



Emergency Drought Projects

Operations Committee

June 18, 2021

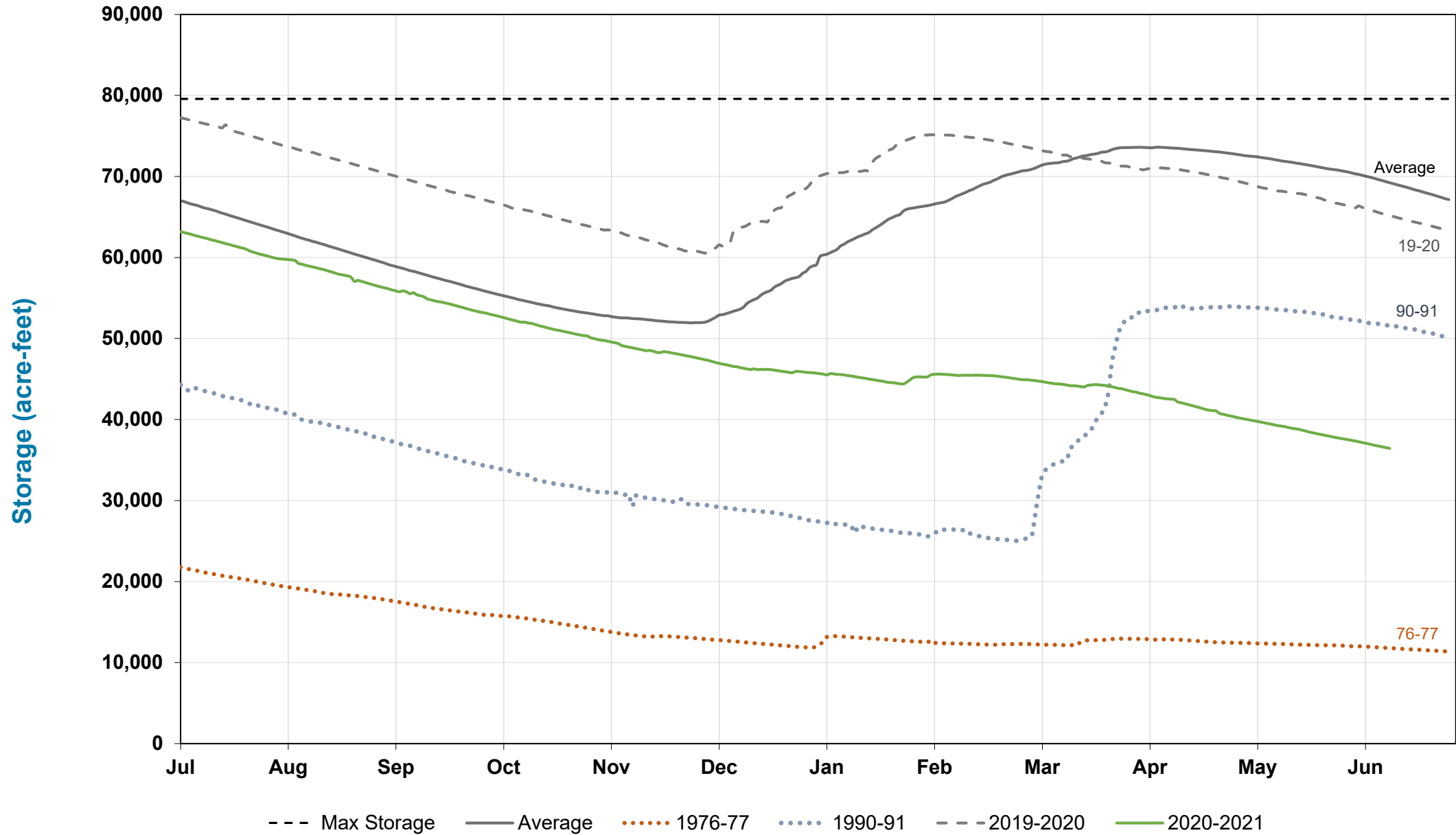


Overview

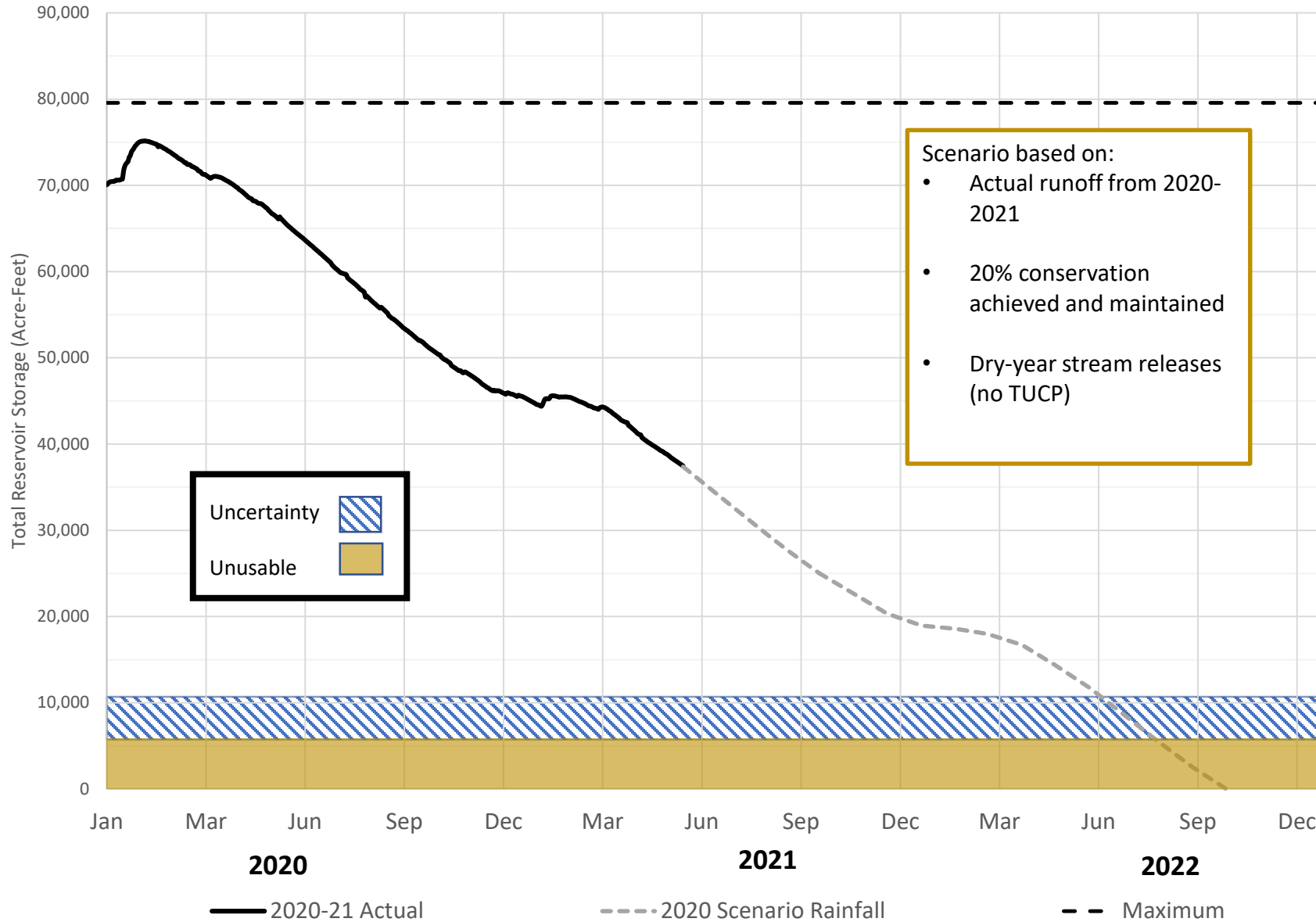
- Current Water Supply Review
- Water Transfers
- Desalination
- Next Steps

Water Supply

Total Reservoir Storage



Storage Level Projection



Drought Response Actions

- Short Term Actions
 - Conservation and Water Efficiency – in progress -**Top Priority**
 - Operational changes – Optimize supplemental water, use Soulajule and Phoenix
 - Monitor water supply and demand
- Extended Drought Actions
 - Water Transfers
 - Desalination
 - Other...

Water Transfers

Elements of Water Transfers

- Transfer and other agreements – source, bridge, wheeling
- Bridge Infrastructure - structural analysis and placement
- Other Infrastructure – connections to bridge & distribution system improvements
- Regulatory Process – complexity depends on source

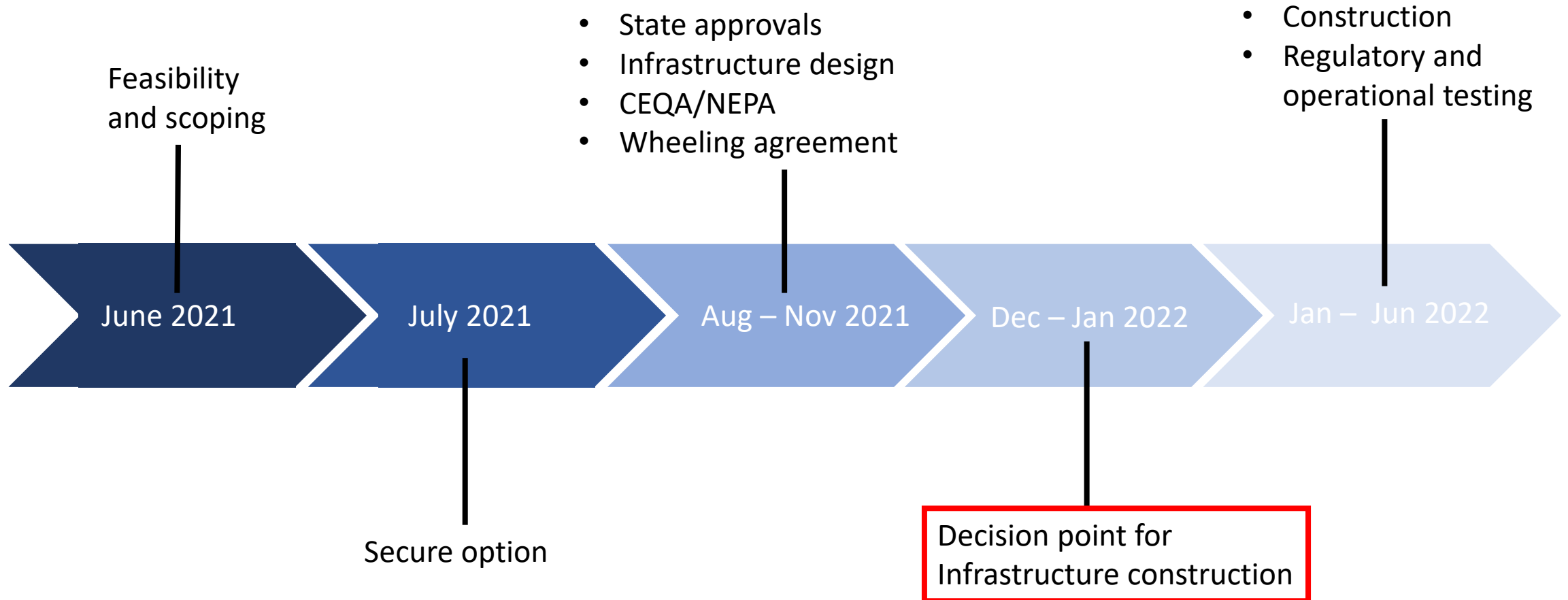
Water Transfer – Status

- Engaged a team of experienced professionals – W&C
- Searching for a source of water -
 - Sacramento River Watershed – water likely available, relatively expensive
 - Mokelumne – water availability unknown, likely less complex
 - Los Vaqueros – water availability discussions beginning
 - SCWA – infrastructure exists, yet water scarce
- Secure option to purchase water – contingent on state agencies approvals
- Wheeling agreement – preliminary discussion with East Bay Agency
- Infrastructure on bridge -
 - Met with Cal Trans to discuss structural analysis and placement options
- Other Infrastructure –
 - Bridge connections and distribution system improvements – scope development

Regulatory Process - complexity determined by source

- Department of Water Resources – State Water Project
- Interior Region 10-California Great Basin (Reclamation) – Central Valley Project
- State Water Resources Control Board – post 1914 rights
- CEQA/NEPA compliance

Water Transfers - Conceptual Timeline



Desalination

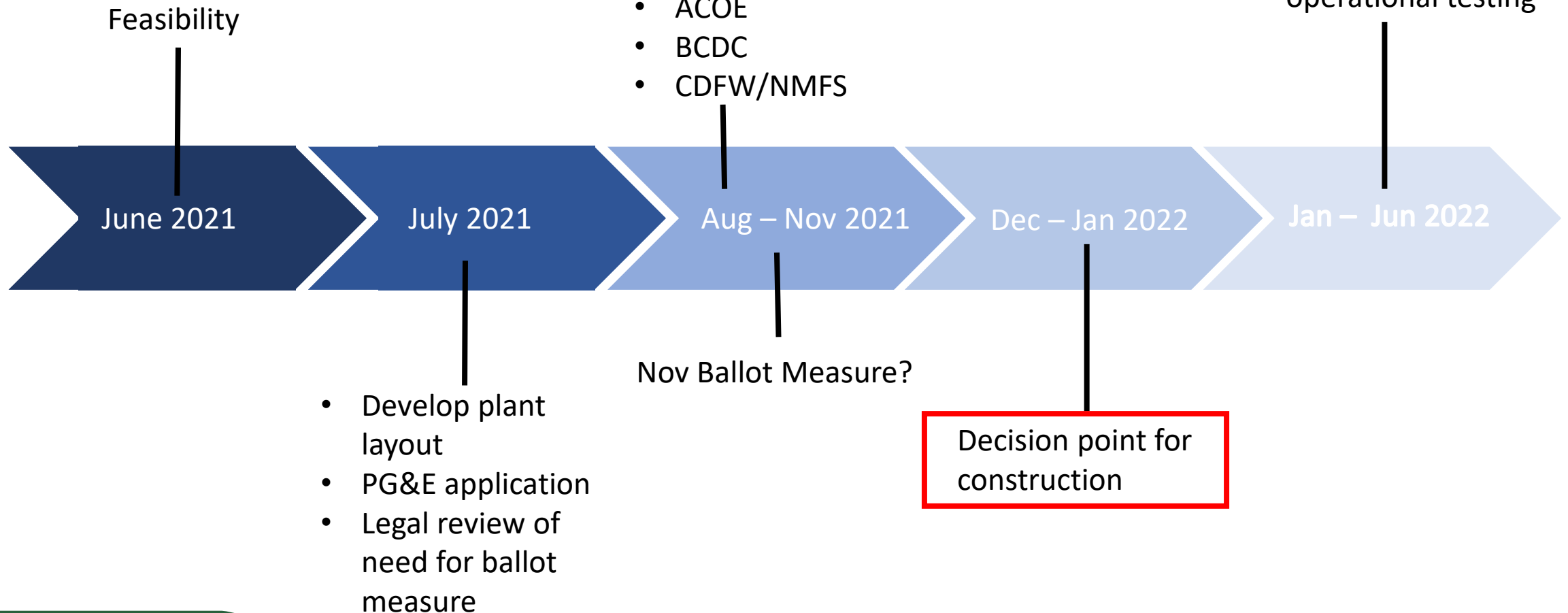
Emergency Desalination

- Desalination Pilot Program from 2005 to 2007
 - Demonstrated that bay water can be a source of high quality drinking water
 - Environmental impacts can be mitigated
- Progress to date – Assessing Feasibility and Scoping
 - Engaged KJ & Jacobs
 - Established water quality standards
 - Identified equipment vendors
 - Issued RFQ to assess interest and availability
 - Purchase vs lease – timing for purchase might be challenging
- Review Implications of Prior Ballot Measure

Desalination - Conceptual Timeline

- CEQA
- Obtain state agency approvals:
 - DDW
 - SFRWQCB
 - ACOE
 - BCDC
 - CDFW/NMFS

- Regulatory and operational testing



Next Steps

- Conservation and water use efficiency efforts remain primary focus and these efforts are intensifying
- Continue feasibility work for each option:
 - Water Transfers –
 - Find a seller and secure option
 - Continue to work with CalTrans
 - Pursue infrastructure design concepts
 - Discuss wheeling with East Bay Agency
 - Desalination –
 - Understand capacity and lead time for this option
 - Define permitting requirements
 - Clarify implications of ballot measure