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INTERSTATE SANITATION COMMISSION

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INTERSTATE SANITATION COMMISSION
110 WILLIAM STREET • NEW YORK 7, N. Y.

# Summary

of

# Sewage Analyses

1948 - 1949

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## DESCRIPTION OF ANALYTICAL PROCEDURES

Routine investigations are conducted in conformity with the requirements of the Tri-State Compact to observe the effectiveness of sewage treatment works discharging into the waters of the Interstate Sanitation District. Investigations at these sewage treatment plants are rotated at random, and usually revisits are not scheduled until a complete cycle of plant investigations have been made. An average of three investigations per annum are made at most plants. Investigations at screening plants are presently limited to the collection of bacteriological samples and pertinent data thereto.

### COLLECTION OF SAMPLES

Composite samples are prepared at 11:30 A.M. and at 3:30 P.M. from pint samples which are collected routinely at sewage treatment plants at half hourly intervals from 8:00 A.M. to 3:30 P.M. Influent and effluent samples are collected at approximately the same time, without relation to the volume of flow or the detention period. The composite samples, without icing or preservatives added, are usually returned to the laboratory by 5:00 P.M. when B.O.D. dilutions are set up and incubated immediately. The remainder of the samples are stored in a refrigerator overnight and solids analyses are made on the following day.

ANALYTICAL PROCEDURES

Analytical procedures are in accord with Standard Methods for the Examination of Water and Sewage, Ninth Edition.

TOTAL SUSPENDED SOLIDS

In 1948, the two procedures described in the 1947 Report were discontinued to conform to Standard Methods for the Examination of Water and Sewage, Ninth Edition, page 145, Section B.1 and 2. Since we do not usually determine volatile matter, crucibles and mats are not ignited. The Commission has not used the aluminum dish method for the determination of suspended solids.

SETTLEABLE SOLIDS

In 1948, the procedure for the determination of settleable solids as reported in 1947 was also discontinued to conform to Standard Methods for the Examination of Water and Sewage, Ninth Edition, page 146, Section 13, D, 2. Since the use of a theoretical detention period of the plant settling units is permissible, a two hour settling time is adopted for this test to simulate plant detention periods.

To reduce the danger of disturbing the settled solids to a minimum, a siphon with a U-trap on the intake end is being used to withdraw the supernatant liquid from the settling cylinders.

BIOCHEMICAL OXYGEN DEMAND

The Biochemical Oxygen Demand test is begun as soon as samples are returned to the laboratory. Starting

in 1949,samples were tested for chlorine and if found present, the samples were dechlorinated in accord with the procedure of Standard Methods for the Examination of Water and Sewage, Ninth Edition, pages 142-143, Section 11 A 3.2.1; 3.2.2. Several dilutions of the prepared sample are made in order to cover the range of depletions expected. These are then incubated for a period of seven days at 20°C. The 5-day B.O.D. is calculated by use of the relative stability tables. The B.O.D. is determined by the sodium azide modification of the Winkler method, Standard Methods, page 129, Section 10,E. Dilution water is prepared in accord with Standard Methods' procedure page 140, Section A,2.

HYDROGEN ION

Hydrogen ion determinations are made in the field by the colorimetric method.

CHLORINE RESIDUALS

Chlorine residualdeterminations are also made in the field in accord with Standard Methods, pages 147-148, Section 18, A, 1 and 2. After samples are collected, they are held for a period equal to the time of detention in the outlet conduit before being tested for residual chlorine. This procedure is followed regardless of previous chlorine contact period. However in no case are the samples held longer than twenty minutes.

COLIFORM ORGANISMS

Samples are collected in sterile glass bottles, and held, prior to planting, for a period equal to the time

of detention in the outlet conduit. This procedure is followed regardless of previous chlorine contact period. However, in no case are the samples held longer than twenty minutes. The samples, without being dechlorinated, are planted in the field directly into lactose broth tubes. Where the chlorine residual of the samples is 0.8 p.p.m. or greater, three tubes in each of three dilutions are planted; where the chlorine residual is less than 0.8 p.p.m., five tubes in each of three dilutions are planted. 1 ml., 1/10 ml., and 1/100 ml samples are planted routinely to cover the range in Most Probable Number from less than 0.3 per ml. to over 240 per ml. This range is sufficient for interpretation of compliance with the Interstate Sanitation Compact requirements. The inoculated lactose broth tubes are returned to the laboratory by 5:00 P.M. and incubated at 37° C. Observations are made after 24 hours and after 48 hours of incubation ($\pm$ 2 hours). All lactose broth positives are confirmed in brilliant green bile 2% media.

A single numerical value for a series of analytical results from a single visit to a plant is obtained by expressing the results of each analysis in terms of its M.P.N. value and striking an arithmetic average of these values.

"Bacto" lactose broth, dehydrated and "Bacto" brilliant green bile 2% dehydrated (Difco Laboratory preparations) are the media being used. Media and dilution water are sterilized in a steam autoclave at 15 lbs. pressure for 15

minutes and then kept refrigerated.

VOLUME OF FLOW

Flows tabulated in the analytical data are average rates of flow during the sampling period, unless otherwise indicated.

The following tables summarize the analyses of sewage at the various treatment plants throughout the Interstate Sanitation District.

This work was under the direction of Seth G. Hess, Director & Chief Engineer, the laboratory analytical work by M. Deitch, assisted by P. De Falco, Jr., and the field investigations by M. E. Ferguson and F. W. Gross.

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| FAIRFIELD COUNTY, CONNECTICUT | | | | | | | | | | | | | |
| Bridgeport | | | | | | | | | | | | | |
| East Side | 6-14-48 C | 45.5 | | | | | | | | | | | |
| " " | 7-19-48 C | | | | | | | | | | | | |
| West Side | 6-14-48 C | 88.5 | | | | | | | | | | | |
| " " | 7-17-48 C | | | | | | | | | | | | |
| Darien | 5-13-48 C | 3.0 | 3.5 x | 6.9 | 6.9 | 150 | 50 | 100 | 67 | | | | |
| " | 6-15-48 C | | | | | | | | | | | | |
| " | 10-20-48 C | | | 7.2 | 7.2 | 270 | 66 | 204 | 76 | | | | |
| Greenwich | | | | | | | | | | | | | |
| Byram Plant | 4-20-48 C | 3.0 | 0.27 x | 7.3 | 6.9 | 230 | 100 | 130 | 57 | | | | |
| " " | 6- 2-48 C | | | | | | | | | | | | |
| " " | 9- 2-48 C | | | 7.0 | 6.5 | 380 | 70 | 310 | 82 | | | | |
| " " | 12-21-48 C | | | 7.2 | 7.2 | 270 | 120 | 150 | 56 | | | | |
| Cos Cob Plant | 2- 2-48 C | 4.5 | 0.71 x | 7.3 | 7.3 | 190 | 100 | 90 | 47 | | | | |
| " " " | 5- 6-48 C | | | 7.1 | 7.1 | 210 | 60 | 150 | 71 | | | | |
| " " " | 6- 2-48 C | | | | | | | | | | | | |
| " " " | 9-29-48 C | | | 7.1 | 6.9 | 240 | 83 | 157 | 65 | | | | |
| " " " | 12-27-48 C | | | 7.8 | 7.4 | 210 | 110 | 100 | 48 | | | | |

C - By The Connecticut State Dept. of Health
x - Estimated Average Flow

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| FAIRFIELD COUNTY, CONNECTICUT | | | | | | | | | | |
| Bridgeport | | | | | | | | | | |
| East Side | | | | | | | | | 60+ | 75 |
| " " | | | | | | | | | 186+ | 100 |
| West Side | | | | | | | 0.8 | 0.5 | 65+ | 100 |
| " " | | | | | | | | | 181+ | 100 |
| Darien | | | 130 | 70 | 60 | 46 | | | | |
| " | | | | | | | | | 62 | 50 |
| " | | | 230 | 100 | 130 | 57 | | | | |
| Greenwich | | | | | | | | | | |
| Byram Plant | | | 260 | 230 | 30 | 12 | | | | |
| " " | | | | | | | 1.0+ | 1.0 | 6.37 | 50 |
| " " | | | 470 | 180 | 290 | 62 | | | | |
| " " | | | 390 | 290 | 100 | 26 | | | | |
| Cos Cob Plant | | | 250 | 160 | 90 | 36 | | | | |
| " " " | | | 200 | 130 | 70 | 35 | | | | |
| " " " | | | | | | | 1.0+ | 0.9 | 2.5 | 50 |
| " " " | | | 330 | 160 | 170 | 52 | | | | |
| " " " | | | 270 | 170 | 100 | 37 | | | | |

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH Influent Avg. | pH Effluent Avg. | Total Suspended Solids Influent ppm | Total Suspended Solids Effluent ppm | Total Suspended Solids Removal ppm | Total Suspended Solids Removal % | Settleable Solids Influent ppm | Settleable Solids Effluent ppm | Settleable Solids Removal ppm | Settleable Solids Removal % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FAIRFIELD COUNTY, CONN. Cont. | | | | | | | | | | | | | |
| Greenwich - Continued | | | | | | | | | | | | | |
| Grass Island Plant | 4- 8-48 C | 10.5 | 2.16 x | 7.1 | 6.9 | 130 | 33 | 97 | 75 | | | | |
| " " " | 6- 2-48 C | | | | | | | | | | | | |
| " " " | 8-31-48 C | | | 6.8 | 6.7 | 210 | 42 | 168 | 80 | | | | |
| " " " | 12-16-48 C | | | 7.5 | 7.3 | 180 | 57 | 123 | 68 | | | | |
| Old Greenwich Plant | 5-24-48 C | 4.6 | 0.94 x | 6.7 | 6.5 | 120 | 52 | 68 | 57 | | | | |
| " " " | 6-15-48 C | | | | | | | | | | | | |
| " " " | 10- 4-48 C | | | 7.1 | 6.7 | 270 | 52 | 218 | 81 | | | | |
| Norwalk | 6- 2-48 C | 26.0 | 7.0 x | | | | | | | | | | |
| " | 9- 1-48 C | | | 6.8 | 6.7 | 93 | 58 | 35 | 38 | | | | |
| Stamford | 5-18-48 C | 48.0 | 5.0 x | 7.1 | 7.0 | 180 | 76 | 104 | 58 | | | | |
| " | 6-15-48 C | | | | | | | | | | | | |
| " | 11-23-48 C | | | 7.2 | 7.4 | 370 | 150 | 220 | 59 | | | | |
| Stratford | 6- 3-48 C | 20.0 | 2.0 x | | | | | | | | | | |
| " | 7- 1-48 C | | | 6.7 | 6.5 | 110 | 49 | 61 | 55 | | | | |
| " | 12-15-48 C | | | 7.3 | 7.0 | 200 | 73 | 127 | 64 | | | | |

C - By The Connecticut State Dept. of Health
x - Estimated Average Flow

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| FAIRFIELD COUNTY, CONN. Cont. | | | | | | | | | | |
| Greenwich - Continued | | | | | | | | | | |
| Grass Island Plant | | | 140 | 74 | 66 | 47 | | | | |
| " " " | | | | | | | 1.7 | 1.3 | 1.33 | 50 |
| " " " | | | 210 | 87 | 123 | 59 | | | | |
| " " " | | | 210 | 130 | 80 | 38 | | | | |
| Old Greenwich Plant | | | 120 | 94 | 26 | 23 | | | | |
| " " " | | | | | | | | | -0.3 | 0 |
| " " " | | | 190 | 98 | 92 | 48 | | | | |
| Norwalk | | | | | | | 0.8 | 0 | 60+ | 25 |
| " | | | 60 | 39 | 21 | 35 | | | | |
| Stamford | | | 190 | 130 | 60 | 32 | | | | |
| " | | | | | | | | | -0.3 | 0 |
| " | | | 380 | 200 | 180 | 47 | | | | |
| Stratford | | | | | | | 0.8 | 0.5 | -0.3 | 0 |
| " | | | 86 | 44 | 42 | 49 | | | | |
| " | | | 230 | 180 | 50 | 22 | | | | |

- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH Influent Avg. | pH Effluent Avg. | Total Suspended Solids Influent ppm | Total Suspended Solids Effluent ppm | Total Suspended Solids Removal ppm | Total Suspended Solids Removal % | Settleable Solids Influent ppm | Settleable Solids Effluent ppm | Settleable Solids Removal ppm | Settleable Solids Removal % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NEW HAVEN COUNTY, CONN. | | | | | | | | | | | | | |
| Milford | 5-26-48 C | 4.0 | 0.4 x | 6.9 | 6.7 | 150 | 1 | 149 | 99 | | | | |
| " | 6- 3-48 C | | | | | | | | | | | | |
| " | 10-14-48 C | | | 7.0 | 6.4 | 320 | 6 | 314 | 98 | | | | |
| New Haven | | | | | | | | | | | | | |
| Boulevard Plant | 5-27-48 C | 88.5 | 17.0 x | 7.5 | 6.7 | 100 | 50 | 50 | 50 | | | | |
| " " | 6- 3-48 C | | | | | | | | | | | | |
| " " | 11-16-48 C | | | 7.4 | 7.9 | 290 | 140 | 150 | 52 | | | | |
| East Street Plant | 5-25-48 C | 52.2 | 11.0 x | 7.3 | 6.9 | 290 | 95 | 195 | 77 | | | | |
| " " " | 6- 3-48 C | | | | | | | | | | | | |
| " " " | 7- 7-48 C | | | | | | | | | | | | |
| " " " | 10-21-48 C | | | 6.8 | 6.5 | 390 | 130 | 260 | 67 | | | | |
| West Haven | 3-16-48 C | 25.0 | 2.0 x | 7.3 | 7.3 | 160 | 74 | 86 | 54 | | | | |
| " " | 6- 3-48 C | | | | | | | | | | | | |
| " " | 8-25-48 C | | | 7.3 | 6.9 | 190 | 84 | 106 | 56 | | | | |
| " " | 12-14-48 C | | | 8.3 | 8.3 | 260 | 92 | 168 | 65 | | | | |

C -By The Connecticut State Dept. of Health
x -Estimated Average Flow

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| NEW HAVEN COUNTY, CONN. | | | | | | | | | | |
| Milford | | | 110 | 2 | 108 | 98 | | | | |
| " | | | | | | | 0.6 | 0.5 | 1.7 | 50 |
| " | | | 280 | 4 | 276 | 99 | | | | |
| New Haven | | | | | | | | | | |
| Boulevard Plant | | | 150 | 71 | 79 | 53 | | | | |
| " " | | | | | | | 2.0+ | 2.0+ | -0.3 | 0 |
| " " | | | 280 | 190 | 90 | 32 | | | | |
| East Street Plant | | | 190 | 79 | 111 | 58 | | | | |
| " " " | | | | | | | 0.3 | 0.2 | 150+ | 100 |
| " " " | | | | | | | | | 61+ | 50 |
| " " " | | | 160 | 100 | 60 | 37 | | | | |
| West Haven | | | 120 | 110 | 10 | 8 | | | | |
| " " | | | | | | | 0.4 | 0 | 0.7 | 25 |
| " " | | | 280 | 160 | 120 | 43 | | | | |
| " " | | | 320 | 190 | 130 | 41 | | | | |

- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH Influent Avg. | pH Effluent Avg. | Total Suspended Solids Influent ppm | Total Suspended Solids Effluent ppm | Total Suspended Solids Removal ppm | Total Suspended Solids Removal % | Settleable Solids Influent ppm | Settleable Solids Effluent ppm | Settleable Solids Removal ppm | Settleable Solids Removal % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FAIRFIELD COUNTY, CONNECTICUT | | | | | | | | | | | | | |
| Bridgeport | | | | | | | | | | | | | |
| East Side | 6- 1-49 C | 45.5 | | | | | | | | | | | |
| West Side | 6- 1-49 C | 88.5 | | | | | | | | | | | |
| Darien | 1-31-49 C | 3.0 | 3.5 x | 6.8 | 6.8 | 160 | 46 | 114 | 71 | | | | |
| " | 4-20-49 C | | | 6.8 | 6.9 | 400 | 58 | 342 | 86 | | | | |
| " | 6- 1-49 C | | | | | | | | | | | | |
| Greenwich | | | | | | | | | | | | | |
| Byram Plant | 4-13-49 C | 3.0 | 0.27 x | 7.1 | 7.0 | 240 | 82 | 158 | 66 | | | | |
| " " | 6- 1-49 C | | | | | | | | | | | | |
| " " | 10- 3-49 C | | | 7.5 | 6.5 | 460 | 150 | 310 | 67 | | | | |
| Cos Cob Plant | 4- 7-49 C | 4.5 | 0.71 x | 7.0 | 6.8 | 96 | 56 | 40 | 42 | | | | |
| " " " | 6- 1-49 C | | | | | | | | | | | | |
| " " " | 9-28-49 C | | | 7.1 | 6.5 | 250 | 140 | 110 | 44 | | | | |
| Grass Island Plant | 4- 5-49 C | 10.5 | 2.16 x | 7.3 | 7.3 | 170 | 54 | 116 | 68 | | | | |
| " " " | 6- 1-49 C | | | | | | | | | | | | |
| " " " | 10- 6-49 C | | | 7.1 | 6.7 | 360 | 66 | 294 | 82 | | | | |

C By The Connecticut State Dept. of Health
x Estimated Average Flow

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform M.P.N. per ml. | Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| FAIRFIELD COUNTY, CONN. | | | | | | | | | | |
| Bridgeport | | | | | | | | | | |
| East Side | | | | | | | 1.9+ | 1.4 | 83+ | 100 |
| West Side | | | | | | | 0.9 | 0.5 | 185+ | 100 |
| Darien | | | 120 | 41 | 79 | 66 | | | | |
| " | | | 260 | 54 | 206 | 79 | | | | |
| " | | | | | | | 1.0 | 0.3 | -0.3 | 0 |
| Greenwich | | | | | | | | | | |
| Byram Plant | | | 250 | 180 | 70 | 28 | | | | |
| " " | | | | | | | 2.0+ | 2.0+ | 0.47 | 0 |
| " " | | | 510 | 300 | 210 | 41 | | | | |
| Cos Cob Plant | | | 100 | 83 | 17 | 17 | | | | |
| " " " | | | | | | | 1.2 | 0.8 | 0.56 | 0 |
| " " " | | | 290 | 150 | 140 | 48 | | | | |
| Grass Island Plant | | | 190 | 110 | 80 | 42 | | | | |
| " " " | | | | | | | 2.0+ | 2.0+ | -0.3 | 0 |
| " " " | | | 400 | 120 | 280 | 70 | | | | |

- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH Influent Avg. | pH Effluent Avg. | Total Suspended Solids Influent ppm | Total Suspended Solids Effluent ppm | Total Suspended Solids Removal ppm | Total Suspended Solids Removal % | Settleable Solids Influent ppm | Settleable Solids Effluent ppm | Settleable Solids Removal ppm | Settleable Solids Removal % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FAIRFIELD COUNTY, CONN. Cont. | | | | | | | | | | | | | |
| Greenwich - Continued | | | | | | | | | | | | | |
| Old Greenwich Plant | 2- 8-49 C | | | 6.8 | 6.8 | 92 | 29 | 63 | 68 | | | | |
| " " " | 5-26-49 C | 4.6 | 0.94 x | 6.7 | 6.5 | 50 | 23 | 27 | 54 | | | | |
| " " " | 6- 1-49 C | | | | | | | | | | | | |
| " " " | 10-17-49 C | | | 7.1 | 6.7 | 410 | 110 | 300 | 73 | | | | |
| Norwalk | 4-11-49 C | 26.0 | 7.0 x | 7.0 | 6.8 | 130 | 67 | 63 | 48 | | | | |
| " | 6- 2-49 C | | | | | | | | | | | | |
| " | 10-10-49 C | | | 7.1 | 6.7 | 220 | 160 | 60 | 27 | | | | |
| Stamford | 2- 9-49 C | 48.0 | 5.0 x | 7.2 | 7.1 | 170 | 85 | 85 | 50 | | | | |
| " | 5-31-49 C | | | 6.9 | 6.7 | 360 | 79 | 281 | 78 | | | | |
| " | 6- 1-49 C | | | | | | | | | | | | |
| " | 10-19-49 C | | | 7.5 | 7.3 | 340 | 91 | 249 | 73 | | | | |
| Stratford | 4-18-49 C | | 2.0 x | 7.1 | 7.0 | 110 | 76 | 34 | 31 | | | | |
| " | 6- 2-49 C | 20.0 | | | | | | | | | | | |
| " | 9-29-49 C | | | 7.1 | 7.1 | 180 | 47 | 133 | 74 | | | | |

C By The Connecticut State Dept. of Health
x Estimated Average Flow

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| FAIRFIELD COUNTY, CONN. Cont. | | | | | | | | | | |
| Greenwich - Continued | | | | | | | | | | |
| Old Greenwich Plant | | | 110 | 71 | 39 | 35 | | | | |
| " " " | | | 110 | 52 | 58 | 53 | | | | |
| " " " | | | | | | | 1.5 | 0.6 | -0.3 | 0 |
| " " " | | | 340 | 170 | 170 | 50 | | | | |
| Norwalk | | | 110 | 60 | 50 | 45 | | | | |
| " | | | | | | | 0.4 | 0.2 | 3.9 | 80 |
| " | | | 140 | 100 | 40 | 29 | | | | |
| Stamford | | | 210 | 130 | 70 | 33 | | | | |
| " | | | 310 | 140 | 170 | 55 | | | | |
| " | | | | | | | 0.9 | Trace | 0.45 | 0 |
| " | | | 270 | 140 | 130 | 48 | | | | |
| Stratford | | | 140 | 99 | 41 | 29 | | | | |
| " | | | | | | | 0.7 | 0.4 | 0.62 | 0 |
| " | | | 190 | 110 | 80 | 42 | | | | |

- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| NEW HAVEN COUNTY, CONN. | | | | | | | | | | | | | |
| Milford | 2- 3-49 C | 4.0 | 0.4 x | 6.9 | 6.9 | 82 | 4 | 78 | 95 | | | | |
| " | 5-23-49 C | | | 6.9 | 6.5 | 75 | 2 | 73 | 97 | | | | |
| " | 6- 2-49 C | | | | | | | | | | | | |
| " | 10-20-49 C | | | 7.1 | 6.3 | 170 | -1 | 169+ | 99+ | | | | |
| New Haven | | | | | | | | | | | | | |
| Boulevard Plant | 2-14-49 C | 88.5 | 17.0 x | 7.4 | 7.2 | 220 | 97 | 123 | 56 | | | | |
| " " | 4- 4-49 C | | | 7.8 | 7.5 | 220 | 220 | 0 | 0 | | | | |
| " " | 6- 2-49 C | | | | | | | | | | | | |
| " " | 10- 4-49 C | | | 7.5 | 7.3 | 230 | 82 | 148 | 64 | | | | |
| East Street Plant | 2- 7-49 C | 52.2 | 11.0 x | 6.9 | 7.0 | 270 | 110 | 160 | 59 | | | | |
| " " " | 6- 2-49 C | | | | | | | | | | | | |
| " " " | 6- 3-49 C | | | 7.3 | 6.9 | 180 | 93 | 87 | 48 | | | | |
| " " " | 10-11-49 C | | | 7.3 | 6.9 | 200 | 82 | 118 | 59 | | | | |
| West Haven | 4-12-49 C | 25.0 | 2.0 x | 7.8 | 7.8 | 290 | 110 | 180 | 62 | | | | |
| " " | 6- 2-49 C | | | | | | | | | | | | |
| " " | 10-31-49 C | | | 7.9 | 7.8 | 400 | 84 | 316 | 79 | | | | |

C - By The Connecticut State Dept. of Health
x - Estimated Average Flow
- - Less than

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| NEW HAVEN COUNTY, CONN. | | | | | | | | | | |
| Milford | | | 92 | 6 | 86 | 93 | | | | |
| " | | | 94 | 3 | 91 | 97 | | | | |
| " | | | | | | | 1.1 | 0.9 | 0.56 | 0 |
| " | | | 160 | 5 | 155 | 98 | | | | |
| New Haven | | | | | | | | | | |
| Boulevard Plant | | | 170 | 120 | 50 | 29 | | | | |
| " " | | | 220 | 240 | Neg | Neg | | | | |
| " " | | | | | | | 1.0 | 0.2 | 60+ | 25 |
| " " | | | 160 | 100 | 60 | 38 | | | | |
| East Street Plant | | | 95 | 71 | 24 | 25 | | | | |
| " " " | | | | | | | 0.4 | 0 | 60+ | 25 |
| " " " | | | 160 | 110 | 50 | 31 | | | | |
| " " " | | | 140 | 130 | 10 | 7 | | | | |
| West Haven | | | 310 | 200 | 110 | 35 | | | | |
| " " | | | | | | | 0.9 | 0 | 60+ | 25 |
| " " | | | 330 | 140 | 190 | 58 | | | | |

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| BERGEN COUNTY, NEW JERSEY | | | | | | | | | | | | | |
| Cliffside Park | * | 16.89 | 1.2 x | | | | | | | | | | |
| Englewood Cliffs | 5-10-48 | 0.89 | | 6.7 | 6.8 | 48 | 42 | 6 | 13 | 24 | 15 | 9 | 38 |
| " " | 7- 8-48 | | 0.07 | 6.9 | 6.3 | 42 | 19 | 23 | 55 | 20 | 12 | 8 | 40 |
| " " | 9- 9-48 | | 0.03 | 7.1 | 6.5 | 55 | 54 | 1 | 2 | 18 | 10 | 8 | 44 |
| ESSEX COUNTY, N.J. | | | | | | | | | | | | | |
| Port Newark - Swift Refining Company | * | | | | | | | | | | | | |
| HUDSON COUNTY, N.J. | | | | | | | | | | | | | |
| U.S. Navy Naval Supply Depot, Bayonne | 4-26-48 ** | | | | | | | | | | | | |
| " " " | 6-21-48 | | | | | | | | | | | | |
| " " " | 8-23-48 | | | | | | | | | | | | |

* - No Investigation Made
x - Estimated Average Flow
** - Results Omitted - Security Regulations

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| BERGEN COUNTY, NEW JERSEY | | | | | | | | | | |
| Cliffside Park * | | | | | | | | | | |
| Englewood Cliffs | 96 | 82 | 82 | 70 | 12 | 15 | 0 | 0 | 240+ | 100 |
| " " | 89 | 64 | 76 | 54 | 22 | 29 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " | 183 | 195 | 156 | 166 | Neg | Neg | 1.1 | 0.8 | -0.2 | 0 |
| ESSEX COUNTY, N.J. | | | | | | | | | | |
| Port Newark - Swift Refining Company * | | | | | | | | | | |
| HUDSON COUNTY, N.J. | | | | | | | | | | |
| U.S. Navy Naval Supply Depot, Bayonne ** | | | | | | | | | | |
| " " " | | | | | | | | | | |
| " " " | | | | | | | | | | |

* No Investigation Made

** Results Omitted - Security Regulations

\- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| MIDDLESEX COUNTY, NEW JERSEY | | | | | | | | | | | | | |
| Perth Amboy | 4- 6-48 | 41.24 | 5.0 | 7.7 | 6.8 | 221 | 72 | 149 | 67 | 138 | 10 | 128 | 93 |
| " " | 5-20-48 | | 5.2 | 7.0 | 7.6+ | 140 | 40 | 100 | 71 | 52 | 7 | 45 | 87 |
| " " | 7-15-48 | | 6.1 | 5.7 | 6.3 | 196 | 69 | 127 | 65 | 165 | 29 | 136 | 82 |
| " " | 9-21-48 | | 5.4 | 7.1 | 7.3 | 176 | 80 | 96 | 55 | 107 | 20 | 87 | 81 |
| South Amboy | 3-17-48 | 7.8 | 0.62 | 6.6 | 6.4 | 205 | 80 | 125 | 61 | 127 | 4 | 123 | 97 |
| " " | 4-28-48 | | 0.64 | 6.7 | 6.3 | 254 | 93 | 161 | 63 | 191 | 18 | 173 | 91 |
| " " | 6-23-48 | | 0.78 | 6.6 | 6.3 | 231 | 100 | 131 | 57 | 164 | 38 | 126 | 77 |
| " " | 8-25-48 | | 0.76 | 6.5 | 6.3 | 332 | 43 | 289 | 87 | 259 | 10 | 249 | 96 |

(PART 2)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| MIDDLESEX COUNTY, NEW JERSEY | | | | | | | | | | |
| Perth Amboy | 252 | 155 | 214 | 132 | 82 | 38 | 1.3+ | -0.1 | 60+ | 25 |
| " " | 299 | 124 | 254 | 106 | 148 | 58 | 1.4+ | 0 | 6.1 | 25 |
| " " | 138 | 97 | 118 | 83 | 35 | 30 | 1.7+ | 1.1 | -0.3 | 0 |
| " " | 323 | 207 | 275 | 176 | 99 | 36 | 1.2 | 0.1 | -0.3 | 0 |
| South Amboy | 344 | 192 | 292 | 163 | 129 | 44 | 2.0+ | 0.9 | -0.3 | 0 |
| " " | 302 | 167 | 257 | 142 | 115 | 45 | 0.3 | 0 | -0.3 | 0 |
| " " | 286 | 119 | 243 | 101 | 142 | 58 | 1.1 | 0.6 | -0.3 | 0 |
| " " | 338 | 121 | 287 | 103 | 184 | 64 | 1.6 | 0.8 | -0.3 | 0 |

- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| MONMOUTH COUNTY, NEW JERSEY | | | | | | | | | | | | | |
| Atlantic Highlands | 4-14-48 | 2.34 | 0.5 x | 6.5 | 6.0 | 61 | 26 | 35 | 57 | 31 | 5 | 26 | 84 |
| " " | 6-14-48 | | | 6.6 | 6.1 | 165 | 57 | 108 | 65 | 105 | 20 | 85 | 81 |
| " " | 8-18-48 | | | 6.6 | 6.0 | 135 | 41 | 94 | 70 | 97 | 12 | 85 | 88 |
| Highlands | 7-12-48 | 2.08 | 1.26 | 7.1 | 6.3 | 269 | 85 | 184 | 68 | 170 | 33 | 137 | 81 |
| " | 9-15-48 | | 0.44 | 7.0 | 6.2 | 237 | 50 | 187 | 79 | 157 | 16 | 141 | 90 |
| Keansburg | 7-12-48 | 2.9 | 0.80 x | 6.6 | 6.6 | | | | | | | | |
| Keyport | 3-30-48 | 5.15 | 0.87 | 7.0 | 6.3 | 180 | 81 | 99 | 55 | 98 | 22 | 76 | 78 |
| " | 5-20-48 | | 0.95 | 6.8 | 6.3 | 146 | 155 | Neg | Neg | 102 | 90 | 12 | 12 |
| " | 7-20-48 | | 1.0 | 6.8 | 6.4 | 228 | 64 | 164 | 72 | 164 | 11 | 153 | 93 |
| " | 9-29-48 | | 0.74 | 7.3 | 6.4 | 231 | 101 | 130 | 56 | 139 | 32 | 107 | 77 |
| UNION COUNTY, NEW JERSEY | | | | | | | | | | | | | |
| Elizabeth Joint Meeting | 4-12-48 | 391.12 | 54 | 7.0 | 7.1 | 201 | 74 | 127 | 63 | 122 | 23 | 99 | 81 |
| " " " | 6- 3-48 | | 54 | 7.2 | 7.1 | 166 | 74 | 92 | 55 | 112 | 30 | 82 | 73 |
| " " " | 8- 2-48 | | 42 | 7.3 | 7.3 | 262 | 50 | 212 | 81 | 201 | 14 | 187 | 93 |
| " " " | 10- 5-48 | | 26 | 7.2 | 7.2 | 218 | 62 | 156 | 72 | 117 | 21 | 96 | 82 |

x Estimated Average Flow

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| MONMOUTH COUNTY, NEW JERSEY | | | | | | | | | | |
| Atlantic Highlands | 91 | 48 | 77 | 41 | 36 | 47 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " | 282 | 126 | 240 | 107 | 133 | 55 | 2.0+ | 1.2 | -0.3 | 0 |
| " " | 183 | 99 | 156 | 84 | 72 | 46 | 2.0+ | 2.0+ | -0.3 | 0 |
| Highlands | 437 | 218 | 372 | 186 | 186 | 50 | 1.4 | 0.4 | -0.3 | 0 |
| " | 258 | | 219 | | | | 2.0+ | 2.0+ | -0.3 | 0 |
| Keansburg | | | | | | | -0.1 | -0.1 | 240+ | 100 |
| Keyport | 322 | 236 | 273 | 201 | 72 | 26 | 1.5+ | 0.2 | 0.65 | 25 |
| " | 220 | 219 | 187 | 186 | 1 | 1 | 0.4 | 0.1 | 120+ | 50 |
| " | 352 | 225 | 299 | 192 | 107 | 36 | 1.3+ | 0.5 | -0.3 | 0 |
| " | 318 | 170 | 270 | 145 | 125 | 46 | 1.5+ | 0.4 | -0.3 | 0 |
| UNION COUNTY, NEW JERSEY | | | | | | | | | | |
| Elizabeth Joint Meeting | 225 | 126 | 192 | 107 | 85 | 44 | 0 | 0 | 240+ | 100 |
| " " " | 207 | 152 | 176 | 129 | 47 | 27 | 0 | 0 | 240+ | 100 |
| " " " | 350 | 156 | 298 | 135 | 163 | 55 | 0 | 0 | 240+ | 100 ϕ |
| " " " | 231 | 172 | 187 | 139 | 48 | 26 | 0 | 0 | 240+ | 100 |

ϕ Class "B" Area. Chlorination Not Required
- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent | Effluent | Influent | Effluent | Removal | | Influent | Effluent | Removal | |
| | | | | Avg. | Avg. | ppm | ppm | ppm | % | ppm | ppm | ppm | % |
| BERGEN COUNTY, N.J. | | | | | | | | | | | | | |
| Cliffside Park | * | 16.89 | 1.2 x | | | | | | | | | | |
| Englewood Cliffs | 4-28-49 | 0.89 | 0.12 | 6.8 | 6.8 | 71 | 43 | 28 | 39 | 44 | 20 | 24 | 55 |
| " " | 7- 5-49 | | 0.05 | 7.1 | 6.5 | 123 | 77 | 46 | 37 | 42 | 23 | 19 | 45 |
| " " | 9-15-49 | | 0.1 | 7.2 | 6.6 | 90 | 45 | 45 | 45 | 53 | 19 | 34 | 64 |
| ESSEX COUNTY, N.J. | | | | | | | | | | | | | |
| Port Newark - Swift Refining Company | * | | | | | | | | | | | | |
| HUDSON COUNTY, N.J. | | | | | | | | | | | | | |
| U.S. Navy Naval Supply Depot, Bayonne | 4- 4-49 ** | | | | | | | | | | | | |
| " " " | 7-14-49 | | | | | | | | | | | | |
| " " " | 9-28-49 | | | | | | | | | | | | |

x Estimated Average Flow
* No Investigation Made
** Results Omitted - Security Regulations.

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Effluent ppm | Calculated 5 day 20°C. Influent ppm | Effluent ppm | Removal ppm | % | Residual Chlorine Avg. ppm | Min. ppm | Coliform Organism M.P.N. per ml. | % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| BERGEN COUNTY, N.J. | | | | | | | | | | |
| Cliffside Park * | | | | | | | | | | |
| Englewood Cliffs | 133 | 99 | 113 | 84 | 29 | 26 | 0 | 0 | 240+ | 100 |
| " " | 314 | 212 | 267 | 180 | 87 | 33 | 1.1+ | 0 | 60+ | 25 |
| " " | 168 | 95 | 143 | 81 | 62 | 43 | 0.6 | 0.1 | 12 | 50 |
| ESSEX COUNTY, N.J. | | | | | | | | | | |
| Port Newark - Swift Refining Company * | | | | | | | | | | |
| HUDSON COUNTY, N.J. | | | | | | | | | | |
| U.S. Navy Naval Supply Depot Bayonne ** | | | | | | | | | | |
| " " " | | | | | | | | | | |
| " " " | | | | | | | | | | |

** Results Omitted - Security Regulations
* No Investigation Made

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| MIDDLESEX COUNTY, N.J. | | | | | | | | | | | | | |
| Perth Amboy | 3-21-49 | 41.24 | 9.9 | 7.2 | 7.8 | 318 | 115 | 203 | 64 | 181 | 27 | 154 | 85 |
| " " | 5-24-49 | | 7.1 | 6.7 | 8.4 | 172 | 67 | 105 | 61 | 98 | 19 | 79 | 81 |
| " " | 8-16-49 | | 6.6 | 7.2 | 7.6 | 261 | 69 | 192 | 74 | 149 | 19 | 130 | 87 |
| South Amboy | 3-22-49 | 7.8 | 0.79 | 6.6 | 6.4 | 249 | 97 | 152 | 61 | 177 | 19 | 158 | 89 |
| " " | 5-23-49 | | 0.8 | 6.7 | 6.2 | 318 | 70 | 248 | 78 | 216 | 14 | 202 | 94 |
| " " | 8-17-49 | | 0.73 | 6.5 | 6.3 | 277 | 73 | 204 | 74 | 203 | 22 | 181 | 89 |
| MONMOUTH COUNTY, N.J. | | | | | | | | | | | | | |
| Atlantic Highlands | 3-29-49 | 2.34 | 0.52 | 6.6 | 6.0 | 128 | 44 | 84 | 66 | 95 | 17 | 78 | 82 |
| " " | 6-13-49 | | | 6.5 | 6.1 | 168 | 43 | 125 | 74 | 113 | 9 | 104 | 92 |
| " " | 8-30-49 | | | 6.8 | 6.2 | 219 | 58 | 161 | 74 | 143 | 13 | 130 | 91 |
| Highlands | 4- 5-49 | 2.08 | 0.46 | 7.2 | 6.5 | 194 | 52 | 142 | 73 | 103 | 6 | 97 | 94 |
| " | 6-15-49 | | 0.4 | 7.2 | 6.4 | 249 | 86 | 163 | 65 | 170 | 30 | 140 | 82 |
| " | 9-20-49 | | | 7.3 | 6.4 | 236 | 55 | 181 | 77 | 191 | 33 | 158 | 83 |
| Keansburg | * | 2.9 | 0.80 x | | | | | | | | | | |
| Keyport | 3-23-49 | 5.15 | 1.01 | 6.7 | 6.4 | 148 | 79 | 69 | 47 | 112 | 31 | 81 | 72 |
| " | 6- 9-49 | | 0.63 | 6.9 | 6.6 | 204 | 71 | 133 | 65 | 146 | 14 | 132 | 90 |
| " | 9-13-49 | | 0.58 | 7.2 | 6.6 | 290 | 70 | 220 | 76 | 240 | 26 | 214 | 89 |

x Estimated Average Flow
* No Investigation Made

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Biochemical Oxygen Demand 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| MIDDLESEX COUNTY, N.J. | | | | | | | | | | |
| Perth Amboy | 323 | 153 | 275 | 130 | 145 | 53 | 1.2 | 0.1 | 88+ | 75 |
| " " | | | | | | | 2.0+ | 1.5 | 23 | 50 |
| " " | 262 | 141 | 223 | 120 | 103 | 46 | 1.7+ | 0.6 | 27.5 | 25 |
| South Amboy | 369 | 184 | 314 | 156 | 158 | 50 | 1.3 | 0.6 | -0.3 | 0 |
| " " | | | | | | | 1.9+ | 1.5 | -0.3 | 0 |
| " " | 361 | 205 | 307 | 174 | 133 | 43 | 1.8 | 1.4 | -0.3 | 0 |
| MONMOUTH COUNTY, N.J. | | | | | | | | | | |
| Atlantic Highlands | 189 | 108 | 161 | 92 | 69 | 43 | 1.9+ | 1.5 | -0.3 | 0 |
| " " | 260 | 140 | 221 | 119 | 102 | 46 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " | 372 | 197 | 316 | 167 | 149 | 47 | 1.6+ | 0.6 | -0.3 | 0 |
| Highlands | 320 | 112 | 272 | 95 | 177 | 65 | 2.0+ | 2.0+ | -0.3 | 0 |
| " | 319 | 119 | 271 | 101 | 170 | 63 | 1.9+ | 0.8 | -0.3 | 0 |
| " | 296 | 98 | 252 | 84 | 168 | 67 | 2.0+ | 2.0+ | -0.3 | 0 |
| Keansburg * | | | | | | | | | | |
| Keyport | 205 | 164 | 174 | 139 | 35 | 20 | 0.9 | 0.4 | 12 | 25 |
| " | 298 | 194 | 253 | 165 | 88 | 35 | 1.3 | 0.8 | -0.3 | 0 |
| " | 346 | 203 | 294 | 173 | 121 | 41 | 1.0 | 0.5 | -0.45 | 0 |

* No Investigation Made
\- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| UNION COUNTY, N.J. | | | | | | | | | | | | | |
| Elizabeth Joint Meeting | 3-31-49 | 391.12 | 44 | 7.5 | 7.3 | 190 | 76 | 114 | 60 | 109 | 25 | 84 | 77 |
| " " " | 6-29-49 | | 34 | 7.2 | 7.1 | 271 | 71 | 200 | 74 | 181 | 21 | 160 | 88 |
| " " " | 9- 1-49 | | 34 | 7.0 | 7.1 | 262 | 63 | 199 | 76 | 158 | 14 | 144 | 91 |

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Effluent ppm | Calculated 5 day 20°C. Influent ppm | Effluent ppm | Removal ppm | % | Residual Chlorine Avg. ppm | Min. ppm | Coliform Organism M.P.N. per ml. | % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| UNION COUNTY, N.J. | | | | | | | | | | |
| Elizabeth Joint Meeting | 235 | 143 | 200 | 122 | 78 | 39 | 0 | 0 | 240+ | 100 |
| " " " | 288 | 157 | 246 | 134 | 112 | 46 | 0 | 0 | 240+ | 100 ϕ |
| " " " | 227 | 138 | 193 | 118 | 75 | 39 | 0 | 0 | 240+ | 100 |

ϕ Class "B" Area. Chlorination Not Required

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| NASSAU COUNTY, NEW YORK | | | | | | | | | | | | | |
| Aircraft Service Corp. | 6-21-48 | | | | 6.0 | | | | | | | | |
| (Formerly Columbia Aircraft) | 8-23-48 | | | | 6.0 | | | | | | | | |
| Belgrave Sewer District | 3-29-48 | 12.0 | 1.8 | 6.5 | 6.4 | 177 | 65 | 112 | 63 | 122 | 13 | 109 | 89 |
| " " " | 5-17-48 | | 2.1 | 6.7 | 6.4 | 196 | 81 | 115 | 59 | 143 | 34 | 109 | 76 |
| " " " | 7-19-48 | | 2.1 | 6.5 | 6.3 | 164 | 45 | 119 | 73 | 110 | 11 | 99 | 90 |
| " " " | 9-20-48 | | 1.8 | 6.7 | 6.2 | 242 | 35 | 207 | 86 | 182 | 7 | 175 | 96 |
| Cedarhurst | 3-18-48 | 5.46 | 1.8 | 7.0 | 6.4 | 262 | 58 | 204 | 78 | 202 | 5 | 197 | 98 |
| " | 5-18-48 | | 2.0 | 6.9 | 6.6 | 140 | 56 | 84 | 60 | 88 | 14 | 74 | 84 |
| " | 7-20-48 | | 2.2 | 6.8 | 6.4 | 271 | 53 | 218 | 80 | 222 | 4 | 218 | 98 |
| " | 9-28-48 | | 1.9 | 7.0 | 6.5 | 267 | 67 | 200 | 75 | 204 | 3 | 201 | 99 |
| Freeport | 4-20-48 | 11.0 | 2.3 | 6.6 | 6.1 | 144 | 39 | 105 | 73 | 103 | 7 | 96 | 93 |
| " | 6- 8-48 | | 2.0 | 6.6 | 6.2 | 167 | 102 | 65 | 39 | 106 | 48 | 58 | 55 |
| " | 8- 4-48 | | 2.5 | 6.4 | 6.2 | 127 | 39 | 88 | 69 | 93 | 6 | 87 | 94 |
| | 10-19-48 | | 1.8 | 6.9 | 6.2 | 170 | 39 | 131 | 77 | 107 | 5 | 102 | 95 |

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Effluent ppm | Calculated 5 day 20°C. Influent ppm | Effluent ppm | Removal ppm | % | Residual Chlorine Avg. ppm. | Min. ppm | Coliform Organism M.P.N. per ml. | % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| NASSAU COUNTY, NEW YORK | | | | | | | | | | |
| Aircraft Service Corp. (Formerly Columbia Aircraft) | | | | | | | 2.0+ | 2.0+ | -0.3 | 0 |
| | | | | | | | 2.0+ | 2.0+ | -0.3 | 0 |
| Belgrave Sewer District | 197 | 124 | 168 | 105 | 63 | 38 | 1.0+ | -0.1 | 13.7 | 25 |
| " " " | 162 | 91 | 138 | 77 | 61 | 44 | 0.3 | 0.1 | 70+ | 75 |
| " " " | 170 | 92 | 145 | 78 | 67 | 46 | 0.6 | 0 | 61+ | 50 |
| " " " | 230 | 100 | 195 | 85 | 110 | 56 | 1.0+ | 0.1 | -0.4 | 0 |
| Cedarhurst | 265 | 122 | 225 | 104 | 121 | 54 | 2.0+ | 2.0+ | -0.3 | 0 |
| " | 261 | 155 | 222 | 131 | 91 | 41 | 2.0+ | 2.0+ | -0.3 | 0 |
| " | 323 | 185 | 275 | 158 | 117 | 43 | 1.4 | 0.3 | -0.3 | 0 |
| " | 490+ | 371 | 416+ | 315 | 101+ | 25+ | 1.8+ | 1.3 | -0.3 | 0 |
| Freeport | 143 | 79 | 121 | 66 | 55 | 45 | 1.3+ | 0.5 | -0.3 | 0 |
| " | 212 | 117 | 180 | 99 | 81 | 45 | 0.8+ | 0.2 | 3.73 | 25 |
| " | 163 | 70 | 139 | 59 | 80 | 58 | 1.0 | 0.3 | -0.3 | 0 |
| " | 242 | 80 | 206 | 68 | 138 | 67 | 1.1 | 0.2 | -0.3 | 0 |

- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| NASSAU COUNTY, NEW YORK - Cont. | | | | | | | | | | | | | |
| Glen Cove | 4-19-48 | 12.42 | 2.3 | 7.0 | 6.5 | 185 | 98 | 87 | 47 | 140 | 47 | 93 | 66 |
| " " | 6-10-48 | | 2.1 | 6.8 | 6.6 | 196 | 135 | 61 | 31 | 138 | 66 | 72 | 52 |
| " " | 9-10-48 | | 2.2 | 6.8 | 6.6 | 217 | 114 | 103 | 47 | 160 | 46 | 114 | 71 |
| " " | 10-20-48 | | 2.1 | 6.9 | 6.5 | 186 | 82 | 104 | 56 | 136 | 30 | 106 | 78 |
| Great Neck Sewer District | | | | | | | | | | | | | |
| Bayview Avenue Plant | 3-31-48 | 8.0 | 0.75 | 7.0 | 6.6 | 219 | 48 | 171 | 78 | 161 | 10 | 151 | 94 |
| " " " | 5-24-48 | | 0.5 | 6.9 | 6.6 | 212 | 197 | 15 | 7 | | | | |
| " " " | 7-13-48 | | 0.89 | 6.7 | 6.5 | 195 | 54 | 141 | 72 | 138 | 12 | 126 | 91 |
| " " " | 9-20-48 | | 0.77 | 6.8 | 6.6 | 250 | 73 | 177 | 71 | 192 | 18 | 174 | 91 |
| East Shore Road Plant | 4- 5-48 | 3.5 | 2.2 | 6.7 | 6.4 | 94 | 45 | 49 | 52 | 58 | 17 | 41 | 71 |
| " " " " | 5-24-48 | | 2.0 | 6.7 | 6.4 | 134 | 51 | 83 | 62 | 100 | 20 | 80 | 80 |
| " " " " | 7-26-48 | | 0.49 | 6.7 | 6.4 | 157 | 52 | 105 | 67 | 123 | 26 | 97 | 79 |
| " " " " | 9-27-48 | | | 7.2 | 6.5 | 198 | 43 | 155 | 78 | 144 | 18 | 126 | 88 |
| Great Neck Village | 5-13-48 | 6.17 | 0.69 | 7.2 | 7.3 | 196 | 109 | 87 | 44 | 143 | 65 | 78 | 55 |
| " " " | 9-27-48 | | 0.48 | 7.2 | 7.0 | 265 | 21 | 244 | 92 | 182 | 4 | 178 | 98 |

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Effluent ppm | Calculated 5 day 20°C. Influent ppm | Effluent ppm | Removal ppm | % | Residual Chlorine Avg. ppm | Min. ppm | Coliform Organism M.P.N. per ml. | % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| NASSAU COUNTY, NEW YORK -Cont. | | | | | | | | | | |
| Glen Cove | 286 | 231 | 243 | 197 | 46 | 19 | 0.4 | 0 | 75+ | 100 |
| " " | 265 | 206 | 225 | 175 | 50 | 22 | 1.0 | 0.5 | 0.42 | 0 |
| " " | 251 | 187 | 213 | 159 | 56 | 26 | 1.3 | 0.1 | 8.14 | 50 |
| " " | 245 | 167 | 208 | 142 | 66 | 32 | 1.3+ | 0.6 | 43 | 75 |
| Great Neck Sewer District | | | | | | | | | | |
| Bayview Avenue Plant | 217 | 120 | 184 | 102 | 82 | 45 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " " | 320 | 244 | 260 | 198 | 62 | 24 | 1.5+ | 0.1 | -0.3 | 0 |
| " " " | 235 | 112 | 200 | 95 | 105 | 53 | 1.8+ | 0.6 | -0.3 | 0 |
| " " " | 296 | 184 | 251 | 157 | 94 | 37 | 1.4+ | 0.3 | 0.45 | 0 |
| East Shore Road Plant | 115 | 61 | 98 | 52 | 46 | 47 | 0.2 | 0 | 137+ | 100 |
| " " " " | 165 | 104 | 134 | 85 | 49 | 37 | 0.8 | 0.2 | 1.48 | 25 |
| " " " " | 164 | 82 | 140 | 69 | 71 | 51 | 0.8 | 0 | 7.7 | 75 |
| " " " " | 247 | 60 | 210 | 51 | 159 | 76 | 1.4 | 0.8 | 1.9 | 50 |
| Great Neck Village | 205 | 150 | 174 | 127 | 47 | 27 | | | | |
| " " " | 398 | 97 | 338 | 82 | 256 | 76 | 2.0+ | 1.8 | -0.3 | 0 |

- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| NASSAU COUNTY, NEW YORK Cont. | | | | | | | | | | | | | |
| Port Washington District (a) | 3-22-48 | 10.51 | | 7.4 | 6.5 | 333 | 104 | 229 | 69 | 220 | 30 | 190 | 86 |
| " " " | 5-17-48 | | 1.4 | 7.1 | 6.5 | 317 | 104 | 213 | 67 | 226 | 43 | 183 | 81 |
| " " " | 7-22-48 | | 1.5 | 6.9 | 6.4 | 287 | 79 | 208 | 72 | 221 | 24 | 197 | 89 |
| " " " | 9-30-48 | | 1.2 | 7.0 | 6.4 | 292 | 73 | 219 | 75 | 209 | 20 | 189 | 90 |
| Rockville Centre | 4-13-48 | 18.6 | 4.0 | 6.5 | 6.7 | 259 | 72 | 187 | 72 | 197 | 42 | 155 | 79 |
| " " | 5-25-48 | | 3.5 | 6.5 | 6.7 | 426 | 42 | 384 | 90 | 334 | 23 | 311 | 93 |
| " " | 7-27-48 | | 3.8 | 6.2 | 6.5 | 123 | 129 | Neg | Neg | 78 | 98 | Neg | Neg |
| " " | 10- 6-48 | | 3.2 | 6.4 | 6.7 | 173 | 58 | 115 | 66 | 106 | 30 | 76 | 72 |
| Roslyn | 4- 6-48 | 0.97 | 0.12 | 6.7 | 6.7 | 124 | 19 | 105 | 85 | 85 | 4 | 81 | 95 |
| " | 6- 1-48 | | 0.1 | 6.5 | 6.6 | 80 | 21 | 59 | 74 | 50 | 7 | 43 | 86 |
| " | 8- 9-48 | | 0.18 | 6.5 | 6.6 | 166 | 31 | 135 | 81 | 123 | 14 | 109 | 89 |
| " | 10- 9-48 | | 0.17 | 6.8 | 6.8 | 142 | 39 | 103 | 73 | 102 | 15 | 87 | 85 |
| Sea Cliff Long Island Lighting Co. | 10- 7-48 | 0.14 | | | 7.1 | | | | | | | | |
| West Long Beach District | 4-15-48 | 3.5 # | 0.32 | 7.2 | 6.7 | 37 | 20 | 17 | 46 | 20 | 3 | 17 | 85 |
| " " " " | 6-10-48 | | 1.0 | 7.3 | 6.9 | 83 | 47 | 36 | 43 | 47 | 8 | 39 | 82 |
| " " " " | 8- 9-48 | | 1.0 | 7.2 | 6.7 | 275 | 64 | 211 | 77 | 214 | 6 | 208 | 97 |
| " " " " | 10-21-48 | | | 7.2 | 6.8 | 40 | 26 | 14 | 35 | 18 | 4 | 14 | 78 |

(a) Subject to reinterpretation to reflect solids pumped from chlorine contact chamber.

\# Estimated Summer Population

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Biochemical Oxygen Demand 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| NASSAU COUNTY, NEW YORK Cont. | | | | | | | | | | |
| Port Washington District (a) | 404 | 132 | 344 | 112 | 232 | 67 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " " | 654+ | 201 | 556+ | 171 | | | 1.0+ | 0 | 74+ | 50 |
| " " " | 333 | 106 | 284 | 90 | 194 | 68 | 1.9+ | 1.0 | 0.6 | 25 |
| " " " | 350 | 142 | 298 | 120 | 178 | 60 | 0.8 | 0 | 60+ | 25 |
| Rockville Centre | 220 | 61 | 187 | 52 | 135 | 72 | 1.7+ | 1.0 | 58.4 | 100 |
| " " | 330 | 18 | 281 | 15 | 266 | 95 | 2.0+ | 1.5 | -0.3 | 0 |
| " " | 146 | 65 | 124 | 55 | 69 | 56 | 1.9+ | 0.7 | 0.6 | 25 |
| " " | 206 | 69 | 176 | 59 | 117 | 66 | 2.0+ | 2.0+ | -0.3 | 0 |
| Roslyn | 152 | 37 | 129 | 31 | 98 | 76 | 1.1 | 0.4 | -0.3 | 0 |
| " | 195 | 52 | 158 | 42 | 116 | 73 | 2.0+ | 2.0+ | -0.3 | 0 |
| " | 252 | 14 | 214 | 12 | 202 | 94 | 1.5+ | 0.3 | 1.06 | 25 |
| " | 227 | 36 | 193 | 31 | 162 | 84 | 1.1+ | 0.2 | 7.3 | 50 |
| Sea Cliff Long Island Lighting Co. | | | | | | | 0 | 0 | 240+ | 100 |
| West Long Beach District | 57 | 18 | 49 | 15 | 34 | 69 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " " " | 83 | 48 | 71 | 41 | 30 | 42 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " " " | 318 | 198 | 270 | 168 | 102 | 38 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " " " | 48 | 14 | 41 | 12 | 29 | 71 | 2.0+ | 2.0+ | -0.3 | 0 |

(a) Subject to reinterpretation to reflect solids pumped from chlorine contact chamber.

\- Less than

(PART 1.)

| Plant Location | Date Visited | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| NASSAU COUNTY, NEW YORK Cont. | | | | | | | | | | | | | |
| Hempstead | | | | | | | | | | | | | |
| Green Acres Plant | 4-27-48 | 1.0 | 0.16 | 6.5 | 6.4 | 46 | 33 | 13 | 28 | 18 | 7 | 11 | 61 |
| " " " | 6-21-48 | | 0.27 | 6.4 | 6.2 | 88 | 24 | 64 | 73 | 65 | 2 | 63 | 97 |
| " " " | 8-23-48 | | 0.14 | 6.6 | 6.1 | 119 | 24 | 95 | 80 | 87 | 4 | 83 | 95 |
| Lawrence | 5- 3-48 | 4.5 | 0.5 x | 6.5 | 6.2 | 105 | 56 | 49 | 47 | 57 | 15 | 42 | 74 |
| Long Beach | | | | | | | | | | | | | |
| Lido Beach Plant | 4-15-48 | 7.0 | 0.26 | 7.2 | 6.7 | 82 | 21 | 61 | 74 | 41 | 2 | 39 | 95 |
| " " " | 6-16-48 | | 0.30 | 7.1 | 6.7 | 88 | 21 | 67 | 76 | 45 | 3 | 42 | 93 |
| " " " | 8-18-48 | | 0.98 | 7.0 | 6.7 | 127 | 43 | 84 | 66 | 89 | 15 | 74 | 83 |
| New York Avenue Plant | 4-27-48 | 50.0# | 3.7 | 7.3 | 6.9 | 121 | 72 | 49 | 40 | 72 | 32 | 40 | 56 |
| " " " " | 6-24-48 | | | 7.1 | 6.7 | 108 | 74 | 34 | 31 | 77 | 35 | 42 | 55 |
| " " " " | 8-22-48 | | | 7.1 | 6.6 | 143 | 107 | 36 | 25 | 83 | 43 | 40 | 48 |
| Manor Haven - Grumman No. 5 Plant | * | | | | | | | | | | | | |
| Oyster Bay | 4-19-48 | 3.0 | 1.36 | 6.6 | 6.3 | 106 | 50 | 56 | 53 | 71 | 12 | 59 | 83 |
| " " | 6- 9-48 | | 1.44 | 6.5 | 6.2 | 104 | 46 | 58 | 56 | 66 | 15 | 51 | 77 |
| " " | 8-11-48 | | 1.47 | 6.3 | 6.2 | 111 | 38 | 73 | 66 | 78 | 12 | 66 | 85 |
| " " | 10-20-48 | | | 6.7 | 6.2 | 105 | 41 | 64 | 61 | 71 | 13 | 58 | 82 |

* No Investigation Made
\# Estimated Summer Population
x Estimated Average Flow

(PART 2.)

| Plant ocation | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| NASSAU COUNTY, NEW YORK Cont. | | | | | | | | | | |
| Hempstead | | | | | | | | | | |
| Green Acres Plant | 112 | 64 | 95 | 54 | 41 | 43 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " " | 150 | 48 | 128 | 41 | 87 | 68 | 0.9 | 0.2 | 17.5 | 50 |
| " " " | 174 | 47 | 148 | 40 | 108 | 73 | 1.7+ | 1.2 | -0.3 | 0 |
| Lawrence | 131 | 93 | 111 | 79 | 32 | 29 | 2.0+ | 2.0+ | -0.3 | 0 |
| Long Beach | | | | | | | | | | |
| Lido Beach Plant | 142 | 43 | 121 | 37 | 84 | 69 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " " | 196 | 35 | 167 | 30 | 137 | 82 | 1.6+ | 0.8 | -0.3 | 0 |
| " " " | 200 | 148 | 170 | 126 | 44 | 26 | 0.6 | 0.1 | -0.3 | 0 |
| New York Avenue Plant | 137 | 80 | 117 | 68 | 49 | 42 | 1.6+ | 0.4 | 7.2 | 75 |
| " " " " | 129 | 111 | 110 | 95 | 15 | 14 | 2.0+ | 1.9 | -0.3 | 0 |
| " " " " | 199 | 258 | 169 | 219 | Neg | Neg | 2.0+ | 2.0+ | -0.3 | 0 |
| Manor Haven - Grumman No. 5 Plant * | | | | | | | | | | |
| Oyster Bay | 150 | 120 | 127 | 102 | 25 | 20 | 1.6+ | 1.0 | -0.3 | 0 |
| " " | 110 | 57 | 93 | 49 | 44 | 47 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " | 139 | 61 | 118 | 51 | 67 | 57 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " | 190 | 76 | 162 | 65 | 97 | 60 | 2.0+ | 1.9 | -0.3 | 0 |

* No Investigation Made
\- Less than

(PART 1.)

| Plant Location | Date Visited | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| NASSAU COUNTY, N. Y. | | | | | | | | | | | | | |
| Aircraft Service Corp. | * | | | | | | | | | | | | |
| Belgrave Sewer District | 4-14-49 | 12.0 | 2.1 | 7.1 | 6.5 | 205 | 74 | 131 | 64 | 145 | 22 | 123 | 85 |
| " " " | 5-17-49 | | 2.0 | 6.9 | 6.4 | 171 | 46 | 125 | 73 | 129 | 10 | 119 | 92 |
| " " " | 8- 1-49 | | 1.2 | 6.9 | 6.5 | 266 | 46 | 220 | 83 | 203 | 8 | 195 | 96 |
| Cedarhurst | 3-22-49 | 5.46 | 2.0 | 7.0 | 6.6 | 176 | 64 | 112 | 64 | 122 | 9 | 113 | 93 |
| " | 5-25-49 | | 2.2 | 6.9 | 6.6 | 181 | 64 | 117 | 65 | 114 | 9 | 105 | 92 |
| " | 8-10-49 | | 2.2 | 6.8 | 6.4 | 160 | 59 | 101 | 63 | 113 | 12 | 101 | 89 |
| Freeport | 4-12-49 | 11.0 | 2.2 | 6.7 | 6.3 | 197 | 71 | 126 | 64 | 127 | 9 | 118 | 93 |
| " | 6- 1-49 | | 2.1 | 6.8 | 6.3 | 175 | 56 | 119 | 68 | 122 | 14 | 108 | 89 |
| " | 8-25-49 | | 2.3 | 6.8 | 6.3 | 173 | 53 | 120 | 69 | 118 | 9 | 109 | 92 |
| Glen Cove | 4-18-49 | 12.42 | 2.44 | 7.2 | 7.0 | 179 | 84 | 95 | 53 | 134 | 32 | 102 | 76 |
| " " | 6-13-49 | | 2.4 | 7.0 | 6.5 | 208 | 135 | 73 | 35 | 159 | 78 | 81 | 51 |
| " " | 9-20-49 | | 2.3 | 6.8 | 5.3 | 204 | 103 | 101 | 50 | 177 | 77 | 100 | 56 |
| Glen Cove Morgan Island Estates | 4-26-49 | 0.03 | | 7.0 | 6.8 | 23 | 6 | 17 | 74 | 18 | 1 | 17 | 94 |
| Great Neck Sewer District | | | | | | | | | | | | | |
| Bayview Avenue Plant | 3-28-49 | 8.0 | 0.8 | 7.1 | 6.7 | 261 | 57 | 204 | 78 | 195 | 15 | 180 | 92 |
| " " " | 5-24-49 | | 0.8 | 6.9 | 7.3 | 217 | 55 | 162 | 75 | 174 | 12 | 162 | 93 |
| " " " | 8-18-49 | | 0.8 | 6.8 | 6.4 | 209 | 52 | 157 | 75 | 175 | 14 | 161 | 92 |

* Industrial, Operations Discontinued

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Effluent ppm | Calculated 5 day 20°C. Influent ppm | Effluent ppm | Removal ppm | % | Residual Chlorine Avg. ppm | Min. ppm | Coliform Organism M.P.N. per ml. | % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| NASSAU COUNTY, N. Y. | | | | | | | | | | |
| Aircraft Service Corp. | * | | | | | | | | | |
| Belgrave Sewer District | 222 | 120 | 189 | 102 | 87 | 46 | 1.6+ | 0.4 | -0.3 | 0 |
| " " " | 215 | 118 | 183 | 100 | 83 | 45 | 1.8+ | 0.7 | -0.3 | 0 |
| " " " | 276 | 115 | 235 | 98 | 137 | 58 | 1.3 | 0 | 61+ | 50 |
| Cedarhurst | 250 | 167 | 213 | 142 | 71 | 33 | 2.0+ | 2.0 | -0.3 | 0 |
| " | | | | | | | 1.5 | 0.6 | -0.3 | 0 |
| " | 244 | 171 | 208 | 146 | 62 | 30 | 2.0+ | 1.9 | -0.3 | 0 |
| Freeport | 251 | 113 | 214 | 96 | 118 | 55 | 0.8 | 0.4 | -0.3 | 0 |
| " | 232 | 99 | 197 | 84 | 113 | 57 | 1.1 | 0.6 | -0.3 | 0 |
| " | 262 | 107 | 223 | 91 | 132 | 59 | 1.5 | 0.6 | -0.3 | 0 |
| Glen Cove | 264 | 196 | 224 | 166 | 58 | 26 | 0.7 | 0 | 138+ | 100 |
| " " | 263 | 231 | 224 | 196 | 28 | 13 | 1.0 | 0.1 | 73+ | 75 |
| " " | 269 | 201 | 229 | 171 | 58 | 25 | 1.5 | 0.6 | 23 | 50 |
| Glen Cove Morgan Island Estates | 16 | 7 | 14 | 6 | 8 | 57 | 2.0+ | 2.0+ | -0.3 | 0 |
| Great Neck Sewer District | | | | | | | | | | |
| Bayview Avenue Plant | 321 | 148 | 273 | 126 | 147 | 54 | 1.7+ | 0.4 | -0.3 | 0 |
| " " " | | | | | | | 1.6 | 0.5 | -0.3 | 0 |
| " " " | 245 | 125 | 208 | 106 | 102 | 49 | 1.4+ | 0 | 11.5 | 25 |

* Industrial, Operations Discontinued
\- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent | Effluent | Influent | Effluent | Removal | | Influent | Effluent | Removal | |
| | | | | Avg. | Avg. | ppm | ppm | ppm | % | ppm | ppm | ppm | % |
| NASSAU COUNTY, N. Y. cont. | | | | | | | | | | | | | |
| Great Neck Sewer District | | | | | | | | | | | | | |
| East Shore Road Plant | 3-14-49 | 3.5 | 0.61 | 6.7 | 6.5 | 150 | 61 | 89 | 59 | 105 | 21 | 84 | 80 |
| " " " " | 5-16-49 | | 0.6 | 6.7 | 6.6 | 148 | 54 | 94 | 64 | 108 | 21 | 87 | 81 |
| " " " " | 7-25-49 | | 0.4 | 6.7 | 6.5 | 212 | 49 | 163 | 77 | 174 | 14 | 160 | 92 |
| " " " " | 10-17-49 | | 0.4 | 6.7 | 5.3 | 158 | 42 | 116 | 73 | 127 | 21 | 106 | 83 |
| Great Neck Village | 4-21-49 | 6.17 | 0.64 | 7.3 | 6.9 | 230 | 29 | 201 | 87 | 134 | 7 | 127 | 95 |
| " " " | 7-18-49 | | 0.74 | 7.2 | 7.0 | 337 | 32 | 305 | 91 | 228 | 6 | 222 | 97 |
| " " " | 10- 4-49 | | 0.62 | 7.1 | 6.9 | 238 | 6 | 232 | 97 | 171 | 3 | 168 | 98 |
| Hempstead | | | | | | | | | | | | | |
| Green Acres Plant | 5- 9-49 | 1.0 | 0.13 | 6.7 | 6.3 | 77 | 33 | 44 | 57 | 46 | 12 | 34 | 74 |
| " " " | 7-21-49 | | | 6.8 | 6.4 | | | | | | | | |
| Lawrence | 3-21-49 | 4.5 | 0.5 | 6.7 | 6.4 | 173 | 54 | 119 | 69 | 105 | 8 | 97 | 92 |
| " | 5-18-49 | | 0.77 | 6.6 | 6.4 | 136 | 56 | 80 | 59 | 84 | 20 | 64 | 76 |
| " | 8- 8-49 | | 0.67 | 6.6 | 6.2 | 270 | 60 | 210 | 78 | 200 | 10 | 190 | 95 |
| Long Beach | | | | | | | | | | | | | |
| Lido Beach Plant | 4-19-49 | 7.0 | 1.8 | 7.0 | 6.8 | 81 | 28 | 53 | 65 | 43 | 14 | 29 | 67 |
| " " " | 6-15-49 | | | 7.0 | 6.7 | 102 | 39 | 63 | 62 | 62 | 12 | 50 | 81 |
| " " " | 10-17-49 | | | 7.0 | 6.7 | 134 | 36 | 98 | 73 | 107 | 21 | 86 | 80 |
| New York Avenue Plant | 4- 7-49 | #50.0 | | 7.6 | 6.8 | 98 | 62 | 36 | 37 | 55 | 20 | 35 | 64 |
| " " " " | 6-28-49 | | 5.0 | 7.4 | 6.7 | 242 | 113 | 129 | 53 | 194 | 58 | 136 | 70 |
| " " " " | 9-27-49 | | 4.0 | 7.7 | 7.0 | 138 | 87 | 51 | 37 | 89 | 41 | 48 | 54 |

# Estimated Summer Population

(Part 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Biochemical Oxygen Demand 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| NASSAU COUNTY, N.Y. cont. | | | | | | | | | | |
| Great Neck Sewer District | | | | | | | | | | |
| East Shore Road Plant | 170 | 94 | 145 | 80 | 65 | 45 | 1.1 | 0.4 | 12.4 | 75 |
| " " " " | 237 | 104 | 202 | 88 | 114 | 56 | 0.6 | Trace | 96 | 100 |
| " " " " | 203 | 89 | 172 | 76 | 96 | 56 | 1.2 | 0.4 | 9.8 | 100 |
| " " " " | 214 | 99 | 182 | 85 | 97 | 53 | 1.6+ | 0.1 | 40 | 25 |
| Great Neck Village | 283 | 28 | 240 | 24 | 216 | 90 | 1.8+ | 1.5 | -0.3 | 0 |
| " " " | 355 | 22 | 302 | 18 | 284 | 94 | 1.6 | 0.8 | -0.3 | 0 |
| " " " | 333 | 13 | 283 | 11 | 272 | 96 | 2.0+ | 2.0 | -0.3 | 0 |
| Hempstead | | | | | | | | | | |
| Green Acres Plant | 183 | 60 | 156 | 51 | 105 | 67 | 1.9+ | 1.3 | -0.3 | 0 |
| " " " | | | | | | | Trace | Trace | 240+ | 100 |
| Lawrence | 255 | 139 | 217 | 118 | 99 | 46 | 2.0+ | 2.0+ | -0.3 | 0 |
| " | | | | | | | 2.0+ | 2.0+ | -0.3 | 0 |
| " | 324 | 186 | 276 | 158 | 118 | 43 | 2.0+ | 2.0+ | -0.3 | 0 |
| Long Beach | | | | | | | | | | |
| Lido Beach Plant | 148 | 65 | 126 | 56 | 70 | 56 | 1.9+ | 1.5 | -0.3 | 0 |
| " " " | 139 | 90 | 118 | 77 | 41 | 35 | 1.3+ | 0.6 | -0.3 | 0 |
| " " | 180 | 92 | 153 | 78 | 75 | 49 | 2.0+ | 1.9 | -0.3 | 0 |
| New York Avenue Plant | 147 | 127 | 125 | 108 | 17 | 14 | 1.5+ | -0.1 | -0.3 | 0 |
| " " " " | 201 | 158 | 171 | 135 | 36 | 21 | 2.0+ | 2.0+ | -0.47 | 0 |
| " " " " | 191 | 159 | 163 | 135 | 28 | 17 | 1.5 | 0.8 | -0.3 | 0 |

# Estimated Summer Population
- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent | Effluent | Influent | Effluent | Removal | | Influent | Effluent | Removal | |
| | | | | Avg. | Avg. | ppm | ppm | ppm | % | ppm | ppm | ppm | % |
| NASSAU COUNTY, N.Y.-cont. | | | | | | | | | | | | | |
| Manor Haven | | | | | | | | | | | | | |
| Grumman #5 Plant | * | | | | | | | | | | | | |
| Oyster Bay | 4-18-49 | 3.0 | 1.57 | 6.5 | 6.3 | 102 | 53 | 49 | 48 | 78 | 25 | 53 | 68 |
| " " | 6-14-49 | | I.45 | 6.8 | 6.3 | 125 | 49 | 76 | 61 | 96 | 19 | 77 | 80 |
| " " | 9- 7-49 | | 1.5 | 6.6 | 6.4 | 108 | 31 | 77 | 71 | 65 | 12 | 53 | 82 |
| Port Washington District (a) | 4- 5-49 | 10.51 | 1.4 | 7.3 | 6.5 | 309 | 74 | 235 | 76 | 237 | 24 | 213 | 90 |
| " " " | 6- 6-49 | | 1.5 | 7.0 | 6.4 | 316 | 92 | 224 | 71 | 231 | 28 | 203 | 88 |
| " " " | 8-31-49 | | 1.4 | 6.8 | 6.4 | 244 | 70 | 174 | 71 | 179 | 19 | 160 | 89 |
| Rockville Center | 3-29-49 | 18.61 | 4.0 | 6.7 | 6.7 | 265 | 53 | 212 | 80 | 217 | 27 | 190 | 88 |
| " " | 6- 8-49 | | 3.4 | 6.6 | 6.8 | 137 | 61 | 76 | 55 | 96 | 46 | 50 | 52 |
| " " | 8-17-49 | | 3.2 | 6.1 | 6.7 | 204 | 20 | 184 | 90 | 150 | 11 | 139 | 93 |
| Roslyn | 3-30-49 | 0.97 | 0.23 | 6.6 | 6.8 | 105 | 23 | 82 | 78 | 65 | 6 | 59 | 91 |
| " | 6- 9-49 | | 0.21 | 6.6 | 6.8 | 144 | 33 | 111 | 77 | 105 | 17 | 88 | 84 |
| " | 9-19-49 | | 0.23 | 6.5 | 6.7 | 160 | 31 | 129 | 81 | 129 | 21 | 108 | 84 |
| Sea Cliff | | | | | | | | | | | | | |
| Long Island Lighting Co. | | 0.14 | | | | | | | | | | | |
| Tank No. 1 | 9-28-49 | | | | | | | | | | | | |
| Tank No. 2 | 9-28-49 | | | | | | | | | | | | |

* Industrial, Operations Discontinued
(a) Subject to reinterpretation to reflect solids pumped from chlorine contact chamber.

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Effluent ppm | Calculated 5 day 20°C. Influent ppm | Effluent ppm | Removal ppm | % | Residual Chlorine Avg. ppm | Min. ppm | Coliform Organism M.P.N. per ml. | % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| NASSAU COUNTY, N.Y. | | | | | | | | | | |
| Manor Haven | | | | | | | | | | |
| Grumman #5 Plant * | | | | | | | | | | |
| Oyster Bay | 157 | 122 | 134 | 104 | 30 | 22 | 1.7+ | 0.1 | 3.6 | 25 |
| " " | 133 | 98 | 114 | 84 | 30 | 26 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " | 165 | 99 | 141 | 84 | 57 | 40 | 2.0+ | 2.0+ | -0.3 | 0 |
| Port Washington District (a) | 385 | 169 | 327 | 144 | 183 | 56 | 1.8+ | 1.0 | -0.3 | 0 |
| " " " | 425 | 203 | 361 | 173 | 188 | 52 | 1.3+ | 0.1 | -0.3 | 0 |
| " " " | 329 | 151 | 280 | 129 | 151 | 54 | 1.0 | 0.1 | 60.2 | 25 |
| Rockville Center | 217 | 38 | 184 | 32 | 152 | 83 | 2.0 | 1.5 | -0.52 | 25 |
| " " | 168 | 76 | 143 | 65 | 78 | 55 | 1.7 | 1.2 | 0.88 | 25 |
| " " | 194 | 33 | 165 | 28 | 137 | 83 | 2.0+ | 2.0+ | -0.3 | 0 |
| Roslyn | 177 | 57 | 151 | 48 | 103 | 68 | 2.0+ | 2.0 | -0.3 | 0 |
| " | 207 | 28 | 176 | 24 | 152 | 86 | 2.0+ | 2.0 | -0.3 | 0 |
| " | 206 | 26 | 175 | 22 | 153 | 87 | 2.0+ | 2.0 | 0.36 | 0 |
| Sea Cliff | | | | | | | | | | |
| Long Island Lighting Co. | | | | | | | | | | |
| Tank No. 1 | | | | | | | 2.0+ | 2.0+ | -0.3 | 0 |
| Tank No. 2 | | | | | | | 2.0+ | 2.0+ | -0.3 | 0 |

* Industrial, Operations Discontinued

(a) Subject to reinterpretation to reflect solids pumped from chlorine contact chamber.

\- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent | Effluent | Influent | Effluent | Removal | | Influent | Effluent | Removal | |
| | | | | Avg. | Avg. | ppm | ppm | ppm | % | ppm | ppm | ppm | % |
| NASSAU COUNTY, N.Y. - cont. | | | | | | | | | | | | | |
| West Long Beach District | 4-26-49 | # 3.5 | 1.0 | 7.1 | 6.8 | 88 | 32 | 56 | 64 | 67 | 5 | 62 | 93 |
| " " " " | 6-23-49 | | 0.7 | 7.1 | 6.7 | 224 | 56 | 168 | 75 | 169 | 14 | 155 | 92 |
| " " " " | 9-26-49 | | 0.33 | 7.0 | 6.7 | 239 | 41 | 198 | 83 | 202 | 15 | 187 | 93 |

# Estimated Summer Population

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Biochemical Oxygen Demand 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| NASSAU COUNTY, N.Y. - cont. | | | | | | | | | | |
| West Long Beach District | 105 | 58 | 89 | 49 | 40 | 45 | 1.5 | 1.0 | -0.3 | 0 |
| " " " " | 259 | 155 | 221 | 132 | 89 | 40 | 1.7+ | 0.2 | 60+ | 25 |
| " " " " | 290 | 124 | 247 | 105 | 142 | 57 | 0.6 | 0.2 | -0.69 | 25 |

- Less than

(PART 1.)

| Plant Location | Date Visited | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| NEW YORK COUNTY, NEW YORK | | | | | | | | | | | | | |
| Canal Street | * | 37.85 | 8.0 x | | | | | | | | | | |
| Dyckman Street | * | 38.95 | 7.0 x | | | | | | | | | | |
| U.S. Army and Federal Reservation Bedloes Island | * | | | | | | | | | | | | |
| Wards Island | 4- 5-48 | 1342 | 232 | 7.4 | 6.8 | 265 | 21 | 244 | 92 | 191 | 17 | 174 | 91 |
| " " | 5-27-48 | | 268 | 7.1 | 6.9 | 223 | 37 | 186 | 83 | 155 | 27 | 128 | 83 |
| " " | 8- 5-48 | | 223 | 7.2 | 6.8 | 190 | 23 | 169 | 89 | 121 | 10 | 111 | 92 |
| " " | 10-21-48 | | 262 | 7.3 | 6.8 | 241 | 6 | 235 | 98 | 166 | 3 | 163 | 98 |

x Estimated Average Flow
* No Investigation Made

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NEW YORK COUNTY, NEW YORK | | | | | | | | | | | |
| Canal Street * | | | | | | | | | | | |
| Dyckman Street * | | | | | | | | | | | |
| U.S. Army and Federal Reservation Bedloes Island * | | | | | | | | | | | |
| Wards Island | 224 | 11 | 190 | 9 | 181 | 95 | 0 | 0 | 240+ | 100 | |
| " " | 237 | 32 | 201 | 27 | 174 | 87 | 0 | 0 | 240+ | 100 | |
| " " | 204 | 20 | 174 | 17 | 157 | 90 | 0 | 0 | 240+ | 100 | ø |
| " " | 280 | 11 | 239 | 10 | 229 | 96 | 0 | 0 | 240+ | 100 | |

ø Class "B" Area. Chlorination Not Required
* No Investigation Made

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | % | Influent ppm | Effluent ppm | Removal ppm | % |
| BRONX COUNTY, NEW YORK | | | | | | | | | | | | | |
| Hart-City Island | 6-14-48 | 4.85 | 1.3 | 6.8 | 6.8 | 76 | 46 | 30 | 39 | 36 | 20 | 16 | 44 |
| " " " | 8-25-48 | | 0.8 | 6.5 | 6.8 | 127 | 37 | 90 | 71 | 85 | 9 | 76 | 89 |
| Orchard Beach | 8-21-48 | 60.0 # | | 7.0 | 6.3 | 50 | 35 | 15 | 30 | 20 | 5 | 15 | 75 |
| KINGS COUNTY, NEW YORK | | | | | | | | | | | | | |
| 26th Ward | 4-22-48 | 394.0 | 40 | 7.5 | 7.5 | 186 | 80 | 106 | 57 | 133 | 26 | 107 | 80 |
| " " | 6-17-48 | | 41 | 6.8 | 6.9 | 127 | 48 | 79 | 62 | 66 | 10 | 56 | 85 |
| " " | 8-16-48 | | 42 | 7.0 | 7.1 | 124 | 72 | 52 | 42 | 59 | 20 | 39 | 66 |
| " " | 9-22-48 | | 40 | 7.0 | 7.1 | | | | | | | | |
| U.S. Navy | | | | | | | | | | | | | |
| Floyd Bennett Field | 4-29-48 ** | | | | | | | | | | | | |
| " " " | 7-15-48 | | | | | | | | | | | | |
| " " " | 9-22-48 | | | | | | | | | | | | |

\# Estimated Summer (Sunday) Population
** Results Omitted - Security Regulation

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| BRONX COUNTY, NEW YORK | | | | | | | | | | |
| Hart-City Island | 98 | 69 | 83 | 58 | 25 | 30 | 1.2+ | 0.4 | -0.3 | 0 |
| " " " | 144 | 101 | 123 | 86 | 37 | 30 | 0.3 | 0 | 60+ | 25 |
| Orchard Beach | 52 | | 47 | | | | 2.0+ | 2.0+ | -0.3 | 0 |
| KING COUNTY, NEW YORK | | | | | | | | | | |
| 26th Ward | 264 | 173 | 224 | 147 | 77 | 34 | 0 | 0 | 240+ | 100 |
| " " | 218 | 168 | 185 | 143 | 42 | 23 | 0.3 | 0.2 | 2.15 | 50 |
| " " | 270 | 215 | 230 | 183 | 47 | 20 | 0.1 | 0 | 194+ | 100 |
| " " | | | | | | | 0.1 | 0.1 | 240+ | 100 |
| U.S. Navy | | | | | | | | | | |
| Floyd Bennett Field ** | | | | | | | | | | |
| " " " | | | | | | | | | | |
| " " " | | | | | | | | | | |

\- Less than
** Results Omitted - Security Regulations

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH Influent Avg. | pH Effluent Avg. | Total Suspended Solids Influent ppm | Total Suspended Solids Effluent ppm | Total Suspended Solids Removal ppm | Total Suspended Solids Removal % | Settleable Solids Influent ppm | Settleable Solids Effluent ppm | Settleable Solids Removal ppm | Settleable Solids Removal % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QUEENS COUNTY, NEW YORK | | | | | | | | | | | | | |
| Bayside Gables | 7- 6-48 | | | 6.0 | 6.0 | | | | | | | | |
| " " | 7-28-48 | | | 6.1 | 6.0 | | | | | | | | |
| Bowery Bay | 3-25-48 | 274 | 43 | 7.1 | 7.2 | 163 | 32 | 131 | 80 | 112 | 12 | 100 | 89 |
| " " | 5-27-48 | | 47 | 7.2 | 7.2 | 138 | 46 | 92 | 67 | 93 | 11 | 82 | 88 |
| " " | 7-29-48 | | 44 | 7.2 | 7.3 | 150 | 9 | 141 | 94 | 117 | 6 | 111 | 95 |
| " " | 10-18-48 | | | 7.1 | 7.1 | 226 | 85 | 141 | 62 | 167 | 31 | 136 | 81 |
| Coney Island | 4-21-48 | 441.5 | 57 | 7.3 | 7.4 | 207 | 53 | 154 | 74 | 156 | 16 | 140 | 90 |
| " " | 6- 7-48 | | | 7.2 | 7.3 | 341 | 71 | 270 | 79 | 269 | 27 | 242 | 90 |
| " " | 8- 3-48 | | 82 | 6.8 | 6.7 | 189 | 43 | 146 | 77 | 154 | 14 | 140 | 91 |
| " " | 10- 4-48 | | 67 | 7.3 | 7.3 | 159 | 61 | 98 | 62 | 95 | 13 | 82 | 86 |
| Hammels | 6-30-48 | 23.0 | 5.3 x | 7.1 | 6.8 | | | | | | | | |
| " | 9-22-48 | | | 6.8 | 6.7 | | | | | | | | |
| Jamaica | 4-21-48 | 347.0 | 44 | 7.3 | 7.1 | 223 | 25 | 198 | 89 | 177 | 11 | 166 | 94 |
| " | 6-17-48 | | 56 | 7.4 | 7.0 | 223 | 16 | 207 | 93 | 176 | 6 | 170 | 97 |
| " | 8-16-48 | | 50 | 7.3 | 7.0 | 272 | 17 | 255 | 94 | 212 | 6 | 206 | 97 |
| " | 9-22-48 | | 42 | 7.6 | 7.0 | | | | | | | | |

x Estimated Average Flow

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| QUEENS COUNTY, NEW YORK | | | | | | | | | | | |
| Bayside Gables | | | | | | | 1.5 | 1.5 | -0.3 | 0 | |
| " " | | | | | | | 0.4 | 0.4 | -0.3 | 0 | |
| Bowery Bay | 239 | 39 | 203 | 33 | 170 | 84 | 0 | 0 | 240+ | 100 | |
| " " | 186 | 60 | 159 | 51 | 108 | 68 | 0 | 0 | 240+ | 100 | |
| " " | 211 | 7 | 179 | 6 | 173 | 97 | 0 | 0 | 240+ | 100 | ϕ |
| " " | 240 | 129 | 204 | 110 | 94 | 46 | 0 | 0 | 240+ | 100 | |
| Coney Island | 199 | 97 | 169 | 82 | 87 | 51 | 0 | 0 | 240+ | 100 | |
| " " | 281 | 99 | 238 | 84 | 154 | 65 | 0 | 0 | 240+ | 100 | |
| " " | 141 | 65 | 120 | 55 | 65 | 54 | 1.1 | 0.5 | 0.3 | 0 | |
| " " | 161 | 89 | 137 | 75 | 62 | 45 | 0 | 0 | 240+ | 100 | |
| Hammels | | | | | | | 0.8 | 0.8 | 24.0 | 100 | |
| " | | | | | | | 0.5 | 0.5 | 92 | 100 | |
| Jamaica | 236 | 49 | 201 | 41 | 160 | 80 | 0 | 0 | 240+ | 100 | |
| " | 263 | 66 | 224 | 56 | 168 | 75 | -0.1 | 0 | 67 | 100 | |
| " | 358 | 19 | 305 | 17 | 288 | 94 | 0.3 | Trace | 182+ | 100 | |
| " | | | | | | | 0.5 | 0.5 | 28 | 100 | |

ϕ Class "B" Area. Chlorination Not Required

\- Less than

| (PART 1.) Plant Location | Date Visited | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| QUEENS COUNTY, NEW YORK -Cont. | | | | | | | | | | | | | |
| Tallmans Island | 4- 7-48 | 113.0 | 21 | 7.3 | 7.1 | 132 | 26 | 106 | 80 | 100 | 19 | 81 | 81 |
| " " | 5- 5-48 | | 23 | 7.1 | 7.1 | 163 | 17 | 146 | 90 | 126 | 13 | 113 | 90 |
| " " | 7- 1-48 | | 26 | 7.0 | 6.8 | 113 | 5 | 108 | 96 | 87 | 2 | 85 | 98 |
| " " | 9- 2-48 | | 22 | 7.1 | 6.7 | 127 | 3 | 124 | 98 | 88 | 2 | 86 | 98 |
| U.S. Army | | | | | | | | | | | | | |
| Fort Tilden | 5-12-48 ** | | | | | | | | | | | | |
| " " | 6-30-48 | | | | | | | | | | | | |
| " " | 8-26-48 | | | | | | | | | | | | |
| Fort Totten | 5- 3-48 ** | | | | | | | | | | | | |
| " " | 7- 6-48 | | | | | | | | | | | | |
| " " | 9- 2-48 | | | | | | | | | | | | |

** Results Omitted - Security Regulation

| (PART 1.) Plant Location | Date Visited | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| QUEENS COUNTY, NEW YORK -Cont. | | | | | | | | | | | | | |
| Tallmans Island | 4- 7-48 | 113.0 | 21 | 7.3 | 7.1 | 132 | 26 | 106 | 80 | 100 | 19 | 81 | 81 |
| " " | 5- 5-48 | | 23 | 7.1 | 7.1 | 163 | 17 | 146 | 90 | 126 | 13 | 113 | 90 |
| " " | 7- 1-48 | | 26 | 7.0 | 6.8 | 113 | 5 | 108 | 96 | 87 | 2 | 85 | 98 |
| " " | 9- 2-48 | | 22 | 7.1 | 6.7 | 127 | 3 | 124 | 98 | 88 | 2 | 86 | 98 |
| U.S. Army | | | | | | | | | | | | | |
| Fort Tilden | 5-12-48 ** | | | | | | | | | | | | |
| " " | 6-30-48 | | | | | | | | | | | | |
| " " | 8-26-48 | | | | | | | | | | | | |
| Fort Totten | 5- 3-48 ** | | | | | | | | | | | | |
| " " | 7- 6-48 | | | | | | | | | | | | |
| " " | 9- 2-48 | | | | | | | | | | | | |

** Results Omitted - Security Regulation

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| RICHMOND COUNTY, NEW YORK | | | | | | | | | | | | | |
| Ass'n For Improvement of The Poor | * | | | | | | | | | | | | |
| Cromwell Avenue | 6- 3-48 | 15.85 | 3.5 | 7.0 | 6.7 | | | | | | | | |
| " " | 8-30-48 | | | 6.8 | 6.7 | | | | | | | | |
| Halloran General Hospital | 4-26-48 | 8.0 | 0.27 | 6.5 | 6.3 | 154 | 52 | 102 | 66 | 105 | 17 | 88 | 84 |
| " " | 6-16-48 | | 0.32 | 6.6 | 6.2 | 137 | 51 | 86 | 63 | 83 | 17 | 66 | 80 |
| " " | 8-17-48 | | 0.26 | 6.7 | 6.3 | 154 | 57 | 97 | 63 | 88 | 22 | 66 | 75 |
| Mount Loretto Home (New Plant) | 8-30-48 | 0.5 | 0.03 x | | 6.8 | | | | | | | | |
| Mount Loretto Home (Old Plant) | * | 1.0 | 0.09 x | | | | | | | | | | |
| Oakwood Beach | 6- 3-48 | 7.05 | | 7.0 | 6.8 | | | | | | | | |
| " " | 8-30-48 | | | 7.0 | 6.8 | | | | | | | | |
| Richmond Memorial Hospital | 8-30-48 | 0.25 | | | 6.6 | | | | | | | | |
| St. Josephs Home | * | | | | | | | | | | | | |

* No Investigation Made
x Estimated Average Flow.

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Biochemical Oxygen Demand 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| RICHMOND COUNTY, NEW YORK | | | | | | | | | | |
| Ass'n For Improvement of the Poor * | | | | | | | | | | |
| Cromwell Avenue | | | | | | | 1.0 | 1.0 | 1.5 | 100 |
| " " | | | | | | | 2.0 | 2.0 | 0.73 | 0 |
| Halloran General Hospital | 301 | 239 | 256 | 203 | 53 | 21 | 0.3 | 0.1 | 55 | 50 |
| " " " | 201 | 171 | 171 | 146 | 25 | 15 | -0.1 | 0 | 240+ | 100 ϕ |
| " " " | 230 | 170 | 195 | 144 | 51 | 26 | 1.2 | 0 | 4.3 | 100 |
| Mount Loretto Home (New Plant) | | | | | | | 2.0+ | 2.0+ | -0.3 | 0 |
| Mount Loretto Home (Old Plant) * | | | | | | | | | | |
| Oakwood Beach | | | | | | | 1.9 | 1.9 | -0.3 | 0 |
| " " | | | | | | | 2.0 | 2.0 | -0.3 | 0 |
| Richmond Memorial Hospital | | | | | | | Trace | Trace | 240+ | 100 |
| St. Josephs Home * | | | | | | | | | | |

\- Less than
* No Investigation Made
ϕ Class "B" Area. Chlorination Not Required

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| BRONX COUNTY, N. Y. | | | | | | | | | | | | | |
| Hart-City Island | 5- 9-49 | 4.85 | 0.3 | 7.1 | 7.1 | 130 | 56 | 74 | 57 | 80 | 24 | 56 | 70 |
| " " " | 7-13-49 | | 0.71 | 6.5 | 6.6 | 68 | 42 | 26 | 38 | 31 | 9 | 22 | 71 |
| " " " | 10-24-49 | | 0.9 | 6.9 | 7.0 | 150 | 76 | 74 | 49 | 107 | 30 | 77 | 72 |
| Orchard Beach | 8-24-49 | 60.0 # | | 6.8 | 6.0 | | | | | | | | |
| KINGS COUNTY, N. Y. | | | | | | | | | | | | | |
| Preferred Oil Company | 9-22-49 | 0.02 | | | 6.6 | | | | | | | | |
| Sea Gate | 7-13-49 | | | 6.8 | 7.1 | 96 | 100 | Neg | Neg | 46 | 58 | Neg | Neg |
| 26th Ward | 4-25-49 | 394.0 | 40 | 7.5 | 7.4 | 207 | 107 | 100 | 48 | 145 | 51 | 94 | 65 |
| " " | 7-11-49 | | 39 | 7.3 | 7.2 | 160 | 90 | 70 | 44 | 81 | 24 | 57 | 70 |
| " " | 11- 3-49 | | 40 | 7.2 | 7.3 | 160 | 92 | 68 | 43 | 109 | 47 | 62 | 57 |
| U.S. Navy | | | | | | | | | | | | | |
| Floyd Bennett Field | 5-23-49 | ** | | | | | | | | | | | |
| " " " | 7-14-49 | | | | | | | | | | | | |
| " " " | 10-19-49 | | | | | | | | | | | | |
| NEW YORK COUNTY, N. Y. | | | | | | | | | | | | | |
| Canal Street | * | 37.85 | 8.0 x | | | | | | | | | | |
| Dyckman Street | * | 38.95 | 7.0 x | | | | | | | | | | |

** Results Omitted - Security Regulations
# Estimated Summer (Sunday) population
* No Investigation made

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| BRONX COUNTY, N. Y. | | | | | | | | | | |
| Hart-City Island | 173 | 96 | 147 | 81 | 66 | 45 | 0 | 0 | 240+ | 100 |
| " " " | 103 | 61 | 87 | 52 | 35 | 40 | 0.5 | 0.1 | 3.4 | 50 |
| " " " | 199 | 92 | 170 | 78 | 92 | 54 | | | | |
| Orchard Beach | | | | | | | 2.0+ | 2.0+ | -0.3 | 0 |
| KINGS COUNTY, N. Y. | | | | | | | | | | |
| Preferred Oil Company | | | | | | | 0 | 0 | 240+ | 100 |
| Sea Gate | 130 | 122 | 111 | 104 | 7 | 6 | 2.0+ | 2.0+ | 6.1 | 50 |
| 26th Ward | 263 | 178 | 223 | 151 | 72 | 32 | 0 | 0 | 240+ | 100 |
| " " | 228 | 143 | 194 | 122 | 72 | 37 | 0 | 0 | 240+ | 100 |
| " " | 266 | 177 | 225 | 150 | 75 | 33 | | | | |
| U.S. Navy Floyd Bennett Field ** | | | | | | | | | | |
| " " " | | | | | | | | | | |
| " " " | | | | | | | | | | |
| NEW YORK COUNTY, N. Y. | | | | | | | | | | |
| Canal Street * | | | | | | | | | | |
| Dyckman Street * | | | | | | | | | | |

* No Investigation Made

\- Less than

** Results Omitted - Security Regulations

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent | Effluent | Influent | Effluent | Removal | | Influent | Effluent | Removal | |
| | | | | Avg. | Avg. | ppm | ppm | ppm | % | ppm | ppm | ppm | % |
| NEW YORK COUNTY, N. Y. - cont. | | | | | | | | | | | | | |
| U.S. Army and Federal Reservations Bedloes Island | * | | | | | | | | | | | | |
| Wards Island | 3-24-49 | 1342.0 | 313 | 7.4 | 6.8 | 202 | 12 | 190 | 94 | 138 | 10 | 128 | 93 |
| " " | 6-30-49 | | 289 | 7.1 | 6.7 | 219 | 12 | 207 | 95 | 150 | 7 | 143 | 95 |
| " " | 9-29-49 | | 256 | 7.0 | 6.7 | 175 | 10 | 165 | 94 | 113 | 7 | 106 | 94 |
| QUEENS COUNTY, N.Y. | | | | | | | | | | | | | |
| Bayside Gables | 6-16-49 | | | 6.0 | 6.0 | | | | | | | | |
| " " | 8-29-49 | | | | 6.0 | | | | | | | | |
| " " | 10-18-49 | | | 5.4 | 5.2 | 7 | 10 | Neg | Neg | 6 | 6 | 0 | 0 |
| Bowery Bay | 3-17-49 | 274.0 | 46 | 7.3 | 7.2 | 239 | 11 | 228 | 95 | 197 | 9 | 188 | 95 |
| " " | 5-19-49 | | 41 | 7.1 | 7.2 | 194 | 13 | 181 | 93 | 150 | 9 | 141 | 94 |
| " " | 7-20-49 | | 48 | 7.0 | 7.1 | 136 | 3 | 133 | 98 | 92 | 2 | 90 | 98 |
| " " | 10- 6-49 | | 39 | 7.4 | 7.2 | 196 | 10 | 186 | 95 | 160 | 7 | 153 | 96 |
| Coney Island | 4- 4-49 | 441.5 | 67 | 7.3 | 7.4 | 200 | 71 | 129 | 65 | 148 | 21 | 127 | 86 |
| " " | 5-31-49 | | 59 | 7.3 | 7.2 | 291 | 78 | 213 | 73 | 221 | 29 | 192 | 87 |
| " " | 8-15-49 | | 51 | 7.3 | 6.9 | 141 | 33 | 108 | 77 | 97 | 5 | 92 | 95 |

* No Investigation made

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Biochemical Oxygen Demand 7 day 20°C. Effluent ppm | Biochemical Oxygen Demand Calculated 5 day 20°C. Influent ppm | Biochemical Oxygen Demand Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % Over 1 per ml. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NEW YORK COUNTY, N. Y. - Cont. | | | | | | | | | | | |
| U.S. Army and Federal Reservations Bedloes Island * | | | | | | | | | | | |
| Wards Island | | | | | | | 0 | 0 | 110 | 100 | |
| " " | 206 | 5 | 175 | 4 | 171 | 98 | 0 | 0 | 240+ | 100 | ø |
| " " | 188 | 7 | 159 | 6 | 153 | 96 | 0 | 0 | 240+ | 100 | |
| QUEENS COUNTY, N.Y. | | | | | | | | | | | |
| Bayside Gables | | | | | | | 0.4 | 0.4 | 4.2 | 100 | |
| " " | | | | | | | 2.0 | 2.0 | -0.3 | 0 | |
| " " | 16 | 13 | 14 | 11 | 3 | 21 | | | | | |
| Bowery Bay | 251 | 9 | 213 | 7 | 206 | 97 | 0 | 0 | 110 | 100 | |
| " " | | | | | | | 0 | 0 | 240+ | 100 | ø |
| " " | 169 | 13 | 144 | 12 | 132 | 92 | 0 | 0 | 240+ | 100 | |
| " " | 240 | 14 | 204 | 12 | 192 | 94 | 0 | 0 | 240+ | 100 | |
| Coney Island | 237 | 123 | 202 | 104 | 98 | 49 | 0 | 0 | 240+ | 100 | |
| " " | 244 | 107 | 207 | 91 | 116 | 56 | 0 | 0 | 240+ | 100 | |
| " " | 135 | 52 | 115 | 41 | 74 | 64 | 0.8 | 0.1 | -0.3 | 0 | |

* No Investigation made
ø Class "B" area. Chlorination not required.
\- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| QUEENS COUNTY, N.Y. cont. | | | | | | | | | | | | | |
| Hammels | 6- 8-49 | 23.0 | 5.3 x | 7.0 | 6.7 | | | | | | | | |
| " | 7-21-49 | | | 7.0 | 6.9 | | | | | | | | |
| " | 9-22-49 | | | 7.1 | 6.8 | | | | | | | | |
| Jamaica | 4-11-49 | 347.0 | 42 | 7.3 | 7.2 | 397 | 47 | 350 | 88 | 312 | 22 | 290 | 93 |
| " | 7-12-49 | | 42 | 7.0 | 7.1 | 239 | 20 | 219 | 92 | 184 | 6 | 178 | 97 |
| " | 10- 5-49 | | 45 | 7.2 | 7.1 | 256 | 20 | 236 | 92 | 208 | 7 | 201 | 97 |
| Tallmans Island | 4-13-49 | 113.0 | 21 | 7.4 | 6.9 | 134 | 21 | 113 | 84 | 81 | 13 | 68 | 84 |
| " " | 6-27-49 | | 24 | 7.1 | 7.0 | 186 | 13 | 173 | 93 | 131 | 7 | 124 | 95 |
| " " | 10- 3-49 | | 24 | 7.2 | 7.0 | 144 | 11 | 133 | 92 | 89 | 6 | 83 | 93 |
| U.S. Army | | | | | | | | | | | | | |
| Fort Tilden | 5- 2-49 | ** | | | | | | | | | | | |
| " " | 7-13-49 | | | | | | | | | | | | |
| " " | 10-31-49 | | | | | | | | | | | | |
| Fort Totten | 5- 2-49 | ** | | | | | | | | | | | |
| " " | 7-21-49 | | | | | | | | | | | | |
| " " | 10-24-49 | | | | | | | | | | | | |
| RICHMOND COUNTY, N.Y. | | | | | | | | | | | | | |
| Ass'n For Improvement of The Poor | * | | | | | | | | | | | | |

** Results Omitted - Security Regulations
x Estimated Average Flow
* No Investigation Made

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C, Calculated 5 day 20°C. Influent ppm | Effluent ppm | Influent ppm | Effluent ppm | Removal ppm | % | Residual Chlorine Avg. ppm | Min. ppm | Coliform Organism M.P.N. per ml. | % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| QUEENS COUNTY, N.Y. cont. | | | | | | | | | | |
| Hammels | | | | | | | 0.4 | 0.4 | 2.3 | 0 |
| " | | | | | | | 0.1 | 0.1 | 240+ | 100 |
| " | | | | | | | 0.2 | 0.2 | 240+ | 100 |
| Jamaica | 301 | 73 | 256 | 62 | 194 | 76 | 0 | 0 | 240+ | 100 |
| " | 249 | 45 | 212 | 38 | 174 | 82 | | | | |
| " | 232 | 43 | 198 | 37 | 161 | 81 | 0 | 0 | 240+ | 100 |
| Tallmans Island | 132 | 23 | 112 | 19 | 93 | 83 | 0 | 0 | 240+ | 100 |
| " " | 180 | 8 | 153 | 6 | 147 | 96 | 0 | 0 | 240+ | 100 |
| " " | 171 | 9 | 146 | 8 | 138 | 95 | 0 | 0 | 240+ | 100 |
| U.S. Army | | | | | | | | | | |
| Fort Tilden ** | | | | | | | | | | |
| " " | | | | | | | | | | |
| " " | | | | | | | | | | |
| Fort Totten ** | | | | | | | | | | |
| " " | | | | | | | | | | |
| " " | | | | | | | | | | |
| RICHMOND COUNTY, N.Y. | | | | | | | | | | |
| Ass'n For Improvement of The Poor * | | | | | | | | | | |

** Results Omitted - Security Regulations
* No Investigation Made

| (PART 1.) Plant Location | Date Visited | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| RICHMOND COUNTY, N.Y. - cont. | | | | | | | | | | | | | |
| Cromwell Avenue | 5-16-49 | 15.85 | 3.5 | 7.0 | 6.7 | | | | | | | | |
| " " | 8- 8-49 | | | 6.8 | 6.6 | | | | | | | | |
| Halloran General Hospital | 3-28-49 | 8.0 | 0.47 | 7.3 | 6.7 | 208 | 71 | 137 | 66 | 134 | 21 | 113 | 84 |
| " " " | 6-20-49 | | 0.57 | 7.1 | 6.4 | 210 | 71 | 139 | 66 | 125 | 32 | 93 | 74 |
| " " " | 10-19-49 | | 0.58 | 7.8 | 6.7 | 234 | 73 | 161 | 69 | 169 | 36 | 133 | 79 |
| Mount Loretto Home (New Plt) | 5-16-49 | 0.5 | 0.03 x | | | | | | | | | | |
| " " " | 8- 8-49 | | | | | | | | | | | | |
| Mount Loretto Home (Old Plt) | * | 1.0 | 0.09 x | | | | | | | | | | |
| Oakwood Beach | 5-16-49 | 7.05 | 4 | 7.2 | 6.8 | | | | | | | | |
| " " | 8- 8-49 | | | 7.4 | 7.1 | | | | | | | | |
| Richmond Memorial Hospital | 5-16-49 | 0.25 | | | | | | | | | | | |
| St. Josephs Home | * | | | | | | | | | | | | |

* No Investigation Made
x Estimated Average Flow

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Effluent ppm | Calculated 5 day 20°C. Influent ppm | Effluent ppp | Removal ppm | % | Residual Chlorine Avg. ppm | Min. ppm | Coliform Organism M.P.N. per ml. | % over 1 per ml. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RICHMOND COUNTY, N.Y. - cont. | | | | | | | | | | | |
| Cromwell Avenue | | | | | | | 2.0 | 2.0 | 0.36 | 0 | |
| " " | | | | | | | 1.2 | 1.2 | 0.36 | 0 | |
| Halloran General Hospital | 355 | 283 | 302 | 241 | 61 | 20 | 0.1 | 0.1 | 2.3 | 100 | |
| " " " | 367 | 212 | 313 | 181 | 132 | 42 | 0.1 | 0 | 240+ | 100 | ϕ |
| " " " | 323 | 243 | 275 | 206 | 69 | 25 | 0.2 | 0 | 240+ | 100 | |
| Mount Loretto Home (New Plt) | | | | | | | 2.0+ | 2.0+ | -0.3 | 0 | |
| " " " " " | | | | | | | 1.0 | 1.0 | 0.36 | 0 | |
| Mount Loretto Home (Old Plt.) * | | | | | | | | | | | |
| Oakwood Beach | | | | | | | 1.9 | 1.9 | 2.3 | 100 | |
| " " | | | | | | | 2.0 | 2.0 | -0.3 | 0 | |
| Richmond Memorial Hospital | | | | | | | -0.1 | -0.1 | 240+ | 100 | |
| St. Josephs Home * | | | | | | | | | | | |

* No Investigation Made
ϕ Class "B" Area. Chlorination not required
\- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| ROCKLAND COUNTY, NEW YORK | | | | | | | | | | | | | |
| Haverstraw | 5- 4-48 | 5.91 | 0.78 | 7.5+ | 7.6+ | 241 | 140 | 101 | 42 | 130 | 43 | 87 | 67 |
| " | 6-29-48 | | 0.71 | 7.6+ | 7.0 | 231 | 84 | 147 | 64 | 143 | 9 | 134 | 94 |
| " | 9-14-48 | | 0.7 | 7.4 | 7.2 | 335 | 124 | 211 | 63 | 231 | 29 | 202 | 87 |
| Jewish Convalescent Home Grand View on Hudson | 7-13-48 | 0.06 | 0.006 x | 7.3 | 6.6 | | | | | | | | |
| Letchworth Village | 9- 8-48 | 2.5 | 0.3 x | 6.8 | 6.6 | 200 | 60 | 140 | 70 | 120 | 15 | 105 | 88 |
| New York State Rehabilitation Hospital | 8-26-48 | 0.3 | 0.04 x | 6.8 | 6.7 | 111 | 71 | 40 | 36 | 88 | 17 | 71 | 81 |
| Nyack | 5- 6-48 | 5.15 | 0.63 | 7.4 | 7.3 | 191 | 82 | 109 | 57 | 126 | 23 | 103 | 82 |
| " | 6-28-48 | | 0.8 | 7.2 | 6.8 | 221 | 54 | 167 | 76 | 160 | 10 | 150 | 94 |
| " | 9- 9-48 | | 0.62 | 7.4 | 6.9 | 220 | 70 | 150 | 68 | 148 | 13 | 135 | 91 |

x Estimated Average Flow

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Biochemical Oxygen Demand 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| ROCKLAND COUNTY, N.Y. | | | | | | | | | | |
| Haverstraw | 227 | 209 | 193 | 177 | 16 | 8 | 0 | 0 | 240+ | 100 |
| " | 392 | 284 | 333 | 241 | 92 | 28 | 0.7 | 0.1 | -0.3 | 0 |
| " | 527 | 305 | 427 | 247 | 180 | 42 | 0.5 | 0.1 | 2.3 | 25 |
| Jewish Convalescent Home - Grandview On The Hudson | | | | | | | 2.0+ | 2.0+ | -0.3 | 0 |
| Letchworth Village | 385 | 292 | 328 | 248 | 80 | 24 | 0 | 0 | 240+ | 100 |
| " | 346 | 188 | 294 | 161 | 133 | 45 | 1.0 | 0.15 | -0.47 | 0 |
| New York State Rehabilitation Hospital | 238 | 185 | 203 | 158 | 45 | 22 | 0.1 | 0 | 240+ | 100 |
| Nyack | 282 | 188 | 240 | 159 | 81 | 34 | 0 | 0 | 240+ | 100 |
| " | 357 | 194 | 304 | 165 | 139 | 46 | 0.9 | 0.15 | 3.1 | 50 |
| " | 334 | 208 | 284 | 177 | 107 | 38 | 0.7 | 0 | 85 | 75 |
| Piermont (Village) | | | | | | | 0 | 0 | 240+ | 100 |
| Piermont Gair Paper Company * | | | | | | | | | | |
| South Nyack | 153 | 122 | 130 | 104 | 26 | 20 | 0 | 0 | 240+ | 100 |
| " " | 184 | 161 | 157 | 137 | 20 | 13 | 1.0 | 0.1 | 8.99 | 25 |
| " " | 395 | 254 | 336 | 216 | 120 | 36 | 1.1+ | 0.1 | -8.9 | 25 |

* No Investigation Made
\- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent | Effluent | Influent | Effluent | Removal | | Influent | Effluent | Removal | |
| | | | | Avg. | Avg. | ppm | ppm | ppm | % | ppm | ppm | ppm | % |
| ROCKLAND COUNTY, N.Y. - Cont. | | | | | | | | | | | | | |
| U.S. Public Housing Administration | | | | | | | | | | | | | |
| Shanks Village | 5-17-49 | 2.0 | 0.28 | 7.3 | 7.1 | 269 | 58 | 211 | 78 | 203 | 7 | 196 | 97 |
| " " | 8- 4-49 | | 0.33 | 7.8 | 7.3 | 302 | 38 | 264 | 87 | 228 | 3 | 225 | 99 |
| West Haverstraw | 5- 4-49 | 1.77 | 0.2 x | 6.9 | 6.6 | 137 | 44 | 93 | 68 | 93 | 14 | 79 | 85 |
| " " | 8- 2-49 | | | 7.1 | 5.2 | 417 | 73 | 344 | 82 | 327 | 13 | 314 | 96 |
| " " | 11- 1-49 | | | 7.3 | 6.5 | 466 | 51 | 415 | 89 | 342 | 16 | 326 | 95 |

x Estimated Average Flow

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Biochemical Oxygen Demand 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| ROCKLAND COUNTY, N.Y. - cont. | | | | | | | | | | |
| U.S. Public Housing Administration | | | | | | | | | | |
| Shanks Village | 391 | 169 | 333 | 143 | 190 | 57 | 1.4 | 0.5 | 28 | 25 |
| " " | 292 | 90 | 248 | 77 | 171 | 69 | 1.0 | 0.2 | -0.3 | 0 |
| West Haverstraw | 198 | 96 | 169 | 82 | 87 | 51 | 0 | 0 | 240+ | 100 |
| " " | 409 | 246 | 347 | 210 | 137 | 39 | 0 | 0 | 240+ | 100 |
| " " | 647 | 197 | 548 | 167 | 381 | 70 | | | | |

- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| SUFFOLK COUNTY, NEW YORK | | | | | | | | | | | | | |
| Huntington District | 3-24-48 | 8.1 | | 7.2 | 6.5 | 175 | 46 | 129 | 74 | 113 | 11 | 102 | 90 |
| " " | 5-19-48 | | 0.9 | 7.1 | 6.5 | 189 | 44 | 145 | 77 | 147 | 9 | 138 | 94 |
| " " | 7-21-48 | | 1.13 | 6.9 | 6.5 | 240 | 42 | 198 | 83 | 187 | 9 | 176 | 94 |
| " " | 9-29-48 | | 0.83 | 7.3 | 6.7 | 249 | 56 | 193 | 78 | 188 | 11 | 177 | 94 |
| Kings Park State Hospital | 4-14-48 | 7.8 | 1.3 | 6.6 | 7.4 | 203 | 52 | 151 | 74 | 131 | 24 | 107 | 82 |
| " " " " | 6-22-48 | | 1.4 | 6.7 | 7.0 | 233 | 8 | 225 | 97 | 161 | 6 | 155 | 96 |
| " " " " | 8-24-48 | | 1.3 | 6.6 | 7.1 | 245 | 7 | 238 | 97 | 167 | 4 | 163 | 98 |
| Northport | 4-20-48 | 1.24 | 0.27 | 6.7 | 6.5 | 126 | 61 | 65 | 52 | 79 | 25 | 54 | 68 |
| " | 6-22-48 | | 0.24 | 6.7 | 6.3 | 135 | 46 | 89 | 66 | 99 | 10 | 89 | 90 |
| " | 8-24-48 | | 0.24 | 6.6 | 6.4 | 160 | 42 | 118 | 74 | 115 | 10 | 105 | 91 |
| Port Jefferson | * | 1.3 | 0.12 x | | | | | | | | | | |

* No Investigation Made
x Estimated Average Flow

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| SUFFOLK COUNTY, NEW YORK | | | | | | | | | | |
| Huntington District | 257 | 122 | 218 | 104 | 114 | 52 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " | 228 | 97 | 194 | 82 | 112 | 58 | 2.0+ | 0.8 | -0.3 | 0 |
| " " | 299 | 132 | 254 | 112 | 142 | 56 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " | 256 | 106 | 217 | 90 | 127 | 59 | 1.7+ | 0.8 | -0.3 | 0 |
| Kings Park State Hospital | 258 | 23 | 219 | 20 | 199 | 91 | 1.2+ | 0 | 8.5 | 100 |
| " " " " | 285 | 2 | 243 | 2 | 241 | 99 | 1.1 | 0.8 | -0.3 | 0 |
| " " " " | 355 | | 302 | | | | 1.1 | 0.7 | -0.3 | 0 |
| Northport | 169 | 119 | 143 | 101 | 42 | 29 | 0 | 0 | 240+ | 100 |
| " | 124 | 53 | 105 | 45 | 60 | 57 | 1.6+ | 0 | 13 | 50 |
| " | 240 | 76 | 204 | 65 | 139 | 68 | 2.0+ | 0 | -0.3 | 0 |
| Port Jefferson * | | | | | | | | | | |

* No Investigation Made
\- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent | Effluent | Influent | Effluent | Removal | | Influent | Effluent | Removal | |
| | | | | Avg. | Avg. | ppm | ppm | ppm | % | ppm | ppm | ppm | % |
| SUFFOLK COUNTY, N.Y. | | | | | | | | | | | | | |
| Huntington District | 4- 6-49 | 8.1 | 1.0 | 6.8 | 6.3 | 112 | 36 | 76 | 68 | 76 | 8 | 68 | 89 |
| " " | 6- 7-49 | | 0.95 | 7.0 | 6.5 | 193 | 48 | 145 | 75 | 145 | 11 | 134 | 92 |
| " " | 8- 9-49 | | 0.9 | 7.1 | 6.5 | 223 | 50 | 173 | 78 | 184 | 8 | 176 | 96 |
| Kings Park State Hospital | 4-20-49 | 7.8 | 1.4 | 6.7+ | 7.2 | 237 | 2 | 235 | 99 | 176 | 1 | 175 | 99 |
| " " " " | 7-18-49 | | 0.74 | 7.2 | 7.0 | 337 | 32 | 305 | 91 | 228 | 6 | 222 | 97 |
| " " " " | 10-25-49 | | 1.7 | 6.6 | 7.2 | 193 | 10 | 183 | 95 | 135 | 5 | 130 | 96 |
| Northport | 4-19-49 | 1.24 | 0.23 | 6.8 | 6.7 | 103 | 38 | 65 | 63 | 68 | 11 | 57 | 84 |
| " | 6-21-49 | | 0.21 | 6.7 | 6.4 | 174 | 35 | 139 | 80 | 131 | 8 | 123 | 94 |
| " | 9-21-49 | | 0.22 | 6.8 | 5.7 | 144 | 29 | 115 | 80 | 110 | 10 | 100 | 91 |
| Port Jefferson | 3-16-49 | 1.3 | 0.12 x | 7.2 | 7.0 | 57 | 72 | Neg | Neg | | | | |

x Estimated Average Flow

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Biochemical Oxygen Demand 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| SUFFOLK COUNTY, N.Y. | | | | | | | | | | |
| Huntington District | 174 | 114 | 148 | 97 | 51 | 34 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " | 249 | 158 | 213 | 134 | 79 | 37 | 1.9+ | 1.0 | -0.3 | 0 |
| " " | 237 | 152 | 202 | 129 | 73 | 36 | 2.0+ | 2.0+ | -0.3 | 0 |
| Kings Park State Hospital | 320 | 4 | 272 | 3 | 269 | 99 | 1.8 | 1.3 | -0.3 | 0 |
| " " " " | 355 | 22 | 302 | 18 | 284 | 94 | 1.6 | 0.8 | -0.3 | 0 |
| " " " " | 305 | 6 | 259 | 5 | 254 | 98 | 1.3 | 0 | 60+ | 25 |
| Northport | 169 | 96 | 144 | 82 | 62 | 43 | 1.5+ | 0 | 60+ | 25 |
| " | 203 | 97 | 173 | 83 | 90 | 52 | 2.0+ | 2.0+ | -0.3 | 0 |
| " | 188 | 120 | 161 | 103 | 58 | 36 | 1.7+ | 0.3 | -0.3 | 0 |
| Port Jefferson | 186 | 193 | 158 | 164 | Neg | Neg | 0 | 0 | 13,000 | 100 |

- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| WESTCHESTER COUNTY, NEW YORK | | | | | | | | | | | | | |
| Briarcliff Manor | 5-10-48 | 1.0 | 0.19 x | 7.0 | 7.0 | 109 | 118 | Neg | Neg | 73 | 81 | Neg | Neg |
| " " | 7- 7-48 | | | 6.8 | 5.6 | 49 | 10 | 39 | 80 | 44 | 0 | 44 | 100 |
| " " | 9- 1-48 | | | 7.1 | 6.2 | 123 | 11 | 112 | 91 | 101 | 4 | 97 | 96 |
| Croton-Harmon Shops N.Y.C.R.R. | 5-11-48 | 1.3 | | | | 271 | 392 | Neg | Neg | 158 | 313 | Neg | Neg |
| " " " | 7-14-48 | | 0.35 | 7.6+ | 7.6+ | 203 | 41 | 162 | 80 | 113 | 6 | 107 | 95 |
| " " " | 9-16-48 | | 0.8 | 7.6+ | 7.6+ | 290 | 102 | 188 | 65 | 200 | 14 | 186 | 93 |
| Larchmont | 5- 4-48 | 5.85 | 0.8 x | 6.9 | 6.8 | 123 | 60 | 63 | 51 | 89 | 28 | 61 | 69 |
| " | 7- 8-48 | | | 6.9 | 6.6 | 172 | 53 | 119 | 69 | 118 | 27 | 91 | 77 |
| " | 9-13-48 | | | 6.7 | 6.4 | 170 | 53 | 117 | 69 | 116 | 19 | 97 | 84 |
| New Rochelle | 6- 9-48 | 58.41 | 14.05 | 6.5 | 6.3 | | | | | | | | |
| " " | 8-17-48 | | | | 6.4 | | | | | | | | |
| North Tarrytown | 5-11-48 | 7.9 | 1.32 | 7.8 | 7.3 | 182 | 95 | 87 | 48 | 123 | 44 | 79 | 64 |
| " " | 7-19-48 | | 1.5 | 7.0 | 6.8 | 195 | 63 | 132 | 68 | 128 | 14 | 114 | 89 |
| " " | 9-14-48 | | 1.03 | 7.0 | 6.9 | 233 | 59 | 174 | 75 | 156 | 8 | 148 | 95 |
| Ossining Liberty Street Plant | 5-19-48 | 1.2 | 0.2 x | 7.0 | 6.9 | 73 | 33 | 40 | 55 | 24 | 5 | 19 | 79 |
| " " " | 8-10-48 | | | 7.6 | 6.8 | 239 | 103 | 136 | 57 | 149 | 34 | 115 | 77 |
| " " " | 9-28-48 | | | 6.5 | 6.3 | 127 | 37 | 90 | 71 | 5 | 8 | Neg | Neg |

x Estimated Average Flow

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Biochemical Oxygen Demand 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| WESTCHESTER COUNTY, NEW YORK | | | | | | | | | | |
| Briarcliff Manor | 144 | 122 | 97 | 104 | Neg | Neg | 0 | 0 | 240+ | 100 |
| " " | 58 | 3 | 50 | 3 | 47 | 94 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " | 165 | 31 | 140 | 27 | 113 | 81 | 2.0+ | 2.0+ | -0.3 | 0 |
| Croton-Harmon Shops N.Y.C.R.R. | 101 | 126 | 86 | 107 | Neg | Neg | 0 | 0 | 240+ | 100 |
| " " " | 78 | 21 | 66 | 18 | 48 | 73 | 1.2 | 0.5 | -0.3 | 0 |
| " " " | 213 | 120 | 181 | 102 | 79 | 44 | 0.7 | 0.2 | -0.3 | 0 |
| Larchmont | 168 | 113 | 143 | 96 | 47 | 33 | 0 | 0 | 240+ | 100 |
| " | 179 | 107 | 152 | 91 | 61 | 40 | 1.1+ | 0.2 | 1.38 | 50 |
| " | 274 | 187 | 233 | 159 | 74 | 32 | 1.1+ | 0 | 60+ | 25 |
| New Rochelle | | | | | | | 1.3 | 1.3 | 0.91 | 0 |
| " " | | | | | | | 2.0 | 2.0 | -0.3 | 0 |
| North Tarrytown | 250 | 178 | 212 | 151 | 61 | 29 | 0 | 0 | 240+ | 100 |
| " " | 310 | 215 | 264 | 183 | 81 | 31 | 1.1 | 0.8 | 0.33 | 0 |
| " " | 320 | 182 | 272 | 155 | 117 | 43 | 1.6 | 0.9 | -0.3 | 0 |
| Ossining Liberty Street Plant | 170 | 108 | 144 | 92 | 52 | 36 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " " | 463 | 261 | 394 | 222 | 172 | 44 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " " | 122 | 48 | 104 | 41 | 63 | 61 | 2.0+ | 2.0+ | -0.3 | 0 |

- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| WESTCHESTER COUNTY, N.Y. -Cont. | | | | | | | | | | | | | |
| Ossining - Continued | | | | | | | | | | | | | |
| Water Street Plant | 5-18-48 | 14.0 | 2.0 | 6.8 | 6.8 | 109 | 56 | 53 | 49 | 61 | 15 | 46 | 75 |
| " " " | 7-21-48 | | 1.2 | 6.7 | 6.8 | 233 | 64 | 169 | 73 | 160 | 18 | 142 | 89 |
| " " " | 9-21-48 | | 0.9 | 6.6 | 6.7 | 276 | 86 | 190 | 69 | 161 | 21 | 140 | 87 |
| Port Chester | 4-28-48 | 23.1 | | 7.4 | 7.1 | 251 | 161 | 90 | 36 | 150 | 66 | 84 | 56 |
| " " | 6-24-48 | | | 6.8 | 6.4 | 158 | 80 | 78 | 49 | 105 | 33 | 72 | 69 |
| " " | 8-31-48 | | 2.5 | 7.0 | 6.4 | 262 | 150 | 112 | 43 | 174 | 53 | 121 | 70 |
| Sing Sing Prison | * | 2.2 | 0.4 x | | | | | | | | | | |
| Tarrytown | 5- 6-48 | 6.7 | 1.5 | 7.1 | 7.0 | 188 | 98 | 90 | 48 | 142 | 47 | 95 | 67 |
| " | 7- 6-48 | | 1.4 | 6.9 | 6.7 | 153 | 70 | 83 | 54 | 89 | 27 | 62 | 70 |
| " | 8-31-48 | | 0.93 | 6.9 | 6.7 | 184 | 53 | 131 | 71 | 135 | 13 | 122 | 90 |
| U.S. Army | | | | | | | | | | | | | |
| Camp Smith | 7- 7-48 | 1.4 | | 7.2 | 7.4 | 160 | 116 | 44 | 28 | 94 | 44 | 50 | 53 |
| " " | 9- 1-48 | | | 7.4 | 6.9 | 214 | 73 | 141 | 66 | 136 | 23 | 113 | 83 |
| Fort Slocum | 6-15-48 | 2.8 | 0.26 | 7.3 | 6.8 | 147 | 33 | 114 | 78 | 83 | 7 | 76 | 92 |
| " " | 8-19-48 | | 0.21 | 7.0 | 6.4 | 187 | 61 | 126 | 67 | 120 | 12 | 108 | 90 |

x Estimated Average Flow
* No Investigation Made

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| WESTCHESTER COUNTY, N.Y. -Cont. | | | | | | | | | | |
| Ossining - Continued | | | | | | | | | | |
| Water Street Plant | 173 | 101 | 147 | 86 | 61 | 41 | 0.9 | 0.5 | -0.3 | 0 |
| " " " | 281 | 186 | 239 | 158 | 81 | 34 | 1.7+ | 1.0 | -0.3 | 0 |
| " " " | 445 | 274 | 379 | 233 | 146 | 39 | 1.7 | 0.5 | -0.3 | 0 |
| Port Chester | 248 | 146 | 211 | 166 | 45 | 21 | 0 | 0 | 240+ | 100 |
| " " | 227 | 141 | 193 | 120 | 73 | 38 | 2.0+ | 1.5 | -0.3 | 0 |
| " " | | | | | | | 1.0+ | 0.2 | 180+ | 75 |
| Sing Sing Prison * | | | | | | | | | | |
| Tarrytown | 186 | 137 | 158 | 116 | 42 | 27 | 0 | 0 | 240+ | 100 |
| " | 241 | 114 | 205 | 97 | 108 | 53 | 2.0+ | 1.5 | -0.3 | 0 |
| " | 241 | 91 | 205 | 77 | 128 | 62 | 1.9+ | 1.5 | -0.3 | 0 |
| U.S. Army | | | | | | | | | | |
| Camp Smith | 258 | 295 | 219 | 251 | Neg | Neg | 0 | 0 | 240+ | 100 |
| " " | 380 | 206 | 323 | 175 | 148 | 46 | 1.9+ | 0 | -0.3 | 0 |
| Fort Slocum | 303 | 83 | 257 | 70 | 187 | 73 | 2.0+ | 1.5 | -0.3 | 0 |
| " " | 196 | 161 | 167 | 137 | 30 | 18 | 1.2+ | 0.2 | -0.3 | 0 |

\- Less than
* No Investigation Made

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | Settleable Solids | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm % | Influent ppm | Effluent ppm | Removal ppm % |
| WESTCHESTER COUNTY, N.Y. Cont. | | | | | | | | | | | |
| Westchester County Plants | | | | | | | | | | | |
| Mamaroneck | 6- 9-48 | 39.0 | 15 | 6.8 | 6.7 | | | | | | |
| " | 8-17-48 | | 7.0 | | 7.0 | | | | | | |
| Rye (Blind Brook) | 6- 9-48 | 9.5 | 0.8 x | 6.9 | 6.5 | | | | | | |
| " " " | 8-17-48 | | | 7.0 | 6.4 | | | | | | |
| Yonkers, North | 6- 9-48 | 90.52 | 20 | 8.2 | 8.2 | | | | | | |
| " " | 8-19-48 | | .15 | 8.2 | 7.4 | | | | | | |
| Yonkers, South | 6- 9-48 | 279.0 | 29.0 x | 6.8 | 6.8 | | | | | | |
| " " | 8-19-48 | | | 7.0 | 6.9 | | | | | | |

x Estimated Average Flow

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Biochemical Oxygen Demand 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm. | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| WESTCHESTER COUNTY, N.Y. Cont. | | | | | | | | | | |
| Westchester County Plants | | | | | | | | | | |
| Mamaroneck | | | | | | | 2.0 | 2.0 | 0.36 | 0 |
| " | | | | | | | 2.0+ | 2.0+ | -0.3 | 0 |
| Rye (Blind Brook) | | | | | | | 2.0+ | 2.0+ | -0.3 | 0 |
| " " " | | | | | | | 2.0+ | 2.0+ | -0.3 | 0 |
| Yonkers, North | | | | | | | -0.1 | -0.1 | 110 | 100 |
| " " | | | | | | | 0.1 | 0.1 | 240+ | 100 |
| Yonkers, South | | | | | | | 0.6 | 0.6 | 0.36 | 0 |
| " " | | | | | | | 0.5 | 0.5 | -0.3 | 0 |

- Less than

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent Avg. | Effluent Avg. | Influent ppm | Effluent ppm | Removal ppm | Removal % | Influent ppm | Effluent ppm | Removal ppm | Removal % |
| WESTCHESTER COUNTY, N.Y. | | | | | | | | | | | | | |
| Briarcliff Manor | 5- 3-49 | 1.0 | 0.19 x | 6.9 | 6.7 | 108 | 25 | 83 | 77 | 94 | 18 | 76 | 81 |
| " " | 5- 7-49 | | | 6.9 | 6.0 | 89 | 22 | 67 | 75 | 79 | 16 | 63 | 80 |
| " " | 9-13-49 | | | 7.0 | 5.3 | 230 | 17 | 213 | 93 | 218 | 4 | 214 | 98 |
| Croton Harmon Shops N.Y.C.R.R. | 5- 5-49 | 1.3 | 0.35 | 7.0 | 7.7+ | 537 | 103 | 434 | 81 | 388 | 28 | 360 | 93 |
| " " | 7-27-49 | | | 9.1 | 8.9 | 420 | 77 | 343 | 82 | 360 | 20 | 340 | 94 |
| Larchmont | 5-12-49 | 5.85 | 0.8 x | 6.7 | 6.6 | 158 | 64 | 94 | 59 | 116 | 40 | 76 | 66 |
| " | 7- 5-49 | | | 6.7 | 6.2 | 156 | 69 | 87 | 56 | 84 | 26 | 58 | 69 |
| " | 9-21-49 | | | 6.9 | 6.2 | 185 | 57 | 128 | 69 | 146 | 32 | 114 | 78 |
| Mt. Vernon Shell Union Oil Co. | 6-21-49 | 0.03 | | | 8.2 | | | | | | | | |
| New Rochelle | 5-18-49 | 58.41 | 16 | 6.8 | 6.6 | | | | | | | | |
| " " | 8-24-49 | | 11.5 | 6.7 | 6.4 | | | | | | | | |
| North Tarrytown | 4-27-49 | 7.9 | 1.4 | 7.2 | 7.2 | 168 | 83 | 85 | 51 | 125 | 44 | 81 | 65 |
| " " | 7- 6-49 | | 1.6 | 6.9 | 6.8 | 381 | 80 | 301 | 79 | 318 | 23 | 295 | 93 |
| " " | 9-15-49 | | 1.0 | 7.0 | 6.9 | 204 | 70 | 134 | 66 | 149 | 28 | 121 | 81 |

x - Estimated Average Flow

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Biochemical Oxygen Demand 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| WESTCHESTER COUNTY - cont. | | | | | | | | | | |
| Briarcliff Manor | 85 | 24 | 72 | 20 | 52 | 72 | 0 | 0 | 240+ | 100 |
| " " | 101 | 30 | 86 | 26 | 60 | 70 | 2.0+ | 2.0+ | -0.3 | 0 |
| " " | 312 | 31 | 265 | 26 | 239 | 90 | 2.0+ | 2.0+ | -0.3 | 0 |
| Croton Harmon Shops N.Y.C.R.R. | 100 | 49 | 85 | 42 | 43 | 51 | 0.8 | 0 | 120+ | 50 |
| " " | 141 | 38 | 120 | 32 | 88 | 73 | 0.2 | 0.15 | -0.5 | 0 |
| Larchmont | 166 | 94 | 141 | 80 | 61 | 43 | 1.5+ | 0 | 6.82 | 50 |
| " | 278 | 155 | 236 | 132 | 104 | 44 | 0.8 | 0.1 | 26.2 | 50 |
| " | 337 | 134 | 202 | 114 | 88 | 44 | 1.0+ | Trace | -0.3 | 0 |
| Mt. Vernon Shell Union Oil Co. | | | | | | | 0.1 | 0.1 | 110 | 100 |
| New Rochelle | | | | | | | 2.0 | 2.0 | -0.3 | 0 |
| " " | | | | | | | 1.5 | 1.5 | -0.3 | 0 |
| North Tarrytown | 204 | 151 | 173 | 128 | 45 | 26 | 0 | 0 | 240+ | 100 |
| " " | 246 | 144 | 209 | 122 | 87 | 42 | 1.3 | 0.5 | -0.3 | 0 |
| " " | 265 | 175 | 226 | 149 | 77 | 34 | 1.6+ | 0.15 | -0.9 | 25 |

- Less than

(PART 1.).

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH Influent Avg. | pH Effluent Avg. | Total Suspended Solids Influent ppm | Total Suspended Solids Effluent ppm | Total Suspended Solids Removal ppm | Total Suspended Solids Removal % | Settleable Solids Influent ppm | Settleable Solids Effluent ppm | Settleable Solids Removal ppm | Settleable Solids Removal % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WESTCHESTER COUNTY - cont. | | | | | | | | | | | | | |
| Ossining | | | | | | | | | | | | | |
| Liberty Street Plant | 5-11-49 | 1.2 | 0.23 | 7.4+ | 7.3+ | 125 | 60 | 65 | 52 | 53 | 15 | 38 | 72 |
| " " " | 8-10-49 | | 0.25 | 7.7 | 7.3 | 177 | 59 | 118 | 67 | 100 | 4 | 96 | 96 |
| " " " | 10-26-49 | | | 8.6 | 7.0 | 252 | 88 | 164 | 65 | 127 | 33 | 94 | 74 |
| Water Street Plant | 5- 4-49 | 14.0 | 1.4 | 6.8 | 7.0 | 162 | 57 | 105 | 65 | 87 | 3 | 84 | 97 |
| " " " | 8- 9-49 | | 1.0 | 6.7 | 6.8 | 259 | 71 | 188 | 73 | 168 | 14 | 154 | 92 |
| " " " | 10-29-49 | | 0.8 | 6.7 | 6.7 | 287 | 72 | 215 | 75 | 185 | 16 | 169 | 91 |
| Port Chester | 5-10-49 | 23.1 | 3.5 | 7.0 | 6.7 | 162 | 84 | 78 | 48 | 106 | 24 | 82 | 77 |
| " " | 8-16-49 | | 2.0 | 7.2 | 6.4 | 336 | 102 | 234 | 70 | 239 | 18 | 221 | 92 |
| " " | 11- 2-49 | | 2.0 | 7.5 | 6.7 | 477 | 171 | 306 | 64 | 382 | 70 | 312 | 82 |
| Sing Sing Prison | * | 2.2 | 0.4 x | | | | | | | | | | |
| Tarrytown | 4-28-49 | 6.7 | 1.23 | 7.2 | 7.2 | 188 | 87 | 101 | 54 | 141 | 35 | 106 | 75 |
| " | 6-22-49 | | 0.91 | 6.9 | 6.7 | 259 | 62 | 197 | 76 | 193 | 18 | 175 | 91 |
| " | 9- 6-49 | | 1.0 | 6.9 | 6.6 | 217 | 84 | 133 | 61 | 128 | 18 | 110 | 86 |
| U.S. Army | | | | | | | | | | | | | |
| Camp Smith | 9- 6-49 | 1.4 | | | | | | | | | | | |
| Fort Slocum | 5-26-49 | 2.8 | 0.29 | 7.0 | 6.9 | 257 | 44 | 213 | 83 | 162 | 6 | 156 | 96 |
| " " | 8-11-49 | | 0.24 | 7.4 | 6.4 | 158 | 46 | 112 | 71 | 71 | 4 | 64 | 90 |

* No Investigation Made
x Estimated Average Flow

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Biochemical Oxygen Demand 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| WESTCHESTER COUNTY, N.Y., cont. | | | | | | | | | | |
| Ossining | | | | | | | | | | |
| Liberty Street Plant | 256 | 159 | 218 | 135 | 83 | 38 | 2.0+ | 2.0 | -0.3 | 0 |
| " " " | 366 | 247 | 311 | 210 | 101 | 32 | 1.0+ | 0 | -0.3 | 0 |
| " " " | 523 | 293 | 443 | 248 | 195 | 44 | | | | |
| Water Street Plant | 295 | 185 | 251 | 157 | 94 | 37 | 1.9+ | 1.5 | -0.3 | 0 |
| " " " | 374 | 213 | 318 | 181 | 137 | 43 | 1.0 | 0.15 | -0.3 | 0 |
| " " " | 422 | 276 | 359 | 235 | 124 | 35 | 0.6 | 0.1 | | |
| Port Chester | 206 | 155 | 175 | 132 | 43 | 25 | 1.5 | 0 | 1.7 | 50 |
| " " | 424 | 231 | 360 | 196 | 164 | 46 | 2.0+ | 0.2 | -0.3 | 0 |
| " " | 442 | 245 | 375 | 209 | 166 | 44 | | | | |
| Sing Sing Prison * | | | | | | | | | | |
| Tarrytown | 240 | 146 | 204 | 124 | 80 | 39 | 0 | 0 | 240+ | 100 |
| " | 274 | 138 | 233 | 117 | 116 | 50 | 1.4+ | 0.8 | -0.3 | 0 |
| " | 273 | 155 | 232 | 131 | 101 | 44 | 1.0 | 0.6 | -0.3 | 0 |
| U.S. Army Camp Smith | | | | | | | Trace | Trace | -0.3 | 0 |
| Fort Slocum | 332 | 122 | 283 | 103 | 180 | 64 | 1.0+ | 0 | 1.3 | 50 |
| " " | 252 | 141 | 214 | 120 | 94 | 44 | 0.8 | 0 | 64+ | 50 |

- Less than
* No investigation Made

(PART 1.)

| Plant Location | Date Visted | Est. Pop. Served (Thousands) | Flow M.G.D. | pH | | Total Suspended Solids | | | | Settleable Solids | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Influent | Effluent | Influent | Effluent | Removal | | Influent | Effluent | Removal | |
| | | | | Avg. | Avg. | ppm | ppm | ppm | % | ppm | ppm | ppm | % |
| WESTCHESTER COUNTY, N.Y. Cont. | | | | | | | | | | | | | |
| Westchester County Plants | | | | | | | | | | | | | |
| Mamaroneck District | 5-18-49 | 39.0 | 14 | 6.8 | 6.7 | | | | | | | | |
| " " | 8-24-49 | | 8 | 6.9 | 6.6 | | | | | | | | |
| Rye (Blind Brook) | 5-18-49 | 9.5 | 0.8 x | 6.8 | 6.6 | | | | | | | | |
| " " " | 8-24-49 | | | 7.0 | 6.7 | | | | | | | | |
| Yonkers, North | 5-25-49 | 90.52 | 15 | 7.6 | 7.1 | | | | | | | | |
| " " | 8-17-49 | | 14 | 7.4 | 6.9 | | | | | | | | |
| Yonkers, South | 5-25-49 | 279.0 | 29.0 x | 7.1 | 6.9 | | | | | | | | |
| " " | 8-18-49 | | | 7.0 | 6.7 | | | | | | | | |

x Estimated Average Flow

(PART 2.)

| Plant Location | Biochemical Oxygen Demand 7 day 20°C. Influent ppm | Biochemical Oxygen Demand 7 day 20°C. Effluent ppm | Calculated 5 day 20°C. Influent ppm | Calculated 5 day 20°C. Effluent ppm | Removal ppm | Removal % | Residual Chlorine Avg. ppm | Residual Chlorine Min. ppm | Coliform Organism M.P.N. per ml. | Coliform Organism % over 1 per ml. |
|---|---|---|---|---|---|---|---|---|---|---|
| WESTCHESTER COUNTY,N.Y. - cont. | | | | | | | | | | |
| Westchester County Plants | | | | | | | | | | |
| Mamaroneck District | | | | | | | 2.0+ | 2.0+ | -0.3 | 0 |
| " " | | | | | | | 2.0+ | 2.0+ | -0.3 | |
| Rye (Blind Brook) | | | | | | | 1.5 | 1.5 | -0.3 | 0 |
| " " " | | | | | | | Trace | Trace | 240+ | 100 |
| Yonkers, North | | | | | | | 1.3 | 1.3 | 0.73 | 0 |
| " " | | | | | | | 0.3 | 0.3 | -0.3 | 0 |
| Yonkers, South | | | | | | | 0.6 | 0.6 | 2.3 | 100 |
| " " | | | | | | | 1.0 | 1.0 | 240+ | 100 |

- Less than