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**WESTERN-SAN BERNARDINO WATERMASTER
FOR**

WESTERN MUNICIPAL WATER DISTRICT, et al

vs.

EAST SAN BERNARDINO COUNTY WATER DISTRICT, et al

CASE NO. 78426 - COUNTY OF RIVERSIDE

ANNUAL REPORT

OF THE

WESTERN-SAN BERNARDINO WATERMASTER

CALENDAR YEAR 1970

SEPTEMBER 1, 1971

WESTERN-SAN BERNARDINO WATERMASTER

FOR
WESTERN MUNICIPAL WATER DISTRICT, ET AL
VS.
EAST SAN BERNARDINO COUNTY WATER DISTRICT, ET AL
CASE NO. 78426 - COUNTY OF RIVERSIDE

September 1, 1971

WATERMASTER
JAMES C. HANSON
ALBERT A. WEBB

MAILING ADDRESS
3788 MCCRAY STREET
RIVERSIDE, CALIFORNIA 92506
TELEPHONE 714-686-1070

To: Clerk of Superior Court of Riverside County
and all Parties

Re: Watermaster Report for Calendar Year of 1970

Gentlemen:

We have the honor of submitting the Annual Report of the Western-San Bernardino Watermaster for the Calendar Year 1970.

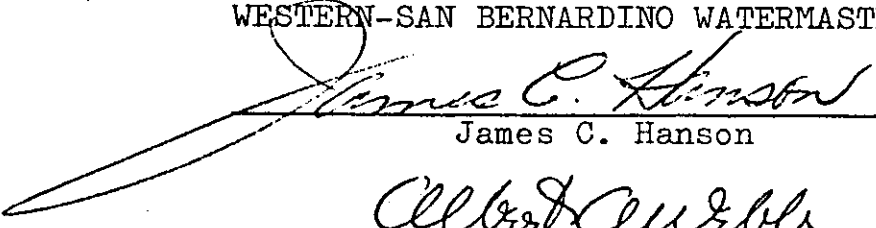
The provisions of Paragraph III and Paragraphs V to XII of the Judgment in Case No. 78426, entered April 17, 1969, became effective from and after January 1, 1971. The Judgment requires that the Watermaster shall report to the Court and to each Party in writing not more than seven months after the end of each year, or within such other time as the Court may fix, on each determination made by it pursuant to the Judgment and such other items as the Parties may mutually request or the Watermaster may deem to be appropriate. The Watermaster requested a 30-day extension of time in which to file the report, which was granted by the Court.

The report is herewith submitted under date of September 1, 1971.

The Watermaster would appreciate receiving any comments and suggestions pertinent to the contents and format for improvement of future annual reports.

Sincerely yours,

WESTERN-SAN BERNARDINO WATERMASTER


James C. Hanson


Albert A. Webb

WATERMASTER REPORT TO COURT AND PARTIES

FOR CALENDAR YEAR 1970

This report is made to the Court and to the ACTIVE PARTIES to the Judgment set forth in Paragraph I thereof as follows:

1. Plaintiff Western Municipal Water District of
Riverside County
2. Plaintiff City of Riverside
3. Plaintiffs Riverside Highland Water Company
Agua Mansa Water Company
Meeks & Daley Water Company
4. Plaintiff The Regents of the University of California
5. Defendant San Bernardino Valley Municipal Water District

Paragraph XIII (e) p. 26, starting with Line 11, of the Judgment requires the Watermaster to make certain findings and determinations in writing, which are to be certified by unanimous action of both members of the Watermaster Committee.

Items to be determined and reported by Watermaster include, but are not limited to, the following:

- Item 1. The correct figures for the Judgment:
- a) Paragraph V (b), p. 10, starting with Line 18: -
the total actual average annual extractions from the San Bernardino Basin Area by entities other than Plaintiffs for use within San Bernardino County for the five-year period ending with 1963.
 - b) Paragraph VI (b)1, p. 11, starting with Line 3: -
the annual "adjusted right" of each Plaintiff to extract water from the San Bernardino Basin Area.

- c) Paragraph VIII (a), p. 16, starting with Line 18: - the average annual extractions from the Colton Basin Area and that portion of the Riverside Basin Area within San Bernardino County, for use outside San Bernardino Valley Municipal Water District, for the five-year period ending with 1963.
- d) Paragraph IX (a), p. 20, starting with Line 17: - the average annual extractions from the portion of the Riverside Basin Area in Riverside County which is tributary to Riverside Narrows, for use in Riverside County, for the five-year period ending with 1963.
- e) Paragraph X, p. 21, starting with Line 17: - the average annual amounts of water extracted from the San Bernardino Basin Area and the area downstream therefrom to Riverside Narrows during the five-year period ending with 1963 which were exported for use outside of the area tributary to Riverside Narrows. Also, the average annual amount exported from San Bernardino Basin Area for use in areas not within Western and not tributary to Riverside Narrows and any exports from the San Bernardino Basin Area for use in the Yucaipa, San Timoteo, Oak Glen and Beaumont Basins.

Item 2. Paragraph VIII (d), p. 17, starting with Line 31:

Determine static water levels as they exist in wells numbered 1S/4W-21Q3, 1S/4W-29H1, and 1S/4W-29Q1 for which the average water level shall be no lower than that which existed in the fall season of 1963. Such 1963 average water level is determined to be 822.04 feet

above sea level. In future years, the level shall be computed by averaging the lowest static water levels in each of the three wells occurring at or about the same time of the year, provided that no measurements will be used which will reflect the undue influence of pumping in nearby wells.

Item 3. Paragraph XIII (g), p. 26, starting with Line 28:

The Watermaster shall initially compute and report to the Court the natural safe yield of the San Bernardino Basin Area, said computation to be based upon the cultural conditions equivalent to those existing during the five calendar year period ending with 1963.

Paragraph VI (b)4, p. 12, starting with Line 10:

If the natural safe yield of the San Bernardino Basin Area has not been determined by January 1, 1972, the initial determination thereof shall be retroactive to that date.

Item 4. Paragraph XIII (e), p. 26, starting with Line 11:

Such other items as:

- a) The parties may mutually request or
- b) The Watermaster may deem appropriate

The work performed pursuant to the above listed items by the Watermaster during the calendar year 1970 was as follows:

Re: Item 1. The correct figures for the Judgment, as described in Item 1, Subparagraphs (a) through (e), all require the verification of the figures which appear in the described sections of the Judgment. The verification procedure is described in the succeeding paragraphs, and the results of the verification are shown in comparison with the figures appearing in the Judgment.

Re: Item 1a). The total actual average annual extractions from San Bernardino Basin Area by entities other than Plaintiffs

The Watermaster obtained from the official records of the State Water Resources Control Board the extractions by individual wells and points of surface diversions for the San Bernardino Basin Area, as reported by extracting entities, and computed the average annual extraction from each source and the total extraction by each entity for the five-year Base Period ending with the calendar year 1963.

During the detailed verification procedure, in which the Watermaster was assisted by an engineer of long residence in the San Bernardino Basin Area, it was found that there were 474 filed reports of extractions made by entities other than the Plaintiffs. It was also discovered that there were an additional 159 extractors from wells and surface diversions who had never filed water recordation filings with the State Water Resources Control Board, as required by Statutes of the State of California. The task of verification was complicated by the lack of filings and has required appreciably more time than had been contemplated.

It became necessary to obtain the records of power companies supplying power to the pumps of the non-filers, together with copies of such pump tests

as the power companies had made upon these pumping units. The power information was obtained by stipulation with the power company concerning the records which would be furnished by the Watermaster. The power companies were most cooperative and permitted one of their employees, who was familiar with both the power company's records and the locations of the various pumping units upon which no filings existed, to work with the Watermaster. The cooperation of many of the non-filers was also secured.

Some difficulty was encountered in verification of surface diversions and extractions in the Lytle Creek area. In order to facilitate future compilation of the annual records in the Lytle Creek area, tentative arrangements have been made with the United States Geological Survey to construct and maintain additional gaging stations in the area, so that additional records needed for clarification will be readily available to the Watermaster.

The extractions made by the United States Government at Norton Air Force Base were also made available to the Watermaster after a considerable period of elapsed time.

The work involved in determining the extractions by entities other than Plaintiffs during the five-year Base Period is now nearing completion.

Re: Item 1b). Plaintiffs' percentage entitlements to the natural safe yield of the San Bernardino Basin Area

As a prerequisite to the determination of the Plaintiffs' percentage entitlement are determinations of Item 1(a) and Item 3 (computation of the natural safe yield of the San Bernardino Basin Area) hereof. Watermaster has made no determination other than herein reported in Items 1(a) and 3.

Re: Item 1c) The average annual extraction from the Colton Basin Area and that portion of the Riverside Basin Area within San Bernardino County for use outside San Bernardino Valley Municipal Water District

1. The average annual extractions from the Colton Basin Area

The Watermaster obtained from the official records of the State Water Resources Control Board the extractions from individual wells and points of surface diversions from the Colton Basin Area. The average annual extractions for the five-year period ending with the calendar year 1963 were tabulated by individual wells and point of surface diversions, with totals for each extracting entity. The pumping equipment and/or diversion facilities and methods of measurement at each individual well and or point of surface diversion were inspected by the Watermaster representatives.

The offices of the major extractors were visited and the methods of reduction and tabulation of individual measurements from which the water quantities were taken for the annual filings with the State Water Resources Control Board were inspected and reviewed. In the case of the smaller extractors, when doubt existed as to the accuracy of the extractions, the owners were contacted and the matter reviewed and discussed.

During the verification, it was found that there were a total of 44 individual extractions upon which filings had been made and 2 non-filers. Both of the non-filers were extractors of very small quantities of water.

The average annual extractions from the Colton Basin Area requiring verification are set forth in Paragraph VIII of the Judgment on p. 16 at Line 22 thereof, as 3,349 acre feet annually during the five-year Base Period. The figure was verified as 3,381 acre feet annually. A tabulation also appears in the Judgment in Appendix "D" as Table D-2, containing the figures for verification. This table is repeated as follows:

APPENDIX D
TABLE D-2

EXTRACTIONS FROM
COLTON BASIN AREA FOR AVERAGE OF
FIVE-YEAR PERIOD ENDING WITH 1963
BY SAN BERNARDINO AND RIVERSIDE COUNTY ENTITIES
FOR USE WITHIN EACH COUNTY

(VALUES IN ACRE FEET)

<u>Extractor</u>	<u>Place of Use</u>		<u>Total</u>
	<u>San Bernardino County</u>	<u>Riverside County</u>	
San Bernardino County Entities	8,480	0	8,480
Riverside County Entities	<u>147</u>	<u>3,349</u>	<u>3,496</u>
<u>TOTAL EXTRACTIONS</u>	8,627	3,349	11,976

A similar table showing the verified quantities is shown below:

TABLE D-2

AS VERIFIED

(VALUES IN ACRE FEET)

<u>Extractor</u>	<u>Place of Use</u>		<u>Total</u>
	<u>San Bernardino County</u>	<u>Riverside County</u>	
San Bernardino County Entities	8,033	0	8,033
Riverside County Entities	<u>115</u>	<u>3,381</u>	<u>3,496</u>
<u>TOTAL EXTRACTIONS</u>	8,148	3,381	11,529

2. The average annual extractions from the Riverside Basin Area within San Bernardino County for use outside San Bernardino Valley Municipal Water District

In performing the verification, the Watermaster used the same procedure as previously outlined in the description of the verification procedure for the Colton Basin Area, starting with the official records of the State Water Resources Control Board for the extractions from individual wells and points of surface diversions from the Riverside Basin Area within San Bernardino County. The average annual extractions for the five-year Base Period ending with the calendar year 1963 were tabulated by individual wells and points of surface diversions, with totals for each extracting entity. The pumping equipment and/or diversion facilities and methods of measurement at each individual well and/or point of surface diversion were inspected by the Watermaster representatives.

The offices of major extractors were visited and the methods of reduction and tabulation of individual measurements from which the water quantities were taken for the annual filings with the State Water Resources Control Board were inspected and reviewed.

In the case of smaller extractors when doubt existed as to the accuracy of extractions, the owners were contacted and the matter reviewed and discussed.

During the verification, it was found that there were a total of 103 individual extractions upon which filing had been made and a total of 6 non-filers.

The average annual extractions from the Riverside Basin Area within San Bernardino County requiring verification are set forth in Paragraph VIII of the Judgment on p. 16 at Line 22 thereof, as 20,191 acre feet annually during the five-year Base Period. The figure was verified as 21,085 acre feet annually. A tabulation also appears in the Judgment in Appendix "D" as Table D-3, containing the figures for verification. This table is repeated as follows:

APPENDIX D
TABLE D-3

EXTRACTIONS FROM
RIVERSIDE BASIN AREA IN SAN BERNARDINO COUNTY
FOR AVERAGE FIVE-YEAR PERIOD ENDING WITH 1963
BY SAN BERNARDINO AND RIVERSIDE COUNTY ENTITIES
FOR USE WITHIN EACH COUNTY

(VALUES IN ACRE FEET)

<u>Extractor</u>	<u>Place of Use</u>		<u>Total</u>
	<u>San Bernardino County</u>	<u>Riverside County</u>	
San Bernardino County Entities	9,582	0	9,582
Riverside County Entities	<u>3,929</u>	<u>20,191</u>	<u>24,120</u>
<u>TOTAL EXTRACTIONS</u>	13,511	20,191	33,702

TABLE D-3

AS VERIFIED

(VALUES IN ACRE FEET)

<u>Extractor</u>	<u>Place of Use</u>		<u>Total</u>
	<u>San Bernardino County</u>	<u>Riverside County</u>	
San Bernardino County Entities	9,609	0	9,609
Riverside County Entities	<u>3,035</u>	<u>21,085</u>	<u>24,120</u>
<u>TOTAL EXTRACTIONS</u>	12,644	21,085	33,729

Re: Item 1d). The average annual extractions from the portion of Riverside Basin Area in Riverside County which is tributary to Riverside Narrows for use in Riverside County for the five-year Base Period ending in 1963

Paragraph IX of the Judgment in Subparagraph (a) on p. 20 states that the annual average for the five-year Base Period ending with 1963 is assumed to be 30,044 acre feet and directs the Watermaster to determine the correct figure.

The records of the extractions from individual wells filed with the State Water Resources Control Board were used as the basis of the required verification.

During the work of verification, each well was visited and the pumping and/or diversion equipment and measuring devices were inspected by the Watermaster representatives.

The offices of major extractors were visited and the methods of reduction and tabulation of individual measurements from which the water quantities for the annual filings with the State Water Resources Control Board were inspected and reviewed. In the case of smaller extractors, when doubt existed as to the accuracy of the extractions, the owners were contacted and the matter reviewed and discussed.

During the work of verification, it was found that there were a total of 118 individual extractions

upon which filings had been made and 5 non-filers, as well as several correction filings.

The five-year annual average as verified is 29,633 acre feet, as compared with the assumed figure of 30,044 acre feet set forth in the Judgment.

Re: Item 1e). (1) Average annual amounts of water which have been extracted by Plaintiffs from the San Bernardino Basin Area and area downstream therefrom to the Riverside Narrows during the five-year period ending in 1963 which have been exported for use outside the area tributary to the Riverside Narrows
(2) The average annual amount during the five-year period ending in 1963 exported from the San Bernardino Basin Area for use in areas not within Western which are not tributary to the Riverside Narrows

1. The collection of official records and the work of verification completed by the Watermaster as described in Items 1a), 1c), and 1d) preceding, contain required data which must be supplemented with detailed information from the City of Riverside Irrigation Division (Riverside Canal), and the Domestic Division, Gage Canal Company, the West Riverside Canal Company, Twin Buttes Water Company, Agua Mansa Water Company, Salazar Water Company, Jurupa Water Company, Rubidoux Community Services District, Jurupa Hills Water Company,

and others whose service area may be bisected by the boundary lines of the Riverside Basin, thus causing deliveries to be made in areas some of which are tributary while others are non-tributary.

The employment of Mr. John Mylne to assist the Watermaster in obtaining the Gage Canal Company deliveries to non-tributary areas has been highly successful, and form letters have been prepared which will be filled out by the Gage Canal Company for delivery to the Watermaster once each year, setting forth annual deliveries to the non-tributary areas.

Similar procedures are being worked out with the City of Riverside, the West Riverside Canal Company, and many of the water companies. These are now nearly complete and will provide the Watermaster with the required data on form letters designed to fit the records of each company and the Watermaster requirements

2. Reference is made to Item 1a) preceding, which describes the progress and present status of the verification of the Base Period extractions by entities other than Plaintiffs within the San Bernardino Basin Area and contains a brief description of the tentative arrangements made with

the United States Geological Survey for additional measuring devices for determining the flow of Lytle Creek. This item will not be completed until the verification under Item 1a) is complete.

Re: Item 2.

Determination of the average lowest static water level which existed in the fall season of the current year in the Colton Basin Area and that part of the Riverside Basin Area within San Bernardino County as evidenced by the average of the depths to the water table in three wells having the following State well numbers: 1S/4W-21Q3, 1S/4W-29H1, and 1S/4W-29Q1

In past years, the water table within the Colton Basin Area and the upstream portion of the Riverside Basin within San Bernardino County had receded to a depth which caused concern. It was agreed that in future years the static elevation of the water table in the area of concern would be maintained at an elevation no lower than that which existed in the fall of 1963, as evidenced by the average of the lowest static fall water level elevation occurring in each of the three wells having State well numbers: 1S/4W-21Q3, 1S/4W-29H1, and 1S/4W-29Q1.

The 1963 fall water level is stated in the Judgment to be 822.04 feet above sea level.

The elevation of the average fall water level in the year of 1970 is shown as follows:

YEAR OF 1970

LOWEST STATIC WATER LEVEL ELEVATION
IN YEAR OF 1970 AT WELLS SHOWN

<u>Well</u>	<u>Water Level Elevation</u>
1S/4W-21Q3	881.66
1S/4W-29H1	882.38
1S/4W-29Q1	<u>872.47</u>
<u>Total</u>	2636.51
<u>Average</u>	878.84

The average lowest static water level elevation for the three wells in 1970 is 878.84, which shows a rise of 56.8 feet above the 1963 elevation of 822.04. This welcome rise was caused by the abundant rainfall and corresponding runoff which occurred in the year of 1969.

Re: Item 3. Determination of the natural safe yield of the San Bernardino Basin Area based upon the cultural conditions equivalent to those existing during the five calendar year period ending with 1963

The Judgment in Paragraph XIII (g), p. 26, directs the Watermaster to determine the natural safe yield of the San Bernardino Basin Area. This determination has not yet been completed by the Watermaster.

Precedent to completion of the safe yield study, the verification of extractions by entities other than Plaintiffs must be completed. This verification is nearly complete, the present status of which is explained in Item 1a) preceding. The classification

of the land culture for the five-calendar year period ending in 1963 is essentially completed, as well as many of the hydrological factors required for safe yield determination.

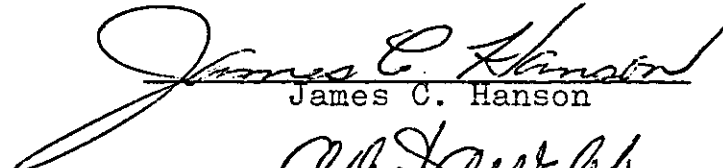

Re: Item 4a). Other items of work mutually requested by Parties

No requests have been received by the Watermaster.

Re: Item 4b). Other items deemed appropriate by the Watermaster

The Watermaster also expresses the deep regret both Committeemen feel as a result of the death of Clinton Henning, former Watermaster Committeeman.

We, and each of us, hereby certify the foregoing is a true and correct report of Watermaster work performed by us and under our supervision during 1970 pursuant to Judgment requirements.


James C. Hanson

Albert A. Webb

DATED: September 1, 1971