



# Introduction to 122.2 FWMPs

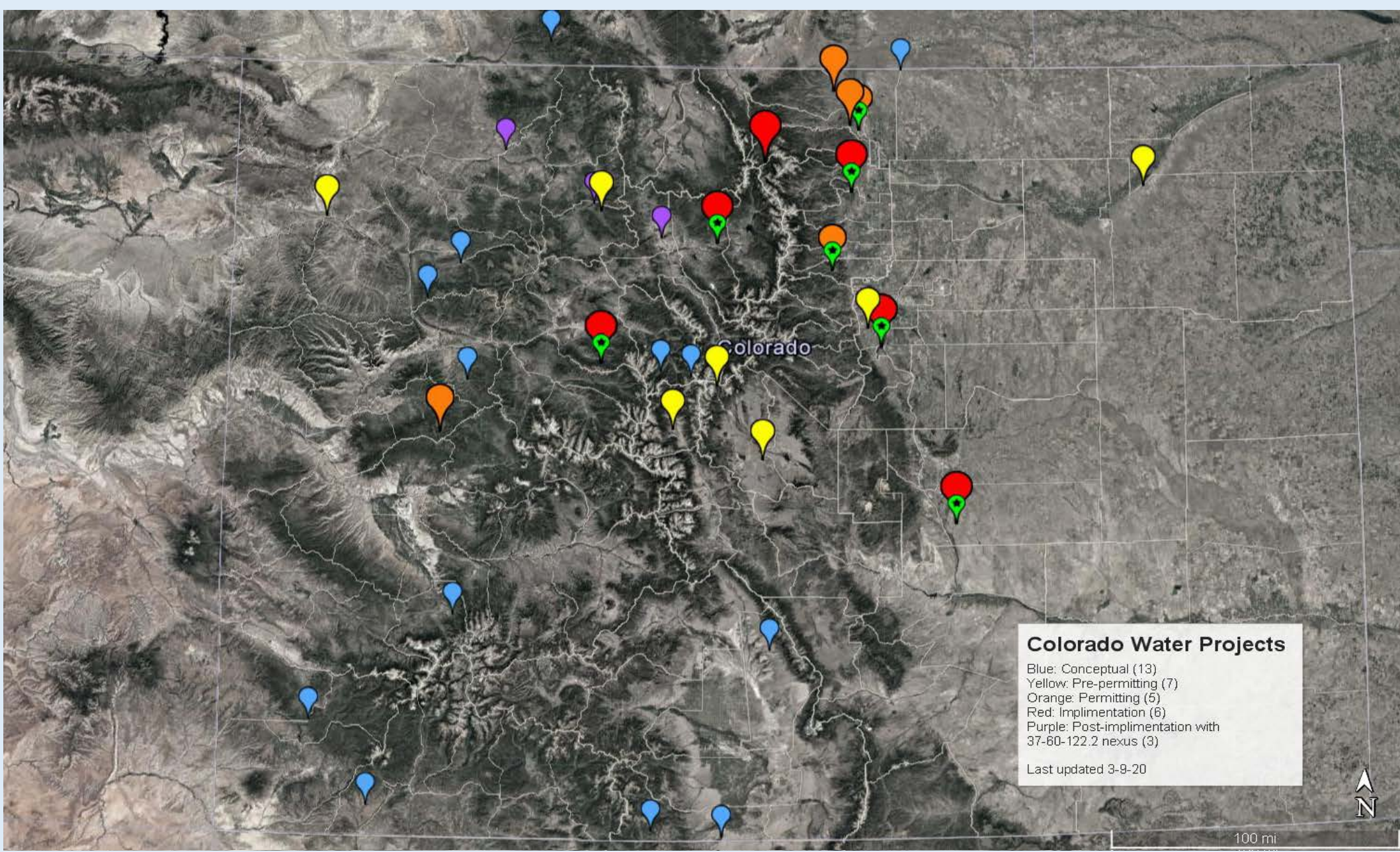
Colorado Parks and Wildlife Commission

Karlyn Armstrong, Sr. Water Resources Engineer and Water Project Mitigation Coordinator

May 6, 2020



LIVE LIFE  
OUTSIDE



LIVE LIFE  
OUTSIDE

# Water Project Permitting

FEDERAL	STATE	LOCAL
<p>Example permitting agencies:</p> <ul style="list-style-type: none"> <li>• Army Corps of Engineers</li> <li>• Bureau of Reclamation</li> <li>• Bureau of Land Management               <ul style="list-style-type: none"> <li>• Forest Service</li> <li>• National Parks Service</li> </ul> </li> <li>• Federal Energy Regulatory Commission</li> </ul> <p>All federal permitting actions require a NEPA analysis</p>	<p>CO Dept. of Public Health and Environment</p> <ul style="list-style-type: none"> <li>• 401 Certification for Clean Water Act 404 Permit and/or FERC license</li> </ul> <div style="border: 2px solid red; padding: 5px;"> <p>CO Dept. of Natural Resources (CPW and CWCB)</p> <ul style="list-style-type: none"> <li>• Fish and Wildlife Mitigation Plan</li> </ul> </div> <p>Office of Archaeology and Historic Preservation</p> <ul style="list-style-type: none"> <li>• Sec 106 compliance of National Historic Preservation Act</li> </ul>	<p>Counties and municipalities</p> <ul style="list-style-type: none"> <li>• 1041 permits</li> </ul>

Source: Handbook: Colorado Water Supply and Permitting, June 2017

# Fish and Wildlife Mitigation Plans

- State of Colorado's position
- *Not a permit*
- *Not a project endorsement*



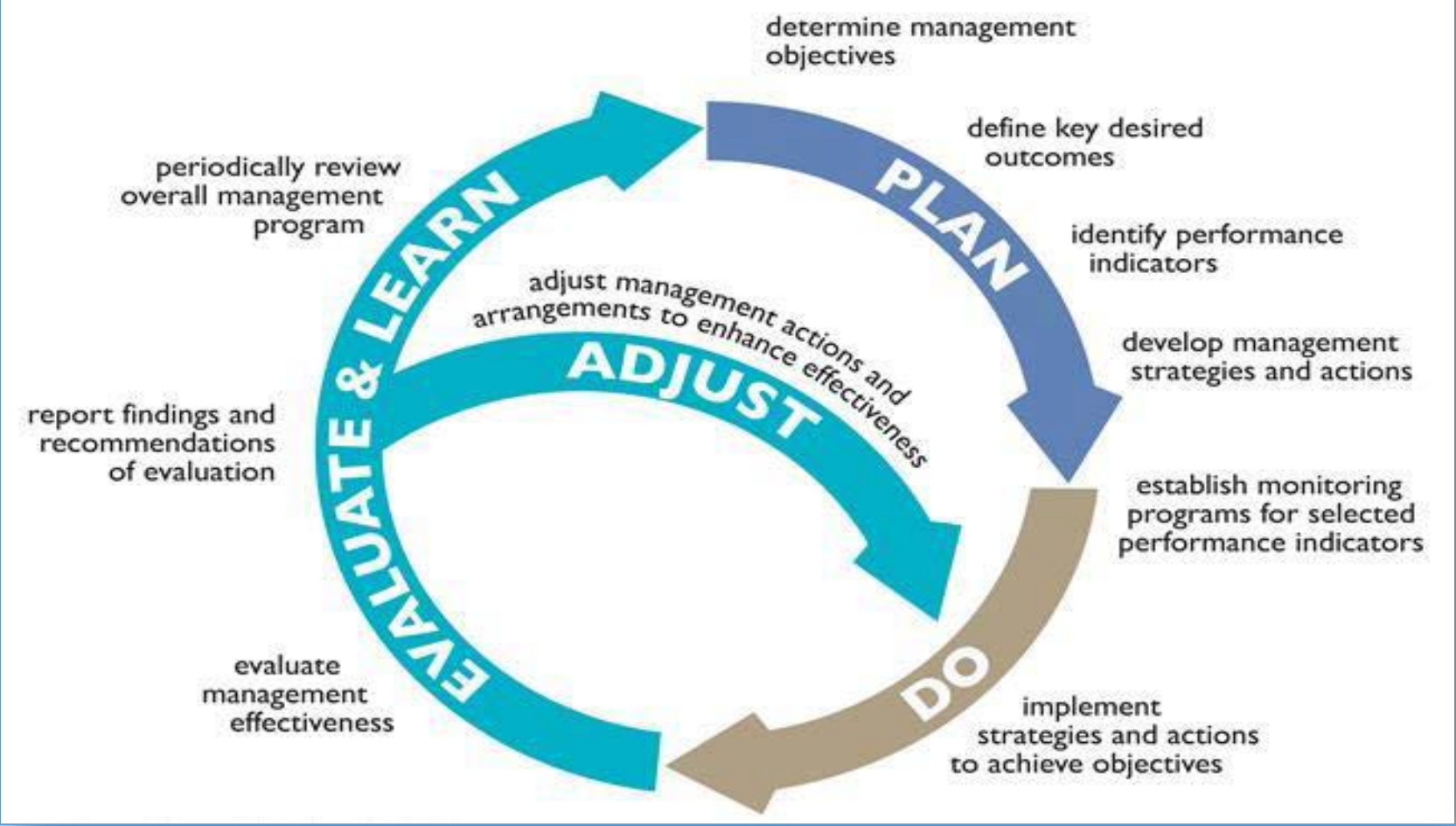
LIVE LIFE  
OUTSIDE

# Every FWMP is Unique



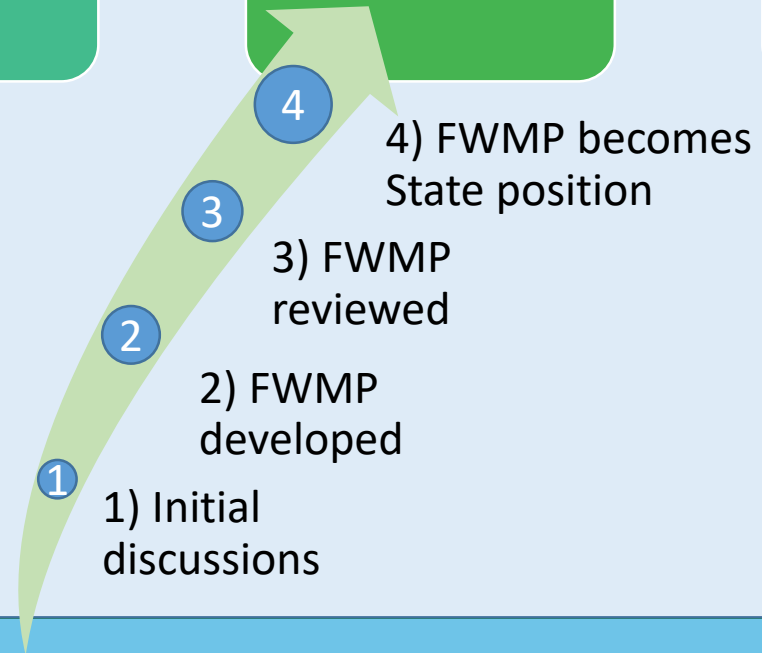
LIVE LIFE  
OUTSIDE

# The adaptive management cycle



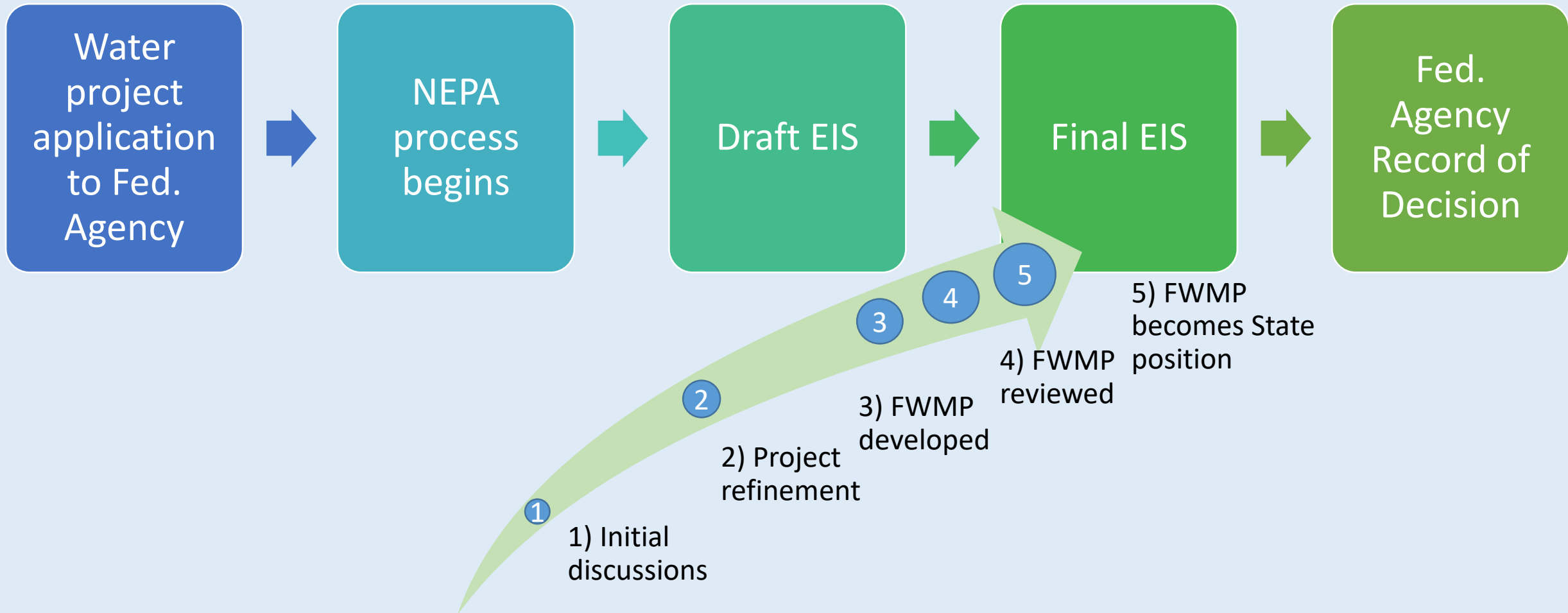
LIVE LIFE  
OUTSIDE

# FWMP Development



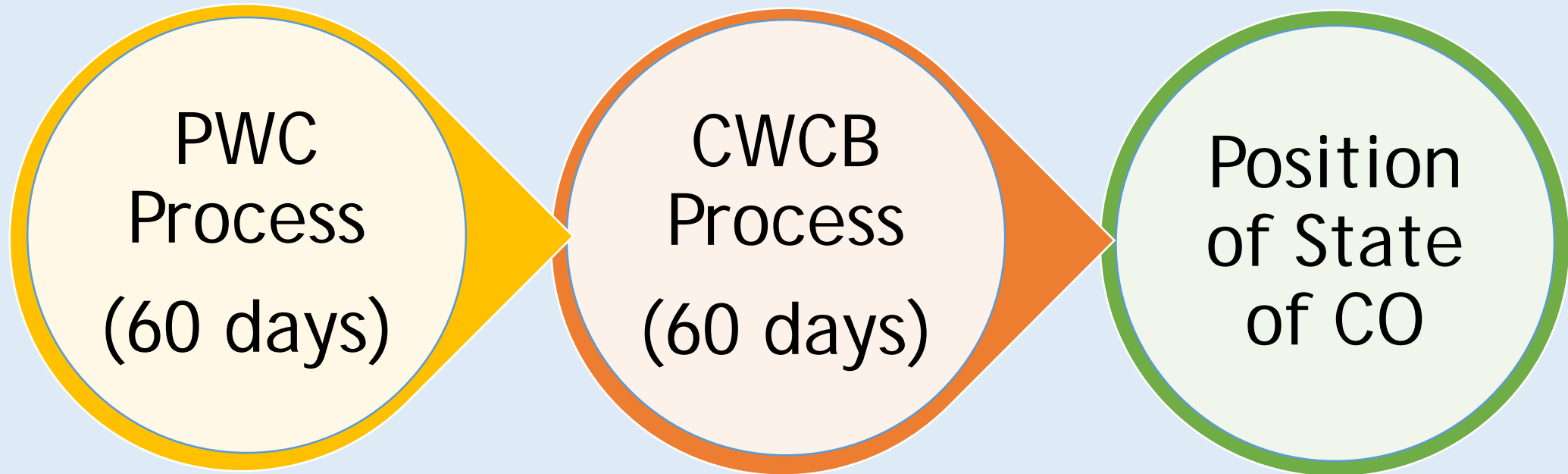
LIVE LIFE  
OUTSIDE

# FWMP Development





# FWMP Recommendation Process



- Applicant submits FWMP to PWC
- CPW staff report
- PWC vote on FWMP
  - Submitted or modified

- CWCB vote on FWMP
- If PWC and Applicant agree on FWMP, adopt FWMP
- If PWC modified FWMP, affirm or modify PWC's position

- If CWCB affirms PWC's FWMP, it becomes state position
- If CWCB *modifies* PWC's FWMP, governor decision



LIVE LIFE  
OUTSIDE

# Evaluation of FWMPs



“...economically reasonable and maintains a balance between the development of the state’s water resources and the protection of the state’s fish and wildlife resources.”



LIVE LIFE  
OUTSIDE

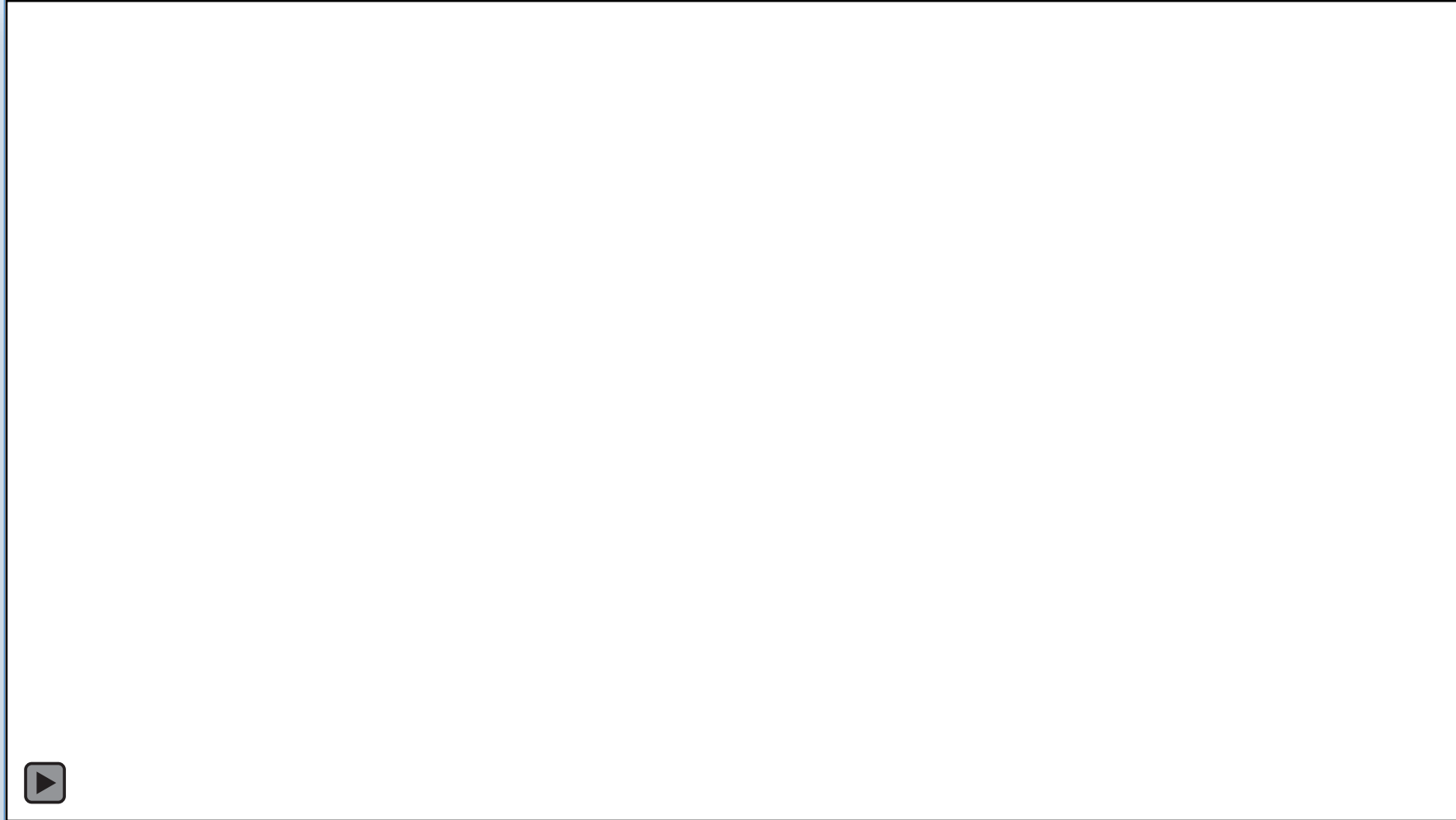
# FWMP Implementation

- Two ways to implement:
  - Adoption by permitting authorities
  - Agreement between CPW and project proponent



LIVE LIFE  
OUTSIDE

# Mitigation vs. Enhancement



Mitigation: reduction of or compensation for impacts caused by the water project

Enhancement: improvement of ecosystem beyond current conditions



LIVE LIFE  
OUTSIDE