



Salinity Management: What's Appropriate for Our Region?



Salinity Management “Tool Box”

- Source control
- Resource management
- Removal

Source Control Strategies

Limit Sources of Salinity

Brine Management Strategy	Imported Supply	Local Surface Water	Local Ground-water	Recycled Water
NPDES Regulation	•	•	•	•
Land Use Controls	•	•	•	•
Physical Controls	•	•	•	•
BMPs	•	•	•	•
Sewer Discharge Controls	•		•	•
Public Education	•	•	•	•

Resource Management Strategies

Making the Most of Our Existing Supplies

Brine Management Strategy	Imported Supply	Local Surface Water	Local Ground-water	Recycled Water
Blending	•	•	•	•
Segregating by Quality	•	•	•	•
Match Quality to Use	•	•	•	•
Reservoir Management	•	•	•	•
Groundwater Management		•	•	•
Salinity Tolerant Uses	•	•	•	•

Salinity Removal

Reduce Salinity in Available Supplies

Brine Management Strategy	Imported Supply	Local Surface Water	Local Ground-water	Recycled Water
Demineralization	•	•	•	•
Export			•	•

REGIONAL ISSUES

Imported Water Supply

SALINITY ISSUES:

- Imported water reliance
- End-of-Pipe Issues
- Imported water blend
- Institutional Issues

OPPORTUNITIES:

- Common Problem to All

REGIONAL ISSUES

Local Surface Supplies

SALINITY ISSUES:

- Non-point sources
- Basin Plan compliance
- Hydrologic variation
- Institutional conflicts

OPPORTUNITIES:

- Basin Plan process
- State Recycled Water Policy
- 303(d)/TMDL processes
- Common problem to all

REGIONAL ISSUES


Local Groundwater Supply

SALINITY ISSUES:

- Groundwater aquifer capacity & quality
- Basin Plan compliance
- Institutional issues

OPPORTUNITIES:

- Piecemeal approach possible
- Regional ocean outfalls
- Brackish groundwater availability
- Basin Plan flexibility



REGIONAL ISSUES

Recycled Water Supply

SALINITY ISSUES:

- Existing salinity concentrations & trends
- Salinity discharges to sewer
- Basin Plan compliance

OPPORTUNITIES:

- Regional ocean outfalls
- Basin Plan flexibility
- Reliability of recycled supply



San Diego Region Salinity Management:

What, Who, and How?



What?

- Which strategies are appropriate for our Region?
- Which strategies are most cost-effective?
- Regional or local approach?



Who?

- Who leads implementation?
- Role of regulators in salinity management?
- Who pays?



How?

- Which are the key obstacles to implementation?
- How do we overcome these obstacles?
- How do we select/prioritize projects or strategies?
- Carrot or stick approach?



San Diego Region Salinity Management

NEXT STEPS: YOUR IDEAS?