

Table II.—Summary of Water Filtered and Chemical Distribution for Month of August.

Date.	Venturi, gallons per day.	Wash- water, gallons per day.	Alum used, grains per day.	Alum used, grains per gal.	Chloride, grains per day.	Chloride, grains per gal.	Turbidity, raw.	Turbidity, treated.
August 1st ...	2,043,000	72,000	1,208,644	0.57	123,600	0.058	130 p.p.m.	100 p.p.m.
" 2nd ...	2,027,000	72,000	938,304	0.45	185,380	0.089	130 "	100 "
" 3rd ...	1,468,000	72,000	982,584	0.64	77,250	0.05	130 "	100 "
" 4th ...	2,082,000	72,000	1,009,152	0.45	47,628	0.06	110 "	65 "
" 5th ...	2,081,000	72,000	1,009,152	0.45	126,908	0.059	120 "	65 "
" 6th ...	1,856,000	72,000	912,744	0.47	63,504	0.060	120 "	100 "
" 7th ...	1,827,000	72,000	623,520	0.33	0	0	100 "	90 "
" 8th ...	1,772,000	72,000	752,084	0.41	0	0	100 "	90 "
" 9th ...	1,643,000	72,000	623,520	0.36	0	0	100 "	85 "
" 10th ...	1,464,000		623,520	0.43	0	0	75 "	55 "
" 11th ...	1,706,000	72,000	703,860	0.4	0	0	75 "	55 "
" 12th ...	1,737,000	60,000	623,520	0.35	0	0	75 "	55 "
" 13th ...	1,817,000	60,000	691,584	0.35	0	0	95 "	75 "
" 14th ...	1,688,000	60,000	665,860	0.38	0	0	75 "	55 "
" 15th ...	1,748,000	60,000	666,060	0.36	0	0	65 "	50 "
" 16th ...	1,793,000	60,000	666,060	0.36	0	0	65 "	45 "
" 17th ...	1,487,000		623,520	0.40	0	0	65 "	45 "
" 18th ...	1,750,000	60,000	623,520	0.34	0	0	80 "	55 "
" 19th ...	1,660,000	60,000	768,132	0.45	0	0	130 "	80 "
" 20th ...	1,842,000	60,000	1,328,863	0.7	0	0	180 "	70 "
" 21st ...	1,701,000	60,000	1,238,823	0.7	74,088	0.07	150 "	45 "
" 22nd ...	1,869,000	60,000	1,210,000	0.63	127,008	0.066	180 "	45 "
" 23rd ...	1,893,000	50,000	1,210,008	0.62	127,008	0.065	250 "	65 "
" 24th ...	1,559,000	60,000	1,067,728	0.66	127,008	0.078	200 "	70 "
" 25th ...	1,937,000	60,000	1,158,203	0.58	68,790	0.06	180 "	70 "
" 26th ...	1,917,000	72,000	1,702,913	0.8	108,528	0.09	250 "	70 "
" 27th ...	1,920,000	72,000	1,953,542	0.98	186,048	0.093	350 "	65 "
" 28th ...	1,856,000	72,000	1,869,999	0.96	186,048	0.096	400 "	45 "
" 29th ...	1,910,000	72,000	1,524,839	0.76	54,264	0.094	300 "	30 "
" 30th ...	2,061,000	72,000	1,438,727	0.69	0	0	300 "	35 "
" 31st ...	1,347,000	72,000	1,451,200	1. plus	0	0	500 "	100 "
	55,361,000	1,922,000	31,870,204	0.556	1,683,060	0.063		

Water pumped to city mains.....55,361,000 gallons

Wash-water used 1,922,000 "

Total water filtered57,283,000 gallons

Pounds of sulphate of alumina 4,552.8

Pounds of hypochlorite of lime used 240

Average turbidity of raw water 167 p.p.m.

Average turbidity of treated water 67 p.p.m.

Per cent. reduction turbidity by sedimentation 60 p.p.m.

filled the guarantee given by the Roberts Filter Manufacturing Company who installed it.

Table I.—Monthly Expense Report for the Month of August, 1913.—Filtration Plant.

Salaries of operators and superintendent	\$ 315.00
Bacteriologist	58.33
Additional labor, none	
Alum, 4,550 lbs. at \$2.25 per cwt.....	102.37
Hypochlorite, 240 lbs., at \$2.74 per cwt.	6.58
Wash water, 1,922,000 gallons at 6 cents per 1,000 gallons	115.32
Stores, none	
Power, 1,077 kw.h. at 6 cents per kw.h.	64.62
Light, 235 kw.h. at 6 cents per kw.h.	14.10
Heat, none	
Repairs, none	
Laboratory, fixed charge of	25.00
Interest and sinking fund	400.00

Total cost for the month\$1,101.32

Water filtered for month, 57,283,000 gallons.

*Cost of filtering, per 100,000 gallons, \$1.93.

Table III.—Summary Showing Average for Eight Months' Operation.

	Alum.	Wash- water.	Filtered water.	Cost per 1,000 gals.
Jan.	None	1,300,000	78,095,704	1.23 cents
Feb.	None	1,213,968	75,631,738	1.19 "
Mar.	1,900	2,323,000	82,321,140	1.27 "
Apr.	19,380	4,388,880	79,591,588	2.04 "
May	11,580	2,800,000	61,919,060	2.13 "
June	12,675	2,842,800	59,416,800	2.30 "
July	7,475	2,316,000	58,541,000	2.04 "
Aug.	4,550	1,922,000	57,083,000	1.93 "
	<u>57,560</u>	<u>19,610,640</u>	<u>552,600,030</u>	<u>14.13 cents</u>
Average grains of alum per gallon for period of excessive turbidity1.52				
Average grains of alum per gallon for period of normal turbidity0.28				
Average grains of alum per gallon for period of eight months0.73				
Average amount of wash-water for period of excessive turbidity4.9 %				
Average amount of wash-water for period of normal turbidity2.58%				