

Regional Project Technical Work Group
*Regional Urban Water
Supply Evaluation*

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Innovative Solutions for Water and the Environment

Today's meeting

- Examine identified projects
- Review and obtain consensus on evaluation criteria

Potential Water Supply Projects in the Greater Monterey Bay Area



Identified Projects

- Desalination
- Water Recycling
- Conjunctive Groundwater Management
- Indirect Potable
- Conservation

Urban Water Supply Project Opportunities

- Desalination of seawater and brackish groundwater
- Water recycling
- Conjunctive ground and surface water management – aquifer storage and recovery
- River Diversions
- Non-potable and indirect potable recycling
- Conservation and water use efficiency
- Stormwater reuse

Desalination Project Opportunities

- Coastal Water Project

- Basic Coastal Water Project
- Regional Coastal Water Project

} Moss Landing
Power Plant

- Alternative Coastal Water Project

- Basic Coastal Water Project
- Regional Coastal Water Project
- Brackish/Intruded GW Desalination

} MRWPCA

- Monterey Bay Regional Seawater Desalination Project

Other Desalination Project Opportunities

- MCWD Pilot Desalination Project
- MCWD Regional Urban Water Augmentation Project
- MPWMD's Sand City Desalination Project
- City of Sand City Water Supply Project
- Seawater Conversion Vessel
- Ocean View Plaza Desalination Project

Water Recycling Project Opportunities

- MCWD Regional Urban Water Augmentation Project – Phases I and II
- MCWD Regional Urban Water Augmentation Project Extension to Monterey
- Watsonville Area Water Recycling Project
- Soledad Recycled Water Project

Conjunctive Surface and Groundwater Management Project Opportunities

- Seaside Groundwater Basin Aquifer Storage and Recovery Project
 - Phase I
 - Expansion
- Salinas Valley Water Project (SVWP)
 - SVWP Phase I
 - SVWP Phase II
 - SVWP Phase III
- Potable Treatment Facility (Seasonal Combination of Desal/River)

Other Project Opportunities

- Indirect Potable Project Opportunities
 - Seaside Groundwater Replenishment Project
- Conservation and Water Use Efficiency
 - Water Conservation Retrofit Program

Evaluation Criteria

- Monterey Peninsula Integrated Regional Water Management Plan (MP IRWMP)
- Plan of Study Criteria

Water Supply

- Meet water supply replacement targets
 - SWRCB Order No. WR 95-10
 - Seaside Groundwater Basin Final Decision (Case No. M66343)
- Meet water supply targets for estimated long term future demand
- Minimize impacts to sensitive species and habitats
- Maximize use of recycled water
- Optimize conjunctive use of surface and groundwater
- Evaluate, advance, and create water conservation efforts

Water Quality

- Meet or exceed water quality standards
- Improve water quality for environmental resources
- Protect surface waters and groundwater basins from contamination
- Meet or exceed recycled water quality targets
- Minimize impacts from stormwater runoff
- Improve stream and near-shore water quality

Environmental Protection and Enhancement

- Assess, protect, enhance, and restore natural resources
- Protect and enhance sensitive species and their habitats
- Minimize adverse effects on biological and cultural resources
- Identify opportunities for open spaces, trails and parks
- Integrate elements from Federal and State species protection and recovery plans

Evaluation Criteria

- Monterey Peninsula Integrated Regional Water Management Plan (MP IRWMP)
- Plan of Study Criteria

Plan of Study Criteria

- Address requirements of SWRCB decision 95-10
- Implementable and feasible
- Reliable during wet and dry periods
- Dependable over time
- Dependable in emergency situations
- Benefits justify cost
- Provide regional benefits
- Include the concept “water efficiency”
- Provide increased efficiencies during coordinated operations with other components
- Provide equity and environmental justice

Criteria Summary

	<i>Component Level</i>	<i>Programmatic Level</i>
Unit Cost		X
Schedule	X	X
Reliability	X	X
Permitting	X	X
Public Acceptance	X	X
Environmental	X	X
Regulatory		X
Additional Supply		X

RMC's Next Steps

- Confirm project details
- Conduct preliminary evaluation
 - Component screening
 - Program evaluation
- Present preliminary results at the next meeting