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2 **BEFORE THE STATE WATER**
3 **RESOURCES CONTROL BOARD**
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6 In the Matter of the State Water Resources)
7 Control Board (State Water Board))
8 Hearing to Determine whether to Adopt a)
9 Draft Cease & Desist Order against)
10 California American Water Regarding its)
11 Diversion of Water from the Carmel River)
12 in Monterey County under Order WR 95-10)
13)

Hearing Date: July 23 - 25, 2008

Carmel River in Monterey County

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15 **EXHIBIT MPWMD-LH4**

16 **MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**
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EXHIBIT MPWMD-LH4

CARMEL RIVER MILEAGE SURVEY			
	Feet Upstream	Miles	Kilometers
BRIDGES			
Highway 1	5,780	1.09	1.76
R.C. Golf Cart Bridge #5	11,230	2.13	3.42
R.C. Golf Cart Bridge #4	12,530	2.37	3.82
R.C. Golf Cart Bridge #3	13,450	2.55	4.10
R.C. Golf Cart Bridge #2	14,030	2.66	4.28
R.C. Golf Cart Bridge #1	14,780	2.80	4.50
Via Mallorca	17,110	3.24	5.21
San Carlos	20,380	3.86	6.21
Valley Greens	25,460	4.82	7.76
C.V.G.C.C. Golf Cart Bridge	27,430	5.20	8.36
Schulte	35,360	6.70	10.78
Robinson Canyon	44,680	8.46	13.62
Randazzo	53,470	10.13	16.30
Don Juan	56,940	10.78	17.36
Boronda.	66,980	12.69	20.42
Esquiline	76,290	14.45	23.25
Stonepine	83,330	15.78	25.40
CREEKS			
Hatton	7,640	1.45	2.33
Potrero	20,510	3.88	6.25
Robinson Canyon	42,800	8.11	13.05
Berwick Canyon	42,950	8.13	13.09
Buckeye	44,750	8.48	13.64
Coyote Gulch	48,080	9.11	14.65
Don Juan	57,580	10.91	17.55
Miramonte	58,760	11.13	17.91
Las Garzas	65,910	12.48	20.09
Hitchcock	76,950	14.57	23.45
Klondike Creek	81,430	15.42	24.82
Tularcitos	83,710	15.85	25.51

CARMEL RIVER MILEAGE SURVEY			
	Feet Upstream	Miles	Kilometers
MPWMD MONITOR WELLS			
State Parks - Beach (Multiple)	370	0.07	0.11
State Parks - Wetlands (Multiple)	1,637	0.31	0.50
CAWD Observation	3,432	0.65	1.05
Odello West - Near CAWD (Multiple)	3,802	0.72	1.16
CAWD - Rio Road (Multiple)	8,712	1.65	2.66
Clark	9,187	1.74	2.80
Rancho Canada West	11,246	2.13	3.43
Druid Hills Ranch	16,421	3.11	5.01
Rancho Canada East - (Multiple)	16,500	3.13	5.03
Via Mallorca	17,150	3.25	5.23
Rubin	18,780	3.56	5.72
San Carlos- (Multiple)	19,350	3.66	5.90
Oppenheimer	19,900	3.77	6.07
Brookdale	20,350	3.85	6.20
Piezometer	20,330	3.85	6.20
Valley Greens	20,400	3.86	6.22
Sweeney (Okazaki)	21,380	4.05	6.52
Lake Place	24,700	4.68	7.53
Cypress	28,580	5.41	8.71
Williams North	28,723	5.44	8.75
Williams South	29,430	5.57	8.97
Vetter	29,800	5.64	9.08
Pearce- (Multiple)	30,000	5.68	9.14
Bernardi	30,500	5.78	9.30
Worth (Templeman)	31,050	5.88	9.46
Brown	31,550	5.98	9.62
Frumkin	31,880	6.04	9.72
Schulte	34,500	6.53	10.52
Carmel Valley High School	35,376	6.70	10.78
Reimers #1	35,482	6.72	10.81
Mandelman	38,700	7.33	11.80
Dick	39,430	7.47	12.02
Center Road	42,330	8.02	12.90
Mid-valley	42,330	8.02	12.90
Carmel Valley Ranch #8	44,774	8.48	13.65
Carmel Valley Ranch #5	44,880	8.50	13.68
Coyote u.s.	46,781	8.86	14.26
Carmel Valley Ranch #1	47,203	8.94	14.39
Hernstadt	57,400	10.87	17.50
Kurtz- 2	58,880	11.15	17.95
Boronda	66,130	12.52	20.16
Little League #1	72,072	13.65	21.97
Paso Hondo	73,530	13.93	22.41
Village Road	74,300	14.07	22.65
Via Helechos	75,400	14.28	22.98

CARMEL RIVER MILEAGE SURVEY			
	Feet Upstream	Miles	Kilometers
CAL-AM PRODUCTION WELLS			
Rancho Canada	16,500	3.13	5.03
San Carlos	19,500	3.69	5.94
Cypress	28,580	5.41	8.71
Pearce	30,000	5.68	9.14
Schulte	34,300	6.50	10.45
Manor	37,750	7.15	11.51
Begonia	41,030	7.77	12.51
Berwick #7	42,600	8.07	12.98
Berwick #8	43,400	8.22	13.23
Scarlett #6	48,040	9.10	14.64
Stanton (decommissioned)	50,660	9.59	15.44
Los Laureles #6	57,750	10.94	17.60
Los Laureles #5	58,800	11.14	17.92
West Garzas	63,960	12.11	19.50
Garzas Creek	66,080	12.52	20.14
Panetta	68,210	12.92	20.79
Robles	76,290	14.45	23.25
Russell #4	85,550	16.20	26.08
Russell #2	85,800	16.25	26.15
MISCELLANEOUS			
CAWD Ocean Outfall Pipeline	3,550	0.67	1.08
USGS - Near Carmel	17,110	3.24	5.22
USGS - Robles Del Rio	76,200	14.43	23.23
Sleepy Hollow Weir	93,150	17.64	28.39
Old Carmel Dam	96,460	18.27	29.40
San Clemente Dam	98,270	18.61	29.95
Los Padres Dam	130,940	24.80	39.91

Notes:

(1) Measurements for this survey were taken off of aerial photos taken in June 1986. The original photos were flown at a scale of 1:6000. The photos were enlarged by Towill, Inc. to a scale of 1:1200 (i.e., 1" = 100'). A centerline of the river was drawn by District staff from a baseline at the mouth of the Carmel River to approximately 1.5 miles above San Clemente Dam. Measurements were made on the southside of the line noting both miles and kilometers. Incremental measurement marks were made every 200 feet on the southside of the line and at every tenth of a kilometer on the northside of the line. Measurements for specific sites were rounded to the nearest ten feet before conversion. Conversion factors: a) 1 mile = 5,280 feet; b) 1 Kilometer = 3,281 feet.

(2) The measurement for Los Padres Dam, 24.8 miles, was taken from the Feasibility Report on *Water Resources Development in the Carmel River, Monterey County, California*, prepared by the U.S. Army Corps of Engineers in May 1981. Specifically, Volume II, Appendix C, *Hydrology and Hydraulics Analysis*, Section III, *Present Condition Surface Water Hydrology*, Subsection B, *Existing Water Resources Development*, page C-2.

Source: Original by LS 8/88; revised by DHD 2/2000 and TLL 3/2000, edited by DWF 12/10/2002 and 3/5/2003.