

Table 1

Updated: 10/19/06

Allocated Costs of Artificial Replacement of Seaside Basin

Table 1	Annualized Cost (\$/AFY)	Effective Yield (AF)	Weighted Avg %	Replenishment Share	Comments
CWP Desalination Plant ^{[i] [ii] [iii] [iv] [v]}	\$2,075	0	0.00%	\$0	Plant not scheduled to go on line in the next three years.
CWP ASR ^{[vi] [vii] [ix] [x] [xi]}	\$1,245	0	0.00%	\$0	
MPWMD Sand City Desalination Project ^{[xii] [xiii] [xiv]}	\$2,939	0	0.00%	\$0	MPWMD board placed project on hold in 2004, in favor of studying regional alternatives.
In-Lieu recharge to Leguna Seca Sub-area	\$765	172	10.17%	\$76	Based on winter-time demand for Ryan Ranch, Hidden Hills, and Bishop.
MPWMD Phase 1 ASR Project in Conjunction with CAW SACP ^{[xv] [xvi] [xvii] [xviii] [xix]}	\$765	920	54.37%	\$416	
MRWPCA ^{[xx] [xxi] [xxii]}	\$1,200	0	0.00%	\$0	Direct injection from wastewater sources. Based on assumption xxi. Project not scheduled to go on line in the next three years.
RUWAP ^{[xxiii] [xxiv]}	\$1,100	300	17.73%	\$195	Based on assumption xxiii
PSM/ Poseidon Desalination Project ^{[xxv] [xxvi] [xxvii] [xxviii]}	\$1,352	0	0.00%	\$0	
Sand City Desalination Project	\$2,500	300	17.73%	\$443	

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Total Replenishment	\$1,132
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Assumptions

- [i] California American Water's Coastal Water Project- Desalination Component
- [ii] Source: Capital and O&M Cost Estimates prepared by RBF Consulting, revised June 2006
- [iii] 10 mgd desalination plant, 10,430 AFY production
- [iv] Calculated using 10,430 AFY production
- [v] ASR cost component identified as "stand alone project" for Comparative Purposes
- [vi] 2005 capital cost amortized over 30 years at 7%
- [vii] California American Water's Coastal Water Project- ASR Component
- [viii] Source: Capital and O&M Cost Estimates prepared by RBF Consulting, revised June 2006
- [ix] CWP ASR would integrate and upgrade existing Santa Margarita Test Injection Well, construct two (2) additional wells, Segunda and ASR pipelines, ASR Pump Station, and upgrade Segunda Pump Station
- [x] Calculated using 1,300 AFY production
- [xi] 2005 Capital cost amortized over 30 years at 7%
- [xii] Monterey Peninsula Water Management District's Sand City Desalination Project: 7.5 mgd desalination plant, 8,409 AFY production
- [xiii] Source: Exhibit 12-A MPWMD Comparative Matrix, September 18, 2006
- [xiv] Cost estimates range from \$2,737 - \$2,939/ AFY, which does not include CAW system integration costs
- [xv] MPWMD Phase 1 Aquifer Storage and Recovery (Seaside Basin) Project and CAW Seaside Adjudication Compliance Project
- [xvi] Source: Exhibit 12-B MPWMD Comparative Matrix, September 18, 2006 and CAW Project Need Identification for Seaside Adjudication Compliance Project, October 2006
- [xvii] Carmel River Diversions and injection to ASR is 2,420 AFY, maximum extraction is 1,500 AFY and annual average is 920 AFY
- [xviii] Does not include improvements to Russel Wells, Carmel Valley Filter Plant, or Segunda Pump Station Upgrade, which are all included in the SACP. These facility upgrades are required in order to meet Carmel River diversion goals. (Segunda PS Upgrade included with CWP ASR Cost)
- [xix] MPWMD Phase 1 ASR estimated at \$610/ AF for 920 AFY. Per CAW PNI, ASR Pipeline cost is \$1.055 Million (July 2006). Phase 1 Temporary ASR Pipeline estimated at \$.750Million. Both pipelines amortized over 20 years at 5% yields about \$155/AF.
- [xx] Groundwater Replenishment Project, Monterey Regional Pollution Control Agency
- [xxi] 2,400 AFY yield
- [xxii] Preliminary estimate provided by MRWPCA
- [xxiii] Regional Urban Water Augmentation Project, Marina Coast Water District and MRWPCA. 300 AFY (of 1,500 AFY total) of reclaimed water earmarked to Monterey Peninsula In Phase 1.
- [xxiv] Cost does not include connection fees
- [xxv] Monterey Bay Regional Seawater Desalination Project, Pajaro/Sunny Mesa and Poseidon Resources

This weighted calculation is based on next three years operating conditions.

- [xxvi] Source: Exhibit 12-A MPWMD Comparative Matrix, September 18, 2006
- [xxvii] 20 mgd desalination plant, 20,930 AFY demand identified
- [xxviii] Does not include costs for CAW system integration