

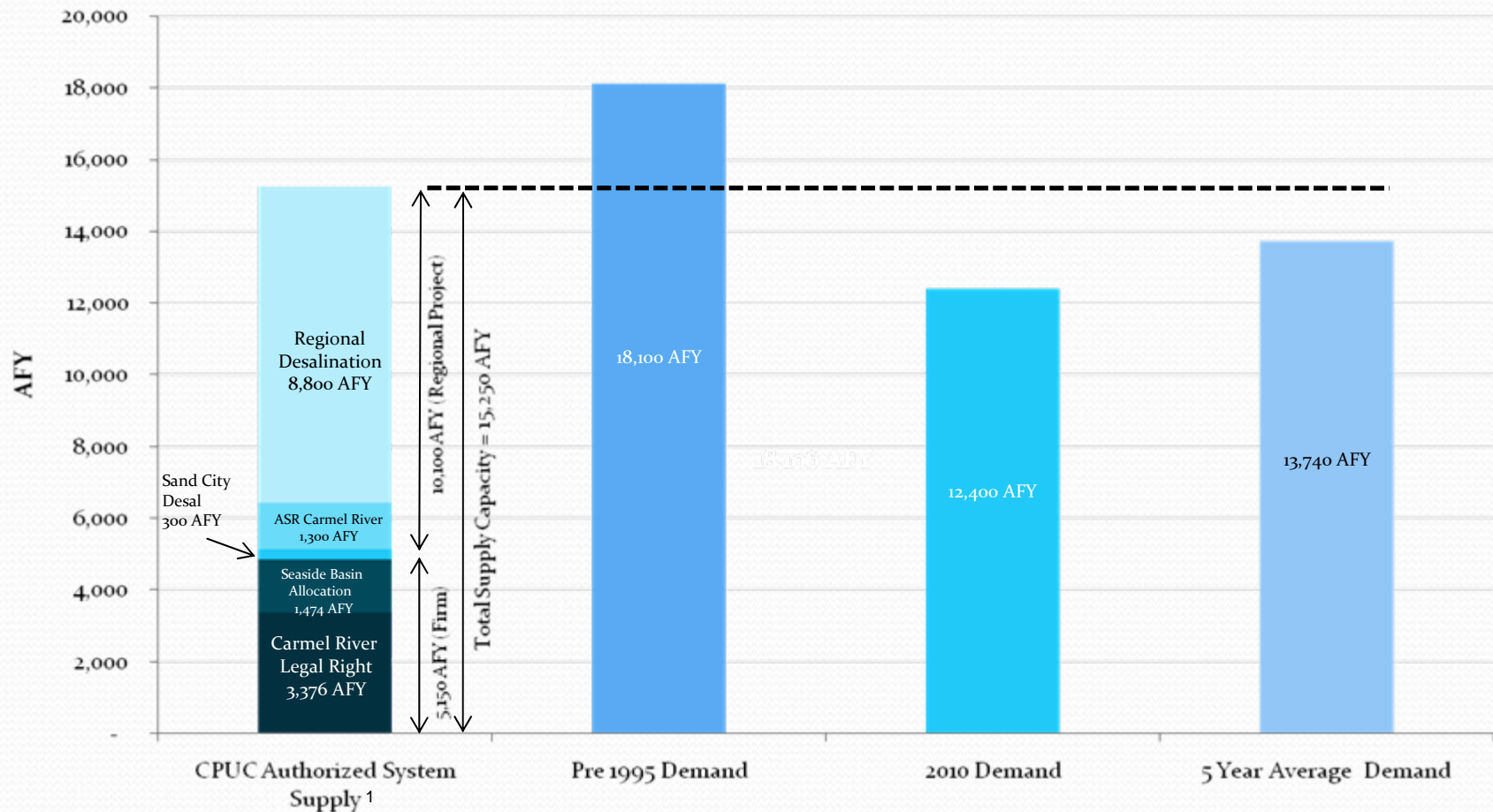
# Monterey Water Supply Analysis

October 5, 2011

Prepared by

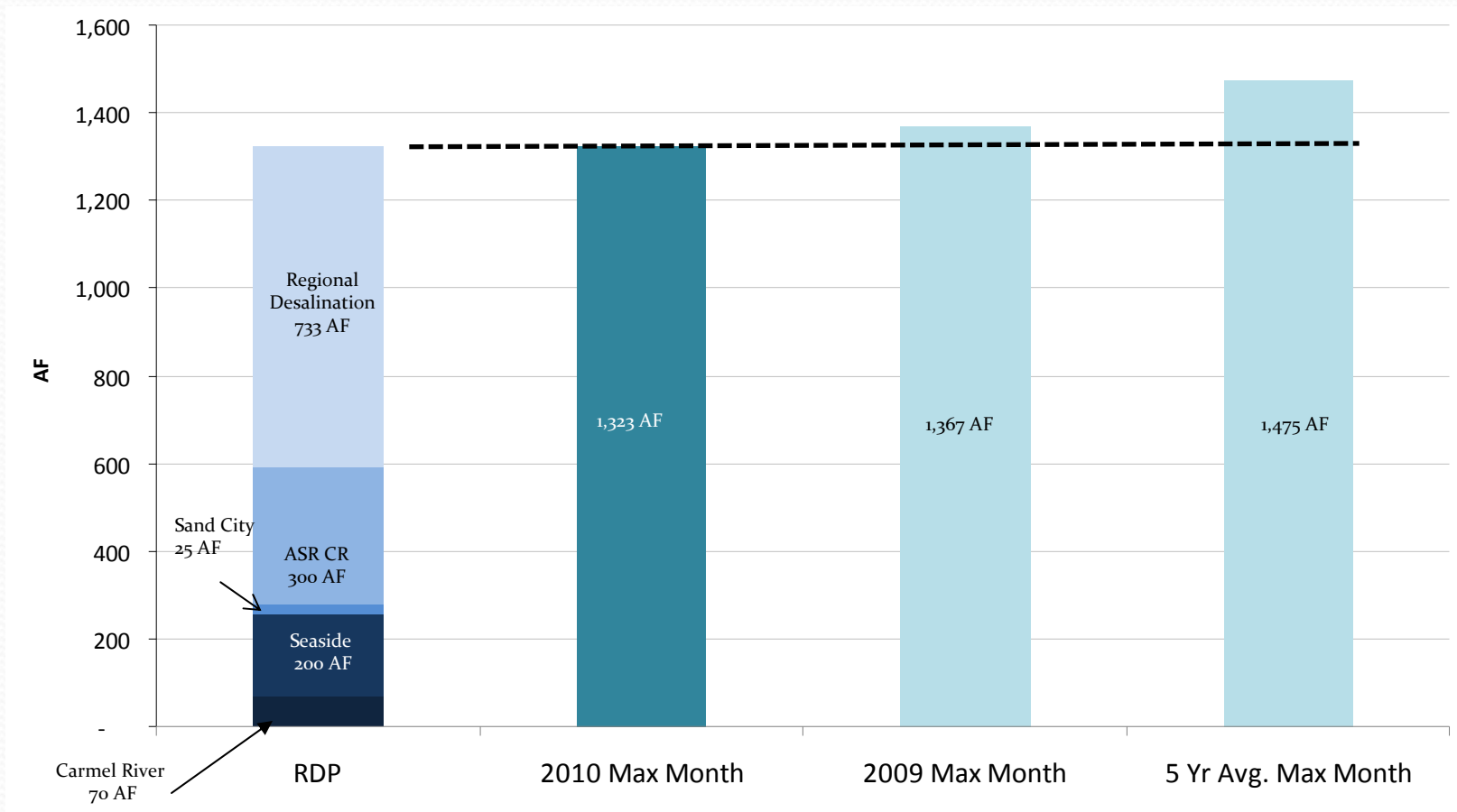


# Project Supply and System Demand



1. CPUC Authorized amount is based on approved EIR

# Project Supply and System Demand – Max. Month



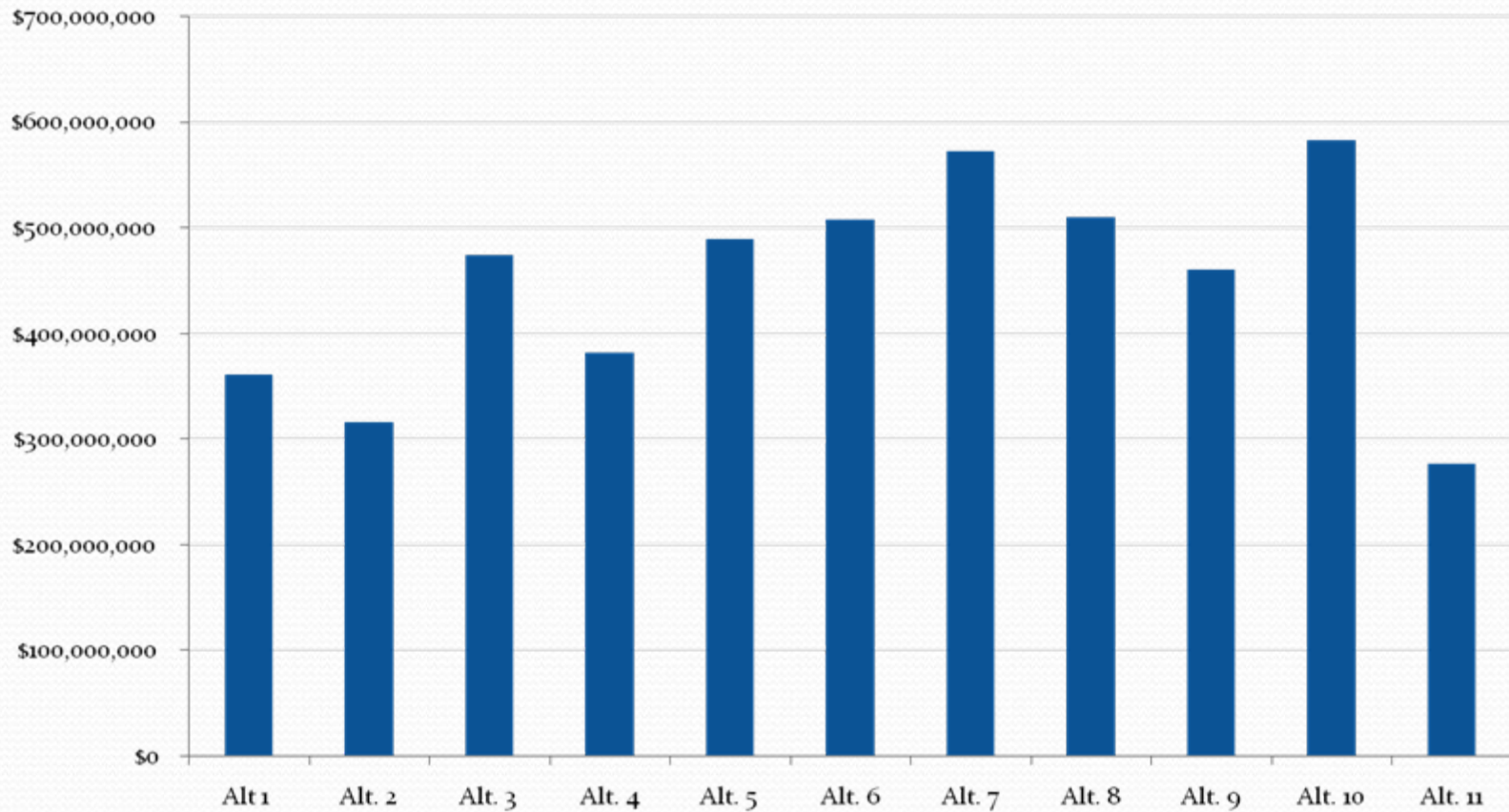
## Alternatives

Alternative 1	Marina Desal Project
Alternative 2	Reduced Marina Desal Project with 2,700 AFY GWR
Alternative 3*	Lower Carmel Valley Filtration Plant + Extended ASR System
Alternative 4*	Lower Carmel Valley Filtration Plant + Extended ASR System + 2,700 AFY GWR
Alternative 5*	LCVFP + Desal Plant in Marina + Extended ASR System
Alternative 6*	LCVFP + Sand City Desal Expansion + Extended ASR System
Alternative 7*	LCVFP + Monterey Desal Plant + Extended ASR System
Alternative 8*	Lower Carmel Valley Iron Removal Plant + Monterey Desal Plant + Extended ASR System
Alternative 9	Salinas River Filtration Plant + Extended ASR System
Alternative 10	Deep Water Desalination at Moss Landing
Alternative 11	5 MGD Marina Desal, 2,700 AFY GWR, existing ASR and Conservation or Table 13 Direct Diversion

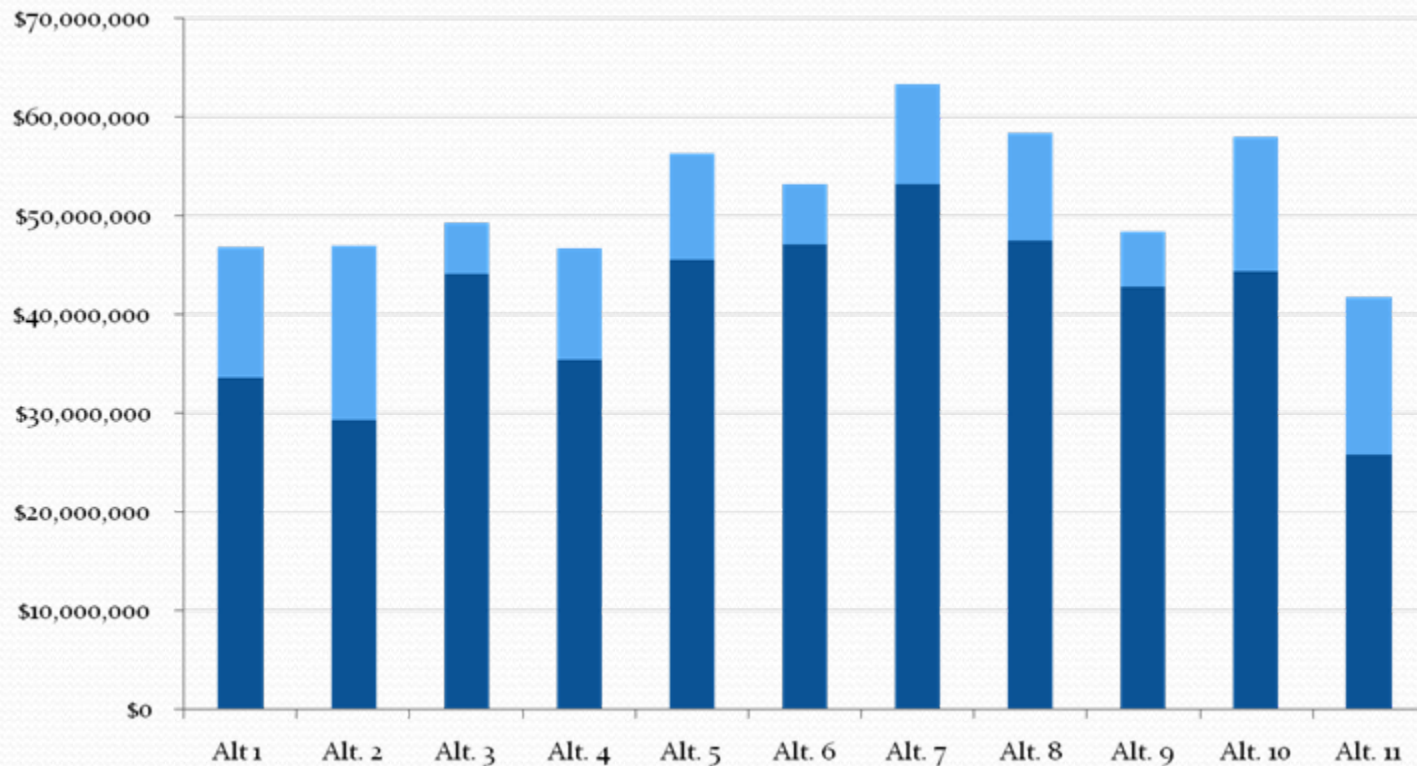
\* Alternatives promoting an increase in high flow river diversions above the currently permitted maximum instantaneous diversion rate may be difficult to permit.



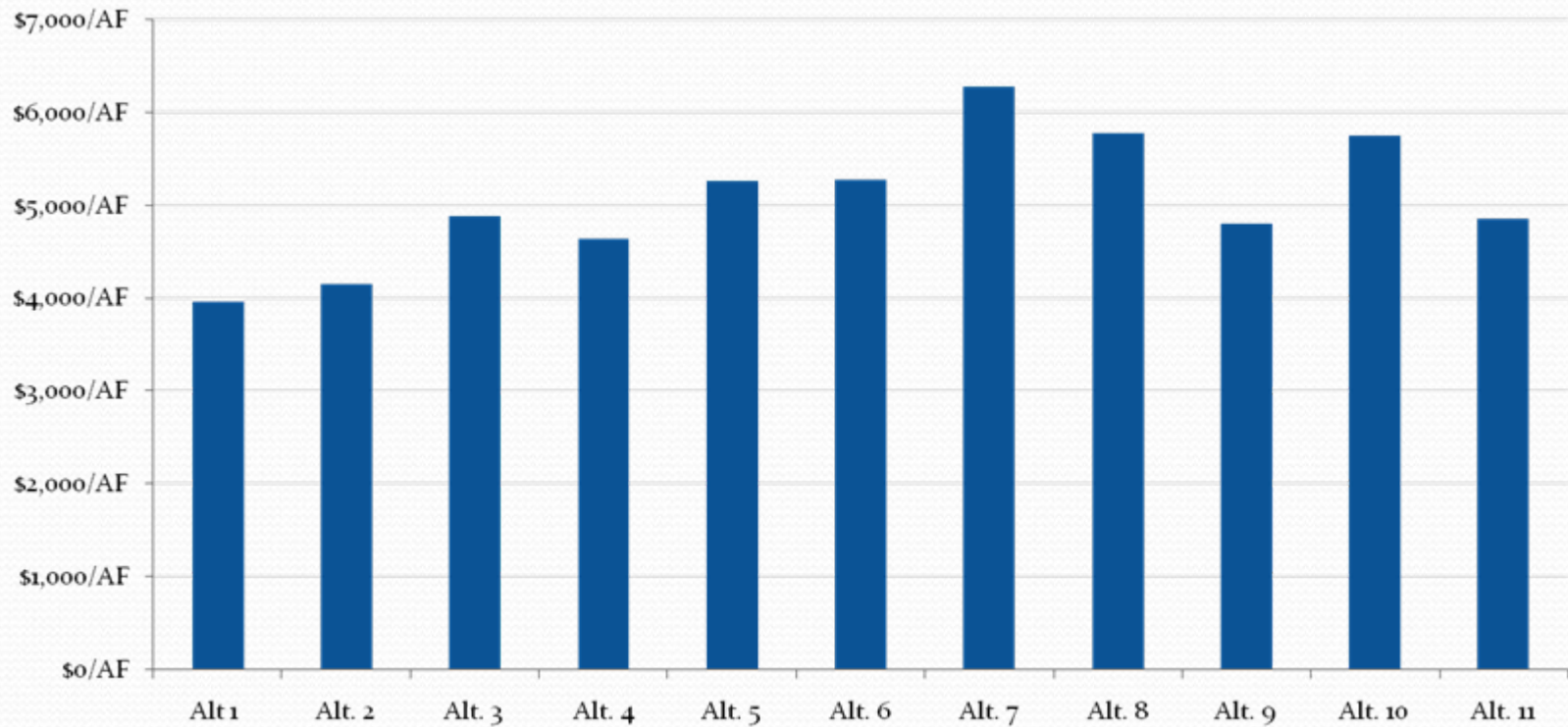
# Total Capital Costs



# Total Annualized Capital and O&M/Annual Costs



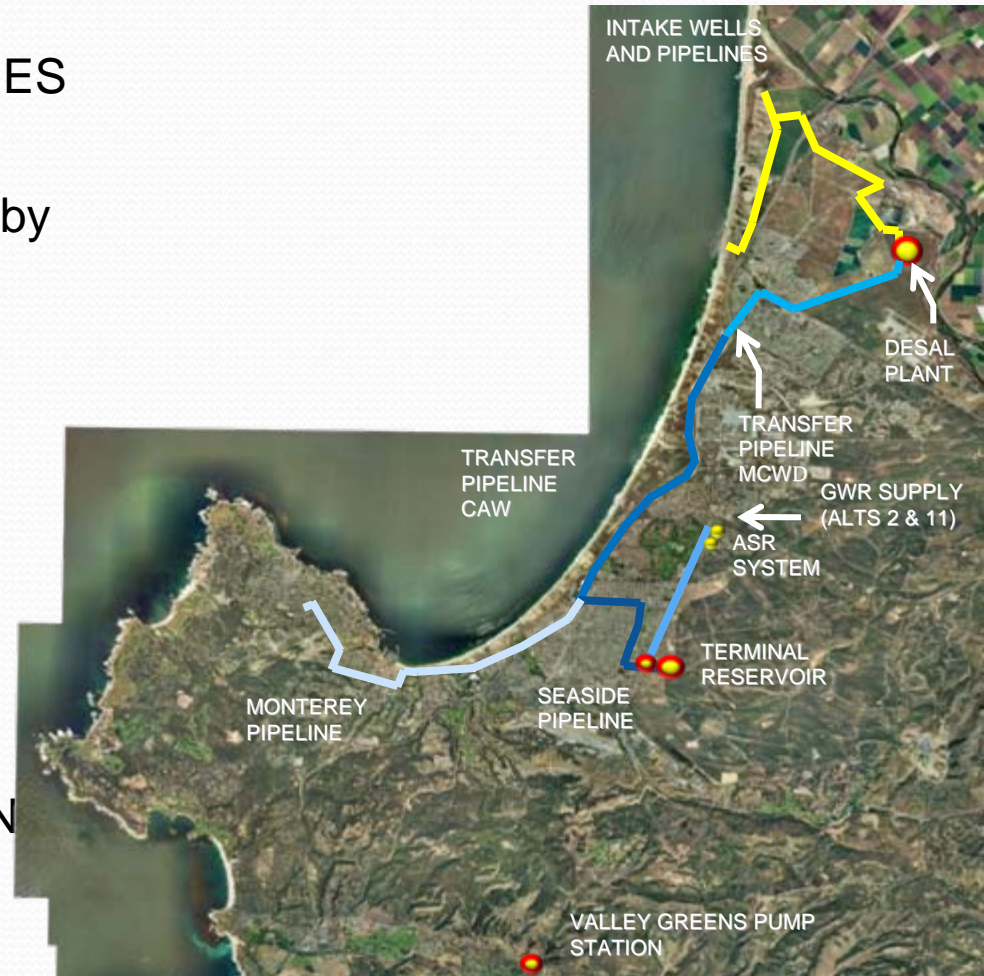
# Unit Costs (\$/AF)





# Alternatives 1, 2 & 11

- INTAKE WELLS AND PIPELINES
- DESALINATION PLANT
- CONVEYANCE FACILITIES – by others
- CONVEYANCE FACILITIES – CAW
- TERMINAL RESERVOIR
- ASR SYSTEM
- GWR SUPPLY FROM MRWPCA (ALTERNATIVES 2 AND 11)
- INCREASED CONSERVATION (ALTERNATIVE 11 ONLY)





# Alternatives 3 and 4 - LCVFP + Extended ASR

- CONVEYANCE FACILITIES – CAW
- TERMINAL RESERVOIR
- ASR SYSTEM
- NEW LOWER CARMEL VALLEY FILTRATION PLANT
- GWR SUPPLY FROM MCWPCA (ALTERNATIVE 4 ONLY)





# Alternative 5 - LCVFP + Desal Plant in Marina + Extended ASR

- INTAKE WELLS AND PIPELINES
- DESALINATION PLANT
- CONVEYANCE FACILITIES – by others
- CONVEYANCE FACILITIES – CAW
- TERMINAL RESERVOIR
- ASR SYSTEM
- NEW LOWER CARMEL VALLEY FILTRATION PLANT





# Alternative 6 - LCVFP + Sand City Desal Expansion + Extended ASR

- CONVEYANCE FACILITIES – CAW
- TERMINAL RESERVOIR
- ASR SYSTEM
- NEW LOWER CARMEL VALLEY FILTRATION PLANT
- SAND CITY DESALINATION PLANT EXPANSION





# Alternative 7 - LCVFP + Monterey Desal Plant + Extended ASR

- CONVEYANCE FACILITIES – CAW
- TERMINAL RESERVOIR
- ASR SYSTEM
- NEW LOWER CARMEL VALLEY FILTRATION PLANT
- MONTEREY DESALINATION PLANT





# Alternative 8 – LCVIRP + Monterey Desal

## Plant + Extended ASR

- CONVEYANCE FACILITIES – CAW
- TERMINAL RESERVOIR
- ASR SYSTEM
- NEW CARMEL VALLEY IRON REMOVAL PLANT
- MONTEREY DESALINATION PLANT





# Alternative 9 – SRFP + Extended ASR

- INTAKE STRUCTURE AND PUMP STATION
- SALINAS RIVER FILTRATION PLANT
- CONVEYANCE FACILITIES – MCWD
- CONVEYANCE FACILITIES – CAW
- TERMINAL RESERVOIR
- ASR SYSTEM





# Alternative 10

- INTAKE, INTAKE PUMP STATION, DESALINATION PLANT AND NEW OUTFALL BY DWD AT MOSS LANDING
- CONVEYANCE FACILITIES BY CAW
- TERMINAL RESERVOIR
- ASR SYSTEM

