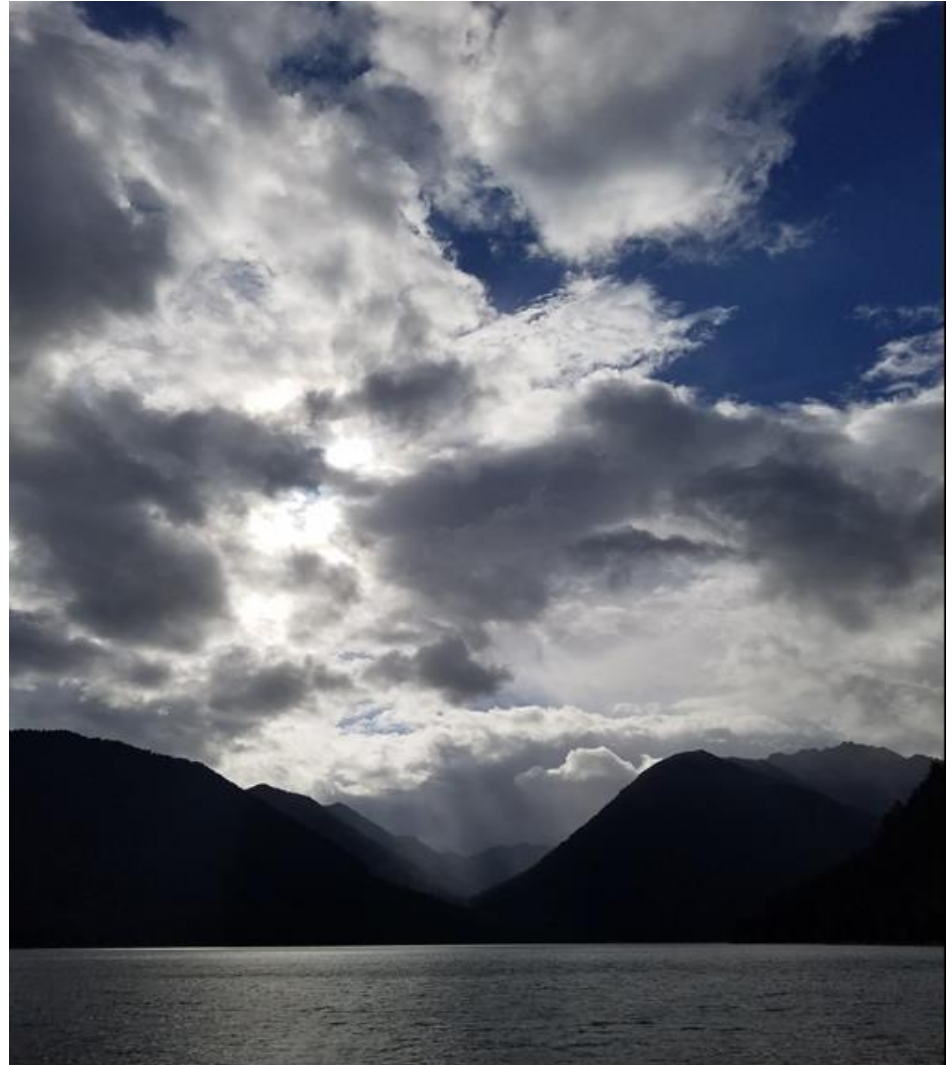
SHORELINE USE PERMIT STATUS



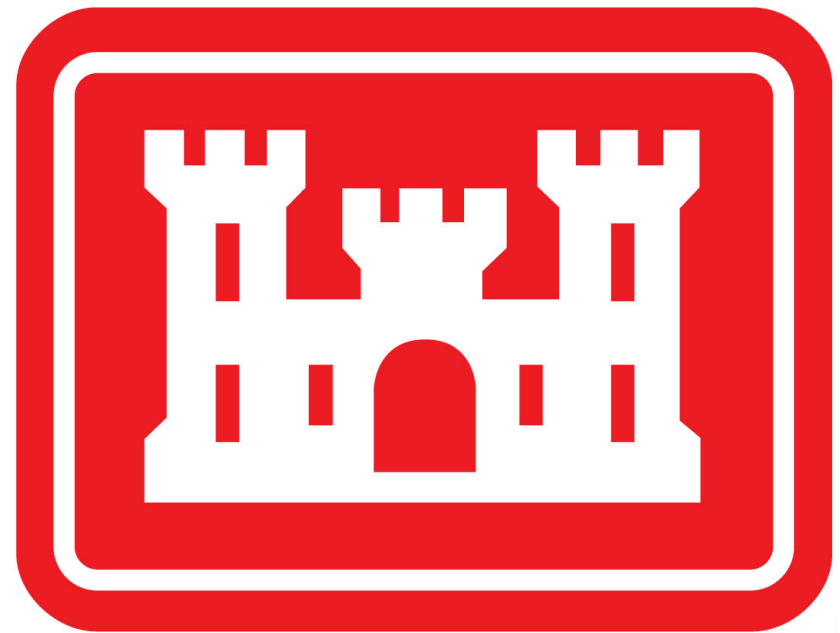
Regulatory Permitting Complexity



- Tacoma Power assistance
- Layers of regulation
 - Local (County)
 - State
 - Federal
- Extended timelines
 - Identify inefficiencies
- Solutions to meet our obligations
 - Corps PACKS Programmatic



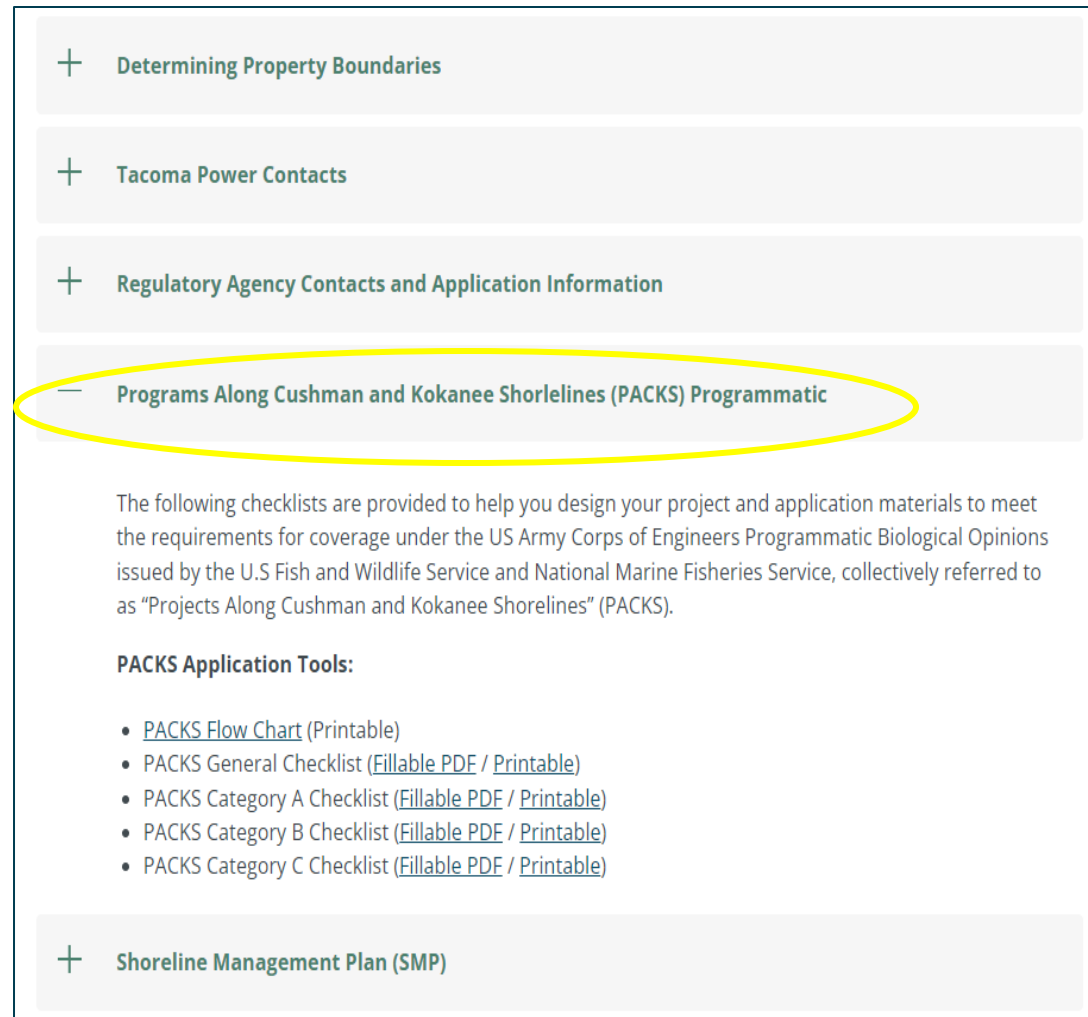
Welcome,
Kristin Mahen
Endangered Species Act
Coordinator,
US Army Corps of Engineers



www.mytpu.org/cushmanshoreline

Scroll down to:

“Programs Along Cushman and
Kokanee Shorelines (PACKS)
Programmatic”



Example Project Using PACKS

Issues Identified

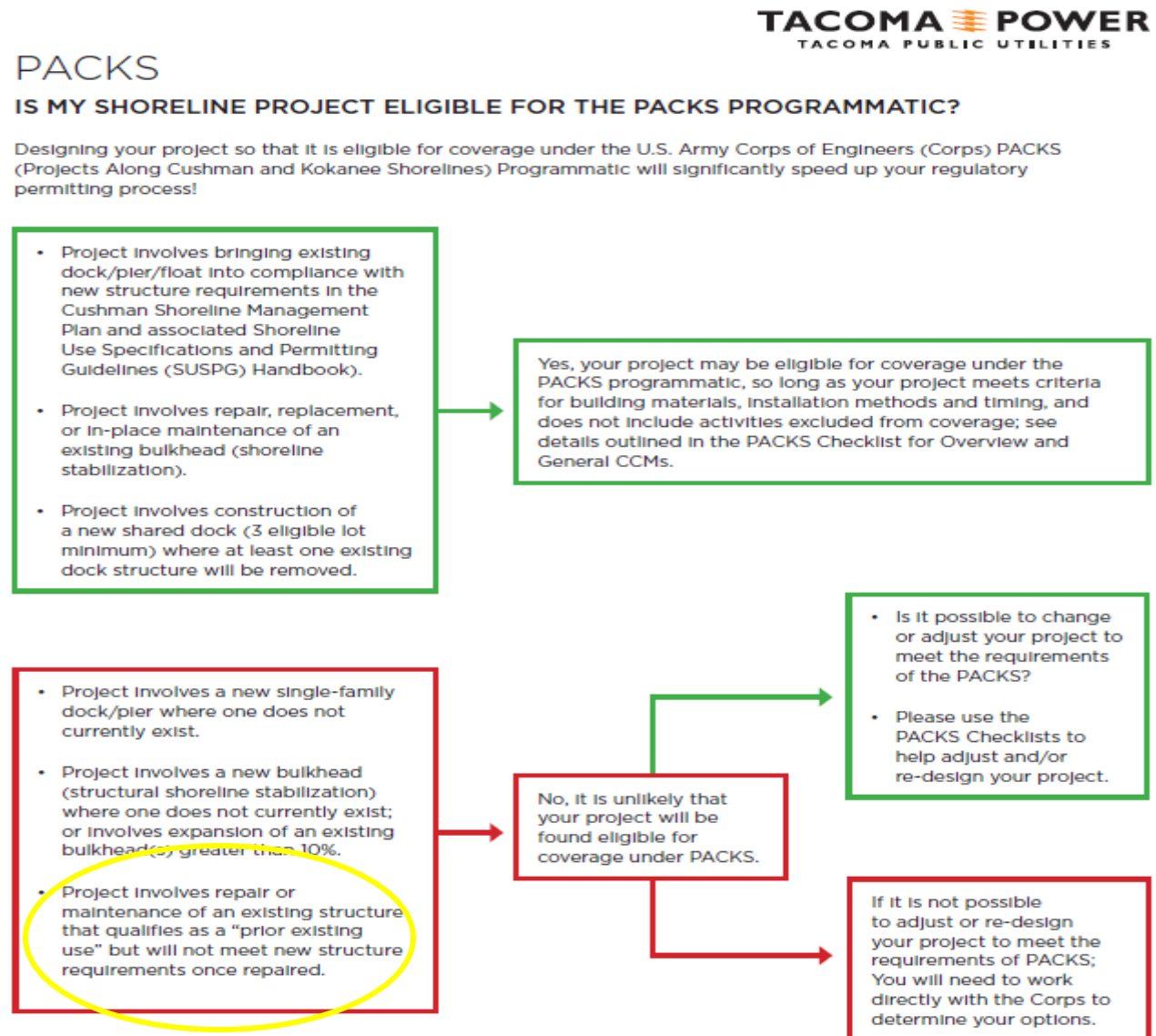
- Structures are at the end of their useful life
- Boat stored in nearshore vegetation
- Treated wood
- Solid decking
- Styrofoam flotation
- No float support
- Deck



PACKS Flow Chart

Start with the
flow chart

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PACKS General Checklist - Categories



General Category Checklist

Determine which checklists are needed based on the scope of your project:

- General CCM's
- Category A
- Category C

PROJECTS ELIGIBLE FOR PACKS CONSIDERATION:

Category	Subcategory and Covered Activity	Covered Activity Details	Included in your project? Y or N/A	Use the following checklists
Category A: Repair, Replace, Maintain In-Place^b	A1. Shoreline Stabilization Measures - Structural and Non-Structural	Repair, replacement, and/or maintenance of existing shoreline stabilization measures, including structural measures (e.g., concrete, rock, or lumber; including bulkhead, footings, and/or foundations) and non-structural measures (e.g., natural shorelines or bioengineering).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A	General CCM's & Category A
	A2. Boat Ramps - Community and Public <i>(NOTE: Private boat ramps are prohibited. Subcategory A2 for Community and Public Boat Ramps has an individual checklist.)</i>	In-place repair, replacement, or maintenance of existing community and public boat ramps comprised of poured concrete, concrete planks, and/or packed gravel.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A	General CCM's & Category A
	A3. Dock - Single Family, Shared, and Community ^d	Repair or replacement of non-commercial dock structure (including pile installation and removal).	<input checked="" type="checkbox"/> YES <input type="checkbox"/> N/A	General CCM's & Category A
	A4. Stairways/Steps and Walkways; Paths	Repair or replacement of existing stairway/steps, walkways, and paths.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> N/A	General CCM's & Category A
	A5. Temporary Use/ Temporary Access	Temporary uses that require a CWA Section 404 permit (e.g., Use of construction-related materials during reservoir drawdown [e.g., bulk bags, sandbags] to access site).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A	General CCM's & Category A
Category B: New or Ancillary Structures	B1. Dock - Shared	New shared dock structures for use by at least 3 or more lessees who share a single dock, if the action results in the removal of at least one existing single family dock.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A	General CCM's & Category B
	B2. Mooring Buoy; Swimming Float	Mooring buoys and swimming floats.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A	General CCM's & Category B
	B3. Lighting (solar or battery only) ^e	Lighting (associated with repair/ replacement actions of, e.g., docks/piers).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A	General CCM's & Category B
Category C: Habitat Improvement Actions	Includes habitat improvement actions that may accompany actions requiring a CWA permit.	Actions include: derelict debris removal, use of encapsulated floats, removal of treated wood pilings, reduction in overwater structure footprint, replacement of decking with grated surface, large wood installation.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> N/A	General CCM's & Category C

PACKS General Checklist – CCMs











General Construction Conservation Measures (CCMs)

- Respond to each CCM- N/A or Citation
- Sign and date each completed checklist
- Submit with your SUP application package

GENERAL CONSTRUCTION CONSERVATION MEASURES (CCMS):

All PACKS activities must comply with the following general CCMs, as applicable:

In the space provided after each CCM, applicants must provide a citation referencing the page number addressing that CCM in the appropriate document (i.e., geotechnical report, plan sheet) or "n/a" if not applicable. Submit these documents with your permit application package.

Construction related impact minimization measures	Citation or N/A
To the extent feasible, natural vegetation will be retained, and otherwise the extent and duration of earthwork (e.g., compacting, drilling, excavation, and filling) will be minimized.	<input type="checkbox"/> N/A JARPA Part 7a 
Geotextile fabric will be laid down prior to work to collect any debris during construction and for easy removal.	<input type="checkbox"/> N/A JARPA Part 8c 
All debris will be disposed of properly at an approved disposal site.	<input type="checkbox"/> N/A JARPA Part 8g 
Construction equipment will be cleaned and regularly checked for leaks, off-site and daily, before work is begun. Any required repairs will be completed in an upland location before the equipment is used in or near the water.	<input type="checkbox"/> N/A BMP document page 1 
Staging areas (used for activities such as equipment storage, vehicle storage, fueling, servicing, and hazardous material storage) will be established in a location and manner that will prevent contaminants such as petroleum products, hydraulic fluid, fresh concrete, sediments, sediment-laden water, chemicals, or any other toxic or harmful materials from entering waters of the state (Washington Administrative Code [WAC] 220-660-120[3]).	<input type="checkbox"/> N/A Site plan 
All staging areas will be in uplands and avoid effects on wetlands and lake(s).	<input type="checkbox"/> N/A Site plan 
After construction is complete, all temporary staging, storage, or stockpile areas will be returned to their pre-project condition (e.g., stabilize the soil, revegetate the area, and fill in any depressions caused from construction equipment used in the project). Areas where vegetation has been temporarily removed must be revegetated with trees, shrubs, and grasses native to the watershed at a density similar to pre-disturbance conditions.	<input type="checkbox"/> N/A BMP document page 1 
The use of equipment will be confined to specific access and work corridors to protect riparian, wetland, and aquatic vegetation.	<input type="checkbox"/> N/A Site plan 
If wet or muddy conditions exist in or near a riparian zone or wetland area, equipment that reduces ground pressure will be used whenever feasible.	<input checked="" type="checkbox"/> N/A
The use of pressure-treated lumber is not authorized under this consultation in any location.	<input type="checkbox"/> N/A Engineering plans sheets 1-3 
Equipment operating below the 742.0-foot contour of Lake Cushman must use environmentally acceptable lubricants composed of biodegradable base oils. These are vegetable oils, synthetic esters, and polyalkylene glycols.	<input type="checkbox"/> N/A BMP document page 1 

PACKS Category Checklists



Category Checklists

- Respond to each CCM- N/A or Citation
- Sign and date each completed checklist
- Submit with your SUP application package

PACKS Checklist

CATEGORY A: REPAIR, REPLACE, MAINTAIN IN-PLACE



Category	Subcategory and Covered Activity	Covered Activity Details
Category A: Repair, Replace, Maintain In-Place ^b	A1. Shoreline Stabilization Measures - Structural and Non-Structural	Repair, replacement, and/or maintenance of existing shoreline stabilization measures, including structural measures (e.g., concrete, rock, or lumber ^c , including bulkhead, footings, and/or foundations) and non-structural measures (e.g., natural shorelines or bioengineering).
	A2. Boat Ramps - Community and Public NOTE: Private boat ramps are prohibited.	In-place repair, replacement, or maintenance of existing community and public boat ramps comprised of poured concrete, concrete planks, and/or packed gravel.
	A3. Dock - Single Family, Shared, and Community ^d	Repair or replacement of non-commercial dock structure (including pile installation and removal).
	A4. Stairways/Steps and Walkways; Paths	Repair or replacement of existing stairway/steps, walkways, and paths.
	A5. Temporary Use/Temporary Access	Temporary uses that require a CWA Section 404 permit (e.g., Use of construction-related materials during reservoir drawdown [e.g., bulk bags, sandbags] to access site).

PACKS Checklist

CATEGORY C: HABITAT IMPROVEMENT ACTIONS



Category	Subcategory and Covered Activity	Covered Activity Details
Category C: Habitat Improvement Actions	Includes habitat improvement actions that may accompany actions requiring a Clean Water Act, Section 404 permit (404 permit).	Actions include: derelict debris removal, use of encapsulated floats, removal of treated wood pilings, reduction in overwater structure footprint, replacement of decking with grated surface, large wood installation.

Example Project Completed

Work Completed

- Structures replaced
- Boat removed from nearshore vegetation
- Untreated wood*
- Grated decking
- Encased flotation
- Pipe pilings create float support
- Deck pulled back to property boundary



Before and After



Questions?



Thank You For Attending



Thank you to our presenters, guests, and attendees. We look forward to working with you on your shoreline projects!

Contact information:

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wwright@cityoftacoma.org

Tacoma Power Cushman Shoreline Website:

www.MyTPU.org/cushmanshoreline

- Tacoma Power SMP, SUSPG, SUP application, and more!
- Regulatory Agency Contact information
- PACKS Tools

Sign up for our email list:

[Join our Cushman Hydro Project email list - Tacoma Public Utilities \(mytpu.org\)](http://mytpu.org)