

## DOCKETED

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California Energy Commission

# **Puente Power Project Soil and Water Resources PSA Workshop**

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# Soil and Water Resources

## Project Phases:

- Puente Construction
- Puente Operations
- Mandalay Decommission/Demolition

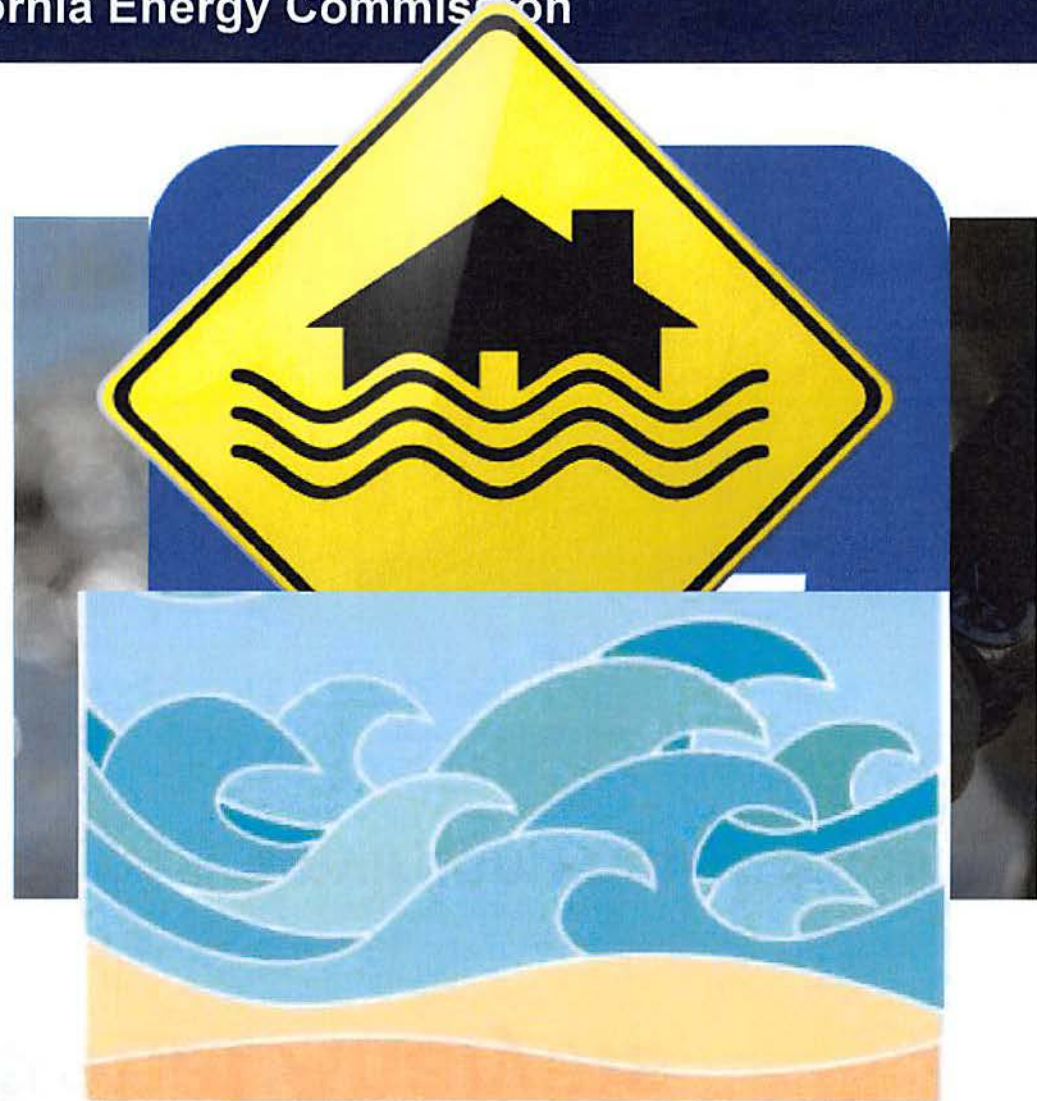
## Impact Analysis:

- Potential Impacts
- Significance of Impacts
- Mitigation → Conditions of Certification



## Impact Analysis

- Soil Erosion
- Groundwater
- Surface Water
- Wastewater Management
- Regional Water Supply
- Flooding







# Additional Analysis

## Cumulative Impacts

- Water Quality
- Regional Water Supply

## Indirect Impacts

- Growth Inducing

## Environmental Justice

- Unique Exposure Pathways



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### **Staff Conclusions**

- Soil Erosion
- Groundwater
- Surface Water
- Wastewater Management
- Regional Water Supply
- Flooding

### **No Impacts:**

Water Supply

### **Less than significant impacts:**

Water Quality



# Flooding

## Project → Environment

### Caused by project

- Onsite or offsite flooding
- Alter drainage patterns
- Worsen flood damage
- Accidental release of toxics

### Staff Conclusions

Less than significant impacts

## Environment → Project

### Pre-existing hazard

- Riverine flooding
- Coastal flooding
- Levee/Dam failure
- Sediment sources
- Climate change
- Tsunami

### Preliminary Staff Conclusions

Risks are low or medium





# Relative Risk of Flood Hazard Areas

Risk = Consequence x Likelihood			
	Higher Likelihood Impacts	Medium Likelihood Impacts	Lower Likelihood Impacts
High Consequence	High Risk	High Risk	Medium Risk
Medium Consequence	High Risk	Medium Risk	Low Risk
Low Consequence	Medium Risk	Low Risk	Low Risk

## Consequences

- Safety of people onsite and offsite
- Onsite toxins running offsite
- Grid reliability (local and system wide)





# Other Conclusions

## Cumulative Impacts

### Water Quality

- Mitigation program
- No cumulatively considerable contribution to a significant cumulative impact

### Regional Water Supply

- Reduce potable water
- Avoids or lessens the cumulative problem

## Indirect Impacts

### Growth Inducing

- Socioeconomics section: no induced growth or concentration of people
- No significant increase of water or wastewater affecting these utilities or their customers



# Environmental Justice

## Potential Impacts

- Surface water quality
- Groundwater quality
- Flooding risks

## Staff Conclusions

- EJ communities not disproportionately affected



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