

Dec 31 - 1975

Mr. Mathews: Will you glance over this sheet. I have taken the payroll for the year as a basis for distributing the Tool Expense -- taking just those accounts that I thought the Tool Expense applied to -- and have figured the percent of each account to the entire amount, so that it stands as follows:

<i>cut down</i>	E-14-15 El Monte	19.3%	
	E-14-15 Grossmont	1%	
	E-24 Meter Repairs	3%	
	E-28A Flume Repairs	10.2%	
	E-28B 36" Wood Pipe	3%	
<i>increase</i>	E-30A Repairs West	3%	73%
	E 30B " ElCajon	4%	
	E 30C " Eucal	3%	
	E-31 Repairs, Srvs.	4%	58%
	E-31		
	C18 Nor Hts.	36%	
	C18 Mt. Helix	2%	
<i>increase</i>	C21 Services	115%	
	C18 Grossmont	3%	42%
		100%	

If I have included any accounts here that should not be charged with Tool Expense, cross them off and I will figure it over.

Is the correct figure of Tool Expense \$654.72?

The big items of Tool Exp would be to repair work on main receiver also new main receiver for sharpening picks & bars - the above item I believe is about right. I will try again in perhaps tomorrow noon. for Mr F letter I hope to work

estimate of the amount of the liability should be

Sundries  
 To Tool Expense  
 To charge to the following  
 acct's various items representing  
 material previously charged  
 to Tool Expense.

20 08  
 634.64  
 654.72

	Maintenance & Operation (18%)	379.74
3%	E-14-15 - El Monte	19.64
1%	E-14-15 Grossmont	6.55
3%	E-24 - Meter Repairs	19.64
10%	E-28-a Flume Repts	65.47
3%	E-28-b 36" Wood Pipe	19.64
73%	E-30-a Repairs - West	150.59
9%	E-30-b " - ElCajon Ave	58.92
2%	E-30-c " - E of Euclid Pls	13.10
4%	E-31 " Services	26.19

	Capital Accounts (42%)	274.98
76%	C-18 - Nor Hts	170.23
2%	C-18 Mt Helix	13.09
3%	C-18 Grossmont	19.64
11%	C-21 Services	72.02

654.72      654.72

Accounts Receivable  
 Domestic Consumers  
 To Corporate Deficit

1.40

1.40

Entry made to write off  
 small credit balances of long  
 standing on following accounts  
 5/7 - Mrs Bertha Fleisher .79  
 10/10 - Mrs Mary Hagg .33  
 6/3/14 - Owen Miller (Dr Crst) .20  
 6/3/14 - O Kieber .08  
 1.40



# General Entry

## December 31, 1925

Fixed Capital Installed since  
December 31, 1912

996966

To Sundries

Five pipe lines transferred or  
donated to this company as follows  
M. S. Spearman, Joseph B. Taylor and  
Wendell Whitney

By H. C. Lauff, Ship Atty - in fact  
on Logan Avenue, between Green and  
Third Streets - Boston area

1307 ft 3" New Std. Pipe (installed)

at \$56.14 per 100 ft

73375

2 - 3 in 45' Bell at \$1.10

220

Installed during month of August 1925

Pacific Building Co. - May 1925

560 ft 2 in Std. Pipe (New) @ 24.29 = 13600

5420 " 3 " " " " " " " 37.00 200540

700 " 4 " " " " " " " 55.80 39000

1350 " 6 " " " " " " " 10360 1398.60

8 3" Gate Valves " 9.50 76.00

1 6" " " " " " 22.00

1 4" " " " " " 12.50

1 2" " " " " " 3.65

1 3x2 B. J. Tee 85

1 6x3 " " 350

1 6x4x3 " " 400

1 4x3x3 " " 150

2 6 in Bell 2.00 400

8 4" Flanges .75 600

8 6" " " 1.25 1000

8 3" Nipples .40 320

1 6" " " 1.25

2 2" " " 1.25

1 4" Plug 35

Distribution auto Truck 77561 # @ 1.154 11634

Digging & Backfilling 8030 lin ft @ .124 96360

560 ft 2 in Pipe Laying @ .304 1680

5420 " 3 " " " @ .454 24390

700 " 4 " " " @ .604 4200

1350 " 6 " " " @ .104 13500

" 6" " " " under

pavement } 2500

73590

85244

Journal Entry  
December 31, 1925

June 1925

2640	ft	3	3/4	Std Life (New)	\$56.14	118210
640	"	4	"	" " " "	77.61	49670
		3	3	Gate Valve	9.50	2850

July 1925

1338	ft	3	3/4	Std Life (New)	\$56.14	75115
250	ft	3	3/4	Std Life (New)	\$56.14	14035
						852149

Kensington Park Extension

Donated by Mary B. Franceses

325	ft	2 1/2	3/4	Std Life		48722
430	"	1 1/2	"	"		
120	"	3/4	"	"		
20	"	3/4	"	"		
				Journal Entry	Installed	22500

December 31, 1925

Leads

To Donations in Aid of Construction  
accounts 28 B

For life lines installed in various tracts  
and sub-divisions by private owners  
and transferred or donated to this  
company as follows

Grossmont Studios	770631
Mrs M. Y. White Mount Helix	1235251
Spangul Tyler & Whitney (Easton Ave)	735951
Pacific Building Co	8521491
Mary B. Franceses	712221

Journal Entry  
Dec 31 - 1925

Corporate Deficit

To accounts Receivable

Entry concerning donation of irrigation  
made to charge to the above  
account refunds allowed in adjustment  
of water bills as follows

John 52 Ryan David	✓	10000
" 55 Quincy E.A.		73

Irrigation

May 1888 Johnson, C.C. 1767

GUYANAGA WATER COMPANY

VALUATION OF GUYANAGA WATER COMPANY MAINS, METERS & SERVICES AS OF DEC. 1, 1925

TRANSMISSION MAINS

MISCELLANEOUS

1,175 Ft. 10 Inch Casing	00	0	
1,460 " 16 " Rlv. Steel		0	
1,530 " 20 " " "		0	
1,200 " 24 " " "		11,500.00	
3,990 " 20 " Concreted		<u>23,008.00</u>	34,508.00

CAST IRON

1,800 Ft. 20 Inch Cast Iron		17,640.00	
3,080 " 16 " " "		17,770.00	
4,350 " 12 " " "		<u>14,158.00</u>	
		49,543.00	
Fittings		<u>2,477.15</u>	52,020.15
			\$86,328.15

DISTRIBUTION MAINS

MISCELLANEOUS

400 Ft. 6 Inch Math. Jt.		559.00	
3,500 " 4 " Casing		0	
12,562 " 3 " Std.		6,232.60	
34,997 " 2 1/2 " "		19,768.12	
46,661 " 2 " "		9,524.63	
1,256 " 1 1/2 " "		0	
4,823 " 1 " "		0	
697 " 3/4 " "		0	
		<u>36,084.35</u>	
Fittings		<u>1,803.00</u>	37,887.35

CAST IRON

9,193 Ft. 6 Inch Cast Iron		13,695.00	
5,148 " 4 " " "		5,791.65	
10,950 " 3 " " "		10,002.00	
5,664 " 2 " " "		<u>4,051.20</u>	
		33,540.85	
Fittings		<u>1,677.00</u>	35,217.85
			73,104.90

METERS

1,821 5/8" x 3/4" Meters		13,625.00	
3 3/4" "		32.28	
19 1" "		137.63	
8 1 1/2" "		184.32	
3 3" "		132.48	
1 4" "		89.20	
2 6" "		<u>362.80</u>	
			14,563.74
1,863 Services		<u>16,418.86</u>	16,418.86

TOTAL MAINS, METERS AND SERVICES			190,415.65
INVENTORY OF STOCK OF PIPE & FITTINGS ON HAND DEC. 1, 1925		<u>2,060.07</u>	192,475.72

*159,433.05*

GUYANAGA WATER CO.

(Memo)

July 15, 1926

Now additions to System Dec. 1, 1925 to date:

1422 Ft. 6 in. Cast Iron Pipe	@ 1.75	\$ 2,488.50
110 " 2 1/2 " Std. Screw "	@ .64	70.40
375 " 2 " " " "	@ .46	172.50
248 3/4 in. Services	@ 12.70	3149.60
4 1 " "	@ 15.00	60.00
1 1 1/2 " "	@ 15.00	15.00
1 2 " "	@ 20.00	20.00
1 3 " "	@ 25.00	25.00
248 5/8 x 3/4 in. meters	@ 10.00	2480.00
4 3/4 " "	@ 15.00	60.00
1 1 " "	@ 22.00	22.00
2 2 " "	@ 60.00	<u>120.00</u>
		\$ 8683.00

*7,731.40*

*3,767.60*

*2,660.00*

E. L. Hudson

CUYANACA WATER COMPANY

PIPE LINES OUTSIDE NORMAL HEIGHTS AND TERALTA

CAST IRON

Feet	Inch	Cast Iron	Year
65	3	" "	1912
2,095	6	" "	1912
500	6	" "	1924
1,422	6	" "	1926
1,400	12	" "	1916
2,950	12	" "	1924
3,080	16	" "	1923
1,300	20	" "	1924

STANDARD SCREW

Feet	Inch	Std. Screw	Year
800	1	" "	1898
800	1 1/2	" "	1898
1,600	2	" "	1898
480	2	" "	1921
128	2	" "	1922
3,701	2	" "	1923
685	2	" "	1924
87	2	" "	1925
6,091	2 1/2	" "	1923
1,360	2 1/2	" "	1924
503	3	" "	1912
59	3	" "	1920
2,573	3	" "	1923

CASING

Feet	Inch	Casing	Year
2,200	4	" "	1898
1,300	4	" "	1918
1,175	10	" "	1914

RIVITED STEEL

Feet	Inch	Riv. Steel	Year
1,460	16	" "	1914
1,200	24	" "	1924

CONCRETE

Feet	Inch	Concrete	Year
3,990	20	" "	1919

METERS AND SERVICES

Quantity	Size	Service	Year
312	5/8" x 3/4"	Meters	
4	3/4"	"	
10	1"	"	
8	1 1/2"	"	
4	2"	"	
1	2" Crest	"	
1	4"	"	
2	6"	"	
322	3/4"	Services	
13	2"	"	
2	3"	"	
1	4"	"	
4	6"	"	

8-17-24  
7145

CUYANACA WATER COMPANY

PIPE LINES OUTSIDE NORMAL HEIGHTS AND TERALTA

CAST IRON

Feet	Inch	Cast Iron	Year
65	3	" "	1912
2,095	6	" "	1912
500	6	" "	1924
1,422	6	" "	1926
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1	4"	"	
2	6"	"	
322	3/4"	Services	
13	2"	"	
2	3"	"	
1	4"	"	
4	6"	"	

8-17-24  
7145

Cuyamaca Water Co.

Valuation as of Feb. 1, 1926

C-18	Distribution Mains		159,433.05
C-22	Meters	\$ 870.00	15,433.74
C-21	Services	\$ 1104.90	17,523.76
	Material & Supplies (Shop)		1,848.36
			<u>194,738.91</u>
C-24 B	General Shop Equipment (Tools)		211.71
	" " " (Cars)		1.00
			<u>194,751.62</u>
C-24 A	General Office Equipment	should we adjust	?
C-5	Landed Capital		?
C-6	Buildings Structures & Grounds		?

CUYAMACA WATER COMPANY CORPORATION

<b>DISTRIBUTION MAINS</b>	as per December 1, 1926.		159,433.05
<b>METERS</b>	as per December 1, 1926	14,563.74	
	" " February 1, 1926	<u>870.00</u>	15,433.74
<b>SERVICES</b>	as per December 1, 1926	16,418.86	
	" " February 1, 1926	<u>1,104.90</u>	17,523.76
<b>MATERIALS &amp; SUPPLIES</b>	February 1, 1926	1,848.36	
<b>TOOLS</b>	" 1, 1926	<u>211.71</u>	2,060.07
<b>Automobiles</b>			<u>1.00</u>
<b>Inventory as per February 1, 1926.</b>			194,451.62

VALUATIONS ON:

- GENERAL OFFICE EQUIPMENT.....
- LANDED CAPITAL.....
- BUILDINGS & STRUCTURES.....

OFFICE EQUIPMENT & SUPPLIES

- 1 Vault
- 1 Safe
- 4 Four Section Steel Files
- 1 Kicking machine ( All Depreciated )
- 1 Typewriter desk and chair
- 1 Electric Fan
- 2 Typewriters ( In very poor condition)
- 3 Flat top tables and chairs
- 1 Adding machine and stand
- 1 Bourroughs Cal.
- 1 Electric Heater
- 1 High Desk ( Depreciated )
- 1 " Chair "
- 1 Settee
- 1 Counter
- 1 Letter Press
- 1 Cash Draw
- Supplies

50.00

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Mr. Fletcher:

Will you please set the valuation on this.

LANDED CAPITAL.....

BUILDINGS, STRUCTURES, & GROUNDS.....

Mr. Fletcher:

Will you give me the valuation on the above property. This is the New Corporation accounts.



MAY 31 1920

Debitors to be charged off

Do 30116	June 1916	Sweet Stearns and Forward	346.26
Do 2072	Dec 1914	Sweet A.H.	1064.12
Do 3001	May 1916	San Diego Bond Gas & Elec Co	96.21
Do 3101	Jan 1915	S.P. Barron	600.00
Do 2088	Jan 1915	Britton and Gray	1550.00
			<u>3656.59</u>

Switzerland Consumers

Laws 31	Hilla A. B.	11.80
L.M. 25	Healior M. B.	370.85
" 42	Marshall Law H.A.	187.84
M.F. 1	Sachen Stearns	64.35
" 14	Godbout J. A.	15.05
" 17	Healior M. C.	10.79
" 22	Kreger John	18.75
" 23	Larroye Louis	55.70
" 26	Martinez F. F.	9.70
Hly K 1	Bates Katherine	1.35
" 23	Somers E. P.	8.90
		<u>755.08</u>

1.2 24 J. H. H. Taylor 1918 1915 7.40  
 May 1918 Board Court Rm

San Luis - Olive Hill Tract

24/10	Ernest Chambers atty	1.00
"	Alfred Collins	4.65
12	A. L. Knefler	8.15
13	O. C. Hayes	1.00
14	A. Williams	1.25
		<u>16.05</u>
<u>Hawley Heights</u>		
28/17	Lawrence Lee	1.00
<u>El Cajon Acres</u>		
30/3	J. B. Handlove	4.00
4	J. A. Murrey	2.50
5	Mrs A. F. Myers	1.00
		<u>7.50</u>
<u>Lemon Grove</u>		
30/12	Mrs Blaine Montgomery	3.00
13	H. H. R. Staitte	8.30
14	James B. D.	3.20
15	Ely E. M.	2.25
16	Mrs Blaine M. Smith	1.65
17	P. A. Pallock	3.30
18	Sweet L. L.	2.45
19	Fretzer Mrs Ida H.	.75
		<u>24.90</u>

ESTABLISHED 1888

Western Metal Supply Co.

San Diego, California May 21 1920

YOUR ORDER NO. 2054

Sold to

CUYULACA WATER CO

TERMS CASH

AFTER MATURITY INTEREST WILL BE CHARGED AT THE RATE OF 10 PER CENT. PER ANNUM  
CLAIMS FOR CORRECTIONS MUST BE MADE WITHIN FIVE DAYS AFTER RECEIPT OF GOODS

#4 Allen & Randall Bolt Cutter  
10 00 pr

10 00

DEC 22 1921

Alhambra Park Spout  
Mrs Anna Belle Jones

No 6045 act 1921	Western Metal Supply Co			
	970 ft 3 in std sewer pipe	@ 37.00	358.99	
		Disc 2%	7.18	351.81
Journal entry Nov 1921	Material and supplies			
	4 - 3 in bells	@ .90	3.60	
	2 - 3 in Tees	@ 1.05	2.10	
	3 - 3 in Slugs	@ .25	.75	
	1 - 3 in Nipple		.25	
	1 - 3 in W. Head Gate		8.40	15.10

FEB 9 1922

Quincy Res.	125 <sup>00</sup> per Ac.
Diversity Dam	100 <sup>00</sup> "
Hebster Reservoir	350 <sup>00</sup> "
Greenmount "	1200 <sup>00</sup> "
Mile " #1	350 <sup>00</sup> "
" " #2	350 <sup>00</sup> "
Murray "	350 <sup>00</sup> "
Eucalyptus "	350 <sup>00</sup> "
La Mesa "	250 <sup>00</sup> "

Faude - Valuation 1916

211

OPERATION WATER COMPANY

Received  
 FEB 27 1926  
 K.L.H.

Operation of Monte Pumps in 1925.

Days operated, May 27 to August 31 - 91

Amount of water pumped - 51,056,676 cubic feet

K.L. Hudson

# WESTERN UNION

## TELEGRAMS CABLEGRAMS

BY TELEPHONE FROM THE WESTERN UNION MAIN OFFICE  
NEWCOMB CARLTON, PRESIDENT      GEORGE W. E. ATKINS, FIRST VICE-PRESIDENT

CLASSES OF DOMESTIC SERVICE	
Fast Day Message	3
Night Message	
Day Letter	
Night Letter	
Charges (if any) \$	

CLASSES OF CABLE SERVICE	
Full Rate	
Half Rate Deferred	
Cable Letter	
Week End Letter	
Charges (if any) \$	

Dated **MARCH 5, 1938**

To **W. S. E. BROWN**  
**315 MONTGOMERY STREET**  
**SAN FRANCISCO, CALIF.**

83011.05  
40592.03

815 —  
40592.03

123603.08

41407.03

DO NOT USE FIGURES GIVEN ON PARTNERSHIP RETURN OF INCOME SENT  
MONDAY UNTIL FURTHER NOTICE

GUYANAGA WATER COMPANY

(Charge Guyanaga Water Co.)

754.77  
3773.85 5/6  
 754.78 1/6  
4528.68

40592.03  
 36063.40  
30) 4528.63 (754)  
 44  
 32  
 20  
 20  
 44  
 44

192.475.72

UYAMACA WATER COMPANY

(MEMO)

February 24, 1926.

New Installations Dec. 1st to date		
114 3/4" Services @ \$12.70		\$1,447.80
113 5/8 x 3/4 Meters @ 10.00		<u>1,130.00</u>
		2, 577.80
1422 ft 6" Cast Iron Pipe @ 1.75		<u>2, 477.50</u>
		5, 066.30

K. L. HUDSON

and 5.15.20

126427114  
 50 592.03  
 167019.17

40592103  
 36063.00  
 4528.43

CLASSES OF CABLE SERVICE

**Full Rate Cablegrams**  
 A fast cable service to all parts of the world at regular rates. Code language permitted.

**Half-Rate Deferred Cablegrams**  
 Subordinated to Full Rate Cablegrams on hand. Must be in plain language of country of origin or destination or in French. Code language not permitted.

**Week-End Letters**  
 The cheapest cable service of all. Accepted at any time. Due for delivery Monday morning. Code language not permitted. Minimum of 25 words (including necessary prefix) charged for.

**Cable Letters**  
 Over-night cable service to certain countries at greatly reduced rates. Due for delivery the following noon. Code language not permitted. Minimum of 13 words (including necessary prefix) charged for.

CLASSES OF DOMESTIC SERVICE

**Fast Day Messages**  
 The regular fast service for all purposes. Code language permitted. Minimum of 10 words charged for.

**Day Letters**  
 For longer communications not requiring the faster service. Subordinated to Fast Day Messages on hand. Must be in plain English. Code language not permitted. Fifty words for the price of an 18-word Day Message.

**Night Letters**  
 Over-night service for longer communications. Accepted up to 2 A.M. Due for delivery the following morning. Code language permitted. Minimum of 10 words charged for.

**Night Messages**  
 Over-night service for short messages at reduced rates. Accepted up to 2 A.M. Due for delivery the following morning. Code language permitted. Minimum of 10 words charged for.

ESTIMATED REVENUE FROM SAN DIEGUITO WATER SYSTEM AS IT EXISTS.BASED UPON THE FOLLOWING ASSUMPTIONS:

1. Minimum payment according to existing contracts prior to the year ending September 30, 1931.
2. Payment for the year ending September 30, 1931, based upon use = average safe duty for irrigation districts with 5% classified as domestic use. Increasing domestic use by 2.5% for each year after 1931 up to a maximum of 30% domestic use in the year ending September 30, 1941.
3. Average use = 10050 ac. ft. per season for the irrigation districts = 95.6% of the 100% supply.
4. City of San Diego use = 3 m.g.d. at 10¢ per 1000 gallons.

Year ending June 30	Per Cent of Domestic use	<u>WATER REVENUE</u>				<u>PIPELINE RENTALS</u>				Grand Total Revenue
		Santa Fe Irrigation District	San Dieguito Irrigation District	Del Mar Water Light & Power Company	City of San Diego	Santa Fe Irrig. Dist. San Dieguito to Lockwood Mesa	City of San Diego Del Mar to La Jolla	Hunting Fishing and Boating Permits	Land Rentals	
1925-26	.0	24,269.34	16,342.84	6,300.00	109,500.00	1,500.00	19,800.00	6,000.00	6,000.00	189,712.18
1926-27	.0	36,404.00	22,285.70	8,820.00	109,500.00	1,500.00	19,800.00	8,000.00	6,000.00	212,309.70
1927-28	.0	48,538.67	28,228.56	11,304.00	109,500.00	1,500.00	19,800.00	8,000.00	6,000.00	232,871.23
1928-29	.0	60,673.34	34,171.42	12,600.00	109,500.00	1,500.00	19,800.00	8,000.00	6,000.00	252,244.76
1929-30	.0	72,808.00	40,114.28	12,600.00	109,500.00	1,500.00	19,800.00	8,000.00	6,000.00	270,322.28
1930-31	5.0	87,294.89	42,752.32	12,949.02	109,500.00	1,500.00	19,800.00	8,000.00	6,000.00	287,796.23
1931-32	7.5	90,340.06	44,243.68	13,400.73	109,500.00	1,500.00	0	8,000.00	6,000.00	272,984.47
1932-33	10.0	93,385.23	45,735.04	13,852.44	109,500.00	1,500.00	0	8,000.00	6,000.00	277,972.71
1933-34	12.5	96,430.40	47,226.40	14,304.15	109,500.00	1,500.00	0	8,000.00	6,000.00	282,960.95
1934-35	15.0	99,475.57	48,717.76	14,755.86	109,500.00	1,500.00	0	8,000.00	6,000.00	287,949.19
1935-36	17.5	102,520.74	50,209.12	15,207.57	109,500.00	1,500.00	0	8,000.00	6,000.00	292,937.43
1936-37	20.0	105,565.91	51,700.48	15,659.28	109,500.00	1,500.00	0	8,000.00	6,000.00	297,925.67
1937-38	22.5	108,611.08	53,191.84	16,110.99	109,500.00	1,500.00	0	8,000.00	6,000.00	302,913.91
1938-39	25.0	111,656.25	54,683.20	16,562.70	109,500.00	1,500.00	0	8,000.00	6,000.00	307,902.15
1939-40	27.5	114,701.42	56,174.56	17,014.41	109,500.00	1,500.00	0	8,000.00	6,000.00	312,890.39
1940-41	30.0	117,746.59	57,665.92	17,466.12	109,500.00	1,500.00	0	8,000.00	6,000.00	317,878.63

NOTE: From 1942 to 1955 inclusive total revenue is assumed to continue at the rate of \$317,878.63, although there is reason to anticipate increased revenues due to increased use of domestic water by the irrigation districts.

ESTIMATED REVENUE FROM SAN DIEGUITO WATER SYSTEM AS IT EXISTS.BASED UPON THE FOLLOWING ASSUMPTIONS:

1. Minimum payment according to existing contracts prior to the year ending September 30, 1931.
2. Payment for the year ending September 30, 1931, based upon use = average safe duty for irrigation districts with 5% classified as domestic use. Increasing domestic use by 2.5% for each year after 1931 up to a maximum of 30% domestic use in the year ending September 30, 1941.
3. Average use = 10050 ac. ft. per season for the irrigation districts = 95.6% of the 100% supply.
4. City of San Diego use = 3 m.g.d. at 10¢ per 1000 gallons.

Year ending June 30	Per Cent of Domestic use	<u>WATER REVENUE</u>				<u>PIPELINE RENTALS</u>				Grand Total Revenue
		Santa Fe Irrigation District	San Dieguito Irrigation District	Del Mar Water Light & Power Company	City of San Diego	Santa Fe Irrig. Dist. San Dieguito to Lockwood Mesa	City of San Diego Del Mar to La Jolla	Hunting Fishing and Boating Permits	Land Rentals	
1925-26	.0	24,269.34	16,342.64	6,300.00	109,500.00	1,500.00	19,800.00	6,000.00	6,000.00	189,712.18
1926-27	.0	36,404.00	22,285.70	8,820.00	109,500.00	1,500.00	19,800.00	8,000.00	6,000.00	212,309.70
1927-28	.0	48,538.67	28,228.56	11,304.00	109,500.00	1,500.00	19,800.00	8,000.00	6,000.00	232,871.23
1928-29	.0	60,673.34	34,171.42	12,600.00	109,500.00	1,500.00	19,800.00	8,000.00	6,000.00	252,244.76
1929-30	.0	72,808.00	40,114.28	12,600.00	109,500.00	1,500.00	19,800.00	8,000.00	6,000.00	270,322.28
1930-31	5.0	87,294.89	42,752.32	12,949.02	109,500.00	1,500.00	19,800.00	8,000.00	6,000.00	287,796.23
1931-32	7.5	90,340.06	44,243.68	13,400.73	109,500.00	1,500.00	0	8,000.00	6,000.00	272,984.47
1932-33	10.0	93,385.23	45,735.04	13,852.44	109,500.00	1,500.00	0	8,000.00	6,000.00	277,972.71
1933-34	12.5	96,430.40	47,226.40	14,304.15	109,500.00	1,500.00	0	8,000.00	6,000.00	282,960.95
1934-35	15.0	99,475.57	48,717.76	14,755.86	109,500.00	1,500.00	0	8,000.00	6,000.00	287,949.19
1935-36	17.5	102,520.74	50,209.12	15,207.57	109,500.00	1,500.00	0	8,000.00	6,000.00	292,937.43
1936-37	20.0	105,565.91	51,700.48	15,659.28	109,500.00	1,500.00	0	8,000.00	6,000.00	297,925.67
1937-38	22.5	108,611.08	53,191.84	16,110.99	109,500.00	1,500.00	0	8,000.00	6,000.00	302,913.91
1938-39	25.0	111,656.25	54,683.20	16,562.70	109,500.00	1,500.00	0	8,000.00	6,000.00	307,902.15
1939-40	27.5	114,701.42	56,174.56	17,014.41	109,500.00	1,500.00	0	8,000.00	6,000.00	312,890.39
1940-41	30.0	117,746.59	57,665.92	17,466.12	109,500.00	1,500.00	0	8,000.00	6,000.00	317,878.63

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Year ending June 30	Per Cent of Domestic use	<u>WATER REVENUE</u>				<u>PIPELINE RENTALS</u>				Grand Total Revenue
		Santa Fe Irrigation District	San Dieguito Irrigation District	Del Mar Water Light & Power Company	City of San Diego	Santa Fe Irrig. Dist. San Dieguito to Lockwood Mesa	City of San Diego Del Mar to La Jolla	Hunting Fishing and Boating Permits	Land Rentals	
1925-26	.0	24,269.34	16,342.84	6,300.00	109,500.00	1,500.00	19,800.00	6,000.00	6,000.00	189,712.18
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1927-28	.0	48,538.67	28,228.56	11,304.00	109,500.00	1,500.00	19,800.00	6,000.00	6,000.00	232,871.23
1928-29	.0	60,673.34	34,171.42	13,600.00	109,500.00	1,500.00	19,800.00	6,000.00	6,000.00	252,844.76
1929-30	.0	72,808.00	40,114.28	12,600.00	109,500.00	1,500.00	19,800.00	6,000.00	6,000.00	270,322.28
1930-31	5.0	87,294.89	42,752.32	12,949.02	109,500.00	1,500.00	19,800.00	6,000.00	6,000.00	287,796.23
1931-32	7.5	90,340.05	44,243.68	13,400.73	109,500.00	1,500.00	0	6,000.00	6,000.00	272,984.47
1932-33	10.0	93,385.23	45,735.04	13,852.44	109,500.00	1,500.00	0	6,000.00	6,000.00	277,972.71
1933-34	12.5	96,430.40	47,226.40	14,304.15	109,500.00	1,500.00	0	6,000.00	6,000.00	282,960.95
1934-35	15.0	99,475.57	48,717.76	14,755.86	109,500.00	1,500.00	0	6,000.00	6,000.00	287,949.19
1935-36	17.5	102,520.74	50,209.12	15,207.57	109,500.00	1,500.00	0	6,000.00	6,000.00	292,937.43
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1937-38	22.5	108,611.08	53,191.84	16,110.99	109,500.00	1,500.00	0	6,000.00	6,000.00	302,913.91
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Year ending June 30	<u>WATER REVENUE</u>					<u>PIPELINE RENTALS</u>				Grand Total Revenue
	Per Cent of Domestic use	Santa Fe Irrigation District	San Dieguito Irrigation District	Del Mar Water Light & Power Company	City of San Diego	Santa Fe Irrig. Dist. San Dieguito to Lockwood Mesa	City of San Diego Del Mar to La Jolla	Hunting Fishing and Boating Permits	Land Rentals	
1925-26	.0	24,269.34	16,342.84	6,300.00	109,500.00	1,500.00	19,800.00	6,000.00	6,000.00	189,712.18
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1930-31	5.0	87,294.89	42,752.32	12,949.02	109,500.00	1,500.00	19,800.00	8,000.00	6,000.00	287,796.23
1931-32	7.5	90,340.06	44,243.68	13,400.73	109,500.00	1,500.00	0	8,000.00	6,000.00	272,984.47
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1934-35	15.0	99,475.57	48,717.76	14,755.86	109,500.00	1,500.00	0	8,000.00	6,000.00	287,949.19
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1. Minimum payment according to existing contracts prior to the year ending September 30, 1931.
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Year ending June 30	Per Cent of Domestic use	WATER REVENUE				PIPELINE RENTALS			Land Rentals	Grand Total Revenue
		Santa Fe Irrigation District	San Dieguito Irrigation District	Del Mar Water Light & Power Company	City of San Diego	Santa Fe Irrig. Dist. San Dieguito to Lockwood Mesa	City of San Diego Del Mar to La Jolla	Hunting Fishing and Boating Permits		
1925-26	.0	24,259.34	16,542.84	6,500.00	109,500.00	1,500.00	19,800.00	6,000.00	6,000.00	189,712.18
1926-27	.0	36,404.00	22,285.70	8,820.00	109,500.00	1,500.00	19,800.00	6,000.00	6,000.00	212,509.70
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1930-31	5.0	87,294.89	42,752.32	12,949.02	109,500.00	1,500.00	19,800.00	6,000.00	6,000.00	287,796.23
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SAN DIEGO COUNTY WATER COMPANY  
 SAN DIEGUITO WATER COMPANY  
 Los Angeles, Calif.

April 20, 1925.

Mr. Paul C. Edwards, Editor,  
 San Diego Sun,  
 San Diego, California.

Dear Sir:-

You have asked me to furnish you with a general analysis of the water problem confronting the city of San Diego as I see it. It is fundamental in this connection that the entire Metropolitan District be considered. The Greater San Diego or Metropolitan Bay District should properly include the following municipalities and suburban districts:

TABLE 1.

1. City of San Diego (including East San Diego)
2. National City
3. Coronado
4. Chula Vista
5. Otay
6. San Ysidro (including all South Bay District)
7. Sunnyside
8. Bonita
9. Jawacha
10. Lemon Grove
11. Spring Valley
12. La Mesa
13. Grossmont
14. El Cajon
15. Santee
16. Lakeside
17. Grantville
18. El Monte
19. Foster

All these suburban districts are within the Metropolitan area and must be taken as a unit in so far as water supply is concerned.

Table "1-A" shows the past and probable future population of the Metropolitan area as outlined above, based upon Government and school census figures for the past, assuming that there will be a continuous increase of population during the next fifteen years. Future growth is calculated upon a 6% basis, although growth for the past five years has averaged 8%.

TABLE 1-A

<u>Year</u>	<u>Population</u>	<u>Year</u>	<u>Population</u>
1900	23,155	1921	109,500
01	22,400	22	118,000
02	22,000	23	126,700
03	23,000	24	137,000
04	24,200	25	144,800
05	27,700	26	153,000
06	31,800	27	161,500
07	37,000	28	170,500
08	42,200	29	180,000
09	47,200	1930	189,900
1910	50,847	31	200,000
11	58,500	32	212,000
12	70,500	33	222,100
13	79,000	34	238,000
14	82,500	35	252,000
15	84,700	36	267,000
16	85,000	37	283,000
17	86,500	38	299,500
18	87,500	39	318,000
19	92,300	40	336,000
1920	98,260		

You will notice that there was actual loss in population in the San Diego Metropolitan area during the period 1900-1903 which was undoubtedly due to the fact that the area was at this time passing through the most prolonged and critical drought of record in this section of the state. The failure of the local water supplies at this time caused a great decrease in property values in this section and undoubtedly was the direct cause of an actual loss in population. After the end of the drought in 1904 the area began to increase in population and has continued to do so ever since.

The San Diego Metropolitan District as outlined above used during the year 1923 an average of 28.6 million gallons of water per day. Table No. 2 shows the distribution of this use according to source of supply.

TABLE 2.

1. City of San Diego	- - - - -	12.2	m.g.d.
2. Sweetwater Water Co.	- - - - -	4.7	"
3. Guyamaca Water Co.	- - - - -	3.4	"
4. Private Pumping Plants	- - - - -	8.3	"
	Total	28.6	"

Table No. 3 shows the past and probable future daily use of water in the Metropolitan area based on the following assumptions:

1. That population increases at the rate of 6% per annum during the next 15 years.
2. That irrigation use remains constant.
3. That the increase in domestic water consumption is proportional to an increase in population based upon a domestic consumption of 120 gallons per capita. (Use during 1924 was at the rate of 127 gals. per capita, so that the estimate of total consumption is probably low.)

TABLE 3.

Year	Use m.g.d.
1916	23.1
1917	23.9
1918	25.8
1919	25.1
1920	25.9
1921	25.7
1922	25.5
1923	28.6
1924	29.7
1925	30.9
1926	32.2
1927	33.6
1928	35.1
1929	36.7
1930	38.5
1931	40.0
1932	42.4
1933	44.6
1934	47.0
1935	49.6
1936	52.4
1937	55.4
1938	58.7
1939	62.2
1940	65.9

It must be borne in mind that values quoted in Table 3 are based on the assumption that in the future an ample water supply is always available throughout the Metropolitan area so that development will not be retarded by an inadequate water supply.

The next step in analysis is to show what sources of supply are available to furnish this requirement. The subject naturally divides itself into two parts.

First - The developed or existing sources of supply.

Second - The available undeveloped sources of supply.

Table No. 4 contains data relative to the safe duty of the developed sources of supply.

TABLE 4.

1. Municipal System, City of San Diego.	
(a) Morena - - - - -	4.0 m.g.d.
(b) Barrett - - - - -	4.3 "
(c) Otay - - - - -	3.8 "
Total	<u>12.1</u> "
2. Cuyamaca Water Co.	3.1 "
3. Sweetwater Water Co.	3.0 "
4. Private Pumping Plants	8.3 "
Total	<u>26.5</u> "

The 2 m.g.d. supply from Lake Hodges is not considered as being only temporary under the terms of the present contract.

The present constructed system of the city of San Diego has practically fully developed the drainage basin of the Otay River and the portion of the Tiajuana River in the United States. There are other damsites on the Tiajuana River which lie wholly or partially below the Mexican line but it is obvious that they cannot be considered sources of additional water supply for the city of San Diego at this time.

It is a conceded fact that the Cuyamaca Water System is already obligated to furnish all of the water which it is possible to deliver from its constructed system and the effect of acquisition by the city of San Diego will be merely to end litigation about the water rights on the San Diego River, thus making practicable the future development of the river.

It is also conceded that the Sweetwater Water Co. is already obligated to deliver all the water it can safely supply and since character of use is now rapidly changing from irrigation to domestic, it is doubtful if any additional supply over and above present obligations can ever be obtained from this source. It is a recorded fact that the Sweetwater and Cuyamaca Reservoirs were both

dry during the critical seven year drought period of 1897 to 1904 and it was then necessary to reduce the water supply furnished by those systems to a fraction of the normal demand. Pumping plants were installed in the bed of the Sweetwater Reservoir and along the channel of the San Diego River in order to supplement the surface supply, but with these additions only a portion of the then required water was obtained and serious injury to property was suffered in the areas served by these systems. Many years of normal water supply were required to restore former values. It must be borne in mind that neither the Cuyamaca or Sweetwater systems have been materially increased in capacity since the great drought some twenty years ago and a recurrence of the drought conditions would tax those systems to the limit, considering increased acreage under irrigation. We are therefore justified in assuming that no additional water supply may be made available from either the Cuyamaca or Sweetwater systems. The same holds true of private pumping plants.

The scheme of obtaining additional water by the installation of pumping plants on the Lower Tiajuana River has been suggested as a source of future supply but the parties now relying upon this source have protested against increased pumping within the area and it is doubtful if there is any additional water suitable for domestic use available from the Tiajuana gravels.

This disposes of all sources of additional water supply available to the Metropolitan area south of the San Diego River. The city of San Diego has committed itself to the development of an additional supply from the San Diego River.

The present plan of development on the San Diego River contemplates a dam at El Capitan capable of impounding about 55,000 ac. ft. of water. Mr. John R. Freeman, in his report on the development of the river, dated May 16, 1924, has estimated that the additional water made available to the city of San Diego by the construction of such a dam at El Capitan was 5.7 m.g.d., less an estimated release of 1.7 m.g.d. to satisfy the riparian rights below the dam or a net supply to the city of San Diego of 4.0 m.g.d.

If additional storage is provided at El Capitan by the construction of a dam capable of impounding 134,000 ac. ft. of water and by the construction of a further dam capable of impounding 77,000 ac. ft. on San Vicente Creek, Mr. Freeman estimates that the ultimate development of the San Diego River will be accomplished and a total supply of 11.6 m.g.d. obtained, less an estimated release of 3.5 m.g.d. in order to satisfy the riparian rights below the dam, resulting in a net additional supply for the Metropolitan area of 8.1 m.g.d.

In Table 4 I have shown that the safe duty of the existing developed systems now serving the Metropolitan area including both public and privately controlled works, including all pumping plants, is 26.5 m.g.d. If we add to this the 4.0 m.g.d. additional supply to be made available by the construction of El Capitan Dam as projected by the present bond issue we have a total of 30.5 m.g.d. If we add to the present developed supply of 26.5 m.g.d. the ultimate additional supply available from the San Diego River of 8.1 m.g.d. it will make a total of 34.5 m.g.d. maximum supply available to the Metropolitan area from all sources within the drainage areas of the San Diego, Sweetwater, Otay and Tiajuana Rivers, including both surface and sub-surface supplies.

Referring back to Table 3 it becomes apparent that the use in the Metropolitan area exceeded the maximum safe duty of the present developed sources of supply of 26.5 m.g.d. in the year 1923, when the average use was 28.6 m.g.d. If the first projected development of the San Diego River were now completed and functioning with 100% capacity, the total safe duty of all available supplies for the Metropolitan area would be 30.5 m.g.d. The estimated use for the Metropolitan area for the year 1925 being 30.9 m.g.d. it is evident that the additional supply from the first unit of El Capitan will be absorbed before it is made available. In other words, the Metropolitan area is overdrawing its water resources to that extent at present.

When the ultimate development of the San Diego River is completed the total safe duty of the available supplies will be 34.5 m.g.d. and in table 3 it is shown that the use for the Metropolitan area will be 35.1 m.g.d. in 1928.

Although the ultimate development of the San Diego River is promptly undertaken by the construction of high dams at the El Capitan and San Vicente sites there is a considerable time that must be assumed to elapse after the completion of large storage reservoirs before they can be expected to function with full efficiency. It is evident therefore that the demand and use in the immediate future in the Metropolitan area is sure to be greater than the safe supply. The situation is serious from the financial and from every other standpoint.

You of course appreciate that a water supply may be drawn upon at a greater rate than the safe duty and during years of excessive rainfall there is no apparent danger; but when a drought period occurs the overdraft soon becomes apparent and the supply fails at the most critical time - similar to the failures of the Cuyamaca and Sweetwater systems during the critical period of 1897 - 1904. Taken as a whole, the San Diego Metropolitan area is now in the stage of serious overdraft on its water resources.

I have given you my analysis of the water problem confronting the San Diego Metropolitan area and I will now present what I believe to be the best solution of the problem.

The San Dieguito River or Santa Ysable Creek as it is called at its head waters, drains a large area lying immediately North of and adjacent to the drainage basin of the San Diego River. It has a tributary area of 306 sq. miles above Hodges dam consisting principally of high mountains similar to the Cuyamaca area, productive of good runoff due to the high rate of rainfall. For purposes of comparison, Table 5 has been prepared giving a comparison of some of the principal characteristics of the San Dieguito River, Hodges Dam and the San Diego River above El Capitan.

Table 5.

	San Dieguito River at Hodges	San Diego River at El Capitan
1. Drainage Basin Area - - - - -	306 sq.mi.	178 sq. mi.
2. Average Seasonal Runoff - - - - -	34,800 ac.ft.	25,900 ac.ft.
3. Economic Storage Capacity Available	192,500 " "	134,000 " "
4. Height of Dam Required	130 feet.	190 feet

This comparison shows that the water resources of the San Dieguito River above Hodges dam are considerably greater than the resources of the San Diego River at El Capitan.

The San Dieguito Water Company owns Lake Hodges and the San Dieguito reservoir, various canals and distributing reservoirs and also the Pamo and Sutherland reservoir sites. These properties are so located that they control the complete development of this stream. The Company owns large areas of water-bearing lands in the San Pasqual Valley near the upper end of Lake Hodges; also all the riparian rights upon the river necessary for the construction and operation of a reservoir of sufficient size to fully regulate the stream and deliver the ultimate safe duty available from its drainage basin.

The present storage capacity of Lake Hodges affords a water supply of 3 m.g.d. for domestic use and 10,500 ac. ft. per annum for irrigation use, the irrigation supply being subject to reduction during periods of drought. According to Mr. J. B. Lippincott, Hydraulic Engineer, the average delivery from this reservoir for irrigation purposes if operated throughout the past 30 years would have been 95.6% of the 100% supply. The 3 m.g.d. of domestic water would, of course, have been delivered continuously. The foregoing developed

water supply has been contracted to be sold to four consumers on the wholesale basis as follows:

Santa Fe Irrigation District	6500 ac.ft. per year
San Dieguito Irrigation District	3200 " " " "
Del Mar Water Light & Power Co.	724 " " " "
City of San Diego	2 m.g.d., with an option on an additional 1 m.g.d.

The contracts with the two irrigation districts and the Del Mar Water Light & Power Company provide for their takings of water to be gradually increased during a period of some five years with a fixed minimum payment each year.

Having these contracts in hand, with definite minima which must be paid, whether the water is used or not, it is possible to calculate with accuracy the future minimum income of the San Dieguito Water Company. Table No. 6 has been prepared, showing the company's yearly revenues, commencing with 1925 and running until 1941; thereafter it is arbitrarily assumed that there will be no increases although such is most unlikely to be the case. In further explanation of the table, it is assumed that San Diego City will continuously require 3 m.g.d. The item of land rentals of \$6,000 per year represents the present income from this source at the present rate of rentals. The hunting, fishing and boating permits are estimated at \$6,000 for 1925 and \$8,000 per year thereafter. Current revenues from this source are in excess of the lower figure, and with certain changes which have recently been effected it is believed that the income from this source will be considerably in excess of \$8,000 thereafter. The item of pipe line rentals refers to the rental paid by the city of San Diego for the use of the Del Mar-La Jolla Pipe Line and by the Santa Fe Irrigation District for the use of a certain conduit owned by the company.

I should call your attention to the fact that our contracts for the sale of irrigation water which provide for a price of 4 cents per 1,000 gals. wholesale, change to a rate of 10 cents per 1,000 gallons wholesale as the nature of the use changes from irrigation to domestic. In compiling table #5, increased income from the conversion of irrigation use to domestic use has been arbitrarily disregarded up to the year 1931 in order to be conservative. In 1931 it is assumed that 5% of the contracted water will take the domestic rate, and that there will be thereafter an increase in domestic use at the rate of 2 1/2% per year, so that by the year 1941 30% of the water now contracted to be furnished for irrigation will be used by domestic consumers and of course carry the domestic rate.

The history of similar areas in Southern California justifies the assumption that this water will be converted to domestic use at a much faster rate than this and to a far greater extent, which will have the effect of greatly increasing the revenues of the system. This probability has been disregarded, however, in the accompanying statement of Water Company revenues, in order to be conservative. In this connection it must be borne in mind that all of our water sales are on a wholesale basis out of the San Dieguito Reservoir or our main conduit and the Company is not in the water distribution business.

The conclusions of Mr. J. B. Lippincott as to the undeveloped water resources of the San Dieguito system are as follows:

A dam can be constructed at what has been called the super-Hodges site, which will impound some 190,000 ac. ft. of water and furnish a safe domestic supply (over and above the present 3 m.g.d. supply) of 9 m.g.d. When such new reservoir is constructed the city of San Diego can thus obtain from Lake Hodges 12 m.g.d. for domestic use besides enjoying the revenues from the sale of 10,500 ac. ft. of water to the people in the vicinity of Del Mar. The supply may be increased to the extent of an additional 2 m.g.d. by the acquisition of water rights in San Pasqual Valley now largely devoted to the irrigation of alfalfa; the total water supply from the San Dieguito system applicable to domestic use in the City of San Diego will then be 14 m.g.d.

Without entering into the details of construction costs, operating expenses, etc., it may be stated as the result of careful study that water from the proposed super-Hodges reservoir can be delivered to University Heights reservoir for a cost of not to exceed  $7\frac{1}{2}$  cents per 1,000 gals. This estimate takes into account all pumping and maintenance charges as well as financial expenses.

Now as to the acquisition of this system by the city of San Diego, I believe a plan can be worked out which would provide for the purchase of the San Dieguito System by the city of San Diego on the following basis:

Initial payment of \$500,000 would be made and thereafter annual payments as follows; \$175,000 the first year; \$185,000 the second year, and so on increasing at the rate of \$10,000 per year until the eighth year when the annual payment would have reached the sum of \$255,000. Payments thereafter would continue at the rate of approximately \$255,000 per year to the end of the 30 year period, when the city would have completed the purchase of the system. (All payments to be made in monthly installments.)

The theory of the annual payments is that they would represent interest and amortization requirements upon the purchase price of the property. The city would have the option of taking the property over at any time before the expiration of the 30 year period at the agreed purchase price, receiving credit of course for all accruals on principal up to the time of the exercise of the option.

An arrangement such as the one suggested would of course involve a sacrifice on the part of the interests which I represent not only of future value, but of values already established. This sacrifice might be warranted on behalf of Mr. Henshaw's heirs by the advantages of a stable contract with a municipality of the standing and credit of San Diego, providing the same can be entered into without delay.

In my opinion this presents a unique opportunity for the city since a property essential to its growth may be acquired on a basis whereby it actually pays for itself. I am attaching a map of San Diego County which shows the location of the several water development projects referred to herein.

Yours truly,

JOHN TREANOR.

JT-ES



CUYAMACA WATER CO.  
A CORPORATION

CASH REPORT

July 15, 1926.

Balance on hand and in Banks July 1, 1926.....	\$ 5064.90	
Cash Received up to " 15, " .....	8653.48	
		<u>13718.38</u>
Vouchers paid " " " " " \$ 8598.34		
Pay Roll " " " " " 833.55		9431.89
		<u>\$ 4286.49</u>
Cash on hand in office July 15, 1926	\$ 175.00	
Vouchers " " " " " 157.72		
Cash in Banks " " " " " 3953.77		
	<u>\$ 4286.49</u>	<u>\$ 4286.49</u>

Sales for month of June 1926	\$ 10,306.08	
Rebates " " " " "	566.65	
Net Bills Receivable " "	<u>9,739.43</u>	
Bills Received to July 15th	<u>8,653.48</u>	
Bills due July 15, 1926.	\$ 1,085.95	<u>1085.95</u>
		<u>\$ 5322.44</u>

CUYAMACA WATER COMPANY.

CASH REPORT

July 16, 1926.

Balance in First National Bank of Los Angeles.....	\$ 1,478.21	
" " " " " " San Diego.....	1,016.28	
		<u>2,494.49</u>
	Total	<u>2,494.49</u>
Vouchers paid up to July 17, 1926.....		123.42
Balance in Banks up to July 17, 1926.....	\$ 2,371.07	

CASH REPORT

CUYAMACA WATER COMPANY

August 1, 1926.

Balance in Los Angeles Bank July 31, 1926	1,478.21
" " San Diego " " "	1,016.28
Cash received from July 16th to July 31, 1926	3,287.37
	<hr/>
	5,781.86
Vouchers paid in July 1926 (19 L.J.)	123.42
	<hr/>
Balance in Banks July 31, 1926.....	\$ 5,658.44
Rebates on Services (Payable )	\$ 780.94
	780.94
	<hr/>
Available Cash to date.....	\$ 4,877.50

6-1500-108/ 1019.770  
200-

11. 1/2

The amount of 172.00  
is due to the company  
on 8/1/26 - 10/1/26

CASH REPORT  
CUYAMACA WATER COMPANY

August 14, 1926.

Balance of Cash in the Bank at Los Angeles	\$ 1,478.21
" " " " " " San Diego	4,180.23
	<hr/>
	5,658.44
Accounts Receivable:	
Water Sales from January 15th to February 1st 1926.	1,535.30
Notes Receivable:	
Rose Hess.....	\$ 519.79
F. O. Schroeder.....	500.00
	<hr/>
	1,019.79
Cash Assets as shown on the Books.....	\$ 8,213.53

Mr. Fletcher:

Books Show as follows:

Accounts Receivable:	
Cuyamaca Water Co., Corp.	\$ 915.26
Accounts Payable:	
Vouchers	3,483.45
Service Rebates	780.94
Consumers Deposits	338.77
	<hr/>
	\$ 3,603.16

CASH REPORT  
 CUYAMACA WATER COMPANY  
 August 19, 1926.

CASH REPORT  
 CUYAMACA WATER COMPANY  
 A CORPORATION  
 August 1, 1926.

Cash Balance in Los Angeles Bank.....	\$ 1,478.21	
" " " San Diego " .....	4,180.23	
	5,658.44	

Check to Cuyamaca Water Co., Corp.,	\$ 1,080.00	
" " Ed. Fletcher { L. A. Bank }	1,478.21	
" " " " { S. D. " }	3,100.23	
	\$ 5,658.44	\$ 5,658.44

Mr. Fletcher:

This closes the Cash Account of the old Cuyamaca Water Company.

The Books of the old company are now ready to close.

*Voucher 133 - 1535.30*

Cash balance in Banks & Office - July 31, 1926	13,718.38	
Cash Received up to " " "	1,684.10	
	15,402.48	
Vouchers Payable up to July 31, 1926	10,023.05	
Pay Roll " " " " 1, 1926	2,037.55	12,060.60
	3,341.88	
Cash on Hand and in Bank July 31, 1926 .....	\$ 3,341.88	

Estimated Accounts Payable

Estimate of Sales to July 31, 1926 ,	10,000.00	
" " Rebates " " "	600.00	9,400.00
	12,741.88	
Estimate of Accounts Payable	8,085.91	
" " Pay Roll to July 31, 1926	1,100.00	9,185.91
	3,555.97	
Estimated Cash on hand July 31, 1926.....	\$ 3,555.97	

CASH REPORT  
 CUYAMACA WATER COMPANY  
 August 14, 1926.

CUYAMACA WATER CO.  
 A CORPORATION

Cash Balance August 1, 1926		\$ 3,341.88
Cash Received up to August 15, 1926		9,134.60
		12,466.48
Vouchers paid up to August 15, 1926	\$ 8,883.21	
Pay Roll " " " " 1, "	809.00	9,692.21
Cash on hand August 14, 1926.....		\$ 2,774.27

Cash Summary

Cash in Banks	3,556.72
" " Office	165.00
Vouchers	52.55
Proof.....	\$ 2,774.27

Water Sales for the month of July, 1926.	\$ 10,536.60
Rebates on Meters	617.53
	9,919.07
Cash received on Water Statements	8,452.94
New Water Bills Due.....	\$ 1,466.13

*Miss Mary  
 file each  
 month*

CUYAMACA WATER CO.  
 A CORPORATION

Cash Report  
 September 1, 1926.

Cash on Hand August 1, 1926		3,341.88
" " Received during the month of August, 1926.		12,097.89
		15,439.77
Vouchers paid up to September 1, 1926	10,545.01	
Pay Roll for the month of August "	995.00	11,540.01
Cash on hand September 1, 1926		\$ 3,899.76

Summary

Cash in Banks	3,654.20
" " Draw	176.09
Vouchers	69.47
	3,899.76

Estimated Report

Water Sales for the month of September	10,000.00
R. R. Commission refunds	600.00
	9,400.00
Accounts Payable	8,000.00
Pay Roll	1,100.00
	300.00
Revenue from fishing & boating	300.00
	600.00

*may  
 7 p. 600*

CUYAMACA WATER COMPANY, CORP.

Cash Report.

September 14, 1926.

*File*

Cash on hand August 31, 1926		\$ 3,899.76
Cash received up to September 15, 1926.		8,477.89
		<u>12,377.65</u>
<b>Accounts Receivable:</b>		
Consumers	\$ 1,909.89	
B. Carteri	998.64	2,908.53
		<u>15,285.98</u>
Vouchers paid up to Sept. 15, 1926	7,498.63	
Pay Roll " " " " " "	952.50	8,451.13
Available Cash September 15, 1926.....		\$ 6,834.85

SUMMARY

Cash in Banks	\$ 3,757.30
Cash on Hand	169.03
Accounts Receivable	2,908.53
	<u>\$ 6,834.85</u>

CUYAMACA WATER COMPANY, CORP.

Cash Report.

October 1, 1926.

Cash on Hand and in Banks September 1, 1926.		\$ 3,899.76
Cash received during the month of September 1926.		11,437.87
		<u>15,337.63</u>
Vouchers paid during the month of September 1926	\$8,545.03	
Pay Roll " " " " " "	1,376.50	9,921.53
		<u>\$ 5,416.10</u>
<b>Accounts Receivable:</b>		
B. J. Carteri		2,005.14
Available Cash.....		<u>\$ 7,421.24</u>

Summary

Cash in Banks	5,209.28
" " Draw	141.82
Vouchers	65.00
Acct. Rec'able	2,005.14
	<u>\$ 7,421.24</u>

Cuyamaca Water Corp.

(Memo)

July 13, 1926.

New additions to systems Dec. 1, 1925 to date:

1422 Ft. 6 in Cast Iron Pipe @ 1.75 \$ 2,488.50

~~25 " 3 " " " " " @~~

110 " 2 1/2 " Std. screw " @ .64 70.40

375 " 2 " " " " " @ .46 172.50

248 3/4 in Services @ 12.70 3149.60

4 1 " " " " " @ 15.00 60.00

1 1 1/2 " " " " " " @ 15.00 15.00

1 2 " " " " " " @ 20.00 20.00

1 3 " " " " " " @ 25.00 25.00

248 5/8 x 3/4 in meters @ 10.00 2480.00

4 3/4 " " " " " " @ 15.00 60.00

1 1 " " " " " " @ 22.00 22.00

2 2 " " " " " " @ 60.00 120.00

\$ 8683.00

H. L. Hudson

CUYAMACA WATER COMPANY

CASH STATEMENT

December 30, 1926.

Conf

Cash on hand December 1, 1926. 2,908.67  
Cash Received up to December 30th, 1926. 868.91

3,777.58

Bills receivable 165.73

3,943.31

Vouchers paid up to December 30th, 1926 1,876.15  
Pay Roll 735.00

2,611.15

1,332.16

Cash in Banks 1,166.43  
Accts. Rec'd 165.73

1,332.16

OPERATING DEPARTMENT  
BUREAU OF ENGINEERING  
CITY OF SAN DIEGO, CAL

Water Distribution System, value: \$ 6,576,657

	Annual Charge	
Depreciation,	\$ 74,974	
Interest,	328,833	
Maintenance and operation,	<u>366,192</u>	\$ 769,999

Water Impounding System, value: 13,575,548

Depreciation,	93,551	
Interest,	678,777	
Maintenance and operation,	<u>157,280</u>	929,608
Total value, Distributing and Impounding		<u>\$ 20,152,205</u>

Cost per 1000 gallons in cents:

	Impounding	Distributing	Total
Depreciation,	1.63	1.39	3.02
Interest,	11.81	6.08	17.89
Maintenance & operation	<u>2.74</u>	<u>6.76</u>	<u>9.50</u>
	16.18	14.23	30.41
Not including depreciation:	14.55	12.84	27.39

From the above compilation, any combination can be made as to the cost of water, on various theories, as to depreciation and interest charges.

D. L. Bissell,  
Assistant Engineer.

Approved:

R. M. Gregory,  
Manager of Operations.

6/5/31

SYNOPSIS OF PROPOSED RATES

Department of Water, City of San Diego.

	Proposal No. 3.	Proposal No. 5.	Proposal No. 6.
400 c. f.	\$ 1.00	\$ 1.00	\$ 1.00
300 c. f.	2.26	2.30	2.08
1000 c. f.	10.65	10.10	18.6¢
5000 c. f.	19.66	18.35	18.3¢
10000 c. f.	34.66	12.10	17.1¢
20000 c. f.	70.66	64.10	16.4¢
50000 c. f.	250.66	229.10	16.1¢
200000 c. f.	3,004.66	2,609.10	16.1¢
2500000 c. f.			4,002.28
400 c. f.	@ 25¢	@ 33 1/3¢	@ 20.8¢
300 c. f.	@ 100 c. f.	@ 100 c. f.	@ 100 c. f.
1000 c. f.	@ 22.6¢	@ 23¢	@ 18.6¢
5000 c. f.	@ 21.3¢	@ 20¢	@ 18.6¢
10000 c. f.	@ 19.7¢	@ 18.4¢	@ 18.3¢
20000 c. f.	@ 17.35¢	@ 16¢	@ 17.1¢
50000 c. f.	@ 14.13¢	@ 12.8¢	@ 16.4¢
200000 c. f.	@ 12.53¢	@ 11.45¢	@ 16.1¢
2500000 c. f.	@ 12.02¢	@ 10.44¢	@ 16.1¢

Any of the proposals will produce approximately the same return per year as under existing rates - of flat charge of 20 ¢ per 100 c. f.

Rates shown do not agree with rates shown for the different blocks for the reason consumption charge is calculated through the blocks, as shown on itemized use.

Approved:

R. M. Gregory,  
Manager of Operations.

6/5/31

D. L. Bissell,  
Assistant Engineer.

PROPOSAL NUMBER 3.

The following proposal is based on progressive rates as follows:

Minimum charge, \$ 1.00 per month.

First 400 c. f. @ \$ .25 per 100 c. f.

Next 4,600 c. f. @ \$ .21 per 100 c. f.

Next 5,000 c. f. @ \$ .18 per 100 c. f.

Next 10,000 c. f. @ \$ .15 per 100 c. f.

All over 20,000 c. f. @ \$ .12 per 100 c. f.

The revenue produced by these rates, based on present average monthly consumption, would be as follows:

No. of meters	Average Consumption	Total Consumption	Average cost per 100 c.f.	Receipts
21100	375 c. f.	7,912,500 c.f.	\$ .267	\$ 21,126
16505	1560 c. f.	25,747,800 c.f.	.220	56,645
218	6348 c. f.	1,383,700 c.f.	.206	2,850
192	15000 c. f.	2,880,000 c.f.	.181	5,213
215	82214 c. f.	<u>17,676,000</u> c.f.	.134	<u>23,686</u>
Total per month,		55,600,000 c.f.	\$	109,520
Total per year,		667,200,000 c.f.	\$	1,314,240

Existing rate of \$ .20 per 100 c. f. applied to present consumption of 5,000 million gallons per year produces \$ 1,333,500. \$ 1,333,500

Proposed rate applied to same consumption would produce a revenue of  $12 \times \$ 109,520 =$  1,314,240

A loss of: 19,260

A 5/8 inch meter, using up to 400 c. f.

400 c. f. month @ \$ .25, \$ 1.00

Using up to 1,000 c. f.:

400 c. f. @ \$ .25, 1.00

600 c. f. @ \$ .21, 1.26

\$ 2.26

Pays under existing rates, \$ 2.00

The average 2 inch meter using 20,000 c.f. month would pay:

400 c. f. @ \$ .25,	\$ 1.00
4600 c. f. @ \$ .21,	9.66
5000 c. f. @ \$ .18,	9.00
10000 c. f. @ \$ .15,	<u>15.00</u>
	\$ 34.66

Equal to an average rate of \$ .1733 per 100 c. f.

A use of 50,000 c. f. month would pay:

400 c. f. @ \$ .25,	\$ 1.00
4600 c. f. @ .21,	9.66
5000 c. f. @ .18,	9.00
10000 c. f. @ .15,	15.00
30000 c. f. @ .12,	<u>36.00</u>
	\$ 70.66

Equal to an average rate of \$ .1413 per 100 c. f.

A use of 200,000 c. f. month would pay:

400 c. f. @ \$ .25,	\$ 1.00
4600 c. f. @ .21,	9.66
5000 c. f. @ .18,	9.00
10000 c. f. @ .15,	15.00
180000 c. f. @ .12,	<u>216.00</u>
	\$ 250.66

Equal to an average rate of \$ .1253 per 100 c. f.

A use of 2.5 million c. f. month would pay:

400 c. f. @ \$ .25,	\$ 1.00
4600 c. f. @ .21,	9.66
5000 c. f. @ .18,	9.00
10000 c. f. @ .15,	15.00
2480000 c. f. @ .12,	<u>2,976.00</u>
	\$ 3,004.66

Equal to an average rate of \$ .1202 per 100 c. f.



PROPOSAL NO. 5.

Meters	No.	Service charge per month	Receipts
5/8 inch	35960	\$ .40	\$ 14,384
3/4 inch	320	1.00	320
1 inch	1000	1.25	1,250
1 1/2 inch	310	2.00	620
2 inch	560	3.00	1,680
3 inch and over	80	5.00	<u>400</u>
			\$ 18,654
			\$ 223,848 per year

Minimum charge \$1.00 per month

First 500 c.f. at \$ .20 per 100 c.f.

Next 4500 c.f. at \$ .18 per 100 c.f.

Next 5000 c.f. at \$ .16 per 100 c.f.

Next 10000 c.f. at \$ .12 per 100 c.f.

All over 20000 c.f. at \$ .10 per 100 c.f.

The revenue produced by these rates based on present average

consumption, would be as follows:

No. of Meters	Average Consumption c.f.	Total C.F.	Average 100 c.f.	Total Receipts
21100	375	7,912,500	\$ .20	\$ 15,825
16505	1560	25,747,800	.187	48,150
218	6348	1,383,700	.177	2,450
192	15000	2,880,000	.154	4,440
215	82214	17,676,000	.111	<u>19,620</u>
			Per month	\$ 90,485
			Per year	1,085,820
			Service charges	<u>223,848</u>
				1,309,668
			Existing rates produce,	\$ <u>1,333,500</u>
			A loss of	\$ 23,832

It is probable, however, that due to reduced rates, large consumers will use more water, and receipts might be above present receipts.

The average 5/8" meter will pay:

300 c.f. month at \$ .20,	\$ .60
Service charge,	<u>.40</u>
	\$ 1.00

1000 c.f. month user:

500 c.f. month at \$ .20,	\$ 1.00
500 c.f. month at .18,	.90
Service charge,	<u>.40</u>
	\$ 2.30

\$ .30 above existing rates.

The average 2 inch meter using 20,000 c.f. month would pay:

500 c.f. at \$ .20,	\$ 1.00
4500 c.f. at .18,	8.10
5000 c.f. at .16,	8.00
10000 c.f. at .12,	12.00
Service charge	<u>3.00</u>
	\$ 32.10

Equal to an average rate of \$ .16 per 100 c.f.

The meter using 50,000 c.f. month would pay:

500 c.f. at \$ .20,	\$ 1.00
4500 c.f. at .18,	8.10
5000 c.f. at .16,	8.00
10000 c.f. at .12,	12.00
30000 c.f. at .10,	30.00
Service charge,	<u>5.00</u>
	\$ 64.10

Equal to an average rate of \$ .128 per 100 c.f.

The meters using 200,000 c.f. month would pay:

500 c.f. at \$ .20,	\$ 1.00
4500 c.f. at .18,	8.10
5000 c.f. at .16	8.00
10000 c.f. at .12	12.00
180000 c.f. at .10	180.00
Service charge	<u>20.00</u>
	\$ 229.10

Equal to an average rate of \$ .1145 per 100 c.f.

On meters using 2.5 million c.f. per month, would pay:

500 c.f. at \$ .20,	\$ 1.00
4500 c.f. at .18,	8.10
5000 c.f. at .16,	8.00
10000 c.f. at .12,	12.00
2480000 c.f. at .10,	2,480.00
Service charge	<u>100.00</u>
	\$ 2,609.10

Equal to an average rate of \$ .1044 per 100 c.f.

PROPOSAL NO. 6

Minimum charge, \$1.00 per month

First 400 c.f. at \$ .25 per 100 c.f.

Next 9600 c.f. at .18 per 100 c.f.

Over 10000 c.f. at .16 per 100 c.f.

Revenue produced by these rates based on present average consumption, would be as follows:

No. of Meters	Average Consumption	Total Consumption	Average cost 100 c.f.	Receipts
21100	375	7,912,500 c.f.	\$ .267	\$ 21,100
16505	1560	25,747,800 c.f.	.197	50,800
218	6348	1,383,700 c.f.	.184	2,540
192	15000	2,880,000 c.f.	.175	5,050
215	82214	17,676,000 c.f.	.162	<u>28,800</u>
			Per month,	\$ 108,290
			Per year,	1,299,480
		Existing rates produce		<u>1,333,500</u>
		A loss of		\$ 34,020

Use of 1000 c.f. month:

400 c.f. at \$ .25, \$1.00

600 c.f. at .18, 1.08

\$ 2.08 equal to flat rate of \$.208

Use of 5000 c.f. month:

400 c.f. at \$ .25, \$ 1.00

4600 c.f. at .18, 8.28

\$ 9.28 equal to flat rate of \$.186

Use of 10000 c.f. month:

400 c.f. at \$ .25 \$ 1.00

9600 c.f. at .18 17.28

\$ 18.28 equal to flat rate of \$.183

Use of 200000 c.f. month:

400 c.f. at \$ .25, 1.00

9600 c.f. at .18, 17.28

190000 c.f. at .16 304.00

\$ 322.28 equal to flat rate of \$.161

FINANCIAL STATISTICS

CITY OF SAN DIEGO

Budget for the Fiscal Year ending June 30, 1931.

1. Mayors Office,	\$ 3,990
2. Common Council,	3,663
3. Planning Commission,	11,070
4. General Administration, Charter officers, insurance, rentals, taxes on Water System,	180,427
5. Advertising,	8,500
6. Auditor's Office,	22,905
7. City Clerk,	12,470
8. City Treasurer,	39,880
9. Civil Service,	11,040
10. Elections,	25,832
11. Fire Department	522,713
12. Legal	29,890
13. Police	505,215
14. City Pound	5,700
15. Public Health	105,320
16. City Justice	12,320
17. Purchasing Department	30,080

TOTAL \$ 1,531,015

Not including the Operating Department

RECEIPTS:

Franchises, etc.	\$225,585
Auditor's Office	14,200
City Clerk	500
City Justice	44,000
Sheriff	3,300
Purchasing Department	22,000
Public Health	20,775
	<u>330,360</u>

NET TOTAL \$ 1,200,655

Estimated receipts at \$ .90 rate \$ 1,298,189

The four items alone, General Administration (4), \$ 180,427; Fire Department (11) \$ 522,713; Police Department (13) \$ 505,215, and Public Health, (15) \$ 105,320, with a total expense of \$ 1,313,675 amount to more than the total return from the 90 cent general tax rate.

Operating Department:

1. General office, administration,	\$ 31,080
2. General office, water department,	49,106
3. Yards and buildings,	3,385
4. Stables,	6,088
5. Shops, 20th & B Sts.,	39,054
6. Engineering Bureau,	33,000
7. Inspection, building, electric, etc.,	36,180
8. Public buildings; janitors, etc.,	15,704
9. Comfort Stations,	4,603
10. Motor shop, water,	5,388
11. Water, maintenance and operating, Distribution system,	56,023
12. Tool Room,	1,560
13. Pumping Plants,	10,344
14. Street Department, general,	11,950
15. Unpaved streets, upkeep,	92,233
16. Street sprinkling,	9,276
17. Paved streets,	25,938
18. Street sweeping,	51,216
19. Street name painting,	1,560
20. Sewer, maintenance and operating,	27,151
21. Garbage collection,	59,706
22. Rubbish collection,	80,607
23. Electric street lights,	148,609
24. Office supplies, telephone, etc.,	17,625
25. Materials and supplies, shops, and various,	32,250
26. Hay and grain,	11,000
27. Gas, oil, tires, etc.,	70,000
28. Rubbish disposal,	28,000
29. Auto allowances,	11,040
30. Cleaning beaches,	3,000

Total, \$ 972,676

Water Development Department, maintenance and operation, 275,370

Total, Operating Dept., & Water Development, \$ 1,248,046

Total estimated receipts, water sales, \$ 1,360,000

Sir:

Herewith is valuation and cost of operation, Water Impounding System, City of San Diego, divided into three main divisions, viz:

1. Morena-Barrett-Otay Division.
2. San Diego River Division.
3. San Dieguito Division.

For the Morena-Barrett-Otay Division valuation figures are practically final. Some changes possibly may be made in regard to minor items after further investigation, but the major items, dams, conduits, etc., have been completed.

Valuations for the San Diego River Division are tentative, but will probably change little, if at all.

Valuations of the San Dieguito Division have not been made, values used herewith are simply the amount agreed to be paid by the City for the entire system. To arrive at a fair cost for water, there has been deducted from the \$ 3,750,000 price the sum of \$ 500,000-probable value of lands, dam sites, etc., not used or useful at present in the production of water.

All the valuations in my opinion are a fair value at the present time.

Cost of operations have been taken from the Auditor's Report, Fiscal year 1929-30. Allocation to the various divisions have been made upon what is believed to be a fair basis, from information contained in the Auditor's Report, from the Supervisor of the Impounding System and from the Accounting Division of the Impounding System. To the totals have been added 10 % to cover legal, administration and accounting, which is believed to be conservative.

The costs of water per 1000 gallons has been determined from the total annual charges as shown and the amount of water

3.

produced by each division, taken from the annual report of the Statistician of the distributing bureau.

During the months of March and August, 1930, a check was made of the totals of all water readings as compared to the amounts measured from the sources of the three divisions. These checks showed that there was, on the average, a loss of approximately 8 % from source to ultimate consumer; therefore there has been deducted from the gross 8 % to arrive at the net amount delivered to the consumer.

Production, 1929-30:

Morena-Barrett-Otay Division	4,353.0 mill. gals.
San Diego River Division,	947.3 mill. gals.
San Dieguito Division,	<u>947.2 mill. gals.</u>
	6,247.5 mill. gals.
Transmission losses,	<u>499.8 mill. gals.</u>
Net	5,747.7 mill. gals.

There is also attached hereto an analysis of the costs of water through the distributing system, on the same basis as for the impounding system-that is, taking into account depreciation, interest, maintenance and operating charges.

Taken together, water costs to deliver to the consumer as follows:

Impounding and transmission,	16.18 cents per 1000 g.
Distribution,	<u>14.83 cents per 1000 g.</u>
	30.41 cents per 1000 g.

Respectfully submitted,

D. L. Hissell,  
Assistant Engineer.

San Diego, Cal.  
Jan. 15, 1931.

To F. M. Lockwood,  
Manager of Operations.

COST OF OPERATION - WATER IMPOUNDING SYSTEM.

Fiscal year 1929-30.

	New Devel.	Morena Otay	San Diego	San Dieguito	Total
Hydraulic Engineer,	\$7000	\$1000	\$1000	\$1000	\$10000
Rent of Pacific Bldg.,	960	672	144	144	1920
Earthquake insurance-Hodges,				3600	3600
State & County Taxes,		16076	1770	12334	30180
State Compensation Ins.,	810	1285	307	392	2794
General insurance,		1302	217	218	1737
Salaries & wages,	44727	70947	16966	21593	154233
Stationery & office supplies,	2000	445	95	96	2636
Tel. & Tel.,	300	1399	300	300	2299
Gas & Elec.,	600	885	190	169	1864
Electric power for pumping,		4500	15500	20308	40308
Auto allowances,	620				620
Traveling expenses,	732				732
Advertising,	18				18
Fuel for heating offices,	160				160
Gen. upkeep, material & repairs,		30950	6610	6611	44071
Auto upkeep & repairs,		5913	839	838	5590
Gasoline & oil,		3423	734	733	4890
Tires and tubes,		1530	328	328	2186
Hot cost of mess at camp,	392				392
Special repairs & betterments,					
Filter plants-conduits					
Pipe lines-hydro.wk., etc,		23100	4950	4950	33000
	56319	161327	49950	73634	343230
Administ., Legal, Book., 10 %,	5832	16133	4995	7363	34323
	\$ 64151	177460	54945	80997	377553

1914 = operations valuation  
Report  
R. B. - decision

MORENA-BARRETT-OTAY SYSTEM

Dams:

Depreciation

Annual  
Total  
Depreciation

Morena	\$ 1,526,754		
Barrett	1,855,606		
Lower Otay	827,391		
Upper Otay	67,073		
Chollas	66,958		
	<u>4,543,782</u> ✓		
Dalsura Conduit	744,867	1 %	\$ 7,449
Otay Filter	195,565	2 %	3,911
Pipe lines:			
Chollas to Lantana	39,350		
Lower Otay to Chollas	106,000		
Bonita	172,455		
Lantana to U. H.	166,165		
Otay to U. H.	1,262,203		
	<u>1,745,073</u> ✓	2 %	34,901
Buildings & Improvements:			
Morena	10,694		
Barrett	6,320		
Otay	10,540		
Dalsura	1,470		
	<u>29,024</u> ✓	2 1/2 %	726
Machinery & equipment:			
Morena	1,247		
Barrett	6,410		
Otay	2,167		
Chollas	4,722		
	<u>14,546</u>	5 %	1,228
Roads:			
Barrett	27,264		
Trucks and Autos	5,600	15 %	840
General Office equipment	1,193	5 %	60
Recreation equipment	8,984	5 %	448
Lands	<u>1,522,125</u> ✓		
	8,504,019	Total depreciation,	49,563
		Interest 5 %,	425,201
Annual cost of operation	177,460		<u>177,460</u>
			631,234
			<u>808,694</u>
			23,966
			<u>832,660</u>
4,555 mill. gallons			
548.3 mill. gallons loss-3%			
4,006.7 net production	686,258.0		
	<u>4,006,600.0</u>	= 15.64 cents per 1000 gals.	

SAN DIEGO SYSTEM

	Depreciation	Annual Total Depreciation
<b>Pumping plants:</b>		
Lakeside and Riverview \$	57,166	
Mission Valley plant	<u>29,900</u>	
	87,066	5% \$ 4,353
<b>Filter Plants:</b>		
University Hts.,	59,295	5% 2,965
<b>Pipe Lines:</b>		
Lakeside to University Hts.,	1,330,871	2% 27,017
Trucks and Autos	465	15% 70
General office equipment	256	5% 13
		<u>54,418</u>
<b>Land:</b>		
Lakeside and Riverview	94,200	
Mission Valley	<u>51,750</u>	
	145,950	
Annual cost of operation,	1,645,901	Interest, 5% 82,195
	54,945	<u>54,945</u>
		171,558
947.3 M. G.		
<u>75.8</u> M. G. Loss-3%		
871.5 net production		
	<u>171,558</u>	19.69 cents per 1000 gallons.
	871,500,000	

SAN DIEGUITO SYSTEM

	Depreciation	Annual Total Depreciation
<b>San Dieguito System:</b>		
Cost, \$	3,750,000	
Used in production of water, \$	3,250,000	
Deprec. on \$ 1,250,000,		1/2 of 1% \$ 6,250
<b>Filter Plant:</b>		
Torrey Pines	51,524	2% 1,230
Torrey Pines Reservoir	29,970	1% 300
<b>Pipe Line:</b>		
Del Mar to Torrey Pines	85,419	2% 1,708
General office equipment,	255	5% 13
Autos and trucks,	<u>460</u>	15% 69
	3,427,628	9,570
Interest on \$ 3,427,628 @ 5%,		171,581
Annual cost of operation,	80,997	<u>80,997</u>
Water sales and recreation receipts,		<u>251,928</u>
		<u>150,156</u>
		\$ 151,792
947.2 M. G.		
<u>75.8</u> M. G. Loss		
871.4 net production	<u>151,792</u>	15.12 cents per 1000 gallons.
	871,400,000	

WATER DISTRIBUTING SYSTEM.  
CITY OF SAN DIEGO  
FISCAL YEAR 1929-30.

Value	\$ 6,576,657	Annual charge
	Depreciation, @ 1.14 %	\$ 74,974
	Interest @ 5.00 %	328,833
	Maintenance and operation,	566,192
		\$ 769,999

Net consumption, City of San Diego, including Parks and other City Departments.

5,410,700,000 gallons.

Costs per 1000 gallons:		
For depreciation		1.39 cents.
For interest		6.08 cents.
For maintenance and operation,		6.76 cents.
Total,		14.23 cents.

Average number of meters in service,	38,100
Average population,	152,400

Consumption per meter per year,	142,000 gallons.
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Consumption per capita per day,	97 gallons.
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Consumption excluding parks and other City Departments 4,999,700,000 gallons.

Consumption per meter per year	151,000 gallons.
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Consumption per capita per day	90 gallons.
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TOTAL TAPPING SYSTEM

	Appraised Value	Annual Depreciation	Interest, 5 %	Annual Op. Cost	Annual Charge	Deductible Receipts	Net Annual Charge
Morena-Barrett-Otay	8,504,019	49,563	425,201	177,460	652,224	25,966	626,258
San Diego	1,643,901	34,418	82,195	54,945	171,558		171,558
San Diego Co	3,427,628	9,570	171,381	80,997	261,948	130,156	131,792
	\$ 13,575,548	93,551	678,777	313,402	1,085,730	156,122	929,608

Total water, 6,247.5 M. G.  
Loss, \$ 4

199.8 M. G.  
5,747.7 M. G. net production

~~929,608~~  
5,747,000 = 16.176 cents per 1000 gallons.

MAINTENANCE AND COST OF OPERATION

WATER DISTRIBUTING SYSTEM

Fiscal year 1929-30.

Meter shop,	\$ 5,374
Maintenance and operation,	85,004
Reservoir and stand pipes,	1,930
Tool room,	2,645
Pumping plants,	8,969
Electric power,	29,158
Transportation-tickets,	260
Auto allowances,	1,847
Water purchased,	4,940
Commission in collections,	3,674
General repairs,	3,325
General repairs-pumping plants,	851
General repairs-old mains,	8,234
Shops, including autos,	22,000
Water depreciation fund,	138,622
Salaries, general office,	50,429
Proportion of permit and payroll clerks,	4,950
	\$ 366,192

IMPOUNDING SYSTEM

Depreciation,	\$ 93,551
Interest,	678,777
Maintenance & Operation, net,	<u>157,280</u>

Total annual charge, \$ 929,608

Net water, 5,747.7 million gallons.

Cost per 1000 gallons:

For depreciation,	1.63 cents.
For interest,	11.81 cents.
For maintenance and operation,	<u>2.74 cents.</u>
Total,	16.18 cents.

Cost per 1000 gallons-impounding and distributing-in cents.

	Impounding	Distributing	Total
For depreciation,	1.63	1.39	3.02
For interest,	11.81	6.08	17.89
For maintenance and Operation,	<u>2.74</u>	<u>6.76</u>	<u>9.50</u>
	16.18	14.23	30.41

From the above compilation any combination can be made as to the cost of water, on various theories, as to depreciation and interest charges.



**Ed Fletcher Papers**

**1870-1955**

**MSS.81**

**Box: 54 Folder: 11**

**Business Records - Water Companies -  
Cuyamaca Water Company - Cash reports, etc.**



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UC SAN DIEGO

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