

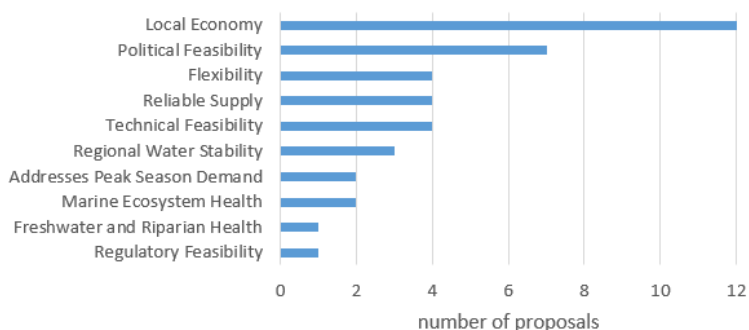
Results from RECON MCDS that Prioritize Research for Real Deal

Philip Murphy, Ph.D. – Dec 18th, 2014

Results - Prioritized Research

Subcriteria	Times in top 3 drivers
Local Economy	12
Political Feasibility	7
Technical Feasibility	4
Reliable Supply	4
Flexibility	4
Regional Water Stability	3
Marine Ecosystem Health	2
Addresses Peak Season Demand	2
Regulatory Feasibility	1
Freshwater and Riparian Health	1

Times subcriterion is in top 3 drivers of uncertainty in proposal's decision score

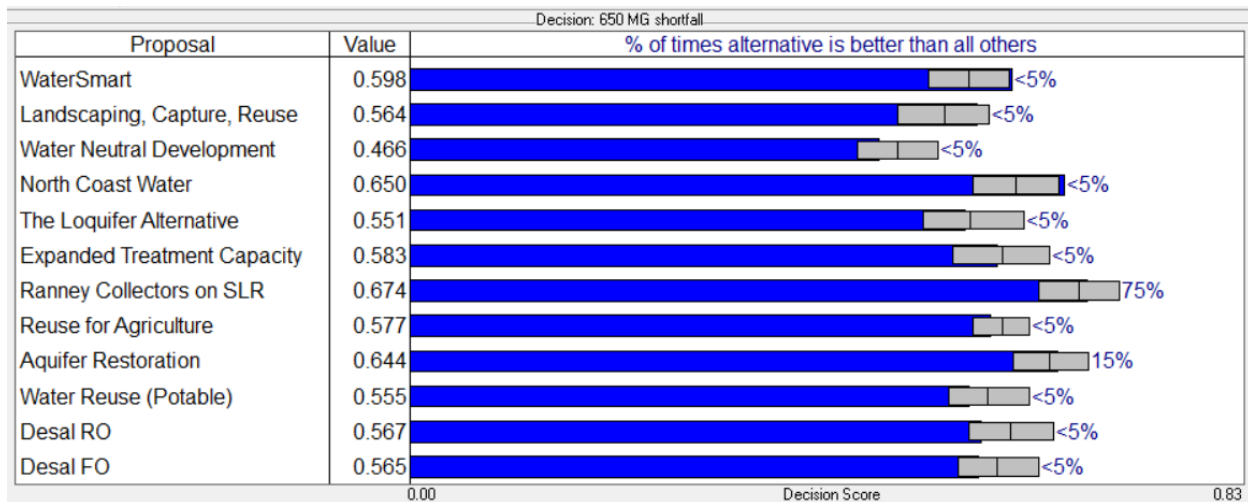
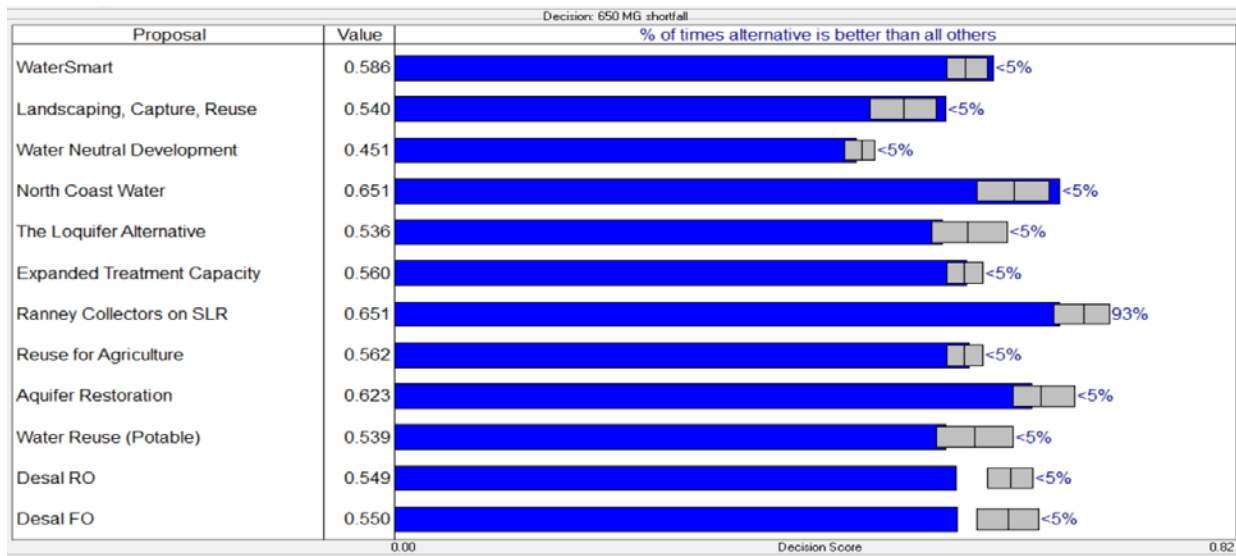


Subcriteria	Times accounts for 20%	Affected Proposals
Local Economy	12	All
Regional Water Stability*	3	WaterSmart, Expanded Treatment Capacity, Ranney Collectors on SLR
Political Feasibility*	2	Water Neutral Development, Reuse for Agriculture
Marine Ecosystem Health*	2	Desal RO, Desal FO
Reliable Supply*	2	The Loquifer Alternative, Expanded Treatment Capacity
Flexibility*	1	WaterSmart

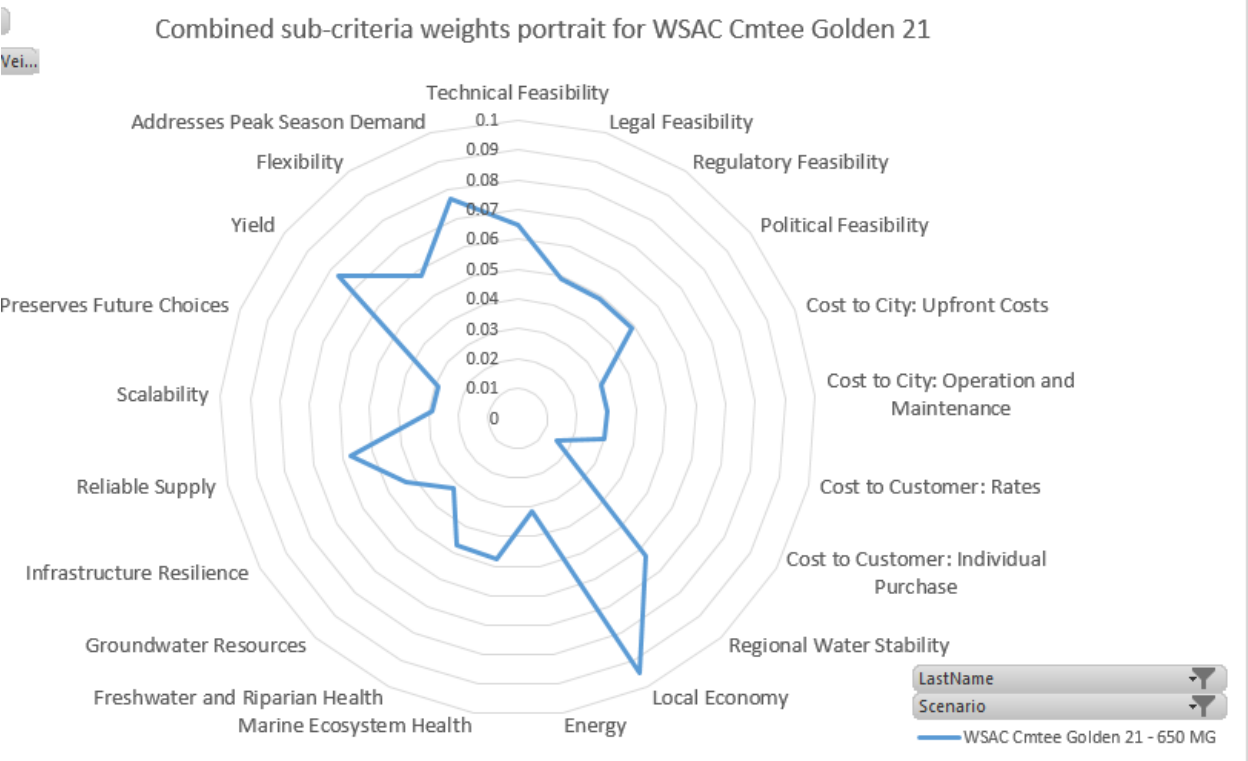
*subcriteria whose % contribution were recalculated with the contribution from Local Economy removed, and that recalculated % topped 20%.

Methodology

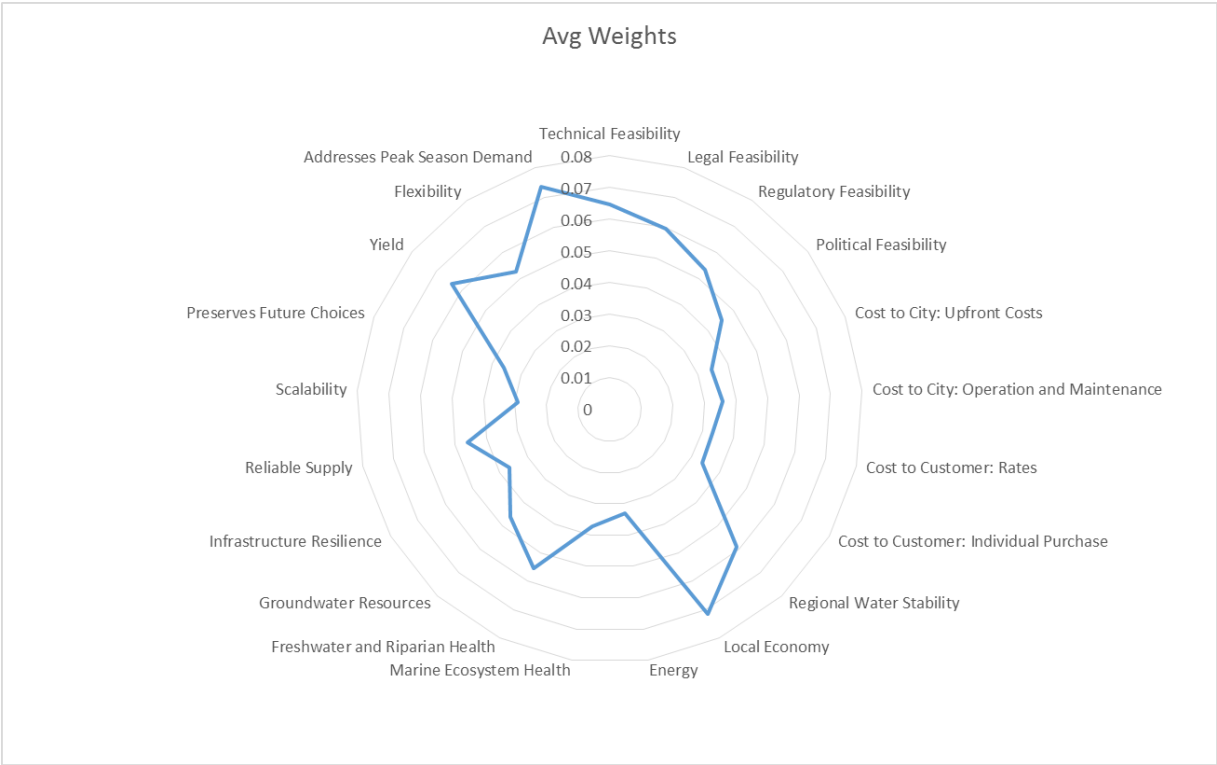
We had shown on Friday that based on the City's setting formal uncertainty distribution to some of the input ratings, the uncertainty in results, for an equi-weighted MCDS model of the 650 Gap was:



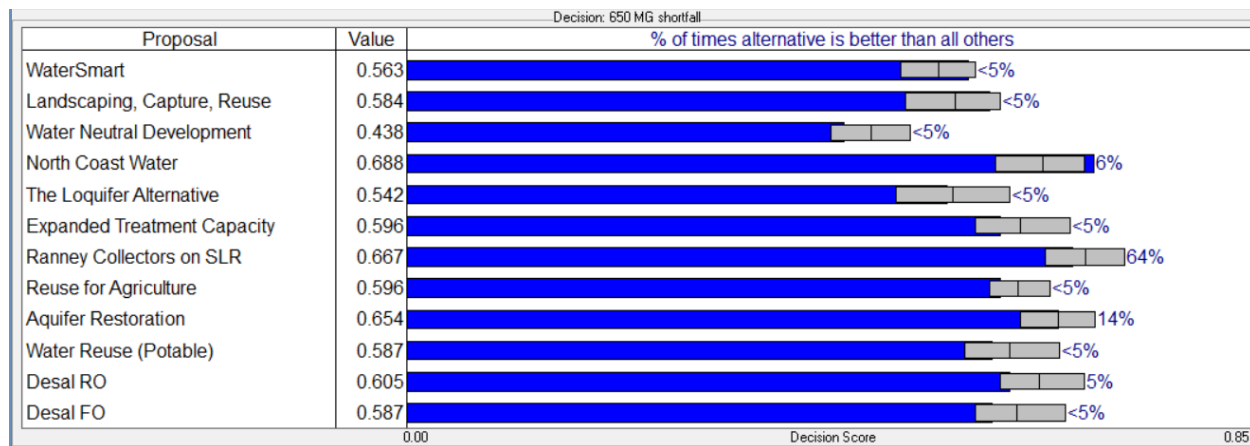
I then searched the weights portraits for the portrait closest to the average of the Cmtee’s ratings. Based on the smallest Euclidean distance from the average weights, it was Cmtee Member #21’s:



Whereas the average of the Cmtee members combined weights looked like:

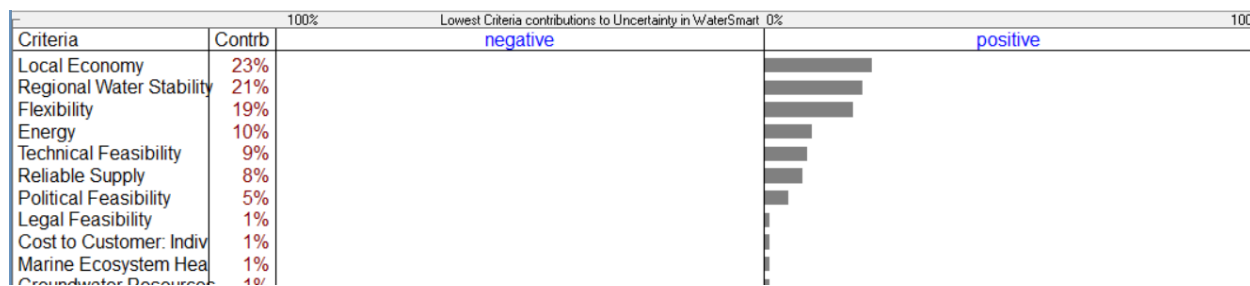


Applying Cmtee member #1's weights to the average ratings with the new, combined uncertainty, the uncertainty in their decision scores are:

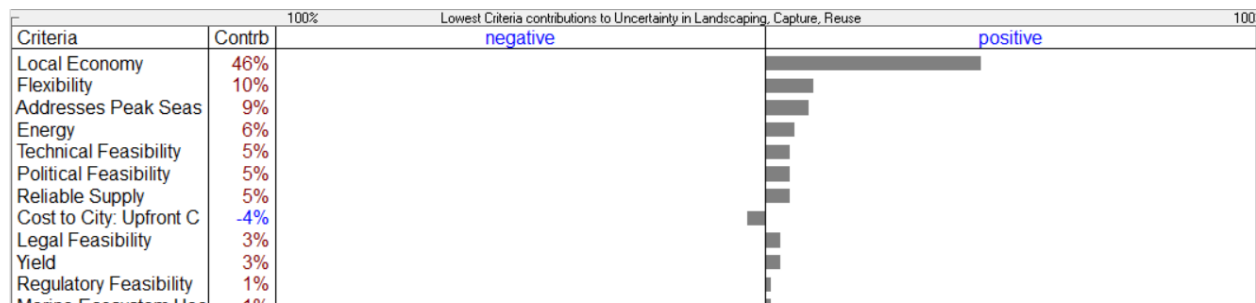


More to our purpose, the contribution to the uncertainty in the decision scores for each alternative are:

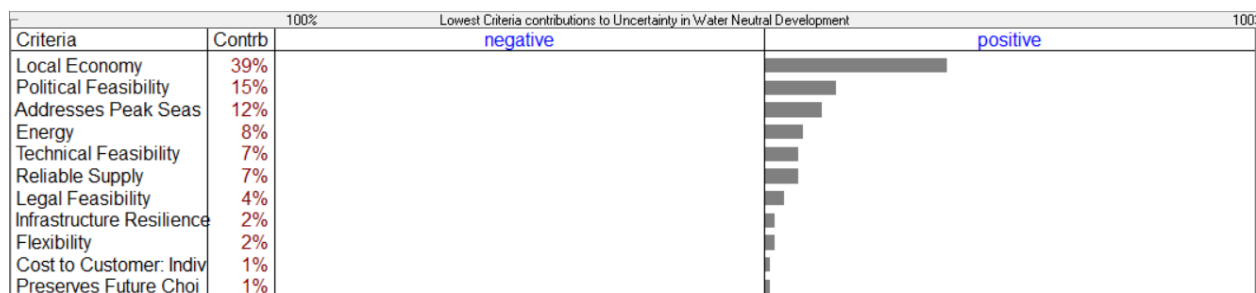
WaterSmart



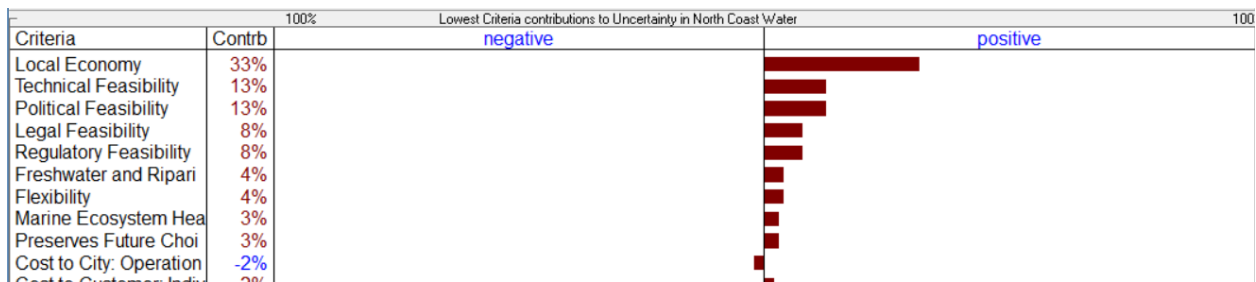
Landscaping, Capture, Reuse



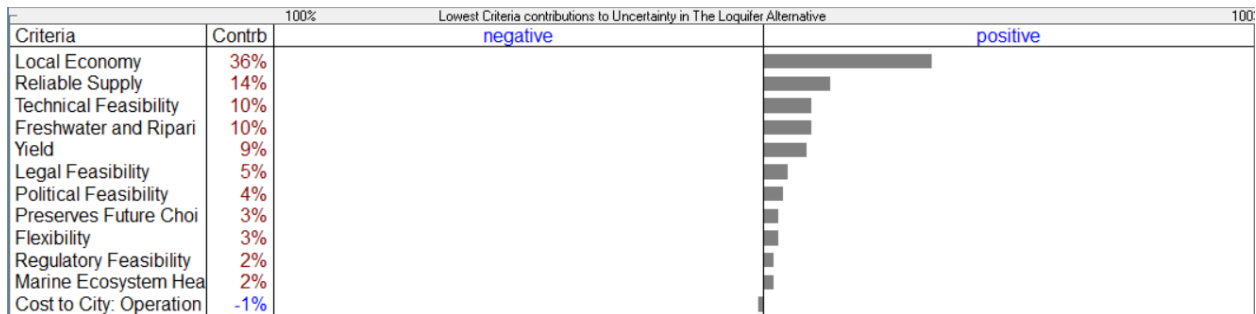
Water Neutral Development



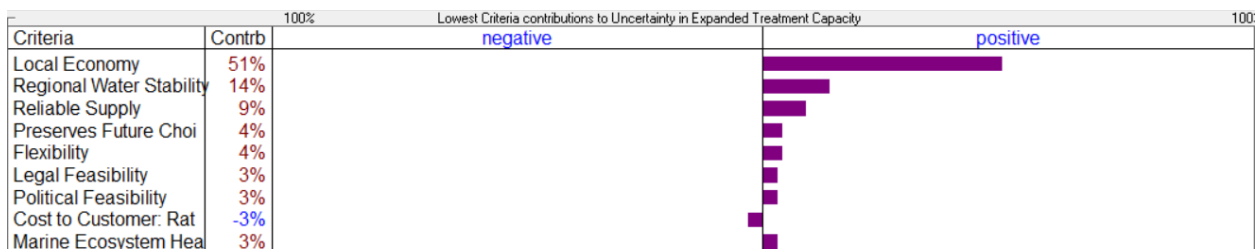
North Coast Water



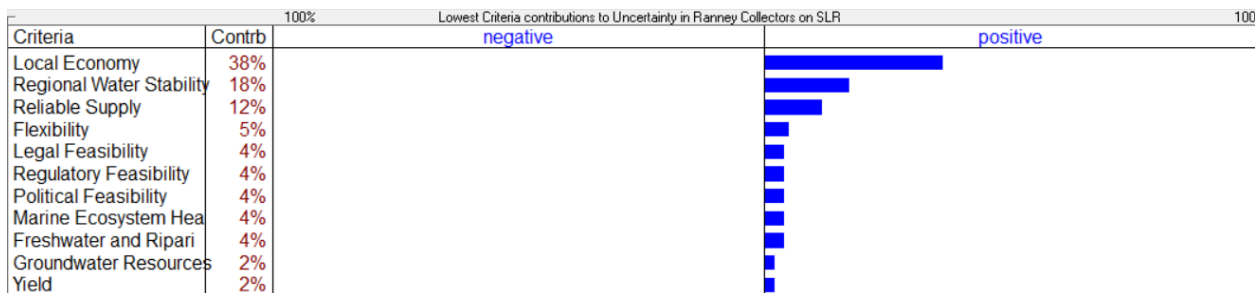
The Loquifer Alternative



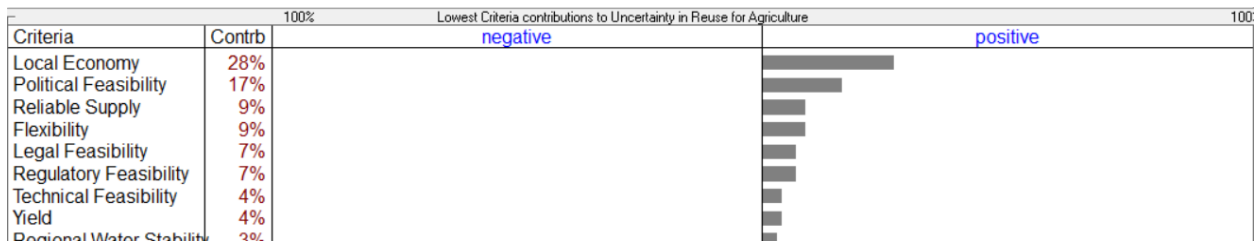
Expanded Treatment Capacity



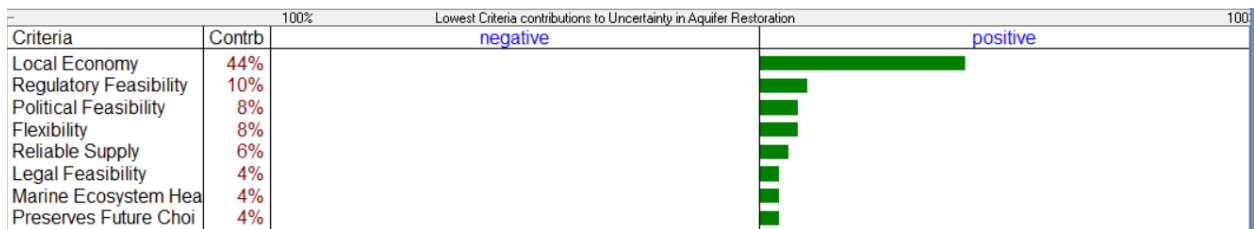
Ranney Collectors on SLR



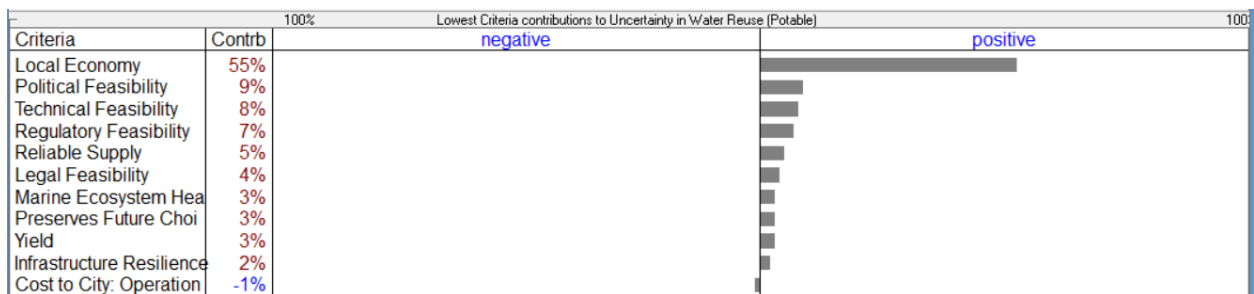
Reuse for Agriculture



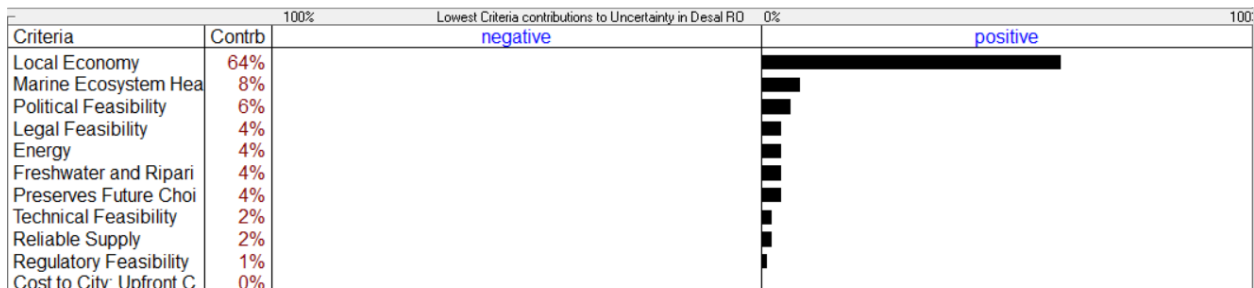
Aquifer Restoration



Water Reuse (Potable)



Desal RO



Desal FO

