Submitted by stoff at the 1/18/17 Administrative Comm My

Estimate of Study Costs Associa	ted with Long Term Plan for Los Padres Dam - December 28, 2	016		N. Control of the con							
						GRC Costs	*				
			MPWMD	Cal-Am	m						
Study	Description	Status	Contribution	Contribution	on 2015	2016	2017	2018	3	<b>Total GRC</b>	Total Projec
Carmel River Basin Hydrologic	Coupled surface-groundwater model using GSFLOW and	Under development with	\$ 175,000	\$ -					\$		\$ 175,000
Model	MODFLOW to simulate Carmel River flow at selected points.	completion in early 2017.									,
	Includes ability to vary well production, Carmel River	Funded from MPWMD water					1				
	diversions, effects of climate changes. Calibration by USGS	supply charge.									
	will be to historic records.										
Water Availability Analysis	Run CRB Hydrologic Model for 1) proposed Cal-Am			\$ 25,00	0		\$ 25,000		\$	25,000	25,000
	operations post 2020; with LPD, w/o LPD, w/dredging.									ŕ	,
IFIM	Instream Flow Incremental Method. Develop model to	Draft scope developed. Study to	233,000	\$ -					\$	o <del>⊷</del> e	233,000
	update 2002 NMFS Carmel River instream flow	be implemented in WY 2014-15-									·
	recommendations.	16. Requires enough adult							1		
		steelhead returns and date on									
		juveniles to apply model.									
IFIM model simulation	Apply IFIM model to LP Dam alternatives to evalaute			\$ 25,00	0		25,000		\$	25,000	25,000
	changes to steelhead habitat										
Los Padres Dam Alternatives	Evaluate feasibility of passing sediment around Los Padres	Will require results of Water		\$ 500,00	0		300,000	200,000	\$	500,000	500,000
Study	Dam; impacts analysis to downstream habitat; analysis of	Availability Analysis							i		
	spawning gravel requirements downstream of dam;										
	assessment of geomorphic changes to downstream areas										
	from dam removal/increased sediment transport.										
Permanent steelhead passage	Assessment of alternatives to implement permanent	Not started. Implement in		\$ 282,000		82,000	200,000		\$	282,000	282,000
	volitional upstream steelhead passage for all life stages.	phases: a) analysis of interim									
	Analysis to include preliminary costs of feasibile options.	improvements to existing									
		trap/truck operation; b)		74						- 1	
		evaluation of feasible permanent									
Final Report/Recommendations	Combine results of studies; hold public meeting concerning			\$ 50,000				50,000	\$	50,000	
	alternatives (i.e., MPWMD Board meeting).							,		,	
Other	Contingencies			\$ -					\$	*	<u>.</u>
MPWMD Administration	Estimated at 5% of GRC costs			\$ 37,600	6,000	4,100	27,500		\$	37,600	37,600
Cal-Am Administration	Estimated \$24,000/year			\$ 72,000	24,000	24,000			\$	72,000	72,000
		Total	\$ 408,000	\$ 991,600	\$ 30,000	\$ 110,100	\$ 601,500	\$ 250,000	Ś	991,600	