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**BEFORE THE STATE WATER
RESOURCES CONTROL BOARD**

In the Matter of the State Water Resources)
Control Board (State Water Board))
Hearing to Determine whether to Adopt a)
Draft Cease & Desist Order against)
California American Water Regarding its)
Diversion of Water from the Carmel River)
in Monterey County under Order WR 95-10)
_____)

Hearing Date: July 23 - 25, 2008

Carmel River in Monterey County

EXHIBIT MPWMD-TC5

MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

| Unimpaired Carmel River Flow at San Clemente Dam: 1902-Present | | | | | | | | | | | | | |
|----------------------------------------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-----|-----|---------|
| All Values in Acre-Feet | | | | | | | | | | | | | |
| Water Year | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| 1902 | 316 | 559 | 1,036 | 904 | 16,688 | 24,805 | 9,907 | 3,387 | 1,023 | 169 | 68 | 10 | 58,872 |
| 1903 | 316 | 1,814 | 1,970 | 7,503 | 11,079 | 18,352 | 16,742 | 3,866 | 1,248 | 549 | 68 | 10 | 63,516 |
| 1904 | 463 | 678 | 404 | 868 | 6,371 | 15,397 | 7,907 | 2,923 | 1,129 | 393 | 101 | 69 | 36,704 |
| 1905 | 2,741 | 1,248 | 2,047 | 7,011 | 17,940 | 22,932 | 7,894 | 8,262 | 2,382 | 706 | 163 | 163 | 73,489 |
| 1906 | 99 | 937 | 1,130 | 17,960 | 8,223 | 49,188 | 18,412 | 9,306 | 4,062 | 1,416 | 355 | 155 | 111,242 |
| 1907 | 270 | 92 | 15,700 | 34,962 | 15,983 | 71,730 | 16,230 | 5,885 | 3,236 | 1,358 | 364 | 249 | 166,058 |
| 1908 | 1,511 | 1,391 | 4,083 | 9,913 | 16,368 | 7,006 | 3,243 | 1,679 | 811 | 160 | 7 | 6 | 46,177 |
| 1909 | 120 | 400 | 1,015 | 47,886 | 47,670 | 13,977 | 9,960 | 3,863 | 1,514 | 752 | 95 | 142 | 127,394 |
| 1910 | 637 | 883 | 8,750 | 13,526 | 5,762 | 15,532 | 5,785 | 2,115 | 702 | 153 | 52 | 81 | 53,977 |
| 1911 | 32 | 393 | 757 | 34,893 | 21,095 | 68,795 | 10,050 | 4,025 | 2,103 | 973 | 446 | 333 | 143,893 |
| 1912 | 618 | 893 | 1,293 | 2,752 | 1,317 | 6,157 | 6,506 | 3,164 | 1,556 | 349 | 4 | 2 | 24,611 |
| 1913 | 47 | 524 | 599 | 5,146 | 1,766 | 1,892 | 1,567 | 773 | 570 | 39 | 1 | 10 | 12,933 |
| 1914 | 223 | 881 | 5,200 | 69,899 | 22,469 | 12,051 | 5,146 | 2,269 | 964 | 510 | 216 | 248 | 120,076 |
| 1915 | 384 | 357 | 5,474 | 12,260 | 46,698 | 18,794 | 9,307 | 10,107 | 3,718 | 1,444 | 763 | 806 | 110,110 |
| 1916 | 686 | 887 | 4,079 | 69,443 | 24,888 | 22,500 | 7,194 | 3,736 | 2,120 | 842 | 235 | 325 | 136,933 |
| 1917 | 1,217 | 1,873 | 15,700 | 4,144 | 28,541 | 12,478 | 3,956 | 2,138 | 958 | 338 | 95 | 142 | 71,580 |
| 1918 | 237 | 534 | 898 | 970 | 7,734 | 19,434 | 4,441 | 2,132 | 606 | 26 | 2 | 902 | 37,917 |
| 1919 | 912 | 2,310 | 3,202 | 2,939 | 16,683 | 10,956 | 3,352 | 1,133 | 387 | 90 | 68 | 76 | 42,107 |
| 1920 | 91 | 169 | 8,832 | 1,911 | 2,371 | 10,071 | 7,874 | 2,642 | 877 | 205 | 84 | 72 | 35,199 |
| 1921 | 123 | 1,206 | 3,391 | 25,686 | 8,786 | 7,008 | 1,898 | 1,133 | 343 | 3 | 0 | 6 | 49,583 |
| 1922 | 41 | 240 | 17,535 | 5,071 | 57,902 | 14,423 | 5,113 | 2,996 | 1,399 | 154 | 95 | 10 | 104,978 |
| 1923 | 348 | 7,812 | 13,390 | 10,645 | 6,057 | 3,193 | 25,243 | 3,538 | 1,019 | 172 | 68 | 10 | 71,493 |
| 1924 | 308 | 396 | 542 | 3,035 | 1,078 | 4,216 | 3,302 | 344 | 60 | 4 | 0 | 18 | 13,304 |
| 1925 | 89 | 2,289 | 1,781 | 4,641 | 9,648 | 3,984 | 6,368 | 4,550 | 1,026 | 172 | 68 | 10 | 34,626 |
| 1926 | 102 | 323 | 538 | 2,148 | 38,982 | 9,841 | 24,952 | 3,142 | 435 | 64 | 45 | 39 | 80,608 |
| 1927 | 203 | 18,154 | 2,069 | 4,644 | 42,382 | 11,492 | 7,367 | 4,142 | 1,331 | 353 | 52 | 87 | 92,274 |
| 1928 | 120 | 1,206 | 2,264 | 2,971 | 11,911 | 15,561 | 8,975 | 1,672 | 552 | 10 | 1 | 17 | 45,260 |
| 1929 | 99 | 967 | 5,143 | 1,695 | 10,901 | 8,720 | 3,606 | 1,278 | 747 | 27 | 2 | 2 | 33,188 |
| 1930 | 23 | 36 | 367 | 5,223 | 4,204 | 17,392 | 2,470 | 1,022 | 168 | 62 | 8 | 13 | 30,988 |
| 1931 | 33 | 405 | 517 | 4,645 | 1,586 | 1,940 | 633 | 208 | 18 | 0 | 0 | 3 | 9,988 |
| 1932 | 50 | 48 | 29,123 | 12,186 | 27,387 | 6,526 | 2,137 | 1,204 | 371 | 58 | 6 | 2 | 79,097 |
| 1933 | 41 | 104 | 694 | 6,702 | 3,214 | 2,289 | 980 | 326 | 29 | 2 | 0 | 3 | 14,383 |
| 1934 | 68 | 84 | 11,053 | 15,711 | 11,079 | 7,131 | 2,292 | 899 | 682 | 43 | 1 | 17 | 49,058 |
| 1935 | 41 | 3,189 | 1,144 | 15,387 | 2,550 | 8,119 | 21,733 | 4,725 | 1,132 | 349 | 84 | 34 | 58,486 |
| 1936 | 30 | 254 | 801 | 6,849 | 42,111 | 8,046 | 7,972 | 2,833 | 1,262 | 491 | 32 | 4 | 70,685 |
| 1937 | 337 | 240 | 2,324 | 3,341 | 33,407 | 31,150 | 9,555 | 3,345 | 1,328 | 356 | 66 | 8 | 85,456 |
| 1938 | 21 | 254 | 11,258 | 5,635 | 65,603 | 62,711 | 8,586 | 3,975 | 1,819 | 818 | 363 | 325 | 161,366 |
| 1939 | 387 | 805 | 1,163 | 1,941 | 2,879 | 7,014 | 2,760 | 960 | 370 | 16 | 0 | 2 | 18,297 |
| 1940 | 22 | 64 | 85 | 24,212 | 34,380 | 25,163 | 10,670 | 4,194 | 2,103 | 1,217 | 792 | 6 | 102,907 |
| 1941 | 652 | 781 | 19,159 | 18,085 | 53,596 | 62,688 | 55,591 | 12,095 | 3,334 | 1,858 | 984 | 645 | 229,468 |
| 1942 | 618 | 1,129 | 15,450 | 25,227 | 21,095 | 16,757 | 28,417 | 9,610 | 5,217 | 2,028 | 802 | 580 | 126,930 |
| 1943 | 644 | 1,456 | 1,887 | 17,950 | 9,431 | 25,516 | 7,030 | 4,191 | 2,103 | 819 | 356 | 106 | 71,489 |
| 1944 | 237 | 533 | 839 | 2,364 | 12,019 | 22,800 | 5,343 | 2,502 | 1,196 | 645 | 228 | 26 | 48,730 |
| 1945 | 21 | 1,934 | 1,809 | 1,725 | 23,926 | 11,009 | 7,023 | 2,829 | 795 | 192 | 0 | 2 | 51,264 |
| 1946 | 954 | 1,051 | 19,159 | 8,800 | 3,722 | 4,734 | 3,088 | 2,166 | 665 | 474 | 66 | 8 | 44,886 |
| 1947 | 21 | 3,822 | 3,160 | 604 | 2,315 | 2,114 | 1,721 | 688 | 226 | 61 | 9 | 2 | 14,743 |
| 1948 | 41 | 48 | 967 | 703 | 1,049 | 3,161 | 5,436 | 2,176 | 694 | 356 | 66 | 8 | 14,703 |
| 1949 | 50 | 96 | 1,409 | 1,969 | 2,817 | 18,983 | 4,265 | 1,662 | 552 | 64 | 45 | 43 | 31,955 |
| 1950 | 32 | 254 | 647 | 5,314 | 8,619 | 3,332 | 4,538 | 2,227 | 549 | 14 | 1 | 17 | 25,543 |
| 1951 | 30 | 13,764 | 12,191 | 6,402 | 3,985 | 5,245 | 2,399 | 2,116 | 685 | 219 | 23 | 2 | 47,061 |

MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

| Unimpaired Carmel River Flow at San Clemente Dam: 1902-Present | | | | | | | | | | | | | |
|----------------------------------------------------------------|-------|-------|--------|--------|---------|---------|--------|--------|-------|-------|-------|-------|---------|
| All Values in Acre-Feet | | | | | | | | | | | | | |
| Water Year | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| 1952 | 87 | 812 | 10,650 | 56,480 | 11,775 | 33,953 | 9,307 | 3,470 | 1,263 | 766 | 400 | 35 | 128,996 |
| 1953 | 253 | 580 | 7,491 | 14,482 | 5,115 | 8,836 | 6,718 | 7,386 | 2,579 | 770 | 95 | 142 | 54,446 |
| 1954 | 47 | 524 | 1,344 | 4,161 | 9,438 | 9,342 | 2,280 | 1,340 | 702 | 153 | 52 | 87 | 29,467 |
| 1955 | 539 | 569 | 4,656 | 5,843 | 3,908 | 3,197 | 2,932 | 3,227 | 1,129 | 393 | 101 | 3 | 26,496 |
| 1956 | 523 | 588 | 28,661 | 44,991 | 24,396 | 12,079 | 9,175 | 4,584 | 2,389 | 701 | 228 | 492 | 128,806 |
| 1957 | 688 | 396 | 576 | 2,705 | 4,811 | 12,793 | 2,465 | 3,708 | 2,326 | 414 | 35 | 85 | 31,002 |
| 1958 | 270 | 432 | 2,770 | 6,427 | 31,735 | 38,490 | 62,357 | 7,159 | 3,233 | 1,358 | 364 | 249 | 154,843 |
| 1959 | 237 | 537 | 596 | 5,669 | 14,573 | 4,154 | 1,854 | 1,133 | 343 | 3 | 0 | 604 | 29,702 |
| 1960 | 258 | 293 | 318 | 3,005 | 9,578 | 3,089 | 2,042 | 1,618 | 552 | 10 | 1 | 17 | 20,780 |
| 1961 | 47 | 524 | 1,970 | 1,202 | 1,766 | 1,872 | 1,011 | 512 | 318 | 54 | 2 | 2 | 9,278 |
| 1962 | 41 | 240 | 2,324 | 1,336 | 24,698 | 14,643 | 4,538 | 1,993 | 823 | 228 | 66 | 12 | 50,942 |
| 1963 | 2,308 | 668 | 1,664 | 10,070 | 24,149 | 10,225 | 22,218 | 9,459 | 3,351 | 1,291 | 776 | 403 | 86,582 |
| 1964 | 993 | 4,570 | 1,810 | 6,953 | 4,011 | 2,830 | 2,942 | 1,645 | 779 | 336 | 39 | 69 | 26,977 |
| 1965 | 101 | 1,814 | 7,488 | 16,773 | 3,974 | 3,472 | 9,948 | 3,870 | 1,514 | 752 | 95 | 142 | 49,941 |
| 1966 | 104 | 4,100 | 5,061 | 6,409 | 6,057 | 3,197 | 1,567 | 778 | 570 | 39 | 1 | 10 | 27,892 |
| 1967 | 99 | 967 | 15,700 | 15,711 | 11,079 | 22,571 | 30,340 | 12,133 | 3,759 | 1,413 | 355 | 176 | 114,304 |
| 1968 | 308 | 396 | 1,017 | 2,173 | 3,405 | 3,244 | 1,650 | 790 | 189 | 0 | 0 | 3 | 13,177 |
| 1969 | 102 | 345 | 1,611 | 47,886 | 65,603 | 35,128 | 13,746 | 5,209 | 2,929 | 1,405 | 164 | 85 | 174,213 |
| 1970 | 316 | 559 | 2,977 | 19,153 | 6,113 | 16,410 | 3,886 | 2,429 | 1,019 | 172 | 68 | 10 | 53,112 |
| 1971 | 33 | 3,822 | 10,650 | 6,807 | 2,737 | 3,213 | 2,789 | 1,674 | 811 | 160 | 7 | 6 | 32,707 |
| 1972 | 32 | 254 | 5,261 | 2,571 | 3,492 | 1,411 | 1,148 | 479 | 29 | 2 | 0 | 3 | 14,681 |
| 1973 | 348 | 5,165 | 2,643 | 17,933 | 41,246 | 29,325 | 9,809 | 4,340 | 1,910 | 428 | 84 | 38 | 113,269 |
| 1974 | 388 | 2,793 | 7,040 | 15,413 | 4,465 | 29,102 | 18,412 | 5,018 | 2,268 | 886 | 216 | 102 | 86,102 |
| 1975 | 280 | 682 | 2,976 | 1,992 | 25,490 | 34,952 | 11,777 | 5,226 | 2,237 | 1,037 | 457 | 106 | 87,211 |
| 1976 | 457 | 714 | 733 | 732 | 775 | 1,548 | 971 | 344 | 60 | 6 | 0 | 18 | 6,358 |
| 1977 | 94 | 104 | 225 | 899 | 355 | 602 | 351 | 205 | 18 | 0 | 0 | 3 | 2,855 |
| 1978 | 50 | 96 | 4,555 | 34,431 | 40,974 | 38,980 | 16,742 | 8,747 | 3,229 | 1,994 | 922 | 701 | 151,421 |
| 1979 | 644 | 1,350 | 1,508 | 5,216 | 11,539 | 12,244 | 9,708 | 4,025 | 2,103 | 973 | 446 | 333 | 50,087 |
| 1980 | 618 | 1,423 | 5,311 | 31,458 | 54,610 | 25,562 | 10,714 | 6,350 | 3,342 | 2,261 | 1,012 | 735 | 143,395 |
| 1981 | 463 | 678 | 1,511 | 9,610 | 5,117 | 13,359 | 6,183 | 2,830 | 1,129 | 393 | 101 | 71 | 41,445 |
| 1982 | 443 | 6,601 | 5,014 | 25,227 | 12,039 | 17,506 | 48,594 | 8,088 | 3,944 | 1,924 | 633 | 510 | 130,522 |
| 1983 | 915 | 5,378 | 24,217 | 45,174 | 50,404 | 111,208 | 41,335 | 25,109 | 8,009 | 3,853 | 2,096 | 1,288 | 318,987 |
| 1984 | 1,788 | 8,502 | 29,374 | 11,303 | 5,629 | 4,810 | 3,661 | 2,166 | 1,192 | 378 | 163 | 214 | 69,180 |
| 1985 | 590 | 3,189 | 3,779 | 2,189 | 3,855 | 6,339 | 3,926 | 1,751 | 702 | 153 | 52 | 87 | 26,611 |
| 1986 | 123 | 1,206 | 3,302 | 3,464 | 57,902 | 43,220 | 9,175 | 4,194 | 1,819 | 818 | 363 | 325 | 125,911 |
| 1987 | 387 | 501 | 843 | 1,155 | 4,966 | 4,638 | 1,808 | 660 | 435 | 64 | 45 | 49 | 15,551 |
| 1988 | 96 | 251 | 1,807 | 4,048 | 1,238 | 858 | 805 | 574 | 206 | 70 | 69 | 61 | 10,083 |
| 1989 | 96 | 210 | 1,107 | 1,526 | 1,323 | 3,607 | 1,461 | 658 | 137 | 30 | 38 | 56 | 10,248 |
| 1990 | 215 | 299 | 305 | 1,299 | 3,691 | 1,667 | 610 | 240 | 92 | 53 | 64 | 71 | 8,606 |
| 1991 | 115 | 92 | 78 | 76 | 127 | 18,503 | 4,625 | 1,482 | 529 | 145 | 94 | 100 | 25,965 |
| 1992 | 116 | 247 | 830 | 2,437 | 22,393 | 10,058 | 3,571 | 1,456 | 489 | 90 | 46 | 45 | 41,777 |
| 1993 | 59 | 75 | 2,746 | 42,312 | 32,268 | 17,983 | 7,142 | 3,549 | 2,211 | 767 | 275 | 119 | 109,506 |
| 1994 | 159 | 419 | 1,113 | 1,114 | 5,523 | 2,321 | 1,242 | 1,082 | 318 | 11 | 1 | 11 | 13,313 |
| 1995 | 45 | 229 | 775 | 53,049 | 9,583 | 59,891 | 12,116 | 8,833 | 4,905 | 2,433 | 761 | 499 | 153,118 |
| 1996 | 369 | 419 | 2,433 | 4,991 | 29,961 | 21,108 | 8,325 | 4,583 | 2,029 | 772 | 281 | 139 | 75,412 |
| 1997 | 293 | 2,038 | 15,310 | 53,700 | 15,700 | 5,605 | 2,947 | 1,450 | 792 | 489 | 202 | 35 | 98,561 |
| 1998 | 148 | 1,120 | 6,569 | 28,108 | 114,253 | 27,016 | 23,873 | 13,078 | 6,866 | 3,282 | 1,640 | 948 | 226,901 |
| 1999 | 1,154 | 2,140 | 3,290 | 4,708 | 12,244 | 9,036 | 12,022 | 4,053 | 1,735 | 588 | 196 | 56 | 51,222 |
| 2000 | 92 | 483 | 526 | 10,058 | 29,964 | 20,027 | 6,827 | 3,118 | 1,364 | 641 | 216 | 183 | 73,499 |
| 2001 | 723 | 863 | 682 | 5,464 | 9,413 | 18,702 | 4,705 | 2,861 | 1,144 | 329 | 66 | 29 | 44,981 |

MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

| Unimpaired Carmel River Flow at San Clemente Dam: 1902-Present | | | | | | | | | | | | | |
|----------------------------------------------------------------|-----|-------|--------|--------|--------|--------|--------|-------|-------|-------|-----|-----|---------|
| All Values in Acre-Feet | | | | | | | | | | | | | |
| Water Year | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
| 2002 | 106 | 1,166 | 8,910 | 7,280 | 3,290 | 4,384 | 3,082 | 1,751 | 768 | 144 | 1 | 6 | 30,888 |
| 2003 | 65 | 3,506 | 16,656 | 12,469 | 4,171 | 5,732 | 7,009 | 6,324 | 2,220 | 771 | 337 | 174 | 59,434 |
| 2004 | 128 | 395 | 3,923 | 4,668 | 15,183 | 8,321 | 2,488 | 1,262 | 460 | 68 | 4 | 10 | 36,910 |
| 2005 | 791 | 977 | 8,984 | 31,522 | 22,134 | 24,718 | 12,337 | 6,184 | 2,848 | 1,117 | 317 | 224 | 112,153 |
| 2006 | 487 | 519 | 5,368 | 12,970 | 7,367 | 22,962 | 43,132 | 8,667 | 3,333 | 1,324 | 656 | 432 | 107,217 |
| 2007 | 496 | 656 | 1,482 | 1,233 | 3,024 | 2,957 | 1,196 | 747 | 359 | 158 | 107 | 127 | 12,542 |
| 2008 | 245 | 272 | 543 | 20,072 | 14,893 | 7,048 | 2,806 | 1,558 | | | | | 47,437 |
| 2009 | | | | | | | | | | | | | |
| 2010 | | | | | | | | | | | | | |
| 2011 | | | | | | | | | | | | | |
| 2012 | | | | | | | | | | | | | |
| 2013 | | | | | | | | | | | | | |
| 2014 | | | | | | | | | | | | | |
| 2015 | | | | | | | | | | | | | |

Summary Statistics: Water Years 1902 - 2007

| | | | | | | | | | | | | | |
|-------------|-------|--------|--------|--------|---------|---------|--------|--------|-------|-------|-------|-------|---------|
| Min | 21 | 36 | 78 | 76 | 127 | 602 | 351 | 205 | 18 | 0 | 0 | 2 | 2,855 |
| Max | 2,741 | 18,154 | 29,374 | 69,899 | 114,253 | 111,208 | 62,357 | 25,109 | 8,009 | 3,853 | 2,096 | 1,288 | 318,987 |
| Mean | 353 | 1,483 | 5,232 | 12,891 | 17,103 | 16,578 | 9,288 | 3,658 | 1,490 | 570 | 210 | 155 | 69,011 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

Exceedence Frequency Values: Water Years 1902 -2007

| % of Time | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | TOTAL |
|--------------|-----|-------|--------|--------|--------|--------|--------|-------|-------|-------|-----|-----|---------|
| 12.50 | 681 | 3,139 | 13,240 | 31,514 | 40,725 | 30,922 | 18,203 | 7,358 | 3,232 | 1,354 | 446 | 394 | 128,972 |
| 25.00 | 463 | 1,324 | 6,295 | 15,711 | 24,334 | 22,152 | 9,938 | 4,304 | 2,103 | 772 | 265 | 171 | 104,460 |
| 37.50 | 316 | 891 | 3,869 | 10,004 | 15,506 | 16,091 | 7,902 | 3,648 | 1,352 | 503 | 101 | 95 | 71,547 |
| 50.00 | 219 | 622 | 2,324 | 6,122 | 9,616 | 11,250 | 5,984 | 2,831 | 1,025 | 349 | 68 | 58 | 51,082 |
| 62.50 | 102 | 490 | 1,549 | 4,644 | 6,057 | 7,474 | 3,901 | 2,115 | 755 | 160 | 52 | 18 | 41,570 |
| 75.00 | 73 | 328 | 1,015 | 2,604 | 3,976 | 4,448 | 2,767 | 1,367 | 552 | 64 | 7 | 10 | 29,526 |
| 87.50 | 41 | 212 | 605 | 1,360 | 2,573 | 3,098 | 1,659 | 774 | 321 | 17 | 1 | 3 | 14,683 |

Notes:

1. Runoff values for Water Years 1902 - 2005 were reconstructed by the Monterey Peninsula Water Management District based on records provided by the United States Geological Survey (USGS) and California American Water (CAW).
2. Runoff values for Water Years 2006 and 2007 were computed by the Monterey Peninsula Water Management District based on records provided by CAW.

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