

ROC on LTO Ideas

Idea	Category	Description	River	Assigned To:	Source of Idea	Track 1	Track 2	Track 3
Delta Smelt Hatchery	Hatchery	Build one	Delta		USFWS + Water Users			
Flow for Food - Add Fertilizer to Sacramento Deep Water Ship Channel	Food				Erwin	x		x
CVP Preferential Pumping	Water Supply							
Fail X2	Water Quality							
SJR 4:1 IE	Water Supply							
Georgiana Slough No Ground Disturbance Fish Barrier	Barriers							
Sediment Reintroduction Plan	Substrate							
Predator Removal	Predators		Sacramento		USFWS / Armin	x?		
Release "junk food" - copopod hatchery	Food	dump dredge material in Sac River						
Head of Old River Barrier	Barriers							
WIN Act Storm Events - make it permanent	Water Supply							
Conceptual Analysis of Storage SOD / NOD + Conveyance	Water Supply							
SWP draw off CVP / SWP connector channel instead of through Clifton Court gates	Infrastructure				DC		x	
SJR I:E ratio	Water Supply	Base flows on New Melone Index (Specifics in document)	San Joaquin		Coalition for a Sustainable Delta comments (LTO Remand) pg. 3	x		
Scent Dog Surveys for Smelt	Monitoring/Modeling							
eDNA Smelt Surveys	Monitoring/Modeling							
Smelt Spawning Substrate Studies	Substrate				Carl Dealy, others	x?		
Modify Delta Smelt Take Number / Methodology	ESA				USFWS	X?		
100% Mark all hatchery fish	Hatchery	Improve hatchery genetics	All		Clear Creek ROC Band			X?
Decrease hatchery production	Hatchery		All		Clear Creek ROC Band			X?
Eliminate trucking of hatchery fish	Hatchery		All		Clear Creek ROC Band			X?
Determine genetics before spawning (avoid inbreeding)	Hatchery		All		Clear Creek ROC Band			X?
Use weirs or flows/temp to segregate hatchery from wild fish; different runs	Infrastructure		All		Clear Creek ROC Band			
Increase geomorphic flows / pulses	Flows		All		Clear Creek ROC Band			X?
Increase channel complexity, habitat	Habitat		All		Clear Creek ROC Band			X?
Temperature Control Devise on release outlets	Temperature		All		Clear Creek ROC Band			
Fire Management - encourage old growth forests with thin understory	Upstream		All		Clear Creek ROC Band			
Modify release outlets to reduce flood risk and increase geomorphic flows	Op Flex		All		Clear Creek ROC Band			
Natural hydrograph / % inflow hydrograph	Flows		All		Clear Creek ROC Band			
Remove Lewiston Dam	Barriers		All		Clear Creek ROC Band			
Close rivers to fishing during listed fish spawning	Fishing		All		Clear Creek ROC Band			
Decommission logging roads and illegal private roads	Upstream		All		Clear Creek ROC Band			
Add wood / trees / vegetation for cover and shade	Habitat		All		Clear Creek ROC Band			
Improve temperatures in all tribes through integrated management	Monitoring/Modeling		All		Clear Creek ROC Band			
Change fishing regulations - decrease size limit, increase bag limit of predators	Fishing		All		Clear Creek ROC Band			
Enforce current rules (for pollution, poaching, etc)	Fishing		All		Clear Creek ROC Band			
Monitor water quality - especially near Cannabis areas	Monitoring/Modeling		All		Clear Creek ROC Band			
Increase education / outreach (water conservation, fish, poaching, pollution, etc)	Education		All		Clear Creek ROC Band			
Reintroduce fish above dams	Reintro		All		Clear Creek ROC Band			
Increase juvenile habitat	Habitat		All		Clear Creek ROC Band			
Introduce beavers for channel complexity and groundwater recharge	Upstream		All		Clear Creek ROC Band			
Remove invasive plants	Invasives		All		Clear Creek ROC Band			
Offstream ponds / hold juveniles in a controlled environment	Habitat		All		Clear Creek ROC Band			
Create a terminal fishery	Fishing		All		American River Stakeholder Workshop			
Bioswales, pollution prevention	Water Quality				American River ROC Band			
Pump-back for power generation	Power				American River ROC Band			
Upstream watershed restoration to increase infiltration, improve water quality	Upstream				American River ROC Band			
Legalize home greywater for surface release	Water Supply				American River ROC Band			

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Rainwater collection at homes	Water Supply				American River ROC Band			
Charge more for water	Funding				American River ROC Band			
Build groundwater recharge basins	Infrastructure				American River ROC Band			
Keep exchanges in-basin	Water Supply				American River ROC Band			
Time exchanges when not other uses	Water Supply				American River ROC Band			
Transfer after temperature control season before flood (Nov-Dec)	Water Supply				American River ROC Band			
Out basin transfers should occur in Nov-Dec window	Water Supply				American River ROC Band			
Add to baseflows during drought with transfers	Flows				American River ROC Band			
Permeable pavement	Water Supply				American River ROC Band			
Off-river storage	Infrastructure				American River ROC Band			
Grants for leak detection	Water Supply				American River ROC Band			
Ban Lawns	Water Supply				American River ROC Band			
Divert hottest possible water for M&I	Water Supply				American River ROC Band			
Chiller on M&I Intake	Temperature				American River ROC Band			
Thermal curtain in Folsom	Temperature				American River ROC Band			
Cover Natoma in solar panels	Temperature				American River ROC Band			
Little black solar balls in Natoma	Temperature				American River ROC Band			
Folsom Dam Raise	Infrastructure				American River ROC Band			
Change timing of diversions - rewards system	Water Supply				American River ROC Band			
Supplement with cold groundwater	Water Supply				American River ROC Band			
Cofferdam access conduit @ bottom of the lake	Infrastructure				American River ROC Band			
Shunt to power plant	Infrastructure				American River ROC Band			
Power Bypass Funding	Power				American River ROC Band			
EID Intake Curtain or TOD	Temperature				American River ROC Band			
Increase storage to increase cold water pool	Storage				American River ROC Band			
Work with upstream water users to store water early in the year before lake stratifies					American River ROC Band			
Schedule transfers earlier in the year	Coordination				American River ROC Band			
Build Auburn Dam	Coordination				American River ROC Band			
Permanently Degang Shutters	Infrastructure				American River ROC Band			
Dredge Folsom Lake	Infrastructure				American River ROC Band			
Chillers	Infrastructure				American River ROC Band			
Elephant Trunk Temperature Control Device	Infrastructure				American River ROC Band			
Deepen Natoma	Infrastructure				American River ROC Band			
Pipe Water from Folsom to Nimbus or Trinity to Whiskeytown	Infrastructure		All		American River ROC Band			
Enforce anti-flooding / snagging laws	Enforcement				American River ROC Band			
Identify all barriers (low flow, thermal, critical riffles, stranding locations)	Monitoring/Modeling				American River ROC Band			
Fix Barriers / Remove	Barriers				American River ROC Band			
Whoosh for fish passage above dams (volitional denelt)	Reintro				American River ROC Band			
Pulse flows to connect to off-channel habitat and re-connect 4-6 weeks later	Flows				American River ROC Band			
Flush out salmonids before mid-May	Flows				American River ROC Band			
Operate Nimbus Gates (river left) to increase turbidity, time with King tides	Flows				American River ROC Band			
Start low and ramp up flows in fall with restoration site design in-line	Flows				American River ROC Band			
Some spring flows - freshets outmigration	Flows				American River ROC Band			
Fall attraction flows	Flows				American River ROC Band			
Uncement otherwise suitable habitat (ripping)	Substrate				American River ROC Band			
Drop to maintain redds, increase to flush juveniles out	Flows				American River ROC Band			
Vegetate levees	Habitat				American River ROC Band			
Increase allochthonous inputs (trees, etc)	Food				American River ROC Band			
Add gravel / cobble - inject during high flow	Substrate				American River ROC Band			
Gravel talus cone to move in high flows	Substrate				American River ROC Band			
Large woody debris from parkway tree removal	Habitat				American River ROC Band			

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Move riprap to deep pools, replace with planted levees	Habitat				American River ROC Band			
7 DADM on the American River	Temperature				American River ROC Band			
Move temperature compliance point to a spot to manage	Temperature				American River ROC Band			
Multiple temperature compliance points	Temperature				American River ROC Band			
Habitat quality / carrying capacity tradeoff table habitat + temp focus, change, target sites	Habitat				American River ROC Band			
DuPont Spinners for predators	Predators				American River ROC Band			
Temporary Alaskan weir to prevent adult striped bass	Predators		Stan, Feather, American		American River ROC Band			
Eliminate bag limit for striped bass	Predators				American River ROC Band			
Keep flows below scour levels (20,000 cfs)	Flows				American River ROC Band			
Warming stations in parking lots for homeless with kitchens and toilets	?				American River ROC Band			
Increase law enforcement	Enforcement				American River ROC Band			
Outreach re: flow changes	Education				American River ROC Band			
Reintroduce spring run fish	Reintro		American		American River ROC Band			
Limit runoff from industrial processes	Water Quality				American River ROC Band			
Tream stormwater runoff	Water Quality				American River ROC Band			
High-flow turbidity curtain @ Nimbus ("muddying")	Infrastructure				American River ROC Band			
"Organic screening" for desired turbidity	Water Quality				American River ROC Band			
Stir up reservoir to increase turbidity	Water Quality				American River ROC Band			
Aquatic jet	Water Quality				American River ROC Band			
Increase spawning habitat	Habitat				American River ROC Band			
Increase flows above 800 cfs using B2 as a team integration with multiple agencies	Flows				American River ROC Band			
Ramping flows	Flows				American River ROC Band			
Protections for non-natal habitat - interagency group - cold water from Shasta?	Habitat				American River ROC Band			
Shift to performance (fish) based objectives rather than individual variable (flow, temp) management	Approach				American River ROC Band			
Multi-year management where possible	Approach				American River ROC Band			
Options and inter-year flexibility / adaptive management	Approach				American River ROC Band			
Test whether things are working with empirical data	Approach				American River ROC Band			
Implement adaptive management - more tools and funding to meet objectives in a year and long-term	Approach				American River ROC Band			
Temp curtain @ Natoma	Temperature				American River ROC Band			
Brownie Points - temp, productivity, habitat quantity and quality - feed into a decision tree for population-wide effects	Habitat				American River ROC Band			
New ladder and get rid of American River fish hatchery weir	Hatchery				American River ROC Band			
Focus on native fish / conservation goals with the hatchery	Hatchery				American River ROC Band			
Presence based temperature targets based on spatial locations	Temperature				American River ROC Band			
Reserve water for fall-run	Flows				American River ROC Band			
Change steelhead stock in the American River fish hatchery (currently Eel River stock)	Hatchery				American River ROC Band			
Minimize development in floodplain areas	Habitat				American River ROC Band			
Flushing flows to eliminate weeds	Invasives				American River ROC Band			
Spray / weedkiller in Lake Natoma	Invasives				American River ROC Band			
Lower river / lake to dry up invasive vegetation	Invasives				American River ROC Band			
Harvest invasive plants and use as fertilizer / flood	Invasives				American River ROC Band			
Adaptive management for ramping rates - do in a shorter time	Flows				American River ROC Band			
Cover the Folsom South Canal with solar panels - floating	Power				American River ROC Band			
Pull all the cars out of the DMC and California Aqueduct - ramp down in nighttime	Water Supply				American River ROC Band			
Construct a powerplant on the river outlets (upper and lower)	Power				American River ROC Band			
Reimburse power for power bypass / foregone power	Power				American River ROC Band			

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Re-negotiate CVPIA	Power				American River ROC Band			
Eliminate CVPIA	Power				American River ROC Band			
Coordinate maintenance timing	Power				American River ROC Band			
Increase power maintenance	Power				American River ROC Band			
Improve planning - give operators more than 1 day heads up if need fish pickets installed	Power				American River ROC Band			
Raise levees	Power				American River ROC Band			
New Water Control Manual	Flood				American River ROC Band			
Follow iCPMM	Flood				American River ROC Band			
Lower elevation of parkway fill to increase inundation	Flood				American River ROC Band			
Change FGC on hatcheries (6938)	Habitat				American River ROC Band			
Triploid hatchery	Hatchery				American River ROC Band			
Unlimited lake of finclipped fish	Hatchery				American River ROC Band			
Make hatchery fish to meet ocean harvest target triploid	Hatchery				American River ROC Band			
Install flip-flops (turbulence generating concrete sill)	Hatchery				American River ROC Band			
Move nimbus hatchery intake	Water Quality				American River ROC Band			
Reduce deep plunging of water	Hatchery				American River ROC Band			
Stir / cascade / degas water	Water Quality				American River ROC Band			
Implement HGMP / HSRG	Water Quality				American River ROC Band			
juvenile refugia - exclude large predators	Hatchery				American River ROC Band			
pay homeless to fish for predators	Habitat				American River ROC Band			
bounties for predators like columbia river basin	Predators				American River ROC Band			
strains from different hatcheries each year	Predators				American River ROC Band			
match strains - spawn in-river and in-hatchery	Hatchery				American River ROC Band			
robust (not narrow) genetics	Hatchery				American River ROC Band			
Establish below before reintroduce above dam (colonize population)	Reintro				American River ROC Band			
Pilot O. mykiss anadromy tests	Reintro				American River ROC Band			
Elevation markers on parkway - mark cfs levels for education and safety	Education				American River ROC Band			
Clear trails	Education				American River ROC Band			
More ADA access	Education				American River ROC Band			
Mark / signage for trails that stay dry	Education				American River ROC Band			
Trails line with lime dust or DG for wheelchair access	Education				American River ROC Band			
100% ad clipped fall-run - 100% mark hatchery fish - DFW has a plan - AB7	Education				American River ROC Band			
no fishing limit on hatchery steelhead	Hatchery				American River ROC Band			
Decrease ocean harvest for wild fish	Hatchery				American River ROC Band			
More areas of no fishing on good habitat	Enforcement				American River ROC Band			
shaming enforcement - girl/boy scouts	Enforcement				American River ROC Band			
Forecast FCM & upstream reservoirs	Enforcement				American River ROC Band			
Take water from the Yuba River	Water Supply				American River ROC Band			
Loss of snowpack - effects on fish and flows - sensitivity analysis; layer climate change analysis so it is temporal with the actions being proposed	Water Supply				American River ROC Band			
Look at environmental factors instead of OMR ranges	Approach				Water User Workshop			
Look at environmental factors / new science / habitat locations for Delta outflow	Approach				Water User Workshop			
Evaluate new science from Stanislaus River related to OCAP	Approach				Water User Workshop			
Genetic testing of salmon vs. measuring	Hatchery				Water User Workshop			
Different definition of Delta smelt habitat	Habitat				Water User Workshop			
Expand Delta smelt monitoring locations	Monitoring/Modeling				Water User Workshop			
EDSM - how/where	Monitoring/Modeling				Water User Workshop			
Modernize smelt/salmon monitoring	Monitoring/Modeling				Water User Workshop			
Improve in-Delta screens / evaluate effects	Screens				Water User Workshop			
Habitat vs. entrainment for Delta smelt (move to / need to work on habitat)	Habitat				Water User Workshop			

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Modernize fish salvage facilities	Screens				Water User Workshop			
Update Folsom temp control shutters	Temperature				Water User Workshop			
Water Forum Habitat Management (HME)	Habitat				Water User Workshop			
Habitat restoration to change reverse flows at Georgiana Slough junction	Habitat				Water User Workshop			
Physical and non-physical barriers in the Delta	Barriers				Water User Workshop			
Revisit HORB - if at all, when	Barriers				Water User Workshop			
Evaluate 1,500 cfs minimum export	Water Supply				Water User Workshop			
Revised FMS storage targets	Storage				Water User Workshop			
Refine real-time flood ops to maximize benefits	Flood				Water User Workshop			
Storm event flexibility - WIIN 4002, 4003	Flood				Water User Workshop			
Calendar triggers on export restrictions (salmon OMR, etc)	Water Supply				Water User Workshop			
New Melones RPO	Water Supply				Water User Workshop			
4:1 IE Ratio Alternative	Water Supply				Water User Workshop			
Fishing Regulations - 100% mark and selective harvest	Hatchery				Water User Workshop			
Invasive weed spraying locations - hyacinth vs. smelt	Invasives				Water User Workshop			
Toxics tools (MWD has info)	Water Quality				Water User Workshop			
When there are curtailments, optimize release schedules for multiple benefits	Flows				American River Stakeholder Workshop			
Gate closures for water quality vs. salmon survival: side channels weirs	Water Quality				American River Stakeholder Workshop			
Flexibility in X2 requirement	Water Quality				American River Stakeholder Workshop			
Look at efficacy of actions outside the American	Approach				American River Stakeholder Workshop			
Pulse from Shasta for spring-run	Flows				American River Stakeholder Workshop			
Bigger reservoirs	Water Supply				American River Stakeholder Workshop			
Raising Folsom (Shasta?)	Water Supply				American River Stakeholder Workshop			
Better optimize storage vs flows	Water Supply				American River Stakeholder Workshop			
Better tools for modeling (than DSM2) to see how all projects can equitably meet Delta needs	Water Supply				American River Stakeholder Workshop			
Coordination of pulse flows of Shasta and Oroville (role in LTO) - water quality is a concern	Monitoring/Modeling				American River Stakeholder Workshop			
Municipalities take actions to reduce turbidity (below Sacramento)	Coordination				American River Stakeholder Workshop			
Super-impose turbidity to facilitate out-migration with less predation	Water Quality				American River Stakeholder Workshop			
Use Nimbus to flood during drought years	Water Quality				American River Stakeholder Workshop			
Water quality concerns and challenge bureaucratically - Nimbus gates change release --> increase turbidity	Flows				American River Stakeholder Workshop			
Coordinate Oroville and Shasta pulse flows - propose a rule requiring this	Water Quality				American River Stakeholder Workshop			
Avoid scheduling power maintenance when water is available for power generation	Coordination				American River Stakeholder Workshop			
Identify an additional funding source to supplement CVPIA	Power				American River Stakeholder Workshop			
Fish and Wildlife habitat management element "all the best available science"	Power				American River Stakeholder Workshop			
Improve prioritization for spending and include process and who participates	Approach				American River Stakeholder Workshop			
Create the most habitat that is useful for the least water	Approach				American River Stakeholder Workshop			
Limit / manage water cost for pulse flows	Habitat				American River Stakeholder Workshop			
Off-stream habitat to replace some reservoir storage reserved for flood control, allowing greater flexibility for other purposes	Flows				American River Stakeholder Workshop			
Bypass Nimbus Dam to move cold water	Flood				American River Stakeholder Workshop			
Remove Nimbus Dam - would need to minimize impacts to power peaking	Temperature				American River Stakeholder Workshop			
Modernize Folsom releases for temperature	Water Supply				American River Stakeholder Workshop			
Increase American River habitat - setback levees + lowered floodplains	Temperature				American River Stakeholder Workshop			
Move temperature compliance point upstream	Habitat				American River Stakeholder Workshop			
Use Olympic kayak course near Nimbus Dam as a fish bypass	Temperature				American River Stakeholder Workshop			
Construct an inflatable weir downstream of Nimbus to discourage spawning just downstream of Nimbus (in an area open for fishing)	Reintro				American River Stakeholder Workshop			
	Fishing				American River Stakeholder Workshop			

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Use fiber optic cable to improve temperature data collection (may not be needed)	Temperature				American River Stakeholder Workshop			
Avoid the use of lower level outlets and maximize peak storage to improve cold water pool early in the year	Temperature				American River Stakeholder Workshop			
Store extra water in the first year - dry-year carryover storage. Contracts would forego supply and leave water in the reservoir. EBMUD is willing.	Temperature				American River Stakeholder Workshop			
TCD on Folsom or Nimbus like Shasta's	Temperature				American River Stakeholder Workshop			
Build tributaries coming out of dam sides to promote spawning habitat (a spiral version is another idea)	Habitat				American River Stakeholder Workshop			
American River groundwater banking	Water Supply				American River Stakeholder Workshop			
Facilitate transfers - specifically CVPIA	Water Supply				American River Stakeholder Workshop			
Is it possible to achieve non-jeopardy? Look at CVPIA doubling goals	Approach				American River Stakeholder Workshop			
spring power surplus	Power				American River Stakeholder Workshop			
Avoid ISO markets - ISO tariffs - negative pricing - bill if can't spill	Power				American River Stakeholder Workshop			
Don't plant brown trout in the Trinity anymore	Fishing				American River Stakeholder Workshop			
Incorporate Bender, 2012 carryover storage targets	Storage				Trinity River ROC Band			
Create a Trinity specific Drought Plan	Coordination				Trinity River ROC Band			
Add a selective withdrawal device on Trinity	Temperature				Trinity River ROC Band			
Annual consultation with planned end of September storage and annual diversion amounts	Water Supply				Trinity River ROC Band			
Structural changes to Lewiston to improve temps - implement existing Lewiston study	Infrastructure				Trinity River ROC Band			
Increase winter storage thresholds, re-do flood control curve	Storage				Trinity River ROC Band			
100% Mark	Hatchery				Trinity River ROC Band			
Pre-season prediction models for Trinity species - harvest scaled to annual abundance	Fishing				Trinity River ROC Band			
Stock recruitment models for harvest	Fishing				Trinity River ROC Band			
Make sure Trinity adult escapement is consistent with the carrying capacity of the River	Hatchery				Trinity River ROC Band			
Maximize Trinity tributary salmon populations	Approach				Trinity River ROC Band			
Fish access above dams	Reintro				Trinity River ROC Band			
Truck juveniles from hatchery to increase hatchery production	Hatchery				Trinity River ROC Band			
750 TAF carryover storage recommended in Trinity in Bender, 2012	Storage				Trinity River ROC Band			
Implement the Trinity HGMP	Hatchery				Trinity River ROC Band			
Broodstock collection offsite - natural origin broodstock	Hatchery				Trinity River ROC Band			
Change broodstock collection to focus spring collection on earliest arrivals, focus fall on latest arrivals to capture tail ends of population rather than narrowing hatchery stock	Hatchery				Trinity River ROC Band			
Remove Lewiston and install a segregation weir with only spring-run above weir, truck fall-run to the hatchery	Hatchery				Trinity River ROC Band			
Mark early returns to the river, then prioritize those for spawning - take tissue sample, verify is a SR before spawning	Hatchery				Trinity River ROC Band			
Flow releases to attract wild broodstock to hatchery	Hatchery				Trinity River ROC Band			
Make flow releases to push out hatchery fish and decrease competition	Hatchery				Trinity River ROC Band			
Only wild fish above segregation weir	Hatchery				Trinity River ROC Band			
P-knob at hatchery - proportion natural broodstock	Hatchery				Trinity River ROC Band			
Offsite brood collection - Mad River fishermen collect fish and hold in tubes	Hatchery				Trinity River ROC Band			
Restrict out of basin diversions based on Water Year type	Water Supply				Trinity River ROC Band			
Adopt a variant of the % inflow all in 2000 ROD (natural hydrograph)	Flows				Trinity River ROC Band			
Remove Lewiston and plumb directly to Carr tunnel	Infrastructure				Trinity River ROC Band			
Fund law enforcement for illegal diversions	Enforcement				Trinity River ROC Band			
Off-channel storage during winter - or wells	Water Supply				Trinity River ROC Band			
Fish passage and screen diversions	Barriers				Trinity River ROC Band			
Fill water trucks - remove these locations	Predators				Trinity River ROC Band			

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Water efficiency	Water Supply				Trinity River ROC Band			
Fallow crops in drought years	Water Supply				Trinity River ROC Band			
Put Weaverville Community Resources District diversion on the mainstem - fund the solar / power to diver from the mainstem	Water Quality				Trinity River ROC Band			
Wet meadow restoration	Upstream				Trinity River ROC Band			
Reduce fire suppression - direct runoff	Upstream				Trinity River ROC Band			
Encourage prescribed fire	Upstream				Trinity River ROC Band			
Reduce forest roads	Upstream				Trinity River ROC Band			
Increase thinning of plantations	Upstream				Trinity River ROC Band			
Larger uncontrolled emergency spillway	Infrastructure				Trinity River ROC Band			
Winter flow variability using ROD volume - use earlier in the year (Feb-Apr) to help create flood control space	Flows				Trinity River ROC Band			
Remove Lewiston Dam	Infrastructure				Trinity River ROC Band			
Coincide flow releases with tributary events	Flows				Trinity River ROC Band			
Lower floodplains, remove mine tailings, sediment terraces	Habitat				Trinity River ROC Band			
Wood loading - plant the floodplains, natural wood recruitment	Habitat				Trinity River ROC Band			
Groundwater retention - beaver dams	Water Supply				Trinity River ROC Band			
50 TAF Provisio 2 water - can this be carried over in Trinity	Storage				Trinity River ROC Band			
Communicate between Klamath and TRRP scientists - annual symposium?	Coordination				Trinity River ROC Band			
Create artificial channels to mimic floodplain habitat	Habitat				Trinity River ROC Band			
Gravel augmentation	Substrate				Trinity River ROC Band			
Release flows to reduce disease	Flows				Trinity River ROC Band			
Longitudinal study for benthic macro-invertebrates	Food				Trinity River ROC Band			
Literature study for macroinvertebrates, drift, ePT, substrate, water quality - map food hypothesis and then check	Food				Trinity River ROC Band			
Feeding stations - grow EPT - seed food	Food				Trinity River ROC Band			
Use Trinity hatchery carcasses in the river as food sources	Food				Trinity River ROC Band			
Increase winter baseflow to increase food production temporarily	Food				Trinity River ROC Band			
Increase turbidity to reduce predation	Predators				Trinity River ROC Band			
Fix road crossings in Trinity tributaries	Habitat				Trinity River ROC Band			
Time diversions to capitalize on peak power demand	Power				Trinity River ROC Band			
TCD to generate power at all times	Power				Trinity River ROC Band			
Higher head at Trinity	Power				Trinity River ROC Band			
Another energy production technology	Power				Trinity River ROC Band			
Turbine on the glory hole to generate power	Power				Trinity River ROC Band			
Raise Trinity Dam	Power				Trinity River ROC Band			
Draw down Lewiston and surcharge it	Power				Trinity River ROC Band			
Turbine on the 2500 cfs auxiliary outlet	Power				Trinity River ROC Band			
Power generation in pipe (if remove Lewiston Dam)	Power				Trinity River ROC Band			
Storage energy in non-peak times to release	Power				Trinity River ROC Band			
Tighter forecasts with NWS	Water Supply				Trinity River ROC Band			
Move temp compliance upstream	Temperature				Trinity River ROC Band			
What to SR adults do in upstream holding pools	Habitat				Trinity River ROC Band			
Regulate auxiliary outlet	Infrastructure				Trinity River ROC Band			
Create new holding pools	Habitat				Trinity River ROC Band			
Cannabis toxicants enforcement \$	Enforcement				Trinity River ROC Band			
CWA 303d listing as an impaired waterbody	Water Quality				Trinity River ROC Band			
Gels in the water to identify toxics (easy)	Monitoring/Modeling				Trinity River ROC Band			
First flush type studies	Monitoring/Modeling				Trinity River ROC Band			
Create a co-manager forum / joint directorate to expand beyond the TRRP	Coordination				Trinity River ROC Band			
Move the hatchery to below Trinity and build that into a remove Lewiston project	Infrastructure				Trinity River ROC Band			

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Buy-out landowners in flood zones	Habitat				Trinity River ROC Band			
Engineering and intake structure for the hatchery	Infrastructure				Trinity River ROC Band			
Replace Trinity Reservoir with off stream storage	Infrastructure				Trinity River ROC Band			
Cover 7 miles of canal (from Trinity to Car) with solar panels	Infrastructure				Trinity River ROC Band			
Signage to explain wood loading if it looks ugly	Education				Trinity River ROC Band			
Charge water users a surcharge to fund tributary projects	Funding				Trinity River ROC Band			
Encourage volunteerism	Funding				Trinity River ROC Band			
Reduce illegal diversions	Enforcement				Trinity River ROC Band			
Reintroduce beavers	Habitat				Trinity River ROC Band			
Forebearance of water use - divert when water is high - change timing of diversions - need storage	Water Supply				Trinity River ROC Band			
Protect next years fish instead of this years egg production	Approach				Trinity River ROC Band			
Manage SR 100% - instead of fall-run	Hatchery				Trinity River ROC Band			
Assign a dedicated warden to a particular area	Enforcement				Trinity River ROC Band			
DB enforcement model - expand to Trinity - DWR is funding due to water user encouragement	Enforcement				Trinity River ROC Band			
Awareness / education - DA throws out environmental crime cases	Education				Trinity River ROC Band			
Translocate beavers instead of killing them when found in the valley	Water Supply				Trinity River ROC Band			
Remove non-system roads	Upstream				Trinity River ROC Band			
Overmeyer gate as segregation weir to allow flexibility	Hatchery				Trinity River ROC Band			
For a Trinity specific Drought Plan, use a matrix that incorporates probabilities of multiple years of drought	Water Supply				Trinity River ROC Band			
Improve public access/facilities at Clifton Court Forebay to improve fishing/predator reduction	Hatchery				Trinity River ROC Band			
New catch limits (predator control programs) for Black Bass, Striped Bass, Pikeminnow	Water Supply				Trinity River ROC Band			
Vegetation on levees instead of riprap for erosion protection	Predators	Predator control at CCF			CDWA comments (LTO Remand) pg 25			
Incorporate EDCWA's long-term water contract into all alternatives	Predators	Protect salmonids and Delta smelt			Delta Stewardship Council comments(LTO Remand) pg 2			x?
Incorporate EDWPA Water Reliability Project (40,000 AFA) into all alternatives	Habitat	Modify current USACE policy			Delta Stewardship Council comments(LTO Remand) pg 2			x?
Incorporate EID long-term water contract	Water Supply	EDCWA Fazio Contract			El Dorado County Water Agency comments (LTO remand)	x		
Reduce upstream (Shasta) diversions and deliveries to CVP contractors, including senior contractors	Water Supply	EDWPA Water Reliability Project			El Dorado Water & Power Authority comments (LTO Remand)	x		
Installation of HORB to reduce dissolved oxygen concentrations in Stockton Deep Water Shipping Channel	Water Supply	EID			El Dorado Irrigation District comments (LTO remand)	x		
Analyze impacts to spring-run Chinook in Stanislaus and other San Joaquin tributaries	Water Supply	Reduce water deliveries (More water for temperature criteria)			Environmental Water Caucus comments (LTO Remand) pg 4	x?		
New Melones Project 35% unimpaired flow regime Feb 1 to June 30	Barriers	HORB			OID, SSJID, SEWD comments (LTO Remand) pg 6			
Use low-level outlet at New Melones for cold water supply/releases	Approach				Golden Gate Salmon Assoc. and Pacific Coast Federation of Fisherman's Assoc. comments (LTO Remand) pg 8	x?		
Incorporate Sacramento River Water Reliability Project (SRRP) specifically use diversions on Sac river to reduce American River diversions	Water Supply	SWRCB - New Melones Phase I			OID, SSJID, SEWD comments (LTO Remand) pg 2	x?		
Proposed early warning stations (Delta Smelt Turbidity)	Temperature	Temperature support for Fish			OID, SSJID, SEWD comments (LTO Remand) pg 6			
Implement only the November Fall X2 action	Infrastructure	SRRP			PCWA comments (LTO Remand) pg 1	x?		
i:E ratio should be 1:1. Adopt critical water year operation (2009 BO) for all water-year types	Water Quality	OMR			SWC comments (LTO Remand) pg 52	x?		
OMR for presence based salmonids or operated in real-time	Water Quality	Fall X2			SWC comments (LTO Remand) pg 55			
No installation of the HORB	Water Supply	i:E			SWC comments (LTO Remand) pg 56			
DCC to be operated on a daily basis (No day-night operations)	Water Supply	OMR			SWC comments (LTO Remand) pg 58			
Add returned spawned hatchery Chinook Salmon carcasses to river for nutrients (chopped in half)	Barriers	HORB			SWC comments (LTO Remand) pg 60			
	Barriers	Delta Cross Channel			SWC comments (LTO Remand) pg 61			
	Hatchery		All		American River ROC Band (Ken Kundargi)	x?		