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WATER QUALITY
NASSAU COUNTY
NEW YORK
ISLAND

SOUTH SHORE WATER QUALITY DATA

1972

Nassau County Department of Health
Bureau of Water Pollution Control

EDUCATION DEPARTMENT
VERTICAL FILE
SUNY - STONY BROOK

NOV 9 1973

ATLANTIC OCEAN (WEST)
TIDE AND PRECIPITATION DATA

1972

LOCAL TIME

| <u>Date</u> | <u>High Water</u> H.M. | <u>Low Water</u> H.M. | <u>Precipitation-Inches</u> Freeport |
|-------------|---------------------------|--------------------------|---|
| 4/15 | | | 0.04 |
| 4/16 | | | 0.75 |
| 4/17 | 1003 | 1553 | - |
| 5/15 | | | 0.02 |
| 5/16 | | | - |
| 5/17 | 1144 | 1736 | - |
| 6/5 | | | - |
| 6/6 | | | 0.05 |
| 6/7 | 1633 | 1004 | 0.05 |
| 7/29 | | | - |
| 7/30 | | | - |
| 7/31 | 1151 | 1801 | 0.07 |
| 8/19 | | | - |
| 8/20 | | | - |
| 8/21 | 1747 | 1121 | - |

OCEAN WEST
AREA NO. 1
WATER QUALITY SURVEY RESULTS

BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

1972

Sampling Point No. 401

| Date | Time | Total | Fecal | Time | Total | Fecal | Time | Total | Fecal |
|-------------|------|-------|-------|------|-------|-------|------|-------|-------|
| 4/17 | 1120 | 3.6 | < 3.0 | 1115 | 7.3 | < 3.0 | 1105 | 9.1 | < 3.0 |
| | 1131 | < 3.0 | < 3.0 | 1140 | < 3.0 | < 3.0 | 1145 | 3.6 | < 3.0 |
| 5/17 | 1115 | 9.1 | 3.6 | 1105 | 23 | < 3.0 | 1100 | 9.3 | 9.3 |
| 6/7 | 1100 | 24.00 | 28 | 1055 | 3.6 | < 3.0 | 1046 | 7.3 | < 3.0 |
| | 1105 | 4.30 | 4.30 | 1110 | 9.1 | < 3.0 | 1114 | 21 | < 3.0 |
| 7/31 | 1115 | 23 | < 3.0 | 1106 | 4.3 | < 3.0 | 1100 | < 3.0 | < 3.0 |
| 8/21 | 1005 | 3.6 | 3.6 | 1001 | 3.6 | < 3.0 | 0955 | < 3.0 | < 3.0 |
| | 1007 | 3.0 | 3.0 | 1013 | < 3.0 | < 3.0 | 1015 | < 3.0 | < 3.0 |
| Median | | | | 5.4 | 3.0 | | 5.4 | 3.0 | |
| Log Average | | | | 7.7 | 3.0 | | 7.7 | 4.6 | |

Sampling Point No. 402

| Sampling Point No. 402 | | | | Sampling Point No. 403 | | | |
|------------------------|------|-------|-------|------------------------|-------|-------|-------|
| Date | Time | Total | Fecal | Date | Time | Total | Fecal |
| 4/17 | 1120 | 3.6 | < 3.0 | 1115 | 7.3 | < 3.0 | 1105 |
| | 1131 | < 3.0 | < 3.0 | 1140 | < 3.0 | < 3.0 | 1145 |
| 5/17 | 1115 | 9.1 | 3.6 | 1105 | 23 | < 3.0 | 1100 |
| 6/7 | 1100 | 24.00 | 28 | 1055 | 3.6 | < 3.0 | 1046 |
| | 1105 | 4.30 | 4.30 | 1110 | 9.1 | < 3.0 | 1114 |
| 7/31 | 1115 | 23 | < 3.0 | 1106 | 4.3 | < 3.0 | 1100 |
| 8/21 | 1005 | 3.6 | 3.6 | 1001 | 3.6 | < 3.0 | 0955 |
| | 1007 | 3.0 | 3.0 | 1013 | < 3.0 | < 3.0 | 1015 |
| Median | | | | 5.4 | 3.0 | | 5.4 |
| Log Average | | | | 7.7 | 3.0 | | 7.7 |

OCEAN WEST
AREA NO. 1
WATER QUALITY SURVEY RESULTS

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BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

1972

| Sampling Point No. 404 | | | | Sampling Point No. 405 | | | | Sampling Point No. 406 | | | |
|------------------------|--------------|--------------|----------------|------------------------|------|--------------|----------------|------------------------|--------------|--------------|----------------|
| Date | Time | Total | Fecal | Date | Time | Total | Fecal | Date | Time | Total | Fecal |
| 4/17 | 1100 | < 3.0 | < 3.0 | | | 1055 | 3.6 | < 3.0 | 1043 | 9.1 | < 3.0 |
| | 1149 | 3.0 | < 3.0 | | | 1152 | < 3.0 | < 3.0 | 1150 | 9.1 | < 3.0 |
| 5/17 | 1045 | 150 | 75 | | | 1035 | 430 | 430 | 1030 | 240 | 240 |
| 6/7 | 1044 1118 | 3.6 23 | 3.6 9.1 | | | 1040 | 23 | 3.6 | 1033 1124 | 43 23 | 9.1 3.6 |
| 7/31 | 1049 | 3.6 | < 3.0 | | | 1045 | 43 | 3.6 | 1036 | 43 | 7.3 |
| 8/21 | 0947 1022 | < 3.0 3.6 | < 3.0 < 3.0 | | | 0945 1019 | < 3.0 < 3.0 | < 3.0 < 3.0 | 0943 1026 | 3.6 < 3.0 | < 3.0 < 3.0 |
| Median | | 3.6 | 3.0 | | | | 6.3 | 3.0 | | 16.0 | 3.6 |
| Log Average | | 6.8 | 5.3 | | | | 11.8 | 6.0 | | 17.6 | 7.0 |

OCEAN WEST
AREA NO. 1
WATER QUALITY SURVEY RESULTS

BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

1972

| Date | Sampling Point No. | 407 | | 408 | | 409 | |
|-------------|--------------------|-------|-------|-------|-------|-------|-------|
| | | Time | Total | Fecal | Time | Total | Fecal |
| 4/17 | 1033 | < 3.0 | < 3.0 | 9.1 | < 3.0 | 1015 | 43 |
| | 1200 | 9.1 | < 3.0 | 9.1 | < 3.0 | 1210 | < 3.0 |
| 5/17 | 1025 | 240 | 240 | 1015 | 23 | 9.1 | 9.1 |
| 6/7 | 1030 | 23 | 9.1 | 1028 | 9.1 | < 3.0 | 3.6 |
| | 1126 | 23 | 23 | 1129 | 7.3 | 7.3 | 21 |
| 7/31 | 1032 | 9.1 | < 3.0 | 1028 | 23 | 3.6 | 9.1 |
| 8/21 | 0940 | 9.1 | 9.1 | 0936 | 23 | 23 | 7.3 |
| | 1030 | < 3.0 | < 3.0 | 1033 | < 3.0 | < 3.0 | 3.6 |
| | | | | | 1035 | 3.6 | 3.6 |
| Median | | 9.1 | 6.0 | 9.1 | 3.3 | 8.2 | 3.6 |
| Log Average | | 13.1 | 8.8 | 10.9 | 5.1 | 13.6 | 5.3 |

OCEAN WEST
AREA NO. 1
WATER QUALITY SURVEY RESULTS

BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

1972

| Date | Time | Sampling Point No. 410 | | Sampling Point No. 411 | | Sampling Point No. 412 | |
|-------------|------|------------------------|-------|------------------------|-------|------------------------|-------|
| | | Total | Fecal | Total | Fecal | Total | Fecal |
| 4/17 | 1010 | 3.6 | 3.6 | 1000 | < 3.0 | < 3.0 | - |
| | 1210 | 15 | 3.6 | 1220 | < 3.0 | < 3.0 | - |
| 5/17 | 1000 | 930 | 430 | 0955 | 430 | 0950 | < 3.0 |
| 6/7 | 1015 | 23 | 9.1 | 1010 | < 3.0 | 1005 | 240 |
| | 1135 | 430 | 93 | 1140 | 240 | 1145 | 23 |
| 7/31 | 1015 | 9.1 | 3.6 | 0955 | < 3.0 | 0948 | 3.6 |
| 8/21 | 0924 | 15 | 15 | 0920 | 23 | 0915 | 4.3 |
| | 1040 | 43 | 43 | 1052 | < 3.0 | 1105 | 23 |
| Median | | 19.0 | 12.0 | 3.0 | 3.0 | 23.0 | 3.6 |
| Log Average | | 36.1 | 18.0 | 12.4 | 9.8 | 18.3 | 8.3 |

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OCEAN WEST
AREA NO. 1
WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

SAMPLING POINT - 401

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------------|---------|------|--------|
| 4/17 | 1131 | 18,000 | 7.9 | 33 | 7.0 | 9.8 | 2 *** |
| 5/17 | 1115 | 16,400 | 7.1 | 32 | 10.0 | 10.6 | 3 |
| 6/7 | 1100 | 16,400 | 7.9 | 26 | - | 7.4 | 2 |
| 7/31 | 1115 | 18,600 | 8.0 | 31 | 19.2 | 8.0 | 3 *** |
| 8/21 | 1005 | 18,000 | 7.9 | 56 | 21.0 | 6.4 | 1 *** |
| Averages | | 17,500 | 7.7 | 36 | 14.3 | 8.5 | 2 |

Notes: (1) All readings are in mg/l unless otherwise noted.

(2) Chlorides expressed as mg/l Cl.

(3) pH average is Logarithmic

(4) * Designates 4 day B.O.D.

(5) ** Designates 6 day B.O.D.

(6) *** Designates 7 day B.O.D.
(7) **** Designates 8 day B.O.D.

OCEAN WEST
AREA NO. 1
WATER QUALITY SURVEY RESULTS

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1972

CHEMICAL RESULTS

SAMPLING POINT - 401

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | | | Total |
|-----------------|------|-----------------|-----------------|-----------------|--------------------------------|-------|------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | | |
| 4/17 | 1131 | 0.10 | 0.003 | 0.05 | 29.8 | 0.12 | 0.17 | 0.17 |
| 5/17 | 1115 | 0.02 | 0.002 | < 0.01 | - | 0.10 | 0.17 | 0.17 |
| 6/7 | 1100 | 0.12 | 0.010 | < 0.02 | - | 0.39 | 0.48 | 0.48 |
| 7/31 | 1115 | 0.04 | < 0.001 | 0.05 | 32.0 | 0.11 | 0.17 | 0.17 |
| 8/21 | 1005 | 0.14 | 0.006 | 0.01 | 32.0 | 0.20 | 0.26 | 0.26 |
| Averages | | 0.08 | 0.004 | 0.03 | 31.3 | 0.18 | 0.25 | 0.25 |

Notes: See Sampling Point - 401

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OCEAN WEST
AREA NO. 1
WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

SAMPLING POINT - 403

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------------|---------|------|--------|
| 4/17 | 1105 | 17,800 | 7.9 | 25 | 6.5 | 9.2 | 2 *** |
| 5/17 | 1100 | 16,800 | 7.7 | 40 | 10.0 | 9.0 | 2 |
| 6/7 | 1048 | 18,000 | 7.9 | 30 | - | 9.0 | 6 |
| 7/31 | 1100 | 18,400 | 8.1 | 32 | 20.1 | 9.4 | 4 *** |
| 8/21 | 0955 | 18,200 | 8.0 | 64 | 21.2 | 7.6 | 1 *** |
| Averages | | 17,800 | 7.9 | 38 | 14.5 | 8.9 | 3 |

Notes: See Sampling Point - 401

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OCEAN WEST
AREA NO. 1
WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

SAMPLING POINT - 403

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | | |
|----------|------|-----------------|-----------------|-----------------|--------------------------------|-------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | Total |
| 4/17 | 1105 | 0.20 | 0.004 | 0.08 | 30.6 | 0.19 | 0.26 |
| 5/17 | 1100 | 0.02 | 0.003 | 0.02 | - | 0.15 | 0.17 |
| 6/7 | 1048 | < 0.02 | 0.001 | < 0.02 | - | 0.08 | 0.19 |
| 7/31 | 1100 | 0.02 | < 0.001 | < 0.005 | 31.0 | 0.08 | 0.22 |
| 8/21 | 0955 | 0.10 | 0.003 | 0.05 | 32.2 | 0.07 | 0.15 |
| Averages | | 0.07 | 0.002 | 0.01 | 31.3 | 0.11 | 0.20 |

Notes: See Sampling Point - 401

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OCEAN WEST
AREA NO. 1
WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

SAMPLING POINT - 405

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------------|------------|------|--------|
| 4/17 | 1055 | 18,200 | 7.8 | 22 | 6.6 | 9.6 | 2 *** |
| 5/17 | 1035 | 17,000 | 7.8 | 43 | 11.0 | 8.6 | 2 |
| 6/7 | 1040 | 18,200 | 7.7 | 43 | - | 7.6 | 5 |
| 7/31 | 1045 | 18,400 | 7.9 | 28 | 19.9 | 7.8 | 2 *** |
| Averages | | 18,000 | 7.8 | 34 | 12.5 | 8.4 | 3 |

Notes: See Sampling Point - 401

OCEAN WEST
AREA NO. 1
WATER QUALITY SURVEY RESULTS

1972

Chem.
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CHEMICAL RESULTS

SAMPLING POINT - 405

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | | |
|----------|------|-----------------|-----------------|-----------------|--------------------------------|-------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | Total |
| 4/17 | 1055 | 0.18 | 0.003 | 0.05 | 30.4 | 0.12 | 0.15 |
| 5/17 | 1035 | 0.02 | 0.003 | 0.01 | - | 0.20 | 0.25 |
| 6/7 | 1040 | 0.03 | 0.002 | < 0.02 | - | 0.14 | 0.29 |
| 7/31 | 1045 | 0.04 | 0.001 | < 0.05 | 32.4 | 0.17 | 0.32 |
| Averages | | 0.07 | 0.002 | 0.03 | 31.4 | 0.16 | 0.25 |

Notes: See Sampling Point - 401

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OCEAN WEST
AREA NO. 1
WATER QUALITY SURVEY RESULTS
1972

CHEMICAL RESULTS

| SAMPLING POINT - 409 | | | | | | |
|----------------------|------|-----------|-----|------------------|--------|------|
| Date | Time | Chlorides | pH | Suspended Solids | Temp C | D.O. |
| 4/17 | 1015 | 18,600 | 7.3 | 22 | 6.6 | 9.8 |
| 5/17 | 1007 | 16,800 | 7.8 | 45 | 12.0 | 8.0 |
| 6/7 | 1020 | 17,200 | 7.4 | 43 | - | 8.4 |
| 7/31 | 1023 | 19,000 | 7.7 | 22 | 20.2 | 7.0 |
| 8/21 | 0932 | 18,400 | 7.9 | 46 | 21.2 | 7.2 |
| Averages | | 18,000 | 7.6 | 36 | 15.0 | 8.1 |
| | | | | | | 2 |

Notes: See Sampling Point - 401

OCEAN WEST
AREA NO. 1
WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

SAMPLING POINT - 409

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | | |
|----------|------|-----------------|-----------------|-----------------|--------------------------------|-------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | Total |
| 4/17 | 1015 | 0.12 | 0.004 | 0.07 | 30.9 | 0.06 | 0.17 |
| 5/17 | 1007 | 0.03 | 0.004 | 0.02 | - | 0.19 | 0.19 |
| 6/7 | 1020 | 0.02 | <0.001 | <0.02 | - | 0.15 | 0.18 |
| 7/31 | 1023 | 0.06 | 0.001 | <0.05 | 32.3 | 0.18 | 0.23 |
| 8/21 | 0932 | 0.04 | 0.003 | 0.02 | 32.4 | 0.22 | 0.22 |
| Averages | | 0.05 | 0.003 | 0.04 | 31.9 | 0.16 | 0.20 |

Notes: See Sampling Point - 401

ATLANTIC OCEAN (EAST)

WATER QUALITY

SURVEY RESULTS

1972

NASSAU COUNTY DEPARTMENT OF HEALTH

John J. Dowling, M.D., M.P.H.

Commissioner of Health

Division of Environmental Health
George H. Sumner, M.C.E., P.E.
Deputy Commissioner

Bureau of Water Pollution Control
Stanley Juczak, M.C.E., P.E.
Director

INTRODUCTION

The purpose of this report is to summarize the chemical and bacteriological results of the samples collected by the Department of Health in the Atlantic Ocean (East) during 1972.

STUDY AREA

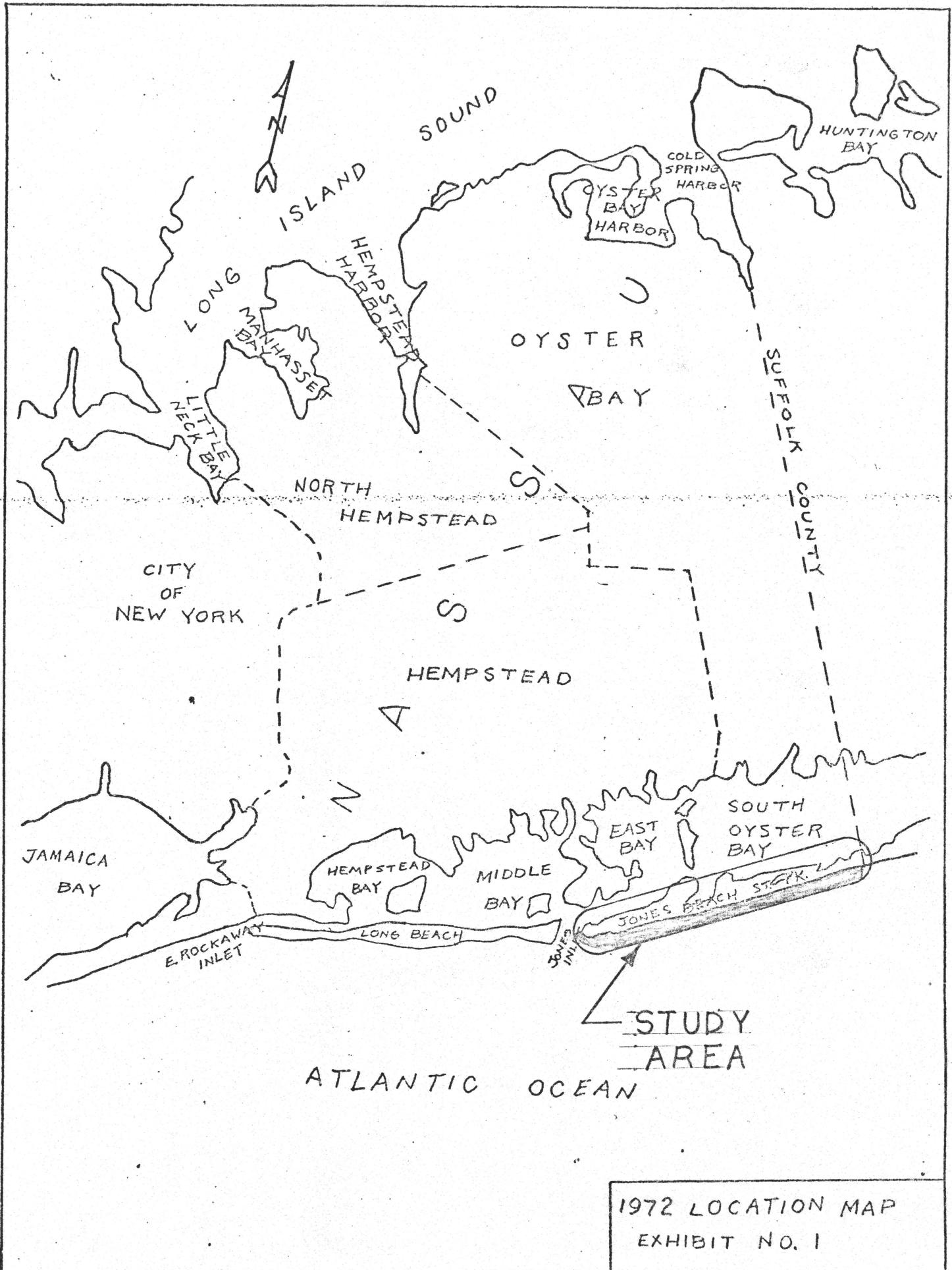
Atlantic Ocean (East) has been defined as the area of water in the Atlantic Ocean immediately south of the Jones Beach barrier island extending from Jones Inlet to the Nassau-Suffolk County line.

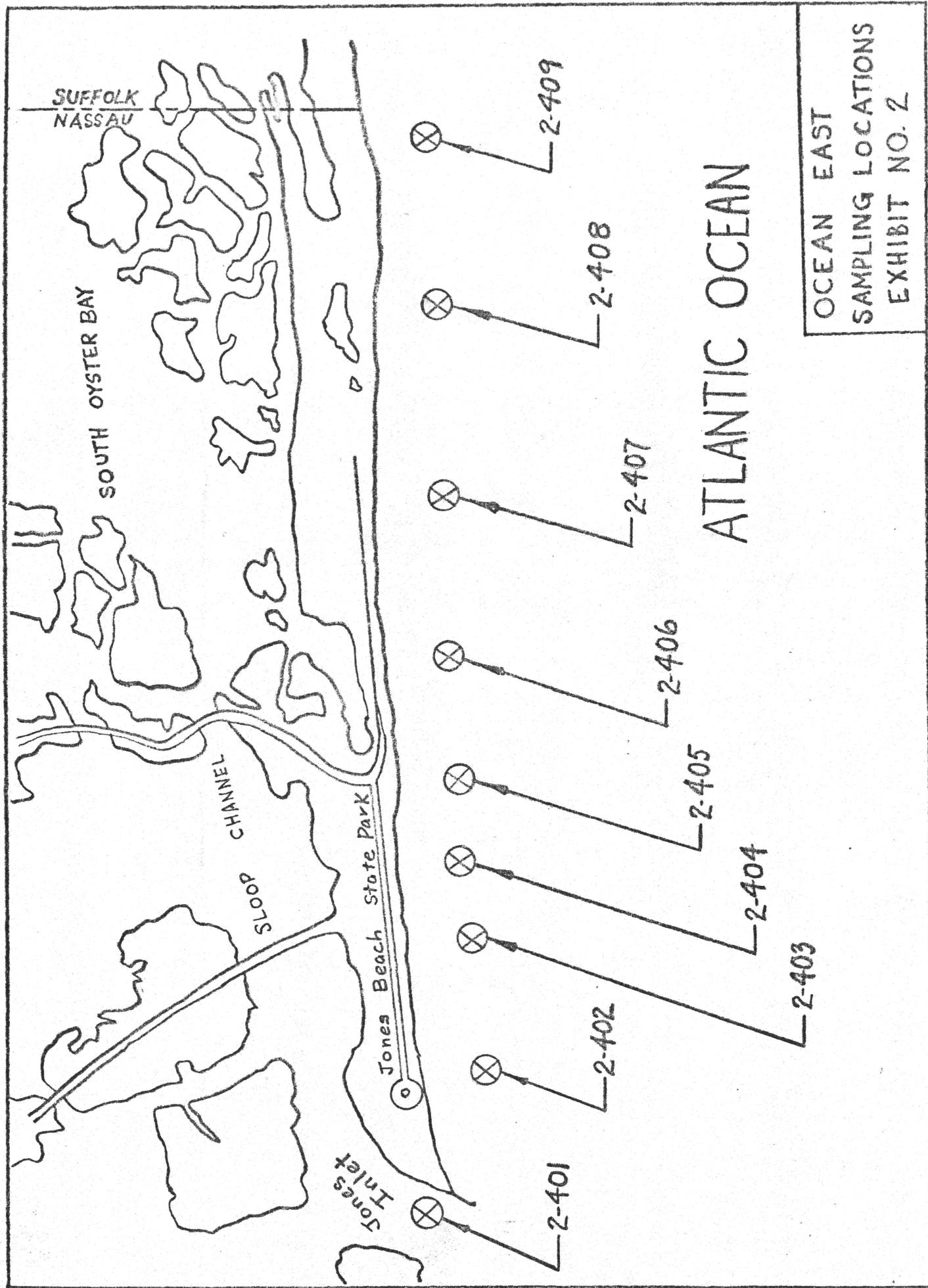
Exhibit 1 shows the location of the study area within the County and Exhibit 2 shows the sampling point locations.

SAMPLING PROCEDURE AND ANALYSES

All samples were collected by Health Department personnel and were analyzed in accordance with the procedures and methods outlined in the 13th edition of Standard Methods. Laboratory analyses were performed by the Health Department's Division of Laboratories and Research.

All bacteriological samples were collected at or near the surface. Most chemical samples were collected approximately 5 feet below the surface.





ATLANTIC OCEAN EAST

AREA 2

SAMPLING POINT LOCATIONS

POINT NO.

- * 401.0 250 yards west of Radio Beacon in Jones Inlet.
 - 402.0 $\frac{1}{4}$ mile offshore off Parking Field West End 2.
 - * 403.0 $\frac{1}{4}$ mile offshore off Parking Field West End 1.
 - 404.0 $\frac{1}{4}$ mile offshore off Parking Field 1.
 - 405.0 $\frac{1}{4}$ mile offshore in line with Jones Beach Tower
 - 406.0 $\frac{1}{4}$ mile offshore off Parking Field 6
 - 407.0 $\frac{1}{4}$ mile offshore off Parking Field 9
 - 408.0 $\frac{1}{4}$ mile offshore in line with Tower at J.F.K. Memorial
 Bird Sanctuary (Guggenheim Pond).
 - * 409.0 $\frac{1}{4}$ mile offshore off Tobay Beach
- * Chemical Analyses in addition to Bacteriological Analyses.

TBB:cg
11/9/71

ATLANTIC OCEAN (EAST)
TIDE AND PRECIPITATION DATA
1972

LOCAL TIME

| <u>Date</u> | <u>High Water</u> H.M. | <u>Low Water</u> H.M. | <u>Precipitation-Inches</u> Freeport |
|-------------|---------------------------|--------------------------|---|
| 4/17 | | | - |
| 4/18 | | | - |
| 4/19 | 1212 | 0557 | - |
| 6/17 | | | 0.70 |
| 6/18 | | | 1.59 |
| 6/19 | 1453 | 0834 | 0.16 |
| 7/22 | | | - |
| 7/23 | | | - |
| 7/24 | 0654 | 1245 | - |
| 8/14 | - | - | - |
| 8/15 | | | 0.88 |
| 8/16 | 1318 | 0644 | - |
| 9/26 | | | - |
| 9/27 | | | 0.35 |
| 9/28 | 1217 | 0542 | - |

OCEAN EAST
AREA NO. 2
WATER QUALITY SURVEY RESULTS

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BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

1972

| Sampling Point No. 401 | | | Sampling Point 402 | | | Sampling Point No. 403 | | |
|------------------------|------|-------|--------------------|------|-------|------------------------|------|-------|
| Date | Time | Total | Fecal | Time | Total | Fecal | Time | Total |
| 4/19 | 0940 | 9.1 | 3.6 | 0955 | < 3.0 | < 3.0 | 1010 | < 3.0 |
| | 1215 | 3.6 | < 3.0 | 1205 | 9.1 | < 3.0 | 1155 | < 3.0 |
| 6/19 | 1015 | 9.3 | 2.3 | 1020 | < 3.0 | < 3.0 | 1035 | < 3.0 |
| | 1205 | < 3.0 | < 3.0 | 1145 | < 3.0 | < 3.0 | 1140 | < 3.0 |
| 7/24 | 1005 | 2.3 | 9.1 | 1024 | 3.6 | < 3.0 | 1030 | < 3.0 |
| | 1155 | 4.3 | 4.3 | 1136 | 3.6 | < 3.0 | 1134 | < 3.0 |
| 8/16 | 0920 | 2.3 | 2.3 | 0930 | < 3.0 | < 3.0 | 0935 | < 3.0 |
| | 1150 | 4.3 | 9.1 | 1135 | < 3.0 | < 3.0 | 1126 | < 3.0 |
| 9/28 | 0938 | 9.1 | - | 0950 | < 3.0 | - | 0958 | < 3.0 |
| | 1210 | < 3.0 | - | 1137 | < 3.0 | - | 1129 | < 3.0 |
| Median | | 16.0 | 9.1 | | 3.0 | 3.0 | | 3.0 |
| Log Average | | 13.8 | 9.4 | | 3.5 | 3.0 | | 3.0 |

OCEAN EAST
AREA NO. 2
WATER QUALITY SURVEY RESULTS

BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

1972

| Date | Time | Sampling Point No. 404 | | Sampling Point No. 405 | | Sampling Point No. 406 | | |
|------|------|------------------------|-------|------------------------|-------|------------------------|--------------|-------|
| | | Total | Fecal | Time | Total | Fecal | Time | Total |
| 4/19 | 1020 | < 3.0 | < 3.0 | 1030 1135 | < 3.0 | < 3.0 | 1035 1130 | < 3.0 |
| | 1145 | < 3.0 | < 3.0 | | < 3.0 | < 3.0 | | < 3.0 |
| 6/19 | 1040 | < 3.0 | < 3.0 | 1045 1135 | < 3.0 | < 3.0 | 1040 1131 | 3.6 |
| | 1138 | < 3.0 | < 3.0 | | < 3.0 | < 3.0 | | 3.6 |
| 7/24 | 1037 | < 3.0 | < 3.0 | 1041 1125 | < 3.0 | < 3.0 | 1045 1121 | < 3.0 |
| | 1130 | 9.1 | 9.1 | | < 3.0 | < 3.0 | | < 3.0 |
| 8/16 | 0945 | < 3.0 | < 3.0 | 0955 1112 | < 3.0 | < 3.0 | 1002 1105 | < 3.0 |
| | 1120 | < 3.0 | < 3.0 | | < 3.0 | < 3.0 | | < 3.0 |
| 9/28 | 1002 | < 3.0 | - | 1015 1120 | < 3.0 | - | 1019 1116 | < 3.0 |
| | 1124 | < 3.0 | - | | < 3.0 | - | | < 3.0 |
| | | Median | 3.0 | | 3.0 | | 3.0 | 3.0 |
| | | Log Average | 3.4 | | 3.1 | | 3.0 | 3.0 |

OCEAN EAST
AREA NO. 2
WATER QUALITY SURVEY RESULTS

BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

1972

| Sampling Point No. 407 | | | | Sampling Point No. 408 | | | | Sampling Point No. 409 | | | |
|------------------------|------|-------|-------|------------------------|-------|-------|------|------------------------|-------|-------|-------|
| Date | Time | Total | Fecal | Time | Total | Fecal | Time | Time | Total | Fecal | Fecal |
| 4/19 | 1040 | < 3.0 | < 3.0 | 1050 | < 3.0 | < 3.0 | 1105 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| | 1125 | 3.0 | < 3.0 | 1120 | < 3.0 | < 3.0 | 1106 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 6/19 | 1055 | < 3.0 | < 3.0 | 1110 | < 3.6 | < 3.0 | 1120 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| | 1129 | < 3.0 | < 3.0 | 1126 | < 3.0 | < 3.0 | 1123 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 7/24 | 1049 | < 3.0 | < 3.0 | 1049 | < 3.6 | < 3.6 | 1100 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| | 1116 | 9.1 | 9.1 | 1108 | < 3.0 | < 3.0 | 1104 | 3.6 | 3.6 | 3.6 | 3.6 |
| 8/16 | 1015 | < 3.0 | < 3.0 | 1025 | < 3.0 | < 3.0 | 1035 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| | 1059 | < 3.0 | < 3.0 | 1050 | < 3.0 | < 3.0 | 1040 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 9/28 | 1029 | < 3.0 | - | 1045 | < 3.0 | - | 1058 | < 3.0 | - | - | - |
| | 1110 | < 3.0 | - | 1101 | < 3.0 | - | 1059 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Median | | | | 3.0 | | | | 3.0 | | | |
| Log Average | | | | 3.1 | | | | 3.1 | | | |

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OCEAN EAST
AREA NO. 2
WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

SAMPLING POINT - 401

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.C.D. |
|----------|------|-----------|-----|------------------|------------|------|--------|
| 4/19 | 0940 | 19,000 | 7.5 | 58 | - | 9.2 | 2 |
| 6/19 | 1015 | 18,800 | 7.6 | 34 | 15.4 | 7.0 | 2 *** |
| 7/24 | 1005 | 19,600 | 7.2 | 30 | 21.4 | 6.8 | 2 *** |
| 8/16 | 0920 | 19,000 | 8.0 | 35 | 17.8 | 8.2 | 2 |
| 9/28 | 0938 | 18,200 | 7.5 | 35 | 19.0 | 7.2 | <1 |
| Averages | | 18,900 | 7.6 | 38 | 18.4 | 7.7 | 2 |

Notes (1) All readings are in mg/l unless otherwise noted.

(2) Chlorides expressed as mg/l Cl.

(3) pH average is Logarithmic

(4) * Designates 4 day B.O.D.

(5) ** Designates 6 day B.O.D.

(6) *** Designates 7 day B.O.D.
(7) **** Designates 8 day B.O.D.

OCEAN EAST
 AREA NO. 2
 WATER QUALITY SURVEY RESULTS

Chem.
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1972

CHEMICAL RESULTS

SAMPLING POINT - 401

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | | |
|----------|------|-----------------|-----------------|-----------------|--------------------------------|-------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | Total |
| 4/19 | 0940 | 0.10 | 0.005 | 0.10 | - | 0.12 | 0.25 |
| 6/19 | 1015 | 0.03 | 0.005 | < 0.01 | 30.9 | 0.18 | 0.23 |
| 7/24 | 1005 | 0.04 | < 0.001 | 0.08 | 31.9 | 0.18 | 0.23 |
| 8/16 | 0920 | < 0.03 | 0.015 | 0.01 | 32.4 | 0.12 | 0.18 |
| 9/28 | 0938 | 0.02 | 0.004 | 0.08 | 32.6 | 0.14 | 0.17 |
| Averages | | 0.04 | 0.006 | 0.06 | 32.0 | 0.15 | 0.21 |

Notes: See Sampling Point - 401

OCEAN EAST
 AREA NO. 2
 WATER QUALITY SURVEY RESULTS

1972

Chem.
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CHEMICAL RESULTS

SAMPLING POINT - 403

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------------|---------|------|--------|
| 4/19 | 1010 | 18,400 | 7.9 | 36 | - | 9.4 | 1 |
| 6/19 | 1035 | 18,600 | 7.8 | 35 | 14.3 | 10.0 | 3 *** |
| 7/24 | 1030 | 18,800 | 7.7 | 27 | 19.4 | 7.8 | 2 ** |
| 8/16 | 0935 | 18,100 | 7.8 | 27 | 18.0 | 9.0 | - |
| 9/28 | 0958 | 18,600 | 7.8 | 31 | 18.7 | 7.2 | <1 |
| Averages | | 18,600 | 7.8 | 31 | 17.6 | 8.8 | 2 |

Notes: See Sampling Point - 401

Chem.
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OCEAN EAST
AREA NO. 2
WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

SAMPLING POINT - 403

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | | |
|----------|------|-----------------|-----------------|-----------------|--------------------------------|-------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | Total |
| 4/19 | 1010 | 0.14 | 0.003 | 0.11 | - | 0.10 | 0.18 |
| 6/19 | 1035 | 0.01 | 0.001 | < 0.01 | 31.2 | 0.10 | 0.12 |
| 7/24 | 1030 | 0.04 | < 0.001 | < 0.01 | 32.4 | 0.08 | 0.10 |
| 8/16 | 0935 | < 0.03 | 0.001 | < 0.01 | 32.0 | 0.07 | 0.11 |
| 9/28 | 0958 | 0.02 | 0.003 | 0.08 | 32.6 | 0.17 | 0.18 |
| Averages | | 0.05 | 0.002 | 0.04 | 32.1 | 0.10 | 0.14 |

Notes: See Sampling Point - 401

OCEAN EAST
AREA NO. 2
WATER QUALITY SURVEY RESULTS

1972

Chem.
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CHEMICAL RESULTS

SAMPLING POINT - 409

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------------|------------|------|--------|
| 4/19 | 1105 | 18,600 | 7.9 | 41 | - | 10.0 | 2 |
| 6/19 | 1120 | 19,200 | 8.0 | 37 | 14.0 | 10.4 | 3 *** |
| 7/24 | 1100 | 20,400 | 7.8 | 24 | 18.4 | 8.4 | 2 *** |
| 8/16 | 1035 | 19,000 | 8.2 | 23 | 18.4 | - | - |
| 9/28 | 1058 | 18,200 | 8.0 | 16 | 18.9 | 7.6 | 1 |
| Averages | | 19,100 | 8.0 | 28 | 17.4 | 9.1 | 2 |

Notes: See Sampling Point - 401

OCEAN EAST
 AREA NO. 2
 WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

SAMPLING POINT - 409

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ ²⁻ | | |
|----------|------|-----------------|-----------------|-----------------|--|-------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | Total |
| 4/19 | 1105 | 0.08 | 0.001 | 0.10 | - | 0.17 | 0.18 |
| 6/19 | 1120 | 0.01 | < 0.001 | < 0.01 | 32.3 | 0.10 | 0.11 |
| 7/24 | 1100 | 0.04 | < 0.001 | < 0.01 | 32.5 | 0.05 | 0.10 |
| 8/16 | 1035 | < 0.03 | < 0.001 | 0.01 | 32.6 | 0.08 | 0.08 |
| 9/28 | 1058 | 0.05 | 0.002 | < 0.05 | 32.4 | 0.08 | 0.15 |
| Averages | | 0.04 | 0.001 | 0.04 | 32.5 | 0.10 | 0.12 |

Notes: See Sampling Point - 401

H E M P S T E A D B A Y

W A T E R Q U A L I T Y

S U R V E Y R E S U L T S

1972

NASSAU COUNTY DEPARTMENT OF HEALTH

John J. Dowling, M.D., M.P.H.

Commissioner of Health

Division of Environmental Health
George H. Sumner, M.C.E., P.E.
Deputy Commissioner

Bureau of Water Pollution Control
Stanley Juczak, M.C.E., P.E.
Director

INTRODUCTION

The purpose of this report is to summarize the chemical and bacteriological results of the samples collected by the Department of Health in Hempstead Bay during 1972.

STUDY AREA

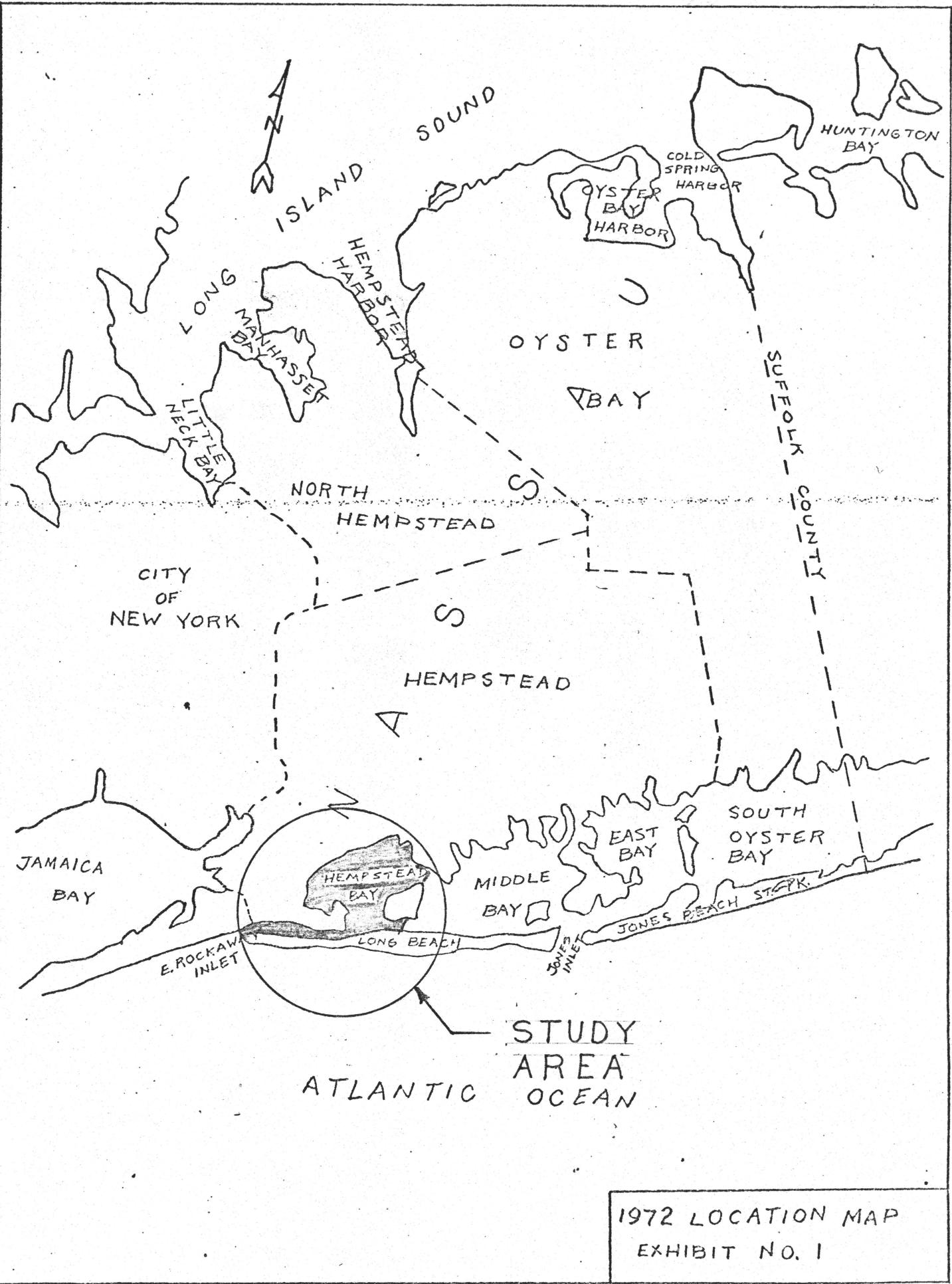
Hempstead Bay is defined as that body of water bounded on the north by the mainland, on the south by the Long Beach barrier island which includes the communities of Atlantic Beach and Long Beach, on the west by the Atlantic Beach Bridge and on the east by the Long Beach Bridge.

Exhibit 1 shows the location of the study area within the County and Exhibit 2 shows the sampling point locations.

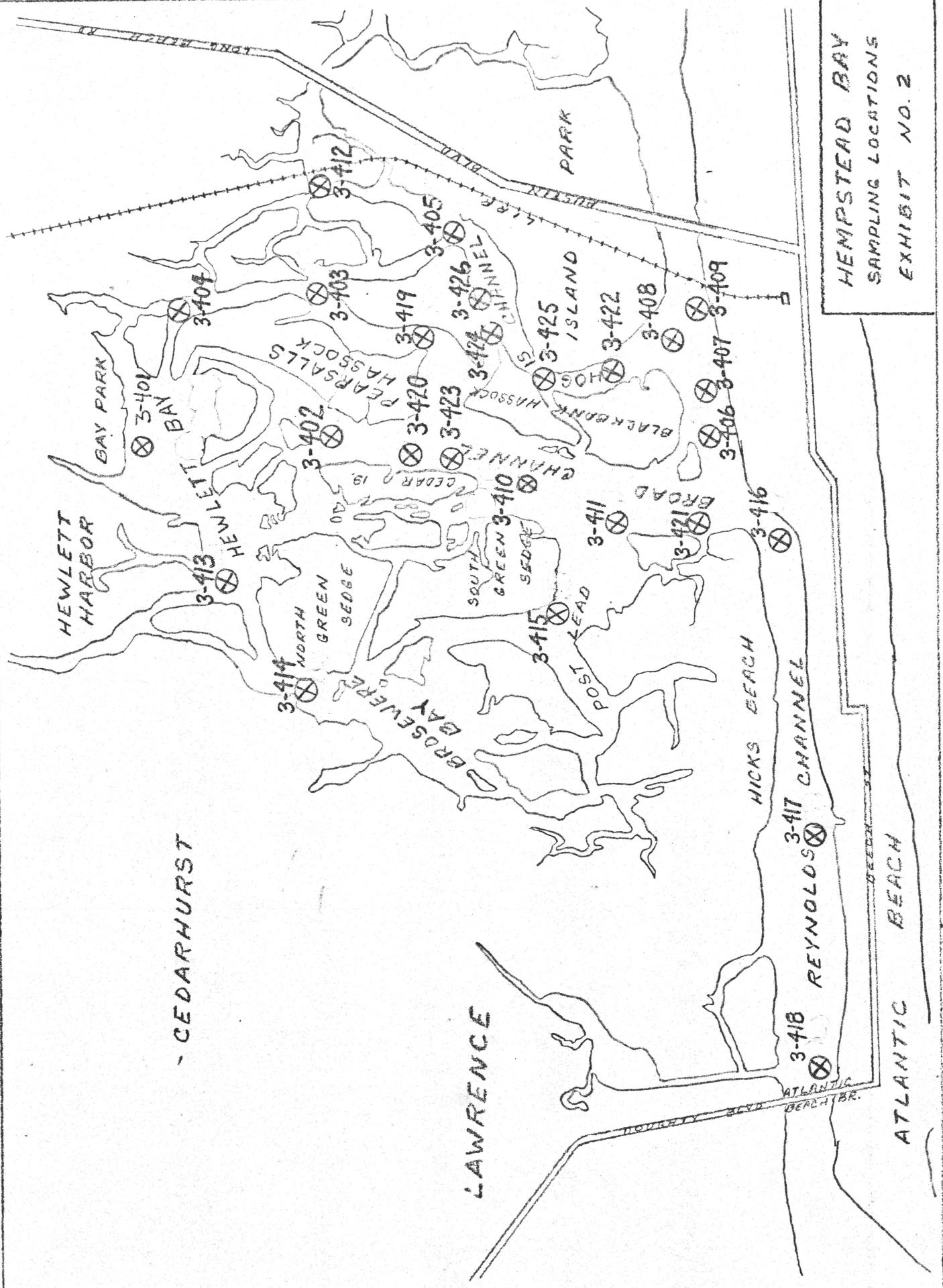
SAMPLING PROCEDURE AND ANALYSES

All samples were collected by Health Department personnel and were analyzed in accordance with the procedures and methods outlined in the 13th edition of Standard Methods. Laboratory analyses were performed by the Health Department's Division of Laboratories and Research.

All bacteriological samples were collected at or near the surface. Most chemical samples were collected approximately 5 feet below the surface.



1972 LOCATION MAP
EXHIBIT NO. 1



HEMPSTEAD BAY
SAMPLING LOCATIONS
EXHIBIT NO. 2

HEMPSTEAD BAY
AREA 3
SAMPLING POINT LOCATIONS

POINT NO.

- 401 Hewlett Bay, approximately 250 yards off Bay Park Beach in line with swimming pool.
- 402 Intersection of Ramscat and Nuns Channels.
- 403 East Rockaway Channel directly north of West Meadow.
- 404 East Rockaway Channel, 200 feet north of Swift Creek.
- 405 Hog Island Channel, approximately 250 feet off shore of the center of Island Park Beach.
- 406 Reynolds Channel, 200 feet southwest of the Bay Park sewage treatment plant outfall chamber.
- 407 Reynolds Channel, 200 feet southeast of the Bay Park sewage treatment plant outfall chamber.
- 408 Reynolds Channel off house on south end of Simmons Hassock.
- * 409 Reynolds Channel over the outfall boil of the Long Beach sewage treatment plant.
- 410 Broad Channel off Town of Hempstead Pole B15.
- 411 Broad Channel 50 feet off Woodsburgh Channel.
- * 412 Hog Island Channel at Barnums Channel.
- 413 Hewlett Bay and Macy Channel.
- 414 Brosewere Bay and Woodsburgh Channel, 100 feet south of house on piles.
- * 415 Post Lead and Woodsburgh Channel .
- * 416 Reynolds Channel in the vicinity of Flashing Green Channel marker "7".
- 417 Reynolds Channel north of Capri Parking Field and vacant lot.
- * 418 Reynolds Channel and Bannister Creek.
- 419 Off the sludge tanker loading site.

HEMPSTEAD BAY

AREA 3

(cont'd)

POINT NO.

- 420 Broad Channel in line with the south end of Pearsalls Hassock.
- 421 In Broad Channel, approximately $\frac{1}{4}$ mile north of Reynolds Channel and west of Black Banks Hassock.
- 422 At the northerly tip of Simmons Hassock between Black Banks Hassock and Harbor Isle, Island Park.
- 423 Immediately west of the most northwesterly tip of Black Banks in Broad Channel off Town of Hempstead pole B 22.
- 424 Hog Island Channel immediately east of East Rockaway Channel.
- 425 Hog Island Channel opposite the northwest corner of Harbor Isle.
- 426 Hog Island Channel between Island Park and Harbor Isle.

TBB:cg
7/24/72

HEMPSTEAD BAY
TIDE AND PRECIPITATION DATA

1972

LOCAL TIME

| <u>Date</u> | <u>High Water</u> H.M. | <u>Low Water</u> H.M. | <u>Precipitation-Inches</u> Freeport |
|-------------|---------------------------|--------------------------|---|
| 1/16 | | | - |
| 1/17 | | | - |
| 1/18 | 0913 | 1523 | - |
| 2/26 | | | 0.20 |
| 2/27 | | | - |
| 2/28 | 0730 | 1334 | - |
| 3/6 | | | - |
| 3/7 | | | - |
| 3/8 | 1329 | 0732 | 0.29 |
| 4/1 | | | - |
| 4/2 | | | - |
| 4/3 | 1033 | 1615 | - |
| 5/6 | | | - |
| 5/7 | | | 0.20 |
| 5/8 | 1648 | 1018 | 0.04 |
| 6/10 | | | 0.09 |
| 6/11 | | | - |
| 6/12 | 0930 | 1416 | - |
| 7/1 | | | - |
| 7/2 | | | - |
| 7/3 | 1356 | 0714 | 0.10 |
| 8/5 | | | - |
| 8/6 | | | - |

| <u>Date</u> | <u>High Water</u> H.M. | <u>Low Water</u> H.M. | <u>Precipitation-Inches</u> Freeport |
|-------------|---------------------------|--------------------------|---|
| 8/7 | 0723 | 1301 | - |
| 9/4 | | | - |
| 9/5 | | | - |
| 9/6 | 0752 | 1339 | - |
| 10/9 | | | - |
| 10/10 | | | - |
| 10/11 | 1106 | 1713 | - |
| 12/2 | | | - |
| 12/3 | | | - |
| 12/4 | 0650 | 1254 | 0.02 |

HEMPSTEAD BAY
AREA NO. 3
WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

SAMPLING POINT - L09

| Date | Time | Chlorides | pH | Alkalinity | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------|------------------|---------|------|--------|
| 1/18 | 1325 | 19,600 | 7.8 | - | 34 | 4.0 | 10.0 | 2 ** |
| 2/28 | 1055 | 14,800 | 7.7 | - | 42 | 2.6 | 10.4 | 4 *** |
| 3/8 | 1235 | 13,800 | 7.7 | - | 33 | 4.3 | 9.8 | 1 |
| 4/3 | 1130 | 17,600 | 7.8 | - | 26 | 6.4 | 10.0 | 4 *** |
| 5/8 | 1235 | 17,400 | 8.0 | - | 32 | 10.0 | 8.0 | 4 *** |
| 6/12 | 1002 | 18,600 | 7.4 | - | 31 | 12.2 | 7.2 | 1 *** |
| 7/3 | 0938 | 16,400 | 7.2 | - | 28 | 21.8 | 5.4 | 2 *** |
| 8/7 | 1000 | 16,800 | 7.6 | - | 19 | 22.5 | 5.0 | 2 *** |
| 9/6 | 1053 | 16,800 | 7.5 | - | 26 | 21.7 | 4.2 | < 1 |
| 10/11 | 0935 | 18,200 | 7.6 | - | 25 | 13.6 | 7.2 | 2 |
| 12/4 | 1135 | 15,600 | 7.7 | - | 53 | 7.9 | 8.6 | 5 *** |
| Averages | | 16,900 | 7.6 | | 32 | 11.5 | 7.8 | 3 |

Notes: (1) All readings are in mg/l unless otherwise noted.

(2) Chlorides expressed as mg/l Cl.

(3) pH average is Logarithmic

(4) * Designates 1 day B.O.D.

(5) ** Designates 6 day B.O.D.

(6) *** Designates 7 day B.O.D.

(7) **** Designates 8 day B.O.D.

HEMPSTEAD BAY
AREA NO. 3
WATER QUALITY SURVEY RESULTS

Chem.
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1972

CHEMICAL RESULTS

SAMPLING POINT - 409

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ ³⁻ | |
|----------|------|-----------------|-----------------|-----------------|--|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho |
| 1/18 | 1325 | 0.32 | 0.007 | 0.11 | 30.9 | 0.36 |
| 2/28 | 1055 | 0.95 | 0.025 | 0.19 | 29.7 | 1.94 |
| 3/8 | 1235 | 0.94 | 0.028 | 0.29 | 28.4 | 3.45 |
| 4/3 | 1130 | 0.48 | 0.006 | 0.09 | 29.7 | 0.75 |
| 5/8 | 1235 | 0.47 | 0.017 | < 0.05 | - | 0.82 |
| 6/12 | 1002 | 0.11 | 0.004 | < 0.01 | 32.2 | 0.29 |
| 7/3 | 0938 | 0.55 | 0.024 | 0.06 | 27.8 | 0.82 |
| 8/7 | 1000 | 0.76 | 0.035 | 0.13 | 30.8 | 2.36 |
| 9/6 | 1053 | 0.86 | 0.025 | 0.11 | 30.9 | 1.18 |
| 10/11 | 0935 | 0.27 | 0.041 | 0.15 | 31.0 | 0.75 |
| 12/4 | 1135 | 1.90 | 0.037 | 0.45 | 32.7 | 1.80 |
| Averages | | 0.69 | 0.023 | 0.15 | 30.4 | 1.32 |
| | | | | | | 1.60 |

Notes: See Sampling Point - 409

HEMPSTEAD BAY
AREA NO. 3
WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

SAMPLING POINT - L12

| Date | Time | Chlorides | pH | Alkalinity | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------|------------------|---------|------|--------|
| 1/18 | 1050 | 18,600 | 7.5 | - | 33 | 2.2 | 10.2 | 2 ** |
| 2/28 | 1130 | 17,400 | 7.6 | - | 35 | 2.3 | 10.0 | 3 *** |
| 3/8 | 1020 | 17,600 | 7.0 | - | 20 | 3.8 | 10.0 | 2 |
| 4/3 | 1000 | 18,000 | 7.8 | - | 23 | 6.4 | 9.8 | 3 *** |
| 5/8 | 1300 | 17,200 | 7.9 | - | 27 | 12.0 | 7.8 | 3 *** |
| 6/12 | 1027 | 17,400 | 7.6 | - | 22 | 16.5 | 6.6 | 2 *** |
| 7/3 | 1000 | 16,200 | 7.3 | - | 32 | 22.3 | 5.4 | 2 *** |
| 8/7 | 1040 | 18,600 | 7.6 | - | 28 | 23.1 | 5.4 | 2 *** |
| 9/6 | 1130 | 17,800 | 7.5 | - | 23 | 21.9 | 4.8 | 1 |
| 10/11 | 0955 | 17,600 | 7.5 | - | 18 | 14.6 | 6.8 | 1 |
| 12/4 | 1215 | 16,800 | 7.9 | - | 44 | 6.1 | 8.0 | 2 *** |
| Averages | | 17,600 | 7.6 | | 28 | 11.9 | 7.7 | 2 |

Notes: See Sampling Point - 109

HEMPSTEAD BAY
AREA NO. 3
WATER QUALITY SURVEY RESULTS

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1972

CHEMICAL RESULTS

SAMPLING POINT - 412

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | | |
|----------|------|-----------------|-----------------|-----------------|--------------------------------|-------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | Total |
| 1/18 | 1050 | 0.92 | 0.023 | 0.20 | 30.8 | 0.67 | 0.82 |
| 2/28 | 1130 | 0.18 | 0.010 | 0.09 | 28.7 | 0.46 | 0.67 |
| 3/8 | 1020 | 0.24 | 0.012 | 0.20 | 28.9 | 0.52 | 0.69 |
| 4/3 | 1000 | 0.36 | 0.010 | 0.07 | 29.8 | 0.54 | 0.65 |
| 5/8 | 1300 | 0.37 | 0.019 | < 0.05 | - | 0.65 | 1.18 |
| 6/12 | 1027 | 0.43 | 0.014 | < 0.01 | 30.2 | 0.61 | 0.63 |
| 7/3 | 1000 | 0.58 | 0.029 | < 0.05 | 27.2 | 0.75 | 0.85 |
| 8/7 | 1040 | 0.39 | 0.035 | 0.15 | 30.6 | 0.80 | 1.60 |
| 9/6 | 1130 | 0.38 | 0.028 | 0.18 | 30.5 | 0.90 | 1.11 |
| 10/11 | 0955 | 0.31 | 0.058 | 0.24 | 29.9 | 0.73 | 0.87 |
| 12/4 | 1215 | 0.56 | 0.043 | 0.34 | 30.7 | 0.59 | 0.73 |
| Averages | | 0.43 | 0.026 | 0.14 | 29.8 | 0.66 | 0.89 |

Notes: See Sampling Point - 409

HEMPSTEAD BAY
AREA NO. 3
WATER QUALITY SURVEY RESULTS

Chem.
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1972

CHEMICAL RESULTS

SAMPLING POINT - 415

| Date | Time | Chlorides | pH | Alkalinity | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------|------------------|---------|------|--------|
| 1/18 | 1152 | 19,200 | 7.6 | - | 36 | 2.0 | 10.2 | 2 ** |
| 2/28 | 0938 | 18,400 | 6.9 | - | 30 | 2.0 | 10.6 | 3 *** |
| 3/8 | 1126 | 17,600 | 7.5 | - | 29 | 3.5 | 10.2 | 2 |
| 4/3 | 1050 | 18,000 | 7.8 | - | 24 | 6.5 | 10.4 | 3 *** |
| 5/8 | 1200 | 17,800 | 6.9 | - | 33 | 12.0 | 8.2 | 4 *** |
| 6/12 | 1125 | 18,200 | 7.7 | - | 36 | 14.5 | 6.8 | 2 *** |
| 7/3 | 1050 | 16,600 | 7.5 | - | 35 | 21.6 | 5.8 | 4 *** |
| 8/7 | 0900 | 18,200 | 7.4 | - | 20 | 22.4 | 4.8 | 1 *** |
| 9/6 | 0920 | 18,000 | 7.7 | - | 26 | 20.8 | 5.0 | 2 |
| 10/11 | 1040 | 18,200 | 7.8 | - | 24 | 14.8 | 7.4 | 2 |
| 12/4 | 1008 | 17,800 | 7.4 | - | 30 | 6.8 | 8.2 | 2 *** |
| Averages | | 18,000 | 7.5 | | 29 | 11.5 | 8.0 | 2 |

Notes: See Sampling Point - 409

HEMPSTEAD BAY
AREA NO. 3
 WATER QUALITY SURVEY RESULTS

Chem.
 6 of 10

1972

CHEMICAL RESULTS

SAMPLING POINT - 415

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | |
|----------|------|-----------------|-----------------|-----------------|--------------------------------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho |
| 1/18 | 1152 | 0.63 | 0.016 | 0.16 | 30.7 | 0.54 |
| 2/28 | 0938 | 0.22 | 0.010 | 0.15 | 30.0 | 0.55 |
| 3/8 | 1126 | 0.29 | 0.014 | 0.19 | 29.5 | 0.57 |
| 4/3 | 1050 | 0.23 | 0.007 | 0.08 | 30.3 | 0.50 |
| 5/8 | 1200 | 0.17 | 0.016 | < 0.05 | - | 0.78 |
| 6/12 | 1125 | 0.25 | 0.010 | < 0.01 | 31.5 | 0.48 |
| 7/3 | 1050 | 0.50 | 0.022 | < 0.05 | 28.3 | 0.75 |
| 8/7 | 0900 | 0.37 | 0.029 | 0.10 | 31.1 | 0.67 |
| 9/6 | 0920 | 0.19 | 0.015 | < 0.05 | 31.5 | 0.48 |
| 10/11 | 1040 | 0.19 | 0.031 | 0.12 | 31.5 | 0.61 |
| 12/4 | 1008 | 0.52 | 0.042 | 0.30 | 33.0 | 0.48 |
| Averages | | 0.35 | 0.019 | 0.11 | 30.8 | 0.58 |
| | | | | | | 0.67 |
| | | | | | | 0.76 |

Notes: See Sampling Point - 409

HEMPSTEAD BAY
AREA NO. 3
WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

| Date | Time | Chlorides | pH | Alkalinity | SAMPLING POINT - 416 | | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------|----------------------|--------|------------|-------|--------|
| | | | | | Suspended Solids | Solids | | | |
| 1/18 | 1207 | 18,800 | 7.8 | - | 4.9 | 3.9 | 10.2 | 2 ** | |
| 2/28 | 0950 | 18,200 | 7.4 | - | 35 | 2.1 | 10.4 | 3 *** | |
| 3/8 | 1145 | 18,200 | 7.7 | - | 25 | 3.3 | 10.2 | 2 | |
| 4/3 | 1100 | 18,400 | 7.9 | - | 32 | 6.1 | 10.2 | 3 *** | |
| 5/8 | 1211 | 18,600 | 7.2 | - | 31 | 11.0 | 7.8 | 4 *** | |
| 6/12 | 1137 | 18,200 | 7.7 | - | 30 | 12.9 | 7.6 | 2 *** | |
| 7/3 | 1105 | 16,600 | 7.5 | - | 32 | 20.8 | 5.4 | 2 *** | |
| 8/7 | 0925 | 18,800 | 7.8 | - | 17 | 22.1 | 6.4 | 2 *** | |
| 9/6 | 0957 | 18,200 | 7.6 | - | 23 | 21.5 | 5.2 | < 1 | |
| 10/11 | 1105 | 20,000 | 7.8 | - | 39 | 15.8 | 7.6 | 4 | |
| 12/4 | 1037 | 18,000 | 7.6 | - | 32 | 8.0 | 8.2 | 2 *** | |
| Averages | | 18,400 | 7.6 | | 31 | 11.6 | 8.1 | 2 | |

Notes: See Sampling Point - 409

HEMPSTEAD BAY
AREA NO. 3
WATER QUALITY SURVEY RESULTS

1972

Chem.
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CHEMICAL RESULTS

SAMPLING POINT - 416

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ ³⁻ | | |
|----------|------|-----------------|-----------------|-----------------|--|-------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | Total |
| 1/18 | 1207 | 0.36 | 0.009 | 0.10 | 31.5 | 0.36 | 0.39 |
| 2/28 | 0950 | 0.13 | 0.006 | 0.15 | 30.8 | 0.43 | 0.55 |
| 3/8 | 1145 | 0.26 | 0.015 | 0.19 | 29.8 | 0.59 | 0.73 |
| 4/3 | 1100 | 0.20 | 0.003 | 0.07 | 29.9 | 0.31 | 0.43 |
| 5/8 | 1211 | 0.38 | 0.015 | < 0.05 | - | 0.69 | 1.18 |
| 6/12 | 1137 | 0.49 | 0.004 | < 0.01 | 32.2 | 0.63 | 0.71 |
| 7/3 | 1105 | 0.42 | 0.015 | < 0.05 | 28.8 | 0.57 | 0.73 |
| 8/7 | 0925 | 0.26 | 0.014 | < 0.05 | 31.4 | 0.44 | 0.78 |
| 9/6 | 0957 | 0.17 | 0.012 | < 0.05 | 31.3 | 0.52 | 0.61 |
| 10/11 | 1105 | 0.06 | 0.004 | 0.10 | 32.8 | 0.29 | 0.29 |
| 12/4 | 1037 | 0.56 | 0.019 | 0.05 | 32.9 | 0.61 | 0.75 |
| Averages | | 0.30 | 0.011 | 0.08 | 31.1 | 0.49 | 0.65 |

Notes: See Sampling Point - 409

HEMPSTEAD BAY
AREA NO. 3
WATER QUALITY SURVEY RESULTS
1972

Chem.
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CHEMICAL RESULTS

SAMPLING POINT - 418

| Date | Time | Chlorides | pH | Alkalinity | Suspended Solids | Temp C | D.O. | B.O.D. |
|-----------------|------|-----------|-----|------------|------------------|--------|------|--------|
| 1/18 | 1225 | 19,400 | 7.8 | - | 38 | 4.2 | 10.0 | 2 ** |
| 2/28 | 1010 | 18,400 | 7.3 | - | 32 | 2.5 | 10.6 | 3 *** |
| 3/8 | 1207 | 16,400 | 7.9 | - | 36 | 3.3 | 10.6 | 3 |
| 4/3 | 1110 | 18,400 | 7.8 | - | 27 | 4.8 | 10.2 | 2 *** |
| 5/8 | 1220 | 18,600 | 7.9 | - | 29 | 9.0 | 9.6 | 3 *** |
| 6/12 | 1147 | 18,600 | 7.9 | - | 34 | 10.5 | 8.2 | 2 *** |
| 7/3 | 1115 | 17,800 | 8.0 | - | 23 | 19.5 | 8.4 | 2 *** |
| 8/7 | 0936 | 18,800 | 8.0 | - | 18 | 21.8 | 7.2 | 1 *** |
| 9/6 | 1020 | 18,400 | 7.9 | - | 26 | 20.7 | 6.0 | 1 |
| 10/11 | 1115 | 18,400 | 7.9 | - | 26 | 15.6 | 8.0 | 1 |
| 12/4 | 1100 | 19,200 | 7.9 | - | 33 | 9.2 | 8.6 | 1 *** |
| Averages | | 18,400 | 7.8 | | 29 | 11.0 | 8.9 | 2 |

Notes: See Sampling Point - 409

HEMPSTEAD BAY
AREA NO. 3
WATER QUALITY SURVEY RESULTS

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1972

CHEMICAL RESULTS

SAMPLING POINT - 418

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | |
|----------|------|-----------------|-----------------|-----------------|--------------------------------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho |
| 1/18 | 1225 | 0.12 | 0.004 | 0.12 | 31.4 | 0.19 |
| 2/28 | 1010 | 0.13 | 0.009 | 0.15 | 30.6 | 0.26 |
| 3/8 | 1207 | 0.10 | 0.009 | 0.25 | 28.3 | 0.25 |
| 4/3 | 1110 | 0.07 | 0.001 | 0.08 | 31.8 | 0.15 |
| 5/8 | 1220 | 0.09 | 0.009 | < 0.05 | - | 0.26 |
| 6/12 | 1147 | 0.14 | 0.001 | < 0.01 | 33.3 | 0.10 |
| 7/3 | 1115 | 0.03 | 0.001 | < 0.05 | 29.8 | 0.14 |
| 8/7 | 0936 | 0.03 | 0.003 | < 0.05 | 31.8 | 0.12 |
| 9/6 | 1020 | 0.04 | 0.004 | < 0.05 | 31.9 | 0.18 |
| 10/11 | 1115 | 0.06 | 0.007 | 0.01 | 32.8 | 0.23 |
| 12/4 | 1100 | 0.08 | 0.009 | 0.02 | 32.5 | 0.18 |
| Averages | | 0.08 | 0.005 | 0.08 | 31.4 | 0.19 |
| | | | | | | 0.20 |
| | | | | | | 0.30 |

Notes: See Sampling Point - 409

HEMPSTEAD BAY
AREA NO. 3
WATER QUALITY SURVEY RESULTS
1972

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BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

Sampling Point No. 401

| Date | Time | Total | Fecal | Time | Total | Fecal | Time | Total | Fecal |
|-------------|------|-------|-------|------|--------|--------|------|-------|-------|
| 1/18 | 1120 | 15 | 9.1 | 1250 | 15 | 3.6 | 1106 | 240 | 15 |
| 2/28 | 0900 | 93 | 23 | 0915 | 43 | 43 | 1145 | 150 | 43 |
| 3/8 | 1055 | 240 | 93 | 1110 | >24000 | >24000 | 1040 | 2400 | 240 |
| 4/3 | 1025 | 3.6 | 3.6 | 1032 | 9.1 | 9.1 | 1010 | 23 | <3.0 |
| 5/8 | 1127 | 93 | <3.0 | 1143 | 23 | 23 | 1310 | 93 | <3.0 |
| 6/12 | 1050 | 43 | 23 | 1056 | 93 | 9.1 | 1040 | 930 | 9.1 |
| 7/3 | 1022 | 93 | 43 | 1035 | 1500 | 1500 | 1012 | 2400 | 2400 |
| 8/7 | 0830 | 160 | 43 | 0840 | 23 | 9.1 | 1100 | 43 | 9.1 |
| 9/6 | 0845 | 43 | 43 | 0859 | 23 | 9.1 | 1147 | 23 | 9.1 |
| 10/11 | 1017 | 23 | 9.1 | 1025 | 430 | 240 | 1007 | 240 | 240 |
| 11/1 | 0933 | 150 | 43 | 0947 | 240 | 23 | 1225 | 240 | 93 |
| 12/4 | 0930 | 240 | 0945 | 930 | 430 | 1232 | 430 | 150 | 150 |
| Median | | 93.0 | 33.0 | | 68.0 | 23.0 | | 240.0 | 29.0 |
| Log Average | | 60.8 | 24.0 | | 129.8 | 59.8 | | 215.6 | 37.8 |

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HEMPSTEAD BAY
AREA NO. 3
WATER QUALITY SURVEY RESULTS
1972

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BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

| Sampling Point No. 404 | | | | Sampling Point No. 405 | | | | Sampling Point No. 406 | | | |
|------------------------|------|-------|-------|------------------------|------|-------|-------|------------------------|------|---------|---------|
| Date | Time | Total | Fecal | Date | Time | Total | Fecal | Date | Time | Total | Fecal |
| 1/18 | 1111 | 23 | 9.1 | | | 1039 | 23 | | 1302 | 240 | 23 |
| 2/28 | 1140 | 390 | 15 | | | 1120 | 43 | 15 | 1040 | 43 | 23 |
| 3/8 | 1045 | 930 | 75 | | | 1012 | 240 | 43 | 1220 | 1600 | 290 |
| 4/3 | 1005 | 23 | <3.0 | | | 0950 | 23 | 3.6 | 1120 | 430 | 11 |
| 5/8 | 1315 | 93 | 23 | | | 1252 | 93 | 3.6 | 1230 | 93 | 3.6 |
| 6/12 | 1043 | 430 | 23 | | | 1020 | 240 | 43 | 1202 | 930 | 23 |
| 7/3 | 1015 | 750 | 430 | | | 0955 | 930 | 150 | 1130 | 2400 | 2400 |
| 8/7 | 1105 | 43 | 9.1 | | | 1028 | 43 | 15 | 0948 | 150 | 150 |
| 9/6 | 1200 | 23 | 23 | | | 1125 | 23 | 9.1 | 1036 | > 24000 | > 24000 |
| 10/11 | 1010 | 93 | 93 | | | 0950 | 930 | 240 | 1125 | 240 | 43 |
| 11/1 | 1147 | 93 | 93 | | | 1137 | 4600 | 4600 | 1113 | 2400 | 93 |
| 12/4 | 1227 | 750 | 43 | | | 1200 | 430 | 93 | 1124 | 930 | 240 |
| | | | | | | | | | | | |
| Median | | 93.0 | 23.0 | | | 166.5 | 33.0 | | | 680.0 | 68.0 |
| Log Average | | 135.1 | 30.1 | | | 155.9 | 40.1 | | | 669.9 | 101.2 |

HEMPSTEAD BAY
AREA NO. 3
WATER QUALITY SURVEY RESULTS

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BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

| Date | Time | Sampling Point No. 407 | | | Sampling Point No. 408 | | | Sampling Point No. 409 | | |
|-------------|------|------------------------|-------|------|------------------------|-------|------|------------------------|-------|------|
| | | Total | Fecal | Time | Total | Fecal | Time | Total | Fecal | Time |
| 1/18 | 1307 | 430 | 43 | 1017 | 15 | 3.6 | 1325 | 93 | 39 | |
| 2/28 | 1042 | 43 | 9.1 | 1050 | 93 | 43 | 1055 | 43 | 15 | |
| 3/8 | 1222 | 2400 | 930 | 1225 | 4600 | 930 | 1235 | 2400 | 430 | |
| 4/3 | 1121 | 210 | 43 | 1125 | 23 | 9.1 | 1130 | 93 | 15 | |
| 5/8 | 1231 | 430 | 23 | 1230 | 240 | 15 | 1235 | 430 | 93 | |
| 6/12 | 1204 | 430 | 7.3 | 1208 | 930 | 43 | 1002 | 150 | 15 | |
| 7/3 | 1131 | 2400 | 2400 | 0940 | 930 | 240 | 0938 | 930 | 930 | |
| 8/7 | 0950 | 150 | 43 | 0955 | 43 | 23 | 1000 | 240 | 93 | |
| 9/6 | 1038 | 2400 | 430 | 1049 | 43 | 9.1 | 1053 | 43 | 23 | |
| 10/11 | 1126 | 75 | 9.1 | 1130 | 93 | 93 | 0935 | 2400 | 240 | |
| 11/1 | 1114 | 11000 | 750 | 1117 | 930 | 930 | 1120 | 2400 | 430 | |
| 12/4 | 1125 | 4600 | 2400 | 1130 | 11000 | 1500 | 1135 | 4600 | 750 | |
| Median | | 430.0 | 43.0 | | 64.8 | 43.0 | | 335.0 | | 93.0 |
| Log Average | | 649.6 | 105.5 | | 247.9 | 166.5 | | 395.5 | | 98.3 |

HEMPSTEAD BAY
 AREA NO. 3
WATER QUALITY SURVEY RESULTS

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BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

| Sampling Point No. 410 | | | | Sampling Point No. 411 | | | | Sampling Point No. 412 | | | |
|------------------------|------|-------|-------|------------------------|---------|-------|------|------------------------|-------|-------|-------|
| Date | Time | Total | Fecal | Time | Total | Fecal | Time | Time | Total | Fecal | Fecal |
| 1/18 | 1240 | 93 | 9.1 | 1154 | 9.1 | 9.1 | 1050 | 43 | 9.1 | | |
| 2/28 | 0925 | 150 | 23 | 0940 | 240 | 43 | 1130 | 43 | 15 | | |
| 3/8 | 1117 | 2400 | 2400 | 1130 | > 24000 | 2400 | 1020 | 240 | 23 | | |
| 4/3 | 1040 | 9.1 | < 3.0 | 1052 | 23 | < 3.0 | 1000 | 23 | < 3.0 | | |
| 5/8 | 1153 | 23 | 23 | 1205 | 430 | 9.1 | 1300 | 43 | 9.1 | | |
| 6/12 | 1109 | 43 | 7.3 | 1128 | 430 | 7.3 | 1027 | 240 | 23 | | |
| 7/3 | 1043 | 4600 | 2400 | 1045 | 4600 | 930 | 1000 | 240 | 43 | | |
| 8/7 | 0850 | 93 | 3.6 | 0915 | 39 | 9.1 | 1040 | 93 | 23 | | |
| 9/6 | 0911 | 43 | 23 | 0945 | 23 | 9.1 | 1130 | 43 | < 3.0 | | |
| 10/11 | 1032 | 430 | 75 | 1035 | 240 | 240 | 0955 | 430 | 43 | | |
| 11/1 | 0955 | 930 | 430 | 0957 | 930 | 240 | 1141 | 93 | 23 | | |
| 12/4 | 0958 | 930 | 240 | 1000 | 2100 | 1500 | 1215 | 930 | 930 | | |
| Median | | 121.5 | 23.0 | | 335.0 | 26.0 | | | 93.0 | 23.0 | |
| Log Average | | 188.9 | 52.0 | | 294.8 | 57.3 | | | 111.7 | 20.5 | |

HEMPSTEAD BAY
AREA NO. 3
WATER QUALITY SURVEY RESULTS

1972

BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100:

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HEMPSTEAD BAY
AREA NO. 3
WATER QUALITY SURVEY RESULTS

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BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

Sampling Point No. 416

Sampling Point No. 417

Sampling Point No. 418

| Date | Time | Total | Fecal | Time | Total | Fecal | Time | Total | Fecal |
|-------------|------|--------|--------|------|-------|-------|------|-------|-------|
| 1/18 | 1207 | >24000 | 4600 | 1210 | 43 | 43 | 1225 | 430 | 240 |
| 2/28 | 0950 | 93 | 15 | 1000 | 23 | 9.1 | 1010 | 9.1 | 3.6 |
| 3/8 | 1145 | 11000 | 11000 | 1152 | 4600 | 2400 | 1207 | 240 | 240 |
| 4/3 | 1100 | 43 | 23 | 1115 | 23 | < 3.0 | 1110 | 3.6 | < 3.0 |
| 5/8 | 1211 | 240 | < 3.0 | 1215 | 150 | 23 | 1220 | 23 | 9.1 |
| 6/12 | 1137 | 23 | < 3.0 | 1144 | 43 | 9.1 | 1147 | 23 | 3.6 |
| 7/3 | 1105 | 11000 | 4600 | 1110 | 930 | 430 | 1115 | 75 | 3.6 |
| 8/7 | 0925 | 93 | 93 | 0930 | 930 | 240 | 0936 | 93 | 23 |
| 9/6 | 0957 | 23 | 23 | 1005 | 15 | < 3.0 | 1020 | 23 | 23 |
| 10/11 | 1105 | 9.1 | 9.1 | 1110 | 43 | < 3.0 | 1115 | 43 | 43 |
| 11/1 | 1028 | >24000 | >24000 | 1034 | 11000 | 4600 | 1043 | 11000 | 2400 |
| 12/4 | 1037 | 2400 | 2400 | 1045 | 2400 | 430 | 1100 | 430 | 240 |
| Median | | 166.5 | 58.0 | | 96.5 | 33.0 | | 59.0 | 23.0 |
| Log Average | | 451.6 | 174.7 | | 215.3 | 56.6 | | 78.9 | 31.5 |

HEMPSTEAD BAY
AREA NO. 3
WATER QUALITY SURVEY RESULTS
1972

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BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

| Date | Time | Sampling Point No. 419 | | Sampling Point No. 420 | | Sampling Point No. 421 | | | |
|-------------|------|------------------------|-------|------------------------|-------|------------------------|-------|---------|-------|
| | | Total | Fecal | Total | Fecal | Total | Fecal | | |
| 1/18 | 1100 | 23 | 23 | 1245 | 15 | 3.6 | 1158 | 43 | 23 |
| 2/28 | 1155 | 93 | 23 | 0920 | 93 | 9.1 | 0945 | 75 | 9.1 |
| 3/8 | 1035 | 2400 | 930 | 1112 | 4600 | 2400 | 1135 | > 24000 | 2400 |
| 4/3 | 1013 | 93 | 9.1 | 1035 | 15 | 9.1 | 1055 | 23 | 23 |
| 5/8 | 1308 | 93 | 3.6 | 1145 | 23 | 23 | 1207 | 240 | 3.6 |
| 6/12 | 1037 | 240 | 43 | 1058 | 240 | 9.1 | 1132 | 23 | 9.1 |
| 7/3 | 1010 | 240 | 93 | 1038 | 930 | 430 | 1100 | 1500 | 1500 |
| 8/7 | 1053 | 23 | 23 | 0845 | 93 | 7.3 | 0920 | 39 | 23 |
| 9/6 | 1140 | 23 | < 3.0 | 0903 | 93 | 3.6 | 0947 | 23 | < 3.0 |
| 10/11 | 1005 | 930 | 75 | 1027 | 930 | 430 | 1053 | 430 | 93 |
| 11/1 | 1230 | 240 | 23 | 0948 | 93 | 23 | 1024 | 240 | 93 |
| 12/4 | 1239 | 150 | 150 | 0948 | 240 | 93 | 1030 | 2400 | 930 |
| Median | | 121.5 | 23.0 | | 93.0 | 16.0 | | 157.5 | 23.0 |
| Log Average | | 137.4 | 32.0 | | 145.3 | 32.8 | | 196.3 | 51.1 |

HEMPSTEAD BAY
AREA NO. 3
WATER QUALITY SURVEY RESULTS

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BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

| Sampling Point No. 422 | | | | Sampling Point No. 423 | | | | Sampling Point No. 424 | | | |
|------------------------|------|-------|-------|------------------------|-------|-------|-------|------------------------|-------|-------|-------|
| Date | Time | Total | Fecal | Date | Time | Total | Fecal | Date | Time | Total | Fecal |
| 1/18 | 1025 | 240 | 23 | | 1242 | 75 | 39 | | 1032 | 23 | 23 |
| 2/28 | 1102 | 93 | 15 | | 0921 | 93 | 15 | | 1112 | 430 | 43 |
| 3/8 | 1000 | 4600 | 430 | | 1115 | 2400 | 2400 | | 1005 | 11000 | 4300 |
| 4/3 | 0940 | 23 | 3.6 | | 1037 | 15 | 15 | | 0945 | 43 | 23 |
| 5/8 | 1240 | 240 | 23 | | 1148 | 93 | 15 | | 1246 | 43 | 23 |
| 6/12 | 1009 | 240 | 23 | | 1100 | 240 | 94 | | 1044 | 240 | - |
| 7/3 | 0945 | 430 | 430 | | 1040 | 430 | 150 | | 0949 | 430 | 430 |
| 8/7 | 1007 | 240 | 240 | | 0847 | 93 | 93 | | 1017 | 93 | 43 |
| 9/6 | 1105 | 43 | 7.3 | | 0906 | 43 | 3.6 | | 1115 | 93 | 93 |
| 10/11 | 0940 | 240 | 93 | | 1030 | 930 | 240 | | 0945 | 430 | 430 |
| 11/1 | 1125 | 930 | 93 | | 0950 | 240 | 93 | | 1130 | 430 | 240 |
| 12/4 | 1140 | 4600 | 2400 | | 0251 | 750 | 390 | | 1150 | 390 | 240 |
| Median | | 240.0 | 58.0 | | 166.5 | 66.0 | | | 315.0 | 93.0 | |
| Log Average | | 303.9 | 63.6 | | 185.1 | 57.5 | | | 220.1 | 99.6 | |

MIDDLE BAY
WATER QUALITY
SURVEY RESULTS

1972

NASSAU COUNTY DEPARTMENT OF HEALTH

John J. Dowling, M.D., M.P.H.

Commissioner of Health

Division of Environmental Health
George H. Sumner, M.C.E., P.E.
Deputy Commissioner

Bureau of Water Pollution Control
Stanley Juczak, M.C.E., P.E.
Director

INTRODUCTION

The purpose of this paper is to summarize the chemical and bacteriological results of the samples collected by the Department of Health in Middle Bay during 1972.

STUDY AREA

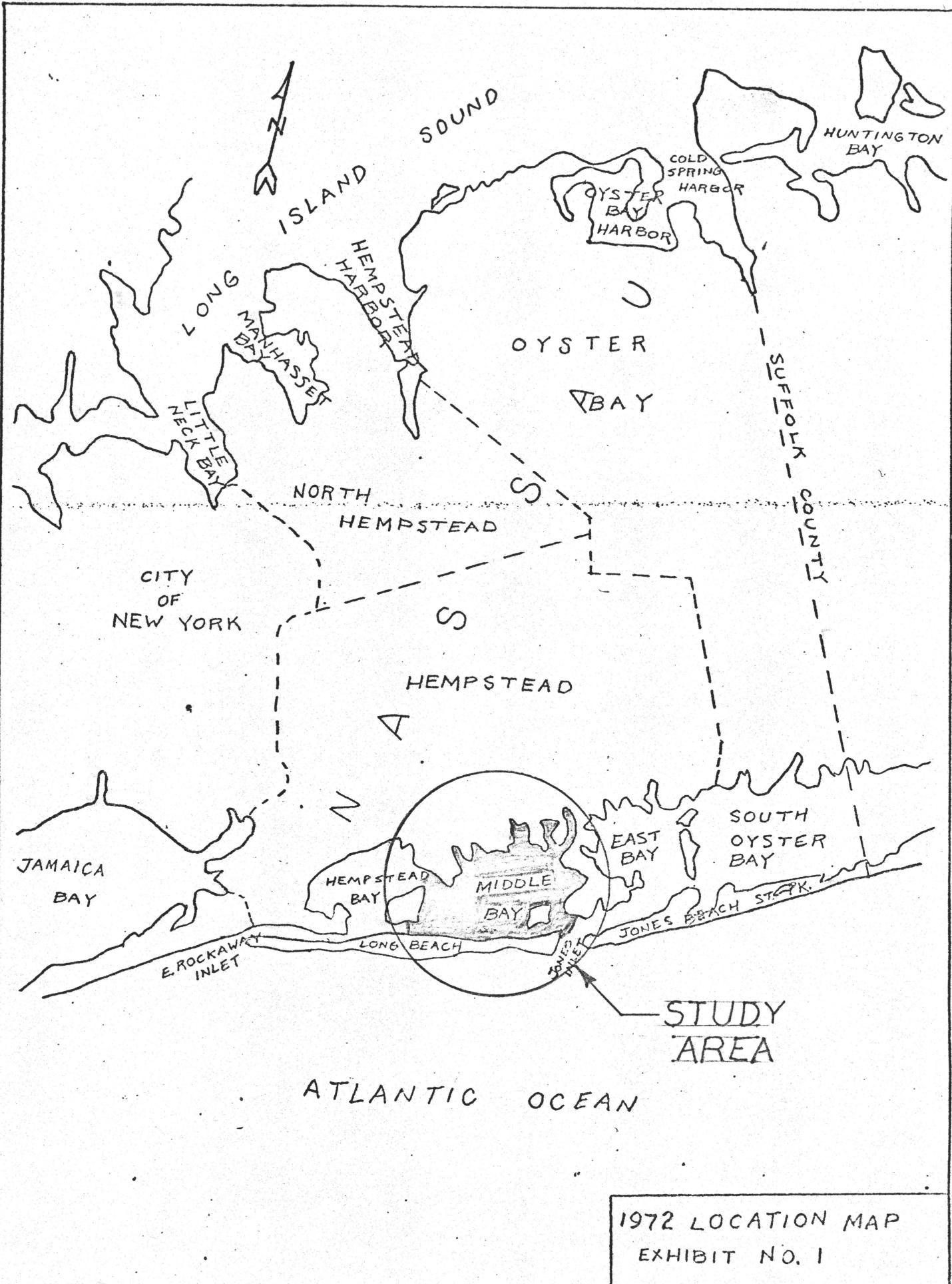
Middle Bay has been redefined as the body of water bounded on the east by the Meadowbrook Parkway, on the south by the Long Beach barrier island and Loop Parkway including, in addition, an area north and west of a line extending from Point Lookout to the southwest tip of Meadow Island. The bay is bounded on the west by the Long Beach Boulevard bridge and on the north by the mainland.

Exhibit I shows the location of Middle Bay and Exhibit 2 shows the details of the sampling locations.

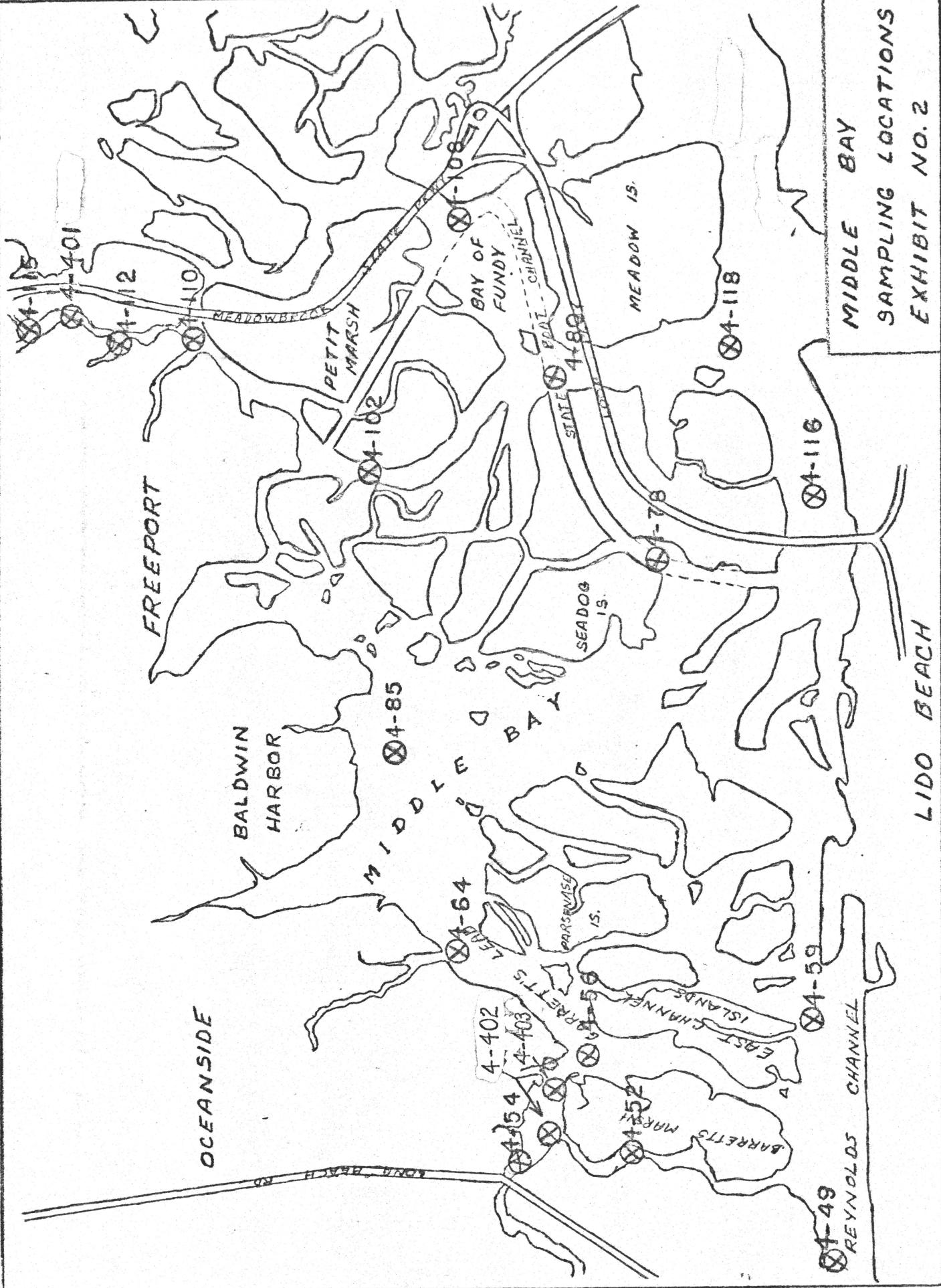
SAMPLING PROCEDURE AND ANALYSES

All samples were collected by personnel from the Health Department and were analyzed in accordance with the procedures and methods outlined in the 13th edition of Standard Methods. Laboratory analyses were performed by the Health Department's Division of Laboratories and Research.

All bacteriological samples were collected near the surface and most chemical samples were collected approximately 5 feet below the surface.



1972 LOCATION MAP
EXHIBIT NO. 1



MIDDLE BAY
AREA 4
SAMPLING POINT LOCATIONS

POINT NO.

- * 49.0 Reynolds Channel, 150 yards east of Long Beach Bridge.
- * 52.0 Main channel off third canal north of Reynold's Channel between Garrett Marsh and Island Park.
- * 54.0 Barnums Channel approximately 100 yards southeast of Long Beach Road.
- * 56.0 Mid-channel off Black Can No. 17 east of Garrett Marsh.
- * 59.0 Mid-channel off Flashing Green Can No. 13 at the southeast corner of the East Channel Islands.
- * 64.0 Main channel just south of the entrance to Bedell Creek.
- * 78.0 Sea Dog Creek approximately 70 yards northeast off Town of Hempstead poles "6" and "7".
- * 80.0 Junction of Sea Dog and Long Creeks approximately 100 yards southeast of Flashing Green "13".
- * 85.0 Mid-channel, south of Oakwood Creek off Town of Hempstead pole "K" 10".
- * 102.0 Off Town of Hempstead pole "P 26" and drain in Long Creek.
- * 108.0 Intersection of Sea Dog and Swift Creeks between Flashing Green "25", and poles "F 2", "27" and "22".
- * 110.0 Mid-channel off Freeport Creek at intersection with The Narrows, 50 feet north of the Red and Black Can and west of Bridge.
- * 112.0 Junction of Freeport and Stadium creeks.
- * 115.0 Mid-channel off Freeport Incinerator stack.
- * 116.0 Mid-Reynolds Channel off Town of Hempstead Marina.
- * 118.0 Junction of Long Creek and Reynolds Channel approximately 50 yards south of Red Nun "16" and in line with Red Nun "14".
- * 401.0 Freeport S.T.P. outfall.
- * 402.0 Barnums Channel approximately 400 yards southeast of Long Beach Rd. across from cooling water intake canal for Oceanside Incinerator.
- * 403.0 Barnums Channel between northeast corner of Garrett Marsh and mainland.

* Chemical Analyses in addition to Bacteriological Analyses.

TBB:cg

9/27/71

MIDDLE BAY
TIDE AND PRECIPITATION DATA

1972

LOCAL TIME

| <u>Date</u> | <u>High Water H.M.</u> | <u>Low Water H.M.</u> | <u>Precipitation-Inches Freeport</u> |
|-------------|----------------------------|---------------------------|--|
| 1/2 | | | 0.25 |
| 1/3 | | | - |
| 1/4 | 1039 | 1722 | 0.55 |
| 2/27 | | | - |
| 2/28 | | | - |
| 2/29 | 0828 | 1508 | - |
| 3/27 | | | - |
| 3/28 | | | - |
| 3/29 | 0802 | 1433 | - |
| 4/22 | | | 0.68 |
| 4/23 | | | 0.29 |
| 4/24 | 1757 | 1154 | 0.28 |
| 5/8 | | | 0.04 |
| 5/9 | | | 0.83 |
| 5/10 | 0634 | 1255 | 0.06 |
| 6/26 | | | 0.05 |
| 6/27 | | | - |
| 6/28 | 1017 | 1639 | - |
| 7/16 | | | - |
| 7/17 | | | - |
| 7/18 | 1504 | 0900 | - |
| 8/21 | | | - |
| 8/22 | | | - |
| 8/23 | 0801 | 1429 | - |
| 9/9 | | | 0.07 |

| <u>Date</u> | <u>High Water H.M.</u> | <u>Low Water H.M.</u> | <u>Precipitation-Inches Freeport</u> |
|-------------|----------------------------|---------------------------|--|
| 9/10 | | | - |
| 9/11 | 1125 | 1756 | - |
| 10/28 | | | 0.60 |
| 10/29 | | | - |
| 10/30 | 1502 | 0916 | - |
| 11/18 | | | - |
| 11/19 | | | 0.16 |
| 11/20 | 0717 | 1404 | 1.24 |
| 12/4 | | | 0.02 |
| 12/5 | | | - |
| 12/6 | 0824 | 1511 | 0.66 |

MIDDLE RAY
AREA NO. 4
WATER QUALITY SURVEY RESULTS

1972

BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

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| Sampling Point No. 49 | Sampling Point No. 52 | | | Sampling Point No. 54 | | |
|-----------------------|-----------------------|-------|-------|-----------------------|-------|-------|
| | Date | Time | Total | Fecal | Time | Total |
| 1/4 | 1020 | 4600 | 430 | | 1035 | 2400 |
| 2/29 | 1130 | 9.1 | 9.1 | | 1113 | 15 |
| 3/29 | 1105 | 3.6 | < 3.0 | | 1053 | 23 |
| 4/24 | 1235 | 23 | 23 | | 1245 | 15 |
| 5/10 | 1021 | 75 | 23 | | 1033 | 430 |
| 6/28 | 1145 | 240 | 9.1 | | 1130 | 240 |
| 7/18 | 1135 | 2400 | 2400 | | 1123 | 430 |
| 8/23 | 0910 | 430 | 150 | | 0925 | 93 |
| 9/11 | 0855 | 93 | 21 | | 0910 | 150 |
| 10/30 | 1050 | 4600 | 4600 | | 1038 | 240 |
| 11/20 | 1105 | 430 | 240 | | 1050 | 4600 |
| 12/6 | 1030 | 240 | 240 | | 1010 | 930 |
| Median | | 240.0 | 86.5 | | 240.0 | 68.0 |
| Log Averages | | 194.0 | 83.1 | | 211.2 | 48.2 |
| | | | | | 0955 | 240 |
| | | | | | 1042 | 4600 |
| | | | | | 1040 | 430 |
| | | | | | 1030 | 930 |
| | | | | | 1027 | 240 |
| | | | | | 0925 | 93 |
| | | | | | 0910 | 150 |
| | | | | | 150 | 93 |
| | | | | | 1245 | 15 |
| | | | | | 1310 | 15 |
| | | | | | 1100 | 23 |
| | | | | | 1045 | 150 |
| | | | | | 1046 | 430 |
| | | | | | 930 | 3.6 |

MIDDLE BAY
AREA NO. 1
WATER QUALITY SURVEY RESULTS

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BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

MIDDLE BAY
AREA NO. 1
WATER QUALITY SURVEY RESULTS

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BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

| Sampling Point No. 78 | | | | Sampling Point No. 80 | | | | Sampling Point No. 85 | | | |
|-----------------------|------|-------|-------|-----------------------|-------|-------|------|-----------------------|-------|-------|-------|
| Date | Time | Total | Fecal | Time | Total | Fecal | Time | Total | Total | Fecal | Fecal |
| 1/4 | 0950 | 39 | 23 | 0920 | 43 | 43 | 1155 | 43 | 43 | 43 | |
| 2/29 | 1200 | 39 | 39 | 1205 | 93 | 7•3 | 1025 | 9.1 | < 3.0 | | |
| 3/29 | 1012 | 23 | 3•6 | 0908 | 9.1 | 3•6 | 1010 | 93 | 93 | | |
| 4/24 | 0940 | 43 | 15 | 0932 | 23 | 23 | 1335 | 75 | 75 | | |
| 5/10 | 1000 | 240 | 240 | 0955 | 2100 | 23 | 1103 | 930 | 93 | | |
| 6/28 | 1214 | 93 | 23 | 0935 | 23 | 23 | 1050 | 240 | 23 | | |
| 7/18 | 0939 | 93 | 15 | 0933 | 43 | 23 | 1100 | 93 | 15 | | |
| 8/23 | 1110 | 43 | 15 | 1050 | 23 | 3•6 | 1000 | 23 | 9.1 | | |
| 9/11 | 1138 | 23 | 23 | 1110 | < 3.0 | < 3.0 | 0948 | 23 | 9.1 | | |
| 10/30 | 0911 | 43 | 23 | 0914 | 240 | 23 | 1011 | 240 | 93 | | |
| 11/20 | 0932 | 240 | 43 | 0921 | 23 | 23 | 1017 | 240 | 93 | | |
| 12/6 | 1107 | 23 | 23 | 1115 | 43 | 23 | 0925 | 43 | 23 | | |
| Median | | 43.0 | 23.0 | | 33.0 | 23.0 | | 84.0 | 33.0 | | |
| Log Average | | 54.8 | 23.7 | | 41.8 | 13.6 | | 80.5 | 29.7 | | |

MIDDLE BAY
AREA NO. 4
WATER QUALITY SURVEY RESULTS

1972

BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

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| Sampling Point No. 102 | | | | Sampling Point No. 108 | | | | Sampling Point No. 110 | | | |
|------------------------|------|-------|-------|------------------------|-------|-------|------|------------------------|-------|-------|-------|
| Date | Time | Total | Fecal | Time | Total | Fecal | Time | Time | Total | Total | Fecal |
| 1/4 | 0915 | 39 | 9.1 | 0924 | 43 | 9.1 | 0910 | 43 | 23 | 23 | |
| 2/29 | 1000 | 23 | 23 | 0900 | 43 | 23 | 0917 | 93 | <3.0 | <3.0 | |
| 3/29 | 1000 | 23 | 9.1 | 0911 | 43 | <3.0 | 0923 | 93 | 9.1 | 9.1 | |
| 4/24 | 1100 | 240 | 23 | 0955 | 430 | 93 | 1045 | 11000 | 240 | 240 | |
| 5/10 | 0952 | 2400 | 43 | 0900 | 43 | 23 | 0945 | >24000 | 1500 | 1500 | |
| 6/28 | 1037 | 23 | 23 | 0938 | 21 | 21 | 0946 | 240 | 240 | 240 | |
| 7/18 | 1030 | 23 | 23 | 0945 | 43 | 43 | 1020 | 930 | 36 | 36 | |
| 8/23 | 1008 | 43 | 23 | 1045 | 93 | 43 | 1038 | 240 | 43 | 43 | |
| 9/11 | 1010 | 23 | <3.0 | 1100 | 23 | 23 | 1050 | 43 | <3.0 | <3.0 | |
| 10/30 | 0950 | 1500 | 23 | 0917 | 240 | 43 | 0945 | 2400 | 28 | 28 | |
| 11/20 | 0910 | 4600 | 4600 | 1201 | 240 | 240 | 0900 | >24000 | 4600 | 4600 | |
| 12/6 | 0905 | 240 | 23 | 1138 | 93 | 7.3 | 0855 | 240 | 9.1 | 9.1 | |
| | 1118 | 43 | - | - | - | - | 1158 | 93 | - | - | |
| Median | | 43.0 | 23.0 | | 43.0 | 23.0 | | | 240.0 | 32.0 | |
| Log Average | | 112.1 | 27.2 | | 70.6 | 25.9 | | | 534.5 | 50.8 | |

MIDDLE BAY
AREA NO. 4
WATER QUALITY SURVEY RESULTS

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BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

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| Sampling Point No. 112 | | | | Sampling Point No. 115 | | | | Sampling Point No. 116 | | | |
|------------------------|------|--------|-------|------------------------|--------|-------|------|------------------------|-------|-------|-------|
| Date | Time | Total | Fecal | Time | Total | Fecal | Time | Time | Total | Fecal | Fecal |
| 1/4 | 0905 | 93 | 15 | 0845 | 23 | 23 | 0944 | 43 | 43 | 43 | |
| 2/29 | 0948 | 43 | 3.6 | 0930 | <3.0 | <3.0 | 1215 | 240 | 240 | 240 | |
| 3/29 | 0945 | 9.1 | 9.1 | 0935 | 930 | 75 | 0900 | 240 | 7.3 | 7.3 | |
| 4/24 | 1040 | >24000 | 930 | 1025 | 4600 | 430 | 0858 | 23 | 23 | 23 | |
| 5/10 | 0940 | 11000 | 240 | 0925 | 4600 | 150 | 1120 | 2400 | 43 | 43 | |
| 6/28 | 1002 | 430 | 23 | 1010 | 4600 | 4600 | 1220 | 23 | 23 | 23 | |
| 7/18 | 1015 | 2400 | 930 | 1003 | 11000 | 11000 | 1200 | 43 | 43 | 7.3 | |
| 8/23 | 1035 | 240 | 93 | 1020 | 4600 | 240 | 1103 | 21 | 21 | 21 | |
| 9/11 | 1040 | 43 | 23 | 1025 | 93 | 9.1 | 1130 | 43 | 43 | 23 | |
| 10/30 | 0941 | 2400 | 430 | 0930 | 1500 | 21 | 1105 | 240 | 43 | 43 | |
| 11/20 | 0850 | 2400 | 430 | 0830 | 2400 | 2400 | - | - | - | - | |
| 12/6 | 0848 | 93 | 43 | 0831 | 3.6 | <3.0 | 1057 | 240 | 93 | 93 | |
| | | 1209 | - | 1215 | 2400 | - | - | - | - | - | |
| Median | | 2400.0 | 68.0 | | 2400.0 | 112.5 | | | 43.0 | 23.0 | |
| Log Average | | 406.3 | 76.5 | | 583.8 | 115.4 | | | 96.9 | 30.9 | |

MIDDLE BAY
AREA NO. 4
WATER QUALITY SURVEY RESULTS

1972

BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

Sampling Point No. 118

| Date | Time | Total | Fecal | Time | Total | Fecal |
|-------------|------|-------|-------|-------|-------|-------|
| 1/4 | 0937 | 93 | 23 | 0855 | 23 | 23 |
| 2/29 | 1210 | 23 | 9.1 | 0940 | 240 | < 3.0 |
| 3/29 | 0904 | 430 | < 3.0 | 0940 | 430 | 9.1 |
| 4/24 | 0928 | 43 | 23 | 1035 | 11000 | 43 |
| 5/10 | 1130 | 4600 | 430 | 0935 | 4600 | 23 |
| 6/28 | 0930 | 43 | 9.1 | 1010 | 240 | 23 |
| 7/18 | 0930 | 43 | 43 | 1010 | 430 | 39 |
| 8/23 | 1055 | 23 | 23 | 1030 | 93 | 7.3 |
| 9/11 | 1117 | < 3.0 | < 3.0 | 1035 | 210 | < 3.0 |
| 10/30 | 0907 | 430 | 43 | 0937 | 430 | 9.1 |
| 11/20 | 1149 | 430 | 430 | 0840 | 2400 | 430 |
| 12/6 | 1120 | 43 | - | 0840 | 430 | 9.1 |
| | - | - | - | 1210 | 430 | - |
| Median | | 43.0 | 23.0 | 130.0 | | 16.0 |
| Log Average | | 86.9 | 26.7 | 464.0 | | 16.6 |

MIDDLE BAY
AREA NO. 14
WATER QUALITY SURVEY RESULTS
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BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

| Date | Time | Sampling Point No. 402 | | Sampling Point No. 403 | |
|-------------|------|------------------------|-------|------------------------|-------|
| | | Total | Fecal | Total | Fecal |
| 1/4 | 1102 | 240 | 240 | 1125 | 430 |
| 2/29 | 1055 | 23 | 3.6 | 1050 | 43 |
| 3/29 | 1037 | 75 | <3.0 | 1035 | 43 |
| 4/24 | 1300 | 240 | 93 | 1315 | 240 |
| 5/10 | 1040 | 430 | 430 | 1050 | 430 |
| 6/28 | 1113 | 43 | 43 | 1107 | 240 |
| 7/18 | 1115 | 240 | 240 | 1107 | 240 |
| 8/23 | 0933 | 430 | 43 | 0944 | 75 |
| 9/11 | 0915 | 23 | 23 | 0930 | 93 |
| 10/30 | 1030 | 430 | 43 | 1022 | 210 |
| 11/20 | 1047 | 2400 | 240 | 1033 | 2400 |
| 12/6 | 1000 | 43 | 43 | 0945 | 430 |
| Median | | 240.0 | 43.0 | 240.0 | 43.0 |
| Log Average | | 155.1 | 52.8 | 209.5 | 43.2 |

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AREA NO. 4
WATER QUALITY SURVEY RESULTS
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CHEMICAL RESULTS

SAMPLING POINT - 52

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------------|---------|------|--------|
| 1/4 | 1035 | 18,000 | 7.6 | 32 | 6.3 | 8.8 | 2 ** |
| 2/29 | 1113 | 17,600 | 7.8 | 32 | 4.4 | 10.4 | 3 ** |
| 3/29 | 1053 | 18,200 | 7.9 | 25 | 5.0 | 10.0 | 2 |
| 4/24 | 1245 | 17,800 | 7.6 | 25 | 8.0 | 8.0 | 3 *** |
| 5/10 | 1033 | 18,800 | 7.8 | 27 | 11.0 | 7.6 | 2 |
| 6/28 | 1130 | 16,000 | 7.4 | 23 | 19.5 | 5.4 | 1 |
| 7/18 | 1123 | 16,600 | 7.9 | 30 | - | 7.0 | 2 ** |
| 8/23 | 0925 | 18,200 | 7.8 | 19 | 23.4 | 7.8 | < 1 |
| 9/11 | 0910 | 18,400 | 7.2 | 28 | 21.6 | 5.4 | 1*** |
| 10/30 | 1038 | 17,800 | 8.0 | 27 | 14.0 | 6.6 | 1 *** |
| 11/20 | 1050 | 17,000 | 7.6 | 20 | 9.0 | 7.6 | 2 *** |
| 12/6 | 1010 | 17,400 | 7.8 | 33 | 8.4 | 7.8 | 2 |
| Averages | | 17,700 | 7.7 | 27 | 11.9 | 7.8 | 2 |

Notes: See Sampling Point - 49

MIDDLE BAY
AREA NO. 1
WATER QUALITY SURVEY RESULTS

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CHEMICAL RESULTS

SAMPLING POINT - 52

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | |
|----------|------|-----------------|-----------------|-----------------|--------------------------------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho |
| 1/4 | 1035 | 0.63 | 0.021 | 0.17 | 30.3 | 0.52 |
| 2/29 | 1113 | 0.28 | 0.011 | 0.13 | 29.3 | 0.48 |
| 3/29 | 1053 | 0.40 | 0.008 | 0.12 | 30.8 | 0.36 |
| 4/24 | 1245 | 0.29 | 0.018 | 0.05 | - | 0.46 |
| 5/10 | 1033 | 0.31 | 0.012 | 0.12 | - | 0.48 |
| 6/28 | 1130 | 0.27 | 0.028 | 0.10 | 28.9 | 0.61 |
| 7/18 | 1123 | 0.44 | 0.020 | 0.08 | - | 0.63 |
| 8/23 | 0925 | 0.32 | 0.036 | 0.08 | 30.9 | 0.85 |
| 9/11 | 0910 | 0.18 | 0.024 | 0.09 | 31.3 | 0.73 |
| 10/30 | 1038 | 0.33 | 0.038 | 0.05 | 31.8 | 0.59 |
| 11/20 | 1050 | 0.26 | 0.037 | 0.19 | 30.0 | 0.46 |
| 12/6 | 1010 | 0.40 | 0.033 | 0.15 | 31.8 | 0.46 |
| Averages | | 0.34 | 0.024 | 0.11 | 30.6 | 0.55 |
| | | | | | | 0.68 |

Notes: See Sampling Point - 49

MIDDLE BAY
AREA NO. 4
WATER QUALITY SURVEY RESULTS

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CHEMICAL RESULTS

SAMPLING POINT - S4

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------------|---------|------|--------|
| 1/4 | 1046 | 17,600 | 7.6 | 35 | 14.1 | 8.6 | 2 ** |
| 2/29 | 1100 | 17,200 | 7.7 | 33 | 15.0 | 9.6 | 2 ** |
| 3/29 | 1045 | 18,200 | 7.9 | 26 | 10.8 | 9.8 | 2 |
| 4/24 | 1310 | 18,000 | 7.7 | 26 | 10.0 | 7.8 | 3 *** |
| 5/10 | 1045 | 17,200 | 7.8 | 25 | 14.0 | 7.2 | 2 |
| 6/28 | 1115 | 16,200 | 7.4 | 29 | 24.9 | 4.8 | 1 |
| 7/18 | 1113 | 16,400 | 7.8 | 26 | - | 7.8 | 3 ** |
| 8/23 | 0940 | 18,200 | 7.8 | 28 | 30.1 | 6.4 | 1 |
| 9/11 | 0925 | 18,000 | 7.1 | 37 | 26.7 | 5.4 | 1 *** |
| 10/30 | 1027 | 17,200 | 7.9 | 28 | 21.0 | 6.4 | 1 *** |
| 11/20 | 1042 | 16,200 | 7.4 | 33 | 17.6 | 7.6 | 2 *** |
| 12/6 | 0955 | 17,400 | 7.7 | 36 | 16.3 | 7.8 | 1 |
| Averages | | 17,300 | 7.6 | 30 | 18.2 | 7.4 | 2 |

Notes: See Sampling Point - 49

MIDDLE BAY
AREA NO. 14
WATER QUALITY SURVEY RESULTS

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CHEMICAL RESULTS

SAMPLING POINT - 54

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | |
|-------|------|-----------------|-----------------|-----------------|--------------------------------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho |
| 1/4 | 1046 | 0.83 | 0.025 | 0.18 | 29.6 | 0.65 |
| 2/29 | 1100 | 0.23 | 0.016 | 0.15 | 27.8 | 0.53 |
| 3/29 | 1045 | 0.33 | 0.010 | 0.15 | 29.8 | 0.39 |
| 4/24 | 1310 | 0.29 | 0.018 | 0.18 | - | 0.50 |
| 5/10 | 1045 | 0.36 | 0.018 | 0.15 | - | 0.54 |
| 6/28 | 1115 | 0.31 | 0.036 | 0.13 | 29.1 | 0.67 |
| 7/18 | 1113 | 0.64 | 0.024 | 0.09 | - | 0.78 |
| 8/23 | 0940 | 0.32 | 0.040 | 0.07 | 31.4 | 1.11 |
| 9/11 | 0925 | 0.10 | 0.033 | 0.12 | 31.6 | 0.85 |
| 10/30 | 1027 | 0.20 | 0.050 | 0.17 | 32.0 | 0.69 |
| 11/20 | 1042 | 0.26 | 0.043 | 0.25 | 28.2 | 0.59 |
| 12/6 | 0955 | 0.46 | 0.040 | 0.19 | 31.7 | 0.55 |
| | | 0.36 | 0.029 | 0.15 | 30.1 | 0.65 |
| | | | | | | 0.82 |
| | | Averages | | | | |
| | | | | | | 0.82 |

Notes: See Sampling Point - 49

MIDDLE BAY
AREA NO. L
WATER QUALITY SURVEY RESULTS

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CHEMICAL RESULTS

SAMPLING POINT - 85

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------------|---------|------|--------|
| 1/4 | 1155 | 18,000 | 7.4 | 33 | 5.0 | 8.8 | 1 ** |
| 2/29 | 1025 | 17,200 | 7.5 | 30 | 4.4 | 10.6 | 3 *** |
| 3/29 | 1010 | 17,600 | 7.9 | 33 | 4.9 | 10.4 | 2 |
| 4/24 | 1335 | 17,400 | 7.7 | 27 | 8.0 | 8.2 | 2 ** |
| 5/10 | 1103 | 18,000 | 7.8 | 22 | 10.0 | 8.0 | 6 |
| 6/28 | 1050 | 16,200 | 7.6 | 30 | 20.5 | 6.8 | 2 |
| 7/18 | 1100 | 17,000 | 8.1 | 40 | - | 9.4 | 3 ** |
| 8/23 | 1000 | 18,200 | 8.0 | 30 | 24.3 | 9.2 | 1 |
| 9/11 | 0948 | 18,800 | 7.4 | 24 | 21.1 | 6.2 | 1 *** |
| 10/30 | 1011 | 17,600 | 7.8 | 30 | 12.8 | 7.2 | 1 *** |
| 11/20 | 1017 | 16,600 | 7.5 | 23 | 7.8 | 8.2 | 1 *** |
| 12/6 | 0925 | 17,600 | 7.5 | 20 | 7.1 | 8.2 | 1 |
| Averages | | 17,500 | 7.7 | 29 | 11.4 | 8.4 | 2 |

Notes: See Sampling Point - 49

MIDDLE BAY
AREA NO. 1
WATER QUALITY SURVEY RESULTS

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CHEMICAL RESULTS

SAMPLING POINT - 85

| Date | Time | Nitrogen as N | | | Salinity | Ortho | Total |
|----------|------|-----------------|-----------------|-----------------|----------|-------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | | | |
| 1/4 | 1155 | 0.60 | 0.015 | 0.214 | 29.7 | 0.32 | 0.41 |
| 2/29 | 1025 | 0.22 | 0.010 | 0.17 | - | 0.36 | 0.46 |
| 3/29 | 1010 | 0.23 | 0.010 | 0.14 | 30.1 | 0.20 | 0.34 |
| 4/24 | 1335 | 0.19 | 0.009 | 0.37 | - | 0.19 | 0.32 |
| 5/10 | 1103 | 0.24 | 0.012 | 0.09 | - | 0.32 | 0.44 |
| 6/28 | 1050 | 0.21 | 0.022 | 0.10 | 28.5 | 0.39 | 0.52 |
| 7/18 | 1100 | 0.11 | 0.008 | 0.06 | - | 0.39 | 0.50 |
| 8/23 | 1000 | 0.06 | 0.030 | 0.25 | 31.0 | 0.71 | 0.87 |
| 9/11 | 0948 | 0.13 | 0.019 | 0.12 | 31.5 | 0.57 | 0.63 |
| 10/30 | 1011 | < 0.07 | 0.036 | 0.11 | 32.2 | 0.29 | 0.32 |
| 11/20 | 1017 | 0.24 | 0.026 | 0.23 | 29.6 | 0.34 | 0.37 |
| 12/6 | 0925 | 0.40 | 0.033 | 0.28 | 31.5 | 0.39 | 0.46 |
| Averages | | 0.23 | 0.019 | 0.18 | 30.37 | 0.37 | 0.47 |

Notes: See Sampling Point - 85

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MIDDLE BAY
AREA NO. 1
WATER QUALITY SURVEY RESULTS

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CHEMICAL RESULTS

SAMPLING POINT - 112

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------------|---------|------|--------|
| 1/4 | 0905 | 8,800 | 6.9 | 26 | 5.1 | 9.4 | 2 ** |
| 2/29 | 0948 | 12,200 | 7.1 | 25 | 3.0 | 10.6 | 3 ** |
| 3/29 | 0945 | 16,400 | 7.7 | 22 | 4.5 | 10.8 | 3 |
| 4/24 | 1040 | 17,600 | 7.4 | 33 | 7.0 | 7.2 | 3 *** |
| 5/10 | 0940 | 16,800 | 7.8 | 21 | 8.5 | 7.2 | 3 |
| 6/28 | 1002 | 15,200 | 7.5 | 28 | 19.3 | 5.4 | 1 |
| 7/18 | 1015 | 13,200 | 7.7 | 34 | - | 4.4 | 1 ** |
| 8/23 | 1035 | 17,400 | 7.9 | 34 | 24.8 | 7.8 | 4 |
| 9/11 | 1040 | 17,200 | 7.3 | 28 | 21.6 | 5.6 | 2 *** |
| 10/30 | 0941 | 16,600 | 7.5 | 24 | 13.3 | 6.6 | 2 *** |
| 11/20 | 0850 | 10,200 | 7.2 | 23 | 8.8 | 8.4 | 2 *** |
| 12/6 | 0848 | 12,400 | 7.3 | 26 | 7.2 | 8.6 | 2 |
| Averages | | 11,500 | 7.1 | 27 | 11.2 | 7.7 | 2 |

Notes: See Sampling Point - 49

MIDDLE BAY
AREA NO. 14
WATER QUALITY SURVEY RESULTS

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CHEMICAL RESULTS

SAMPLING POINT - 112

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ ³⁻ | | Total |
|-------|----------|-----------------|-----------------|-----------------|--|-------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | |
| 1/4 | 0905 | 4.34 | 0.011 | 0.49 | 29.7 | 4.50 | 4.90 |
| 2/29 | 0948 | 0.67 | 0.011 | 0.59 | 29.2 | 1.80 | 1.80 |
| 3/29 | 0945 | 0.30 | 0.006 | 0.14 | 29.5 | 0.37 | 0.52 |
| 4/24 | 1040 | 0.27 | 0.009 | 0.08 | - | 0.39 | 0.55 |
| 5/10 | 0940 | 0.40 | 0.007 | 0.24 | - | 0.50 | 0.67 |
| 6/28 | 1002 | 0.29 | 0.012 | 0.12 | 28.3 | 0.46 | 0.63 |
| 7/18 | 1015 | 0.64 | 0.016 | 0.16 | - | 0.73 | 1.01 |
| 8/23 | 1035 | 0.30 | 0.010 | 0.06 | 29.8 | 0.71 | 0.82 |
| 9/11 | 1040 | 0.18 | 0.033 | 0.15 | 30.7 | 1.05 | 1.08 |
| 10/30 | 0941 | 1.13 | 0.013 | 0.07 | 31.2 | 0.90 | 0.98 |
| 11/20 | 0850 | 0.96 | 0.011 | 0.33 | 20.0 | 1.80 | 2.10 |
| 12/6 | 0848 | 1.37 | 0.017 | 1.06 | 29.8 | 2.80 | 3.20 |
| | Averages | 0.90 | 0.013 | 0.29 | 28.7 | 1.33 | 1.52 |

Notes: See Sampling Point - 49

MIDDLE BAY
AREA NO. 4
WATER QUALITY SURVEY RESULTS
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CHEMICAL RESULTS

SAMPLING POINT - 401

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------------|------------|------|--------|
| 1/4 | 0855 | 15,800 | 6.8 | 33 | 6.3 | 9.2 | 2 ** |
| 2/29 | 0940 | 13,600 | 6.9 | 28 | 3.9 | 10.8 | 3 *** |
| 3/29 | 0940 | 17,200 | 7.4 | 18 | 4.4 | 10.2 | 3 |
| 4/24 | 1035 | 16,800 | 6.8 | 27 | 7.0 | 5.8 | 4 *** |
| 5/10 | 0935 | 17,000 | 7.7 | 25 | 9.0 | 6.8 | 2 |
| 6/28 | 1010 | 16,600 | 7.2 | 33 | 18.9 | 5.2 | 2 |
| 7/18 | 1010 | 15,400 | 6.8 | 27 | - | 1.8 | 2 ** |
| 8/23 | 1030 | 15,600 | 7.9 | 45 | 23.7 | 6.8 | 2 |
| 9/11 | 1035 | 18,000 | 7.2 | 32 | 21.6 | 5.4 | 1 *** |
| 10/30 | 0937 | 15,000 | 7.4 | 28 | 13.9 | 6.6 | 3 *** |
| 11/20 | 0840 | 10,600 | 7.0 | 29 | 9.0 | 8.4 | 3 *** |
| 12/6 | 0840 | 14,800 | 7.1 | 25 | 6.8 | 8.8 | 2 |
| Averages | | 15,500 | 7.2 | 29 | 11.3 | 7.2 | 2 |

Notes: See Sampling Point - 49

MIDDLE BAY
AREA NO. L
WATER QUALITY SURVEY RESULTS

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CHEMICAL RESULTS

SAMPLING POINT - 401

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | |
|-------|----------|-----------------|-----------------|-----------------|--------------------------------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho |
| 1/4 | 0855 | 2.29 | 0.008 | 0.19 | 29.4 | 2.16 |
| | 0940 | 0.94 | 0.010 | 0.18 | 27.6 | 3.40 |
| 2/29 | 0940 | 0.30 | 0.006 | 0.15 | 29.8 | 0.37 |
| 3/29 | 1035 | 0.52 | 0.009 | 0.12 | - | 0.57 |
| 4/24 | 0935 | 0.22 | 0.005 | 0.17 | - | 0.32 |
| 5/10 | 1010 | 0.21 | 0.009 | 0.06 | 28.5 | 0.50 |
| 6/28 | 1010 | 3.54 | 0.022 | 0.15 | - | 2.44 |
| 7/18 | 1030 | 2.00 | 0.016 | 0.11 | 28.7 | 2.36 |
| 8/23 | 1035 | 0.43 | 0.012 | 0.09 | 30.6 | 0.98 |
| 9/11 | 0937 | 2.74 | 0.019 | 0.33 | 23.5 | 2.76 |
| 10/30 | 0840 | 1.10 | 0.012 | 0.32 | 20.6 | 2.44 |
| 11/20 | 0840 | 1.16 | 0.016 | 0.31 | 30.8 | 2.40 |
| 12/6 | Averages | 1.29 | 0.012 | 0.18 | 27.7 | 1.80 |
| | | | | | | 2.01 |

Notes: See Sampling Point - 49

MIDDLE BAY
AREA NO. 4
WATER QUALITY SURVEY RESULTS
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CHEMICAL RESULTS

SAMPLING POINT - 49

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------------|---------|------|--------|
| 1/4 | 1020 | 18,000 | 7.2 | 31 | 6.0 | 9.0 | 2 ** |
| 2/29 | 1130 | 17,800 | 7.8 | 34 | 3.5 | 10.2 | 3 ** |
| 3/29 | 1105 | 17,800 | 7.9 | 20 | 5.2 | 10.0 | 2 |
| 4/24 | 1235 | 18,000 | 7.4 | 24 | 7.0 | 8.0 | 3 *** |
| 5/10 | 1021 | 18,000 | 7.8 | 21 | 9.0 | 8.0 | 2 |
| 6/28 | 1145 | 16,000 | 7.5 | 30 | 18.5 | 5.6 | 1 |
| 7/18 | 1135 | 17,800 | 7.9 | 22 | - | 6.0 | 2 ** |
| 8/23 | 0910 | 18,400 | 7.5 | 32 | 22.3 | 5.4 | 1 |
| 9/11 | 0855 | 18,800 | 7.1 | 28 | 20.9 | 5.2 | 1 *** |
| 10/30 | 1050 | 17,800 | 7.8 | 24 | 13.4 | 6.4 | 2 *** |
| 11/20 | 1105 | 17,400 | 7.7 | 25 | 8.6 | 8.2 | 1 *** |
| 12/6 | 1030 | 18,400 | 7.9 | 29 | 8.4 | 8.6 | 1 |
| Averages | | 17,900 | 7.6 | 27 | 11.2 | 7.6 | 2 |

- Notes: (1) All readings are in mg/l unless otherwise noted.
 (2) Chlorides expressed as mg/l Cl.
 (3) pH average is Logarithmic

(4) * Designates 4 day B.O.D.
 (5) ** Designates 6 day B.O.D.
 (6) *** Designates 7 day B.O.D.
 (7) **** Designates 8 day B.O.D.

MIDDLE BAY
AREA NO. 4
WATER QUALITY SURVEY RESULTS

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CHEMICAL RESULTS

SAMPLING POINT - 49

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | | |
|----------|------|-----------------|-----------------|-----------------|--------------------------------|-------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | Total |
| 1/4 | 1020 | 0.72 | 0.015 | 0.14 | 30.6 | 0.55 | 0.71 |
| 2/29 | 1130 | 0.18 | 0.009 | 0.12 | 29.3 | 0.51 | 0.59 |
| 3/29 | 1105 | 0.33 | 0.006 | 0.09 | 30.2 | 0.43 | 0.55 |
| 4/24 | 1235 | 0.35 | 0.016 | 0.15 | - | 0.50 | 0.71 |
| 5/10 | 1021 | 0.42 | 0.010 | 0.10 | - | 0.57 | 0.67 |
| 6/28 | 1145 | 0.33 | 0.023 | 0.08 | 28.7 | 0.73 | 0.80 |
| 7/18 | 1135 | 0.47 | 0.017 | 0.13 | - | 0.78 | 0.78 |
| 8/23 | 0910 | 0.14 | 0.031 | 0.10 | 30.1 | 0.98 | 1.34 |
| 9/11 | 0855 | 0.21 | 0.025 | 0.10 | 31.1 | 1.01 | 1.10 |
| 10/30 | 1050 | 0.53 | 0.033 | 0.10 | 32.0 | 0.75 | 0.75 |
| 11/20 | 1105 | 0.31 | 0.026 | 0.19 | 31.0 | 0.52 | 0.54 |
| 12/6 | 1030 | 0.16 | 0.014 | 0.06 | 33.5 | 0.43 | 0.43 |
| Averages | | 0.37 | 0.019 | 0.11 | 30.7 | 0.65 | 0.75 |

Notes: See Sampling Point - 49

E A S T B A Y
W A T E R Q U A L I T Y
S U R V E Y R E S U L T S

1972

NASSAU COUNTY DEPARTMENT OF HEALTH

John J. Dowling, M.D., M.P.H.

Commissioner of Health

Division of Environmental Health
George H. Sumner, M.C.E., P.E.
Deputy Commissioner

Bureau of Water Pollution Control
Stanley Juczak, M.C.E., P.E.
Director

INTRODUCTION

The purpose of this paper is to summarize the chemical and bacteriological results of the samples collected by the Department of Health in East Bay during 1972.

STUDY AREA

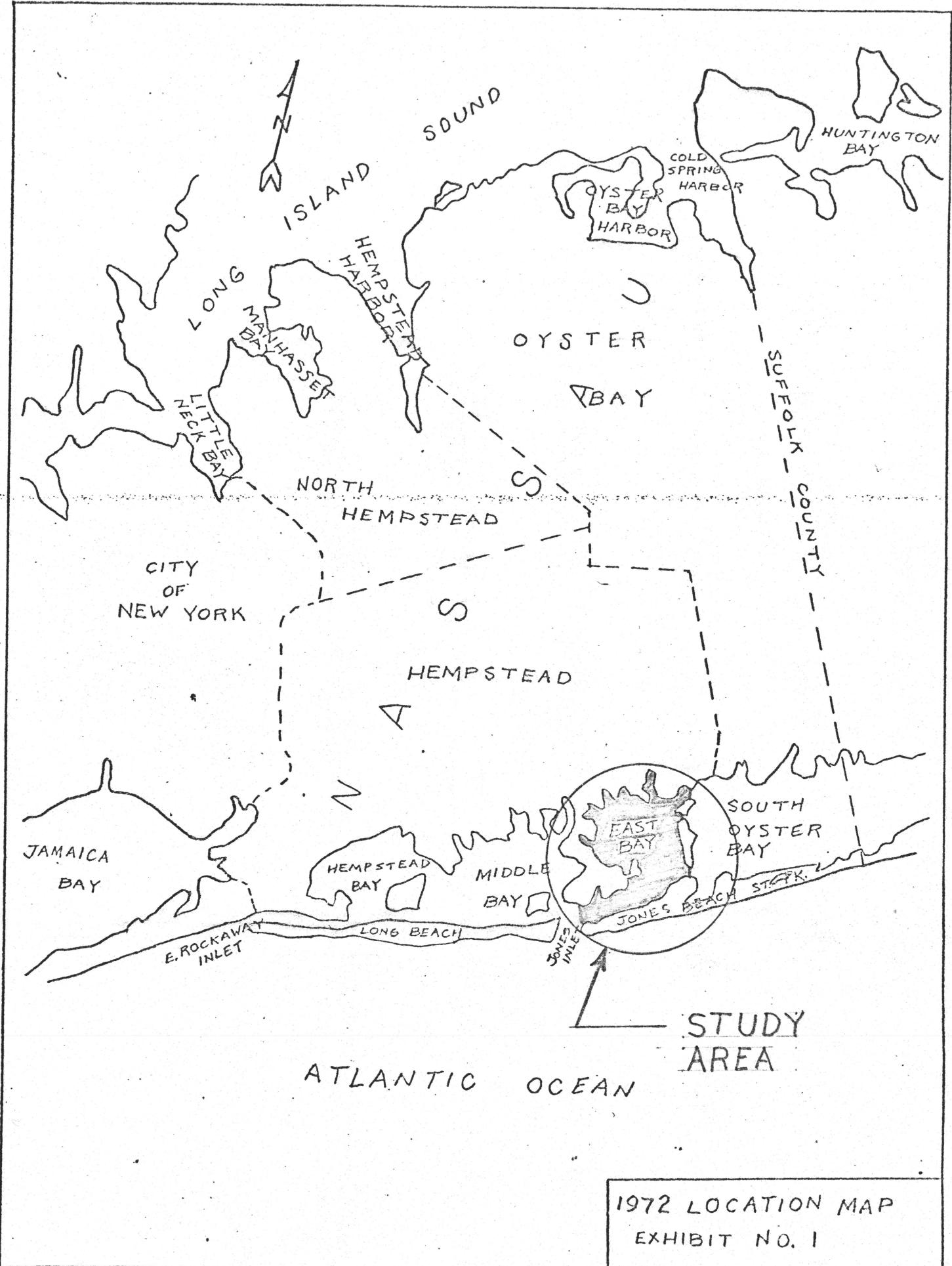
East Bay has been defined as the body of water bounded on the north by the mainland, on the east by the Wantagh Parkway and on the south by the Jones Beach barrier island. On the west, the bay is bounded by the Meadowbrook Parkway and in addition includes a portion of Sloop Channel east of a line running between Point Lookout and the southwest tip of Meadow Island.

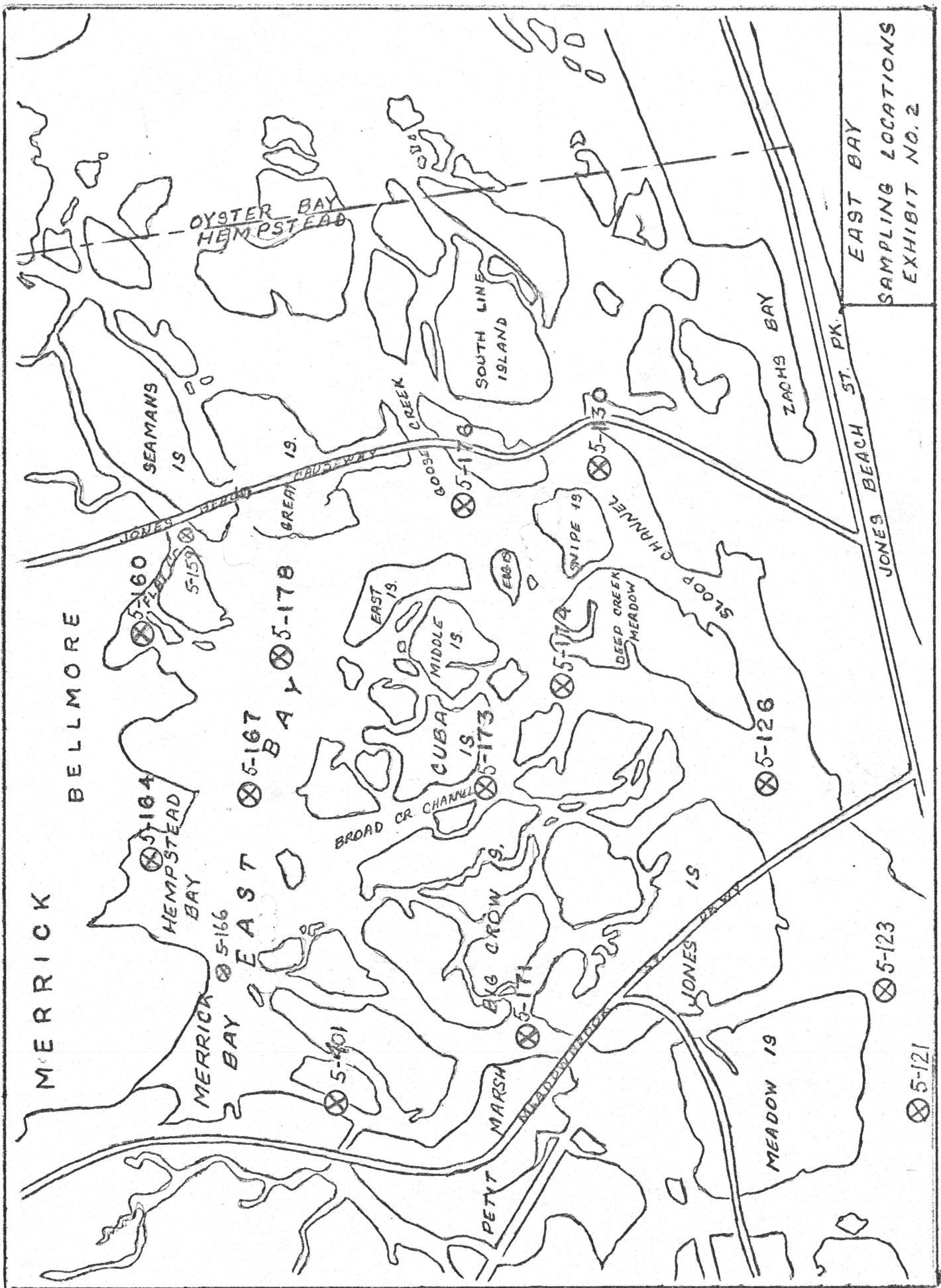
Exhibit I shows the location of the study area within the County and Exhibit 2 shows the sampling point locations.

SAMPLING PROCEDURE AND ANALYSES

All samples were collected by Health Department personnel and were analyzed in accordance with the procedures and methods outlined in the 13th edition of Standard Methods. Laboratory analyses were performed by the Health Department's Division of Laboratories and Research.

All bacteriological samples were collected at or near the surface. Most chemical samples were collected approximately five feet below the surface.





EAST BAY
AREA 5

SAMPLING POINT LOCATIONS

POINT NO.

- | | |
|---------|---|
| 121.0 | 200 yards off Flashing Red light "8" in Sloop Channel. |
| * 123.0 | Sloop Channel, 100 yards south of pole "30" at the Junction of Sloop Channel and Swift Creek. |
| * 126.0 | Sloop Channel in line with State Channel markers 36 and 39. |
| 130.0 | Junction of Sloop and Horserace Channels. |
| 159.0 | 100 yards west of Island Creek Bridge. |
| 160.0 | 100 yards west of entrance to Wantagh Park Marina. |
| 164.0 | 100 yards south of Marina. |
| 166.0 | 100 yards south of Merrick Point. |
| 167.0 | 250 yards south of Whale Neck Point. |
| 171.0 | 100 yards east of the Fundy Bridge. |
| * 173.0 | Broad Creek Channel at Town of Hempstead pole W0 9. |
| 174.0 | West side of Haunts Creek at intersection with Goose Creek. |
| * 176.0 | Junction of Horserace Channel and Goose Creek. |
| * 178.0 | Approximately 600 yards south of White Point. |
| * 401.0 | In drain east of Fighting Island and 200 yards north of intersection with creek. |

* Chemical Analyses in addition to Bacteriological Analyses.

TBB:cg
11/12/71

EAST BAY
TIDE AND PRECIPITATION DATA

1972

LOCAL TIME

| <u>Date</u> | <u>High Water H.M.</u> | <u>Low Water H.M.</u> | <u>Precipitation-Inches Freeport</u> |
|-------------|----------------------------|---------------------------|--|
| 1/30 | | | - |
| 1/31 | | | - |
| 2/1 | 1000 | 1641 | - |
| 3/18 | | | 0.04 |
| 3/19 | | | - |
| 3/20 | 1253 | 0657 | - |
| 4/3 | | | - |
| 4/4 | | | 0.22 |
| 4/5 | 1254 | 0706 | - |
| 4/30 | | | - |
| 5/1 | | | - |
| 5/2 | 1206 | 0624 | - |
| 6/4 | | | - |
| 6/5 | | | 0.18 |
| 6/6 | 1706 | 1164 | - |
| 7/9 | | | - |
| 7/10 | | | - |
| 7/11 | 1005 | 1621 | - |
| 8/6 | | | - |
| 8/7 | | | - |
| 8/8 | 0901 | 1514 | - |
| 9/11 | | | - |
| 9/12 | | | - |
| 9/13 | 1315 | 0704 | 0.19 |

| <u>Date</u> | <u>High Water H.M.</u> | <u>Low Water H.M.</u> | <u>Precipitation-Inches</u> <u>Freeport</u> |
|-------------|----------------------------|---------------------------|--|
| 10/1 | | | - |
| 10/2 | | | - |
| 10/3 | 0646 | 1300 | - |
| 11/27 | | | - |
| 11/28 | | | - |
| 11/29 | 1557 | 1014 | - |
| 12/17 | | | - |
| 12/18 | | | - |
| 12/19 | 0731 | 1414 | - |

Bacs.
1 of 5

EAST BAY
AREA NO. 5
WATER QUALITY SURVEY RESULTS

BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

Sampling Point No. 121

| Date | Time | Total | Fecal | Time | Total | Fecal | Time | Total | Fecal |
|-------|---------------|----------------|----------------|--------------|------------|------------|--------------|--------------|--------------|
| 2/1 | 0900 | 23 | < 3.0 | 0908 | 93 | 23 | 0922 | 43 | 43 |
| 3/20 | 0930 | 43 | < 3.0 | 0940 | 43 | 9.1 | 0950 | 43 | 43 |
| 4/5 | 0900 1210 | < 3.0 7.3 | < 3.0 3.6 | 0910 1040 | 43 15 | 3.6 7.3 | 0918 1043 | 23 43 | 23 43 |
| 5/2 | 0920 1100 | < 3.0 < 3.0 | < 3.0 < 3.0 | 0925 1105 | 93 3.6 | 93 3.6 | 0925 1055 | 9.1 < 3.0 | 3.6 < 3.0 |
| 6/6 | 1010 | 23 | 9.1 | 0955 | 1500 | 1500 | 0945 | 43 | 7.3 |
| 7/11 | 0913 1035 | 43 23 | 3.6 - | 0910 1040 | 15 23 | < 3.0 - | 0900 1030 | 93 9.1 | 15 - |
| 8/8 | 0917 | < 3.0 | < 3.0 | 0924 | 23 | 23 | 0912 | 3.6 | 7.3 |
| 9/13 | - | - | - | 1105 | 3.6 | < 3.0 | 1100 | 3.6 | < 3.0 |
| 10/3 | 1054 | 43 | 23 | 1102 | 93 | 93 | 1045 | 43 | 43 |
| 11/29 | 11105 1330 | 210 240 | 43 - | 1112 1340 | 240 930 | 93 - | 1030 1250 | 93 - | 23 - |
| 12/19 | 1158 | 240 | < 3.0 | 1208 | 240 | 43 | 1145 | 1500 | 39 |

Medien

| | | |
|-------------|------|-----|
| Median | 23.0 | 3.0 |
| Log Average | 22.2 | 5.0 |

43.0 23.0
56.4 21.5

EAST BAY
AREA NO. 5
WATER QUALITY SURVEY RESULTS

1972

BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

| Sampling Point No. 130 | | | | Sampling Point No. 159 | | | | Sampling Point No. 160 | | | |
|------------------------|--------------|------------|----------------|------------------------|------------|----------------|--------------|------------------------|-------------|-------------|-------|
| Date | Time | Total | Fecal | Time | Total | Fecal | Time | Time | Total | Fecal | Fecal |
| 2/1 | 0930 | 23 | 23 | 1015 | 43 | 3.6 | 1020 | 240 | 240 | 7.3 | - |
| 3/20 | 0957 | 9.1 | < 3.0 | 1030 | 23 | 23 | 1038 | 93 | 93 | 23 | - |
| 4/5 | 0923 1115 | 3.6 3.6 | < 3.0 < 3.0 | 0933 1124 | 9.1 9.1 | < 3.0 < 3.0 | 0941 1130 | 930 150 | 930 150 | 11 3.6 | - |
| 5/2 | 0905 1050 | 23 9.1 | 9.1 3.6 | 1040 0855 | 23 23 | 9.1 23 | 0850 1140 | 93 93 | 93 93 | 23 < 3.0 | - |
| 6/6 | 0938 | 23 | 23 | 0944 | 430 | 43 | - | - | - | - | - |
| 7/11 | 0850 1025 | 23 9.1 | < 3.0 - | 0835 1015 | 43 43 | 23 - | 0830 1135 | 93 93 | 93 93 | 23 - | - |
| 8/8 | 0903 | 15 | 3.6 | 0852 | 3.6 | 3.6 | 0848 | 93 | 93 | 43 | - |
| 9/13 | 1055 | 9.1 | 9.1 | 1040 | 43 | 3.6 | 1035 | 430 | 430 | 9.1 | - |
| 10/3 | 1030 | 43 | 3.6 | 1044 | 150 | 43 | 1009 | 240 | 240 | 93 | - |
| 11/29 | 1020 1230 | 93 430 | 43 - | 0958 1210 | 930 240 | 240 - | 0950 1205 | 2400 930 | 2400 930 | 240 - | - |
| 12/19 | 1108 | 930 | 3.6 | 1315 | 11000 | 23 | 1320 | 2400 | 2400 | 16 | - |
| Median | 23.0 | 3.6 | 43.0 | 23.0 | 195.0 | 19.5 | | | | | |
| Log Average | 24.3 | 6.3 | 66.0 | 13.5 | 271.7 | 18.4 | | | | | |

EAST BAY
AREA NO. 5
WATER QUALITY SURVEY RESULTS

1972

BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

| Sampling Point No. 164 | | | | | | Sampling Point No. 166 | | | | | | Sampling Point No. 167 | | | | | |
|------------------------|-------------|---------|-------|------|-------|------------------------|------|-------|-------|------|-------|------------------------|-------|-------|-------|------|-------|
| Date | Time | Total | Fecal | Time | Total | Fecal | Time | Total | Fecal | Time | Total | Fecal | Time | Total | Fecal | Time | Total |
| 2/1 | 1051 | 43 | < 3.0 | | 1057 | 9.1 | | | | 1003 | 43 | | 15 | | | | |
| 3/20 | 1130 | 23 | < 3.0 | | 1135 | 43 | | | | 1055 | 7.3 | | 3.6 | | | | |
| 4/5 | 0955 | 43 | 3.6 | | 1003 | 43 | | | | 0953 | 93 | | 9.1 | | | | |
| | 1150 | 9.1 | < 3.0 | | 1152 | 23 | | | | 1137 | 23 | | < 3.0 | | | | |
| 5/2 | 0955 | 23 | 3.6 | | 0950 | 23 | | | | 1000 | 9.1 | | 9.1 | | | | |
| | 1135 | 43 | 15 | | 1128 | 93 | | | | 1025 | 23 | | 3.6 | | | | |
| 6/6 | 0905 | > 24000 | | | 1045 | 930 | | | | 1050 | 240 | | 23 | | | | |
| | 0940 | 430 | 430 | | 0935 | 240 | | | | 0945 | 43 | | 43 | | | | |
| 7/11 | 1103 | 93 | - | | 1100 | 23 | | | | 1105 | 93 | | - | | | | |
| | 0950 | 3.6 | 3.6 | | 0945 | 240 | | | | 0953 | 43 | | 9.1 | | | | |
| 9/13 | 0955 | 23 | 23 | | 0945 | 75 | | | | 1000 | 23 | | < 3.0 | | | | |
| 10/3 | 1137 | 23 | 9.1 | | 1132 | 15 | | | | 1145 | 43 | | 7.3 | | | | |
| | 0925 | 240 | 43 | | 0920 | 93 | | | | 0930 | 240 | | 23 | | | | |
| 11/29 | 1145 | 240 | - | | 1141 | 240 | | | | 1152 | 430 | | - | | | | |
| 12/19 | 1256 | 2400 | 43 | | 1250 | 430 | | | | 1304 | 2400 | | 93 | | | | |
| | Median | 43.0 | 9.1 | | 75.0 | 15.0 | | | | 43.0 | 15.0 | | 9.1 | | | | |
| | Log Average | 85.6 | 16.6 | | 74.0 | 19.9 | | | | 64.6 | 10.6 | | 10.6 | | | | |

EAST BAY
AREA NO. 5
WATER QUALITY SURVEY RESULTS

1972

BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

| Sampling Point No. 164 | | | | | | Sampling Point No. 166 | | | | | | Sampling Point No. 167 | | | | | | |
|------------------------|--------------|------------|--------------|------|--------------|------------------------|------|-------|-------|--------------|-------------|------------------------|------|-------|-------|--------------|-------|--|
| Date | Time | Total | Fecal | Time | Total | Fecal | Time | Total | Fecal | Time | Total | Fecal | Time | Total | Fecal | Time | Total | |
| 2/1 | 1051 | 43 | < 3.0 | | 1057 | 9.1 | | | | 1003 | 43 | | | | | 15 | | |
| 3/20 | 1130 | 23 | < 3.0 | | 1135 | 43 | | | | 1055 | 7.3 | | | | | 3.6 | | |
| 4/5 | 0955 1150 | 43 9.1 | 3.6 < 3.0 | | 1003 1152 | 43 23 | | | | 0953 1137 | 93 23 | | | | | 9.1 < 3.0 | | |
| 5/2 | 0955 1135 | 23 43 | 3.6 15 | | 0950 1128 | 23 93 | | | | 1000 1025 | 9.1 23 | | | | | 9.1 3.6 | | |
| 6/6 | 0905 | > 24000 | 2400 | | 1045 | 930 | | | | 1050 | 240 | | | | | 23 | | |
| 7/11 | 0940 1103 | 430 93 | - | | 0935 1100 | 240 23 | | | | 0945 1105 | 43 93 | | | | | 43 - | | |
| 8/8 | 0950 | 3.6 | 3.6 | | 0945 | 240 | | | | 0953 | 43 | | | | | 9.1 | | |
| 9/13 | 0955 | 23 | 23 | | 0945 | 75 | | | | 1000 | 23 | | | | | < 3.0 | | |
| 10/3 | 1137 | 23 | 9.1 | | 1132 | 15 | | | | 1145 | 43 | | | | | 7.3 | | |
| 11/29 | 0925 1145 | 240 240 | 43 - | | 0920 1141 | 93 240 | | | | 0930 1152 | 240 1430 | | | | | 23 - | | |
| 12/19 | 1256 | 2400 | 43 | | 1250 | 430 | | | | 1304 | 2400 | | | | | 93 | | |
| Median | 43.0 | | 9.1 | | | 75.0 | | 15.0 | | | 43.0 | | | | | | 9.1 | |
| Log Average | 85.6 | | 16.6 | | | 74.0 | | 19.9 | | | 64.6 | | | | | | 10.6 | |

EAST BAY
AREA NO. 5
WATER QUALITY SURVEY RESULTS

1972

BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

| Sampling Point No. 171 | | | | Sampling Point No. 173 | | | | Sampling Point No. 174 | | | |
|------------------------|------|-------|-------|------------------------|------|-------|-------|------------------------|-------|-------|-------|
| Date | Time | Total | Fecal | Date | Time | Total | Fecal | Date | Time | Total | Fecal |
| 2/1 | 1115 | 15 | 3.6 | 1000 | 93 | 43 | - | 0947 | 23 | - | 9.1 |
| 3/20 | 1210 | 3.0 | 3.0 | 1118 | 3.6 | < 3.0 | - | - | - | - | - |
| 4/5 | 1030 | 39 | 7.2 | 1105 | 7.3 | 3.6 | 3.6 | 1050 | 3.6 | < 3.0 | 9.1 |
| | 1200 | 3.6 | 3.6 | 1141 | 3.6 | 3.6 | 3.6 | 1145 | 9.1 | - | - |
| 5/2 | 0933 | 9.1 | 9.1 | 1011 | 43 | 9.1 | 9.1 | 1018 | < 3.0 | < 3.0 | 3.0 |
| | 1110 | < 3.0 | < 3.0 | 1020 | 9.1 | 9.1 | 9.1 | 1019 | 23 | 23 | 3.6 |
| 6/6 | 1015 | 430 | 430 | 1105 | 4600 | 23 | - | 1110 | 240 | 43 | - |
| 7/11 | 0920 | 93 | 21 | 0955 | 43 | 43 | - | 1000 | 150 | 150 | - |
| | 1048 | 23 | - | 1115 | 9.1 | - | - | 1118 | 43 | - | - |
| 8/8 | 0928 | 93 | 43 | 1005 | 43 | 43 | - | 1008 | 23 | 23 | 23 |
| 9/13 | 0930 | 14 | 14 | 1015 | 9.1 | 9.1 | - | 1020 | 430 | 430 | 9.1 |
| 10/3 | 1110 | 43 | 15 | 1155 | 93 | 11 | - | 1200 | 23 | 23 | - |
| 11/29 | 1120 | 150 | 23 | 1045 | 430 | 75 | - | 1038 | 240 | 240 | - |
| | 1350 | 150 | - | 1305 | 23 | - | - | 1255 | 93 | 93 | - |
| 12/19 | 1220 | 430 | 23 | 1130 | 2400 | 93 | - | 1125 | 930 | 930 | 43 |
| | | | | | | | | | | | |
| Median | | 39.0 | 14.0 | | 43.0 | 11.0 | | | 33.0 | 16.0 | |
| Log Average | | 33.8 | 13.1 | | 44.5 | 15.9 | | | 48.3 | 19.4 | |

EAST BAY
AREA NO. 5
WATER QUALITY SURVEY RESULTS

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1972

BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

| Date | Time | Sampling Point No. 176 | | | Sampling Point No. 178 | | | Sampling Point No. 180 | | |
|-------|------|------------------------|-------|------|------------------------|-------|------|------------------------|-------|------|
| | | Total | Fecal | Time | Total | Fecal | Time | Total | Fecal | Time |
| 2/1 | 0936 | 93 | 9.1 | 1010 | 43 | 9.1 | 1110 | 23 | 9.1 | |
| 3/20 | 1005 | 23 | 9.1 | 1046 | 43 | 23 | 1153 | 23 | 23 | |
| 4/5 | 0930 | 39 | 3.6 | 0950 | 43 | 9.1 | 1015 | 240 | 15 | |
| | 1119 | 9.1 | < 3.0 | 1135 | 43 | 7.3 | 1155 | 9.1 | 9.1 | |
| 5/2 | 0900 | 23 | 23 | 1035 | 23 | < 3.0 | 0911 | 23 | 9.1 | |
| | 1045 | 3.6 | < 3.0 | 1138 | 23 | < 3.0 | 1115 | 15 | 9.1 | |
| 6/6 | 0925 | 240 | 43 | 1125 | 1500 | 120 | 1030 | 930 | 930 | |
| 7/11 | 0845 | 43 | 43 | 1013 | 23 | 23 | 0930 | 23 | 23 | |
| | 1020 | 43 | - | 1130 | 43 | - | 1052 | 43 | - | |
| 8/8 | 0900 | 23 | 9.1 | 1030 | 9.1 | < 3.0 | 0937 | 43 | 9.1 | |
| 9/13 | 1050 | 9.1 | 3.6 | 1030 | 23 | 9.1 | 0940 | 43 | 3.6 | |
| 10/3 | 1025 | 23 | 23 | 1218 | 43 | 9.1 | 1122 | 43 | < 3.0 | |
| 11/29 | 1015 | 93 | 43 | 0940 | 430 | 93 | 0910 | 93 | 43 | |
| | 1224 | 75 | - | 1200 | 240 | - | 1133 | 23 | - | |
| 12/19 | 1102 | 930 | 9.1 | 1310 | 930 | 240 | 1237 | 240 | 15 | |
| | | Median | 9.0 | | 43.0 | 9.1 | | 43.0 | 9.1 | |
| | | Log Average | 39.4 | | 66.7 | 11.0 | | 47.7 | 15.0 | |

EAST BAY
AREA NO. 5
WATER QUALITY SURVEY RESULTS
1972

Chem.
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CHEMICAL RESULTS

SAMPLING POINT - 123

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|--------------|------------------|------------|------------------|------------|------------|--------|
| 2/1 | 0908 | 19,000 | 7.8 | 27 | 3.0 | 10.8 | 3 ** |
| 3/20 | 0940 | 18,600 | 7.9 | 39 | 3.4 | 10.4 | 3 *** |
| 4/5 | 0910 | 18,400 | 7.6 | 35 | 4.3 | 10.2 | 2 |
| 5/2 | 0925 | 19,000 | 8.1 | 28 | 7.0 | 10.2 | 3 ** |
| 6/6 | 0955 | 17,600 | 7.7 | 23 | - | 6.8 | 1 ** |
| 7/11 | 0910 | 17,600 | 7.9 | 30 | 18.1 | 6.8 | 1 ** |
| 8/8 | 0924 | 18,800 | 7.9 | 26 | 22.2 | 7.2 | 1 ** |
| 9/13 | 1105 | 19,400 | 7.7 | 39 | 19.3 | 5.4 | < 1 |
| 10/3 | 1102 | 18,200 | 8.0 | 26 | 17.1 | 7.0 | 1 *** |
| 11/29 | 1112 1340 | 18,000 18,200 | 7.9 8.0 | 35 66 | 6.6 8.3 | 9.6 8.6 | 2 1 |
| 12/19 | 1208 | 18,400 | 7.7 | 38 | 3.3 | 10.4 | 3 *** |
| Averages | | 18,400 | 7.8 | 34 | 10.2 | 8.6 | 2 |

Notes: (1) All readings are in mg/l unless otherwise noted.

(2) Chlorides expressed as mg/l Cl.

(3) pH average is Logarithmic

(4) * Designates 1/4 day B.O.D.

(5) ** Designates 6 day B.O.D.

(6) *** Designates 7 day B.O.D.

(7) *** Designates 8 day B.O.D.

EAST BAY
AREA NO. 5
WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

SAMPLING POINT - 123

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | | |
|-----------------|------|-----------------|-----------------|-----------------|--------------------------------|-------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | Total |
| 2/1 | 0908 | 0.12 | 0.004 | 0.10 | 31.5 | 0.18 | 0.22 |
| 3/20 | 0940 | 0.07 | 0.005 | 0.08 | 31.6 | 0.18 | 0.31 |
| 4/5 | 0910 | 0.11 | 0.003 | 0.08 | 31.6 | 0.15 | 0.20 |
| 5/2 | 0925 | < 0.02 | 0.003 | < 0.04 | - | 0.15 | 0.17 |
| 6/6 | 0955 | 0.06 | 0.005 | < 0.02 | - | 0.17 | 0.29 |
| 7/11 | 0910 | < 0.02 | 0.004 | < 0.01 | 30.4 | 0.18 | 0.29 |
| 8/8 | 0924 | < 0.02 | < 0.001 | < 0.05 | 32.0 | 0.12 | 0.25 |
| 9/13 | 1105 | < 0.02 | 0.004 | < 0.05 | 32.9 | 0.17 | 0.19 |
| 10/3 | 1102 | 0.11 | 0.004 | 0.07 | 32.2 | 0.18 | 0.19 |
| 11/29 | 1112 | 0.10 | 0.012 | 0.17 | 31.6 | 0.19 | 0.26 |
| | 1340 | 0.10 | 0.016 | 0.19 | 33.0 | 0.18 | 0.36 |
| 12/19 | 1208 | 0.17 | 0.016 | 0.15 | 32.6 | 0.18 | 0.23 |
| Averages | | 0.08 | 0.006 | 0.08 | 32.0 | 0.17 | 0.25 |

Notes: See Sampling Point - 123

EAST BAY
AREA NO. 5
WATER QUALITY SURVEY RESULTS

1972

Chem.
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CHEMICAL RESULTS

SAMPLING POINT - 126

| Date | Time | Chlorides | pH | Suspended Solids | Temp OC | D.O. | B.O.D. |
|----------|------|-----------|-----|------------------|------------|------|---------|
| 2/1 | 0922 | 19,000 | 7.8 | 36 | 4.1 | 10.4 | 2 *** |
| 3/20 | 0950 | 19,000 | 7.4 | 46 | 3.2 | 10.6 | 3 *** |
| 4/5 | 0918 | 18,600 | 7.9 | 42 | 4.2 | 9.8 | 2 |
| 5/2 | 0915 | 18,200 | 7.9 | 29 | 8.0 | 9.8 | 3 ** |
| 6/6 | 0945 | 18,200 | 7.5 | 30 | - | 7.0 | 1 ** |
| 7/11 | 0900 | 17,800 | 8.0 | 25 | 18.1 | 6.6 | 1 *** |
| 8/8 | 0912 | 19,000 | 7.6 | 25 | 21.3 | 7.2 | 1 *** |
| 9/13 | 1100 | 19,200 | 7.6 | 37 | 19.1 | 5.2 | 1 |
| 10/3 | 1045 | 18,200 | 8.1 | 27 | 17.4 | 7.4 | > 7 *** |
| 11/29 | 1030 | 18,000 | 7.9 | 28 | 6.1 | 9.4 | 1 |
| | 1250 | 18,000 | 8.0 | 40 | 7.1 | 9.2 | 1 |
| 12/19 | 1145 | 18,600 | 7.8 | 49 | 3.5 | 10.4 | 2 *** |
| Averages | | 18,600 | 7.8 | 35 | 11.0 | 8.7 | 2 |

Notes: See Sampling Point - 123

EAST BAY
AREA NO. 5
WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

SAMPLING POINT - 126

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | | Total |
|----------|----------------------|----------------------|-------------------------|----------------------|--------------------------------|----------------------|----------------------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | |
| 2/1 | 0922 | 0.08 | 0.003 | 0.07 | 33.2 | 0.12 | 0.19 |
| 3/20 | 0950 | 0.05 | 0.004 | 0.10 | 31.2 | 0.19 | 0.25 |
| 4/5 | 0918 | 0.09 | 0.003 | 0.10 | 31.4 | 0.14 | 0.19 |
| 5/2 | 0915 | < 0.02 | 0.004 | 0.06 | - | 0.20 | 0.20 |
| 6/6 | 0945 | 0.32 | 0.004 | < 0.02 | - | 0.14 | 0.19 |
| 7/19 | 0900 | 0.04 | < 0.001 | < 0.01 | 30.6 | 0.15 | 0.20 |
| 8/8 | 0912 | 0.02 | 0.002 | < 0.05 | 31.9 | 0.12 | 0.18 |
| 9/13 | 1100 | 0.02 | 0.003 | 0.06 | 32.6 | 0.15 | 0.18 |
| 10/3 | 1045 | 0.07 | 0.003 | < 0.01 | 32.6 | 0.17 | 0.20 |
| 11/29 | 1030 1250 1145 | 0.20 8.19 8.17 | 0.009 0.011 0.012 | 0.14 0.20 0.16 | 31.9 31.8 32.7 | 0.12 0.12 0.11 | 0.18 0.26 0.25 |
| 12/19 | | 0.10 | 0.005 | 0.08 | 32.0 | 0.14 | 0.21 |
| Averages | | | | | | | |

Notes: See Sampling Point - 123

EAST BAY
AREA NO. 5
WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

SAMPLING POINT - 173

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|--------------|------------------|------------|------------------|------------|------------|--------|
| 2/1 | 1000 | 18,800 | 7.9 | 23 | 3.5 | 10.1 | 2 ** |
| 3/20 | 1118 | 18,800 | 8.0 | 40 | 4.2 | 10.6 | 3 *** |
| 4/5 | 1105 | 18,200 | 7.8 | 38 | 4.8 | 10.6 | 2 |
| 5/2 | 1011 | 19,000 | 8.0 | 30 | 9.0 | 9.2 | 2 *** |
| 6/6 | 1105 | 17,600 | 7.8 | 39 | - | 7.4 | 2 ** |
| 7/11 | 0950 | 17,800 | 8.0 | 30 | 18.9 | 6.8 | 1 ** |
| 8/8 | 1005 | 18,400 | 7.9 | 44 | 22.8 | 6.4 | 2 |
| 9/13 | 1015 | 19,000 | 7.6 | 33 | 20.1 | 6.0 | 1 |
| 10/3 | 1155 | 18,000 | 8.0 | 33 | 17.1 | 8.2 | 2 *** |
| 11/29 | 1045 1305 | 17,800 17,600 | 7.9 8.0 | 32 54 | 6.5 6.5 | 9.4 9.4 | 1 1 |
| 12/19 | 1130 | 18,000 | 7.6 | 37 | 1.9 | 10.8 | 3 *** |
| Averages | | 18,300 | 7.9 | 36 | 10.5 | 8.8 | 2 |

Notes: See Sampling Point - 123

EAST BAY
AREA NO. 5
WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

SAMPLING POINT - 173

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | | Total |
|----------|--------------|-----------------|-----------------|-----------------|--------------------------------|--------------|--------------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | |
| 2/1 | 1000 | < 0.04 | 0.004 | 0.17 | 32.5 | 0.11 | 0.18 |
| 3/20 | 1118 | 0.04 | 0.003 | 0.08 | 30.2 | 0.14 | 0.14 |
| 4/5 | 1105 | 0.12 | 0.003 | 0.08 | 31.1 | 0.14 | 0.18 |
| 5/2 | 1011 | < 0.02 | 0.005 | 0.06 | - | 0.20 | 0.20 |
| 6/6 | 1105 | 0.03 | 0.009 | 0.06 | - | 0.11 | 0.23 |
| 7/11 | 0950 | < 0.02 | < 0.001 | < 0.01 | 30.4 | 0.15 | 0.20 |
| 8/8 | 1005 | 0.04 | 0.001 | < 0.05 | 32.2 | 0.15 | 0.26 |
| 9/13 | 1015 | 0.04 | 0.006 | < 0.05 | 32.4 | 0.18 | 0.20 |
| 10/3 | 1155 | 0.13 | 0.009 | 0.07 | 31.7 | 0.20 | 0.20 |
| 11/29 | 1015 1305 | 0.17 0.13 | 0.009 0.009 | 0.17 0.12 | 31.4 31.8 | 0.11 0.12 | 0.26 0.23 |
| 12/19 | 1130 | 0.17 | 0.016 | 0.21 | 31.7 | 0.23 | 0.23 |
| Averages | | 0.08 | 0.006 | 0.09 | 31.5 | 0.15 | 0.21 |

Notes: See Sampling Point - 123

EAST BAY
AREA NO. 5
WATER QUALITY SURVEY RESULTS
1972

Chem.
 7 of 12

CHEMICAL RESULTS

SAMPLING POINT - 176

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|--------------|------------------|------------|------------------|------------|------------|--------|
| 2/1 | 0936 | 19,400 | 7.9 | 27 | 3.7 | 10.4 | 3 ** |
| 3/20 | 1005 | 18,200 | 7.9 | 39 | 3.6 | 10.8 | 3 *** |
| 4/5 | 0930 | 18,400 | 7.8 | 43 | 4.4 | 10.4 | 2 |
| 5/2 | 0900 | 18,400 | 7.6 | 33 | 9.0 | 9.2 | 3 ** |
| 6/6 | 0925 | 18,200 | 7.2 | 17 | - | 6.8 | 2 *** |
| 7/11 | 0845 | 17,800 | 7.9 | 30 | 19.9 | 6.4 | 1 ** |
| 8/8 | 0900 | 19,600 | 7.7 | 34 | 21.5 | 7.2 | 1 ** |
| 9/13 | 1050 | 18,800 | 7.6 | 38 | 20.3 | 6.6 | 1 |
| 10/3 | 1025 | 18,200 | 7.8 | 35 | 16.6 | 7.4 | 1 *** |
| 11/29 | 1015 1224 | 17,600 17,800 | 7.7 8.0 | 39 24 | 6.2 6.5 | 9.0 9.8 | 1 2 |
| 12/19 | 1102 | 17,600 | 7.4 | 36 | 3.0 | 10.8 | 3 *** |
| Averages | | 18,300 | 7.7 | 34 | 10.4 | 8.7 | 2 |

Notes: See Sampling Point - 123

EAST BAY
AREA NO. 5
WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

SAMPLING POINT - 176

Chem.
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| Date | Time | Salinity | Nitrogen as N | | | Ortho | Phosphorous as PO ₄ | Total |
|----------|--------------|--------------|-----------------|-----------------|-----------------|--------------|--------------------------------|--------------|
| | | | NH ₃ | NO ₂ | NO ₃ | | | |
| 2/1 | 0936 | 33.1 | 0.04 | 0.005 | 0.09 | 0.17 | 0.25 | 0.25 |
| 3/20 | 1005 | 30.6 | 0.03 | 0.004 | 0.08 | 0.11 | 0.19 | 0.19 |
| 4/5 | 0930 | 31.3 | 0.07 | 0.003 | 0.08 | 0.14 | 0.18 | 0.18 |
| 5/2 | 0900 | - | 0.02 | 0.006 | 0.09 | 0.18 | 0.18 | 0.18 |
| 6/6 | 0925 | - | < 0.02 | 0.004 | 0.02 | 0.12 | 0.20 | 0.20 |
| 7/11 | 0845 | 30.5 | 0.02 | < 0.001 | < 0.01 | 0.15 | 0.19 | 0.19 |
| 8/8 | 0900 | 31.8 | 0.02 | 0.001 | < 0.05 | 0.15 | 0.20 | 0.20 |
| 9/13 | 1050 | 32.5 | < 0.02 | 0.003 | < 0.05 | 0.19 | 0.23 | 0.23 |
| 10/3 | 1025 | 32.3 | 0.11 | 0.004 | < 0.01 | 0.19 | 0.20 | 0.20 |
| 11/29 | 1015 1224 | 31.6 31.7 | 0.23 0.17 | 0.010 0.007 | 0.25 0.17 | 0.18 0.06 | 0.20 0.23 | 0.20 0.23 |
| 12/19 | 1102 | 32.8 | 0.14 | 0.015 | 0.21 | 0.18 | 0.23 | 0.23 |
| Averages | | 31.8 | 0.07 | 0.005 | 0.09 | 0.15 | 0.21 | 0.21 |

Notes: See Sampling Point - 123

EAST BAY
AREA NO. 5
WATER QUALITY SURVEY RESULTS

Chem.
9 of 12

1972

CHEMICAL RESULTS

SAMPLING POINT - 178

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------------|---------|------|--------|
| 2/1 | 1010 | 18,800 | 8.1 | 28 | 1.9 | 11.0 | 3 *** |
| 3/20 | 1046 | 17,400 | 8.0 | 25 | 4.4 | 11.0 | 3 *** |
| 4/5 | 0950 | 17,600 | 7.8 | 49 | 5.1 | 10.2 | 2 |
| 5/2 | 1035 | 17,800 | 8.1 | 38 | 10.0 | 9.2 | 2 ** |
| 6/6 | 1125 | 17,200 | 7.9 | 29 | - | 7.6 | 2 ** |
| 7/11 | 1013 | 17,400 | 8.1 | 28 | 20.8 | 7.6 | 2 *** |
| 8/8 | 1030 | 18,200 | 7.9 | 29 | 22.9 | 7.4 | 2 ** |
| 9/13 | 1030 | 18,600 | 7.6 | 23 | 20.3 | 6.2 | 1 |
| 10/3 | 1218 | 17,800 | 8.0 | 23 | 17.2 | 8.2 | 1 *** |
| 11/29 | 0940 | 16,000 | 7.5 | 23 | 6.3 | - | - |
| | 1200 | 16,400 | 7.9 | 31 | 6.3 | 9.6 | 3 |
| 12/19 | 1310 | 16,800 | 7.8 | 34 | 3.1 | 11.0 | 3 *** |
| Averages | | 17,500 | 7.9 | 30 | 10.8 | 9.0 | 2 |

Notes: See Sampling Point - 123

EAST BAY
AREA NO. 5
WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

SAMPLING POINT - 401

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|--------------|------------------|------------|------------------|------------|------------|--------|
| 2/1 | 1110 | 18,800 | 8.2 | 31 | 3.2 | 10.8 | 3 ** |
| 3/20 | 1153 | 18,000 | 8.0 | 41 | 4.8 | 11.0 | 3 *** |
| 4/5 | 1015 | 18,400 | 7.7 | 26 | 4.7 | 10.2 | 2 |
| 5/2 | 0941 | 18,400 | 8.0 | 31 | 9.0 | 9.2 | 3 ** |
| 6/6 | 1030 | 17,400 | 7.7 | 25 | - | 7.6 | 2 ** |
| 7/11 | 0930 | 17,800 | 8.0 | 36 | 19.7 | 6.6 | 1 ** |
| 8/8 | 0937 | 19,000 | 7.9 | 18 | 21.9 | 6.6 | 1 ** |
| 9/13 | 0940 | 19,200 | 7.3 | 36 | 20.2 | 5.8 | 1 |
| 10/3 | 1127 | 18,200 | 7.9 | 24 | 17.2 | 7.0 | 1 *** |
| 11/29 | 0910 1133 | 17,400 17,200 | 7.1 7.9 | 30 29 | 6.1 6.8 | 9.2 9.2 | 1 1 |
| 12/19 | 1237 | 18,000 | 7.8 | 39 | 2.4 | 10.4 | 3 *** |
| Averages | | 18,200 | 7.8 | 31 | 10.5 | 8.6 | 2 |

Notes: See Sampling Point - 123

EAST BAY
 AREA NO. 5
WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

SAMPLING POINT - 178

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ ³⁻ | | | Total |
|----------|------|-----------------|-----------------|-----------------|--|-------|------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | | |
| 2/1 | 1010 | 0.08 | 0.005 | 0.14 | 31.7 | 0.12 | 0.18 | |
| 3/20 | 1046 | 0.05 | 0.003 | 0.16 | 29.3 | 0.10 | 0.12 | |
| 4/5 | 0950 | 0.11 | 0.003 | 0.20 | 30.6 | 0.08 | 0.19 | |
| 5/2 | 1035 | < 0.02 | 0.006 | 0.11 | - | 0.17 | 0.18 | |
| 6/6 | 1125 | 0.03 | 0.011 | 0.07 | - | 0.14 | 0.25 | |
| 7/11 | 1013 | 0.02 | 0.005 | < 0.01 | 30.4 | 0.15 | 0.20 | |
| 8/8 | 1030 | 0.01 | 0.002 | 0.07 | 31.9 | 0.12 | 0.20 | |
| 9/13 | 1030 | < 0.02 | 0.006 | 0.15 | 31.9 | 0.18 | 0.26 | |
| 10/3 | 1218 | 0.11 | 0.011 | 0.06 | 31.7 | 0.12 | 0.22 | |
| 11/29 | 0940 | 0.40 | 0.012 | 0.70 | 30.9 | 0.07 | 0.15 | |
| | 1200 | 0.23 | 0.010 | 0.48 | 30.5 | 0.06 | 0.26 | |
| 12/19 | 1310 | 0.19 | 0.015 | 0.36 | 31.0 | 0.19 | 0.20 | |
| Averages | | 0.11 | 0.007 | 0.21 | 30.9 | 0.13 | 0.20 | |

Notes: See Sampling Point - 123

EAST BAY
AREA NO. 5
WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

SAMPLING POINT - 401

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | |
|----------|--------------|-----------------|-----------------|-----------------|--------------------------------|--------------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho |
| 2/1 | 1110 | 0.17 | 0.006 | 0.10 | 31.7 | 0.15 |
| 3/20 | 1153 | 0.03 | 0.003 | 0.09 | 29.8 | 0.18 |
| 4/5 | 1015 | 0.12 | 0.002 | 0.08 | 31.0 | 0.17 |
| 5/2 | 0941 | 0.02 | 0.006 | 0.08 | - | 0.23 |
| 6/6 | 1030 | 0.05 | 0.007 | 0.03 | - | 0.14 |
| 7/11 | 0930 | 0.07 | 0.002 | <0.01 | 30.4 | 0.25 |
| 8/8 | 0937 | 0.02 | <0.001 | 0.05 | 32.0 | 0.17 |
| 9/13 | 0940 | 0.02 | 0.006 | <0.05 | 32.1 | 0.29 |
| 10/3 | 1127 | 0.31 | 0.010 | 0.03 | 31.9 | 0.23 |
| 11/29 | 0910 1133 | 0.20 0.17 | 0.009 0.010 | 0.13 0.14 | 31.7 31.4 | 0.12 0.18 |
| 12/19 | 1237 | 0.17 | 0.016 | 0.18 | 32.2 | 0.23 |
| Averages | | 0.11 | 0.007 | 0.09 | 31.4 | 0.20 |
| | | | | | | 0.26 |

Notes: See Sampling Point - 123

SOUTH OYSTER BAY

WATER QUALITY

SURVEY RESULTS

1972

NASSAU COUNTY DEPARTMENT OF HEALTH

John J. Dowling, M.D., M.P.H.

Commissioner of Health

Division of Environmental Health
George H. Sumner, M.C.E., P.E.
Deputy Commissioner

Bureau of Water Pollution Control
Stanley Juczak, M.C.E., P.E.
Director

INTRODUCTION

The purpose of this paper is to summarize the chemical and bacteriological results of the samples collected by the Department of Health during 1972. These results reflect the overall water quality in the bay, during the sampling period.

STUDY AREA

South Oyster Bay has been defined as the body of water bounded on the east by the Nassau-Suffolk County line, on the south by the Jones Beach Barrier Island, on the west by the Wantagh Parkway and on the north by the mainland.

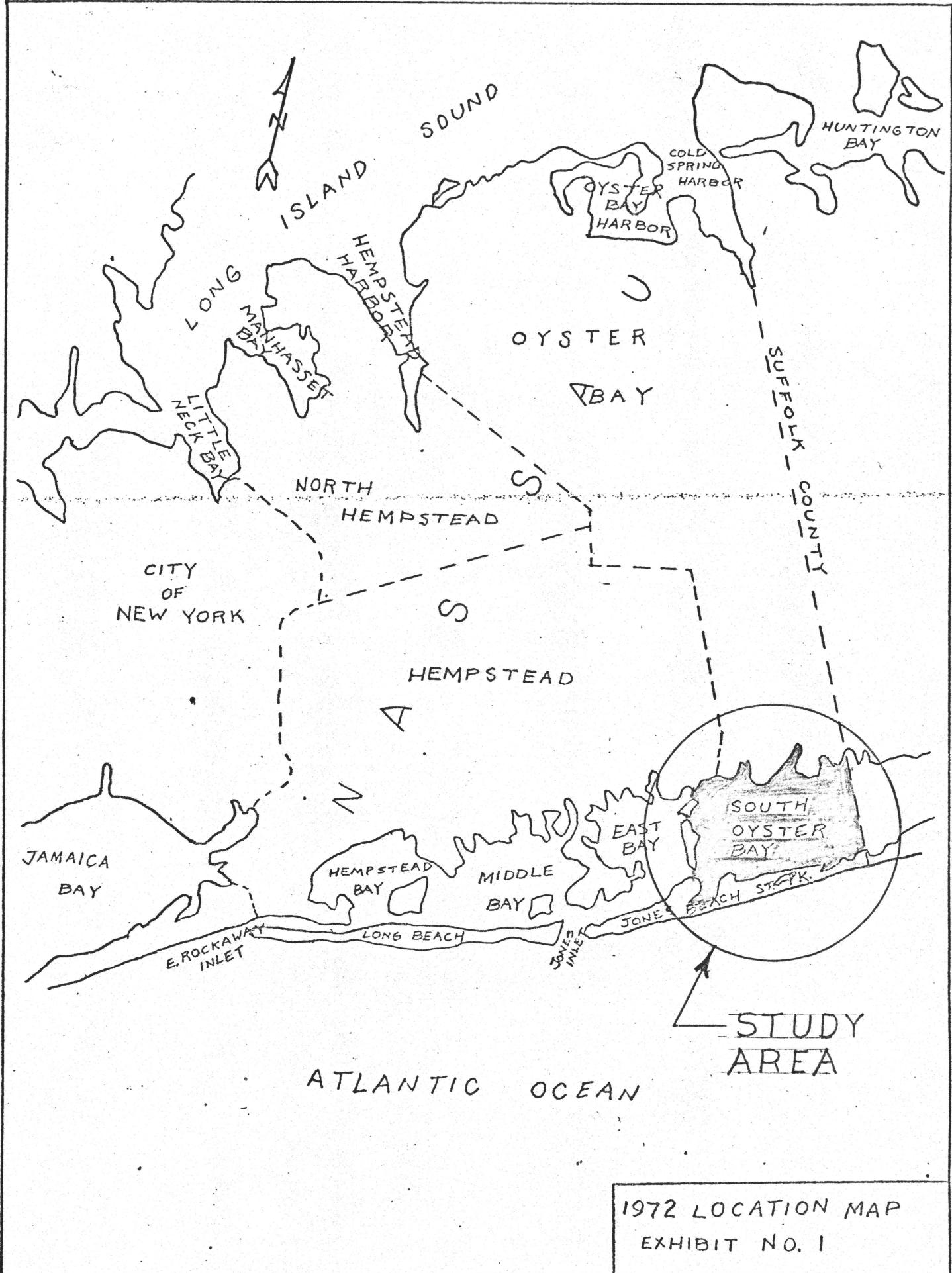
Exhibit I shows the location of South Oyster Bay and Exhibit 2 shows the details of the sampling locations.

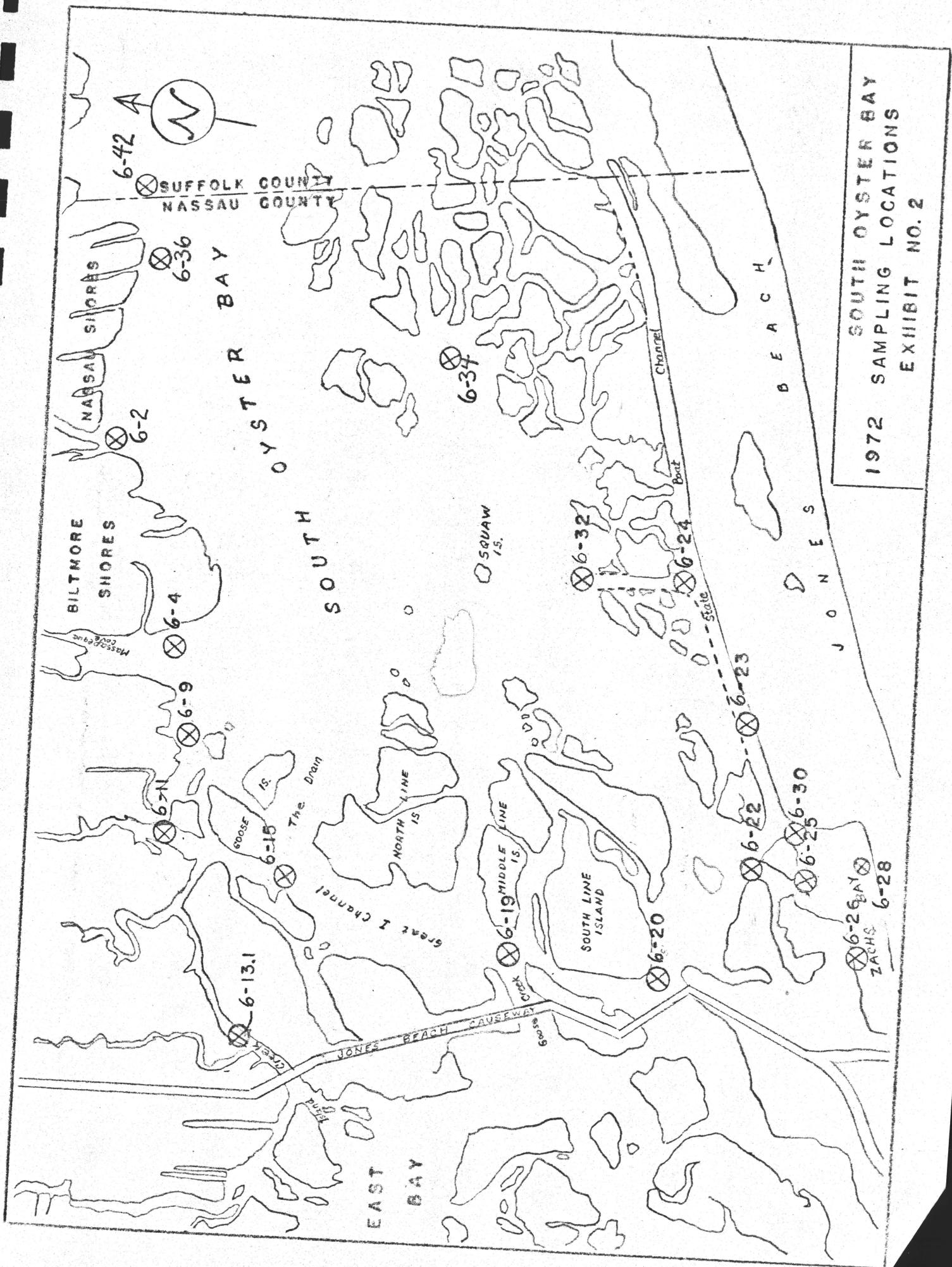
South Oyster Bay is influenced by the flow of water coming in and out of Jones Inlet. The tidal divide between South Oyster Bay and Great South Bay is located approximately at the Nassau-Suffolk County line.

SAMPLING PROCEDURE AND ANALYSES

All samples were collected by personnel from the Health Department and were analyzed in accordance with the procedures and methods outlined in the 13th edition of Standard Methods. Laboratory analyses were performed by the Health Department's Division of Laboratories and Research.

All bacteriological samples were collected at or near the surface. Most samples for chemical analyses were collected approximately 5 feet below the surface.





1972 SAMPLING LOCATIONS
EXHIBIT NO. 2

SOUTH OYSTER BAY
SAMPLING POINT LOCATIONS
AREA 6

POINT NO.

- | | |
|--------|--|
| 2.0 | In channel at entrance to Jones Creek. |
| 4.0 | Eastern shore of Massapequa Creek, approximately 250 yards south of channel and 30 yards offshore at Fort Neck Meadow. |
| * 9.0 | Approximately 300 yards off west shore of mouth of Massapequa Creek off cove with "Private Beach" sign. |
| 11.0 | Great Island Channel at entrance to Seaford Creek. |
| 13.1 | Island Creek approximately 400 yards east of bridge. |
| 15.0 | Great Island Channel approximately 200 yards southwest of Goose Island near pole No. Z 13. |
| * 19.0 | Main channel east of Goose Creek Bridge and north of pole "64". |
| 20.0 | East of Sloop Channel Bridge at intersection with Great Island Channel. |
| 22.0 | West entrance to Zachs Bay off Flashing Red light on pole "74". |
| 23.0 | Approximately 350 yards east of pole No. "80" in State Boat Channel. |
| 24.0 | State Boat Channel between pole No. "81" and Flashing Green light on pole "83". |
| 25.0 | Zachs Bay off Town of Hempstead marker No. "Z-2" |
| 26.0 | West end of Zachs Bay approximately 130 yards east of the string of barrier poles and 75 yards offshore. |
| * 28.0 | About 125 yards off south shore of Zachs Bay between east and west bay entrances. |
| 30.0 | East entrance to Zachs Bay about 50 yards south of pole No's. "78" and "ZA-1". |
| * 32.0 | Midway between poles "S 1-1", "S 1-2" and "S 1-4". |

POINT NO.

- * 34.0 Amity Channel, 300 yards south of West Island and in line with southerly channel.
- 36.0 Approximately 100 yards offshore between 2 easterly canals at Unqua Pt.
- * 42.0 In channel between Carman and Narraskatuck Creek, approximately 1/3 mile southeast of Unqua Point.

TBB:cg
11/4/71

SOUTH OYSTER BAY
TIDE AND PRECIPITATION DATA

1972

LOCAL TIME

| <u>Date</u> | <u>High Water</u> H.M. | <u>Low Water</u> H.M. | <u>Precipitation-Inches</u> Freeport |
|-------------|---------------------------|--------------------------|---|
| 2/7 | | | 0.02 |
| 2/8 | | | - |
| 2/9 | 1706 | 1150 | - |
| 3/11 | | | 0.07 |
| 3/12 | | | 0.36 |
| 3/13 | 0801 | 1440 | - |
| 4/9 | | | - |
| 4/10 | | | - |
| 4/11 | 0730 | 1405 | - |
| 5/14 | | | 0.89 |
| 5/15 | | | 0.02 |
| 5/16 | 1321 | 0743 | - |
| 6/25 | | | 0.03 |
| 6/26 | | | 0.05 |
| 6/27 | 1104 | 1737 | - |
| 7/24 | | | - |
| 7/25 | | | 0.12 |
| 7/26 | 1040 | 1716 | - |
| 8/27 | | | - |
| 8/28 | | | 0.02 |
| 8/29 | 1402 | 0766 | - |
| 9/25 | | | - |
| 9/26 | | | - |
| 9/27 | 1343 | 0746 | 0.35 |

| <u>Date</u> | <u>High Water</u> H.M. | <u>Low Water</u> H.M. | <u>Precipitation-Inches</u> Freeport |
|-------------|---------------------------|--------------------------|---|
| 10/29 | | | - |
| 10/30 | | | - |
| 10/31 | 1734 | 1153 | 7 |
| 11/20 | | | 1.24 |
| 11/21 | | | - |
| 11/22 | 1022 | 1725 | - |
| 12/9 | | | 0.07 |
| 12/10 | | | 0.20 |
| 12/11 | 1307 | 0709 | - |

SOUTH OYSTER BAY
AREA NO. 6
WATER QUALITY SURVEY RESULTS
1972

CHEMICAL RESULTS

SAMPLING POINT - 9

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|-------|-----------|-----|------------------|---------|------|--------|
| 2/9 | 1135* | 17,200 | 7.9 | 38 | 2.0 | 12.6 | 4 |
| 3/13 | 1115 | 17,600 | 7.9 | 37 | 3.5 | 11.4 | 4 *** |
| 4/11 | 1050 | 18,000 | 8.1 | 46 | 5.1 | 9.8 | 2 ** |
| 5/16 | 1103 | 17,200 | 8.0 | 53 | 12.0 | 7.8 | 2 ** |
| 6/27 | 1106 | 16,400 | 7.6 | 27 | 18.1 | 6.1 | 1 ** |
| 7/26 | 1200 | 18,200 | 7.7 | 33 | 24.4 | 6.6 | 1 |
| 8/29 | 1005 | 20,400 | 7.9 | 24 | 23.2 | 5.8 | 1 *** |
| 9/27 | 1247 | 18,800 | 7.9 | 40 | 20.1 | 6.8 | 1 |
| 10/31 | 1042 | 15,600 | 8.0 | 38 | 10.5 | 8.6 | 1 ** |
| 11/22 | 1122 | 18,200 | 7.9 | 37 | 5.9 | 9.0 | 1 |
| 12/11 | 1154 | 17,800 | 8.0 | 40 | 5.8 | 9.4 | 1 *** |
| Averages | | 17,800 | 7.9 | 38 | 11.5 | 8.6 | 2 |

- Notes: (1) All readings are in mg/l unless otherwise noted.
 (2) Chlorides expressed as mg/l Cl.
 (3) pH average is Logarithmic
 (4) * Designates 4 day B.O.D.
 (5) ** Designates 6 day B.O.D.

(6) *** Designates 7 day B.O.D.
 (7) **** Designates 8 day B.O.D.

SOUTH OYSTER BAY
AREA NO. 6
WATER QUALITY SURVEY RESULTS
1972

Chem.
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CHEMICAL RESULTS

SAMPLING POINT - 9

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | | |
|----------|------|-----------------|-----------------|-----------------|--------------------------------|-------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | Total |
| 2/9 | 1135 | 0.05 | 0.009 | 0.24 | 29.5 | 0.14 | 0.18 |
| 3/13 | 1115 | 0.12 | 0.005 | 0.24 | 29.2 | 0.15 | 0.17 |
| 4/11 | 1050 | 0.07 | 0.007 | 0.18 | 30.2 | 0.14 | 0.22 |
| 5/16 | 1103 | 0.04 | < 0.001 | 0.07 | - | 0.14 | 0.22 |
| 6/27 | 1106 | 0.09 | 0.006 | 0.04 | 29.5 | 0.17 | 0.22 |
| 7/26 | 1200 | 0.04 | < 0.001 | < 0.01 | 31.1 | 0.22 | 0.23 |
| 8/29 | 1005 | 0.02 | 0.003 | 0.06 | 32.0 | 0.22 | 0.25 |
| 9/27 | 1247 | 0.04 | 0.001 | < 0.01 | 32.1 | 0.19 | 0.25 |
| 10/31 | 1042 | 0.29 | 0.003 | 0.15 | 32.2 | 0.12 | 0.15 |
| 11/22 | 1122 | 0.14 | 0.008 | 0.13 | 32.6 | 0.19 | 0.19 |
| 12/11 | 1154 | 0.02 | 0.011 | 0.21 | 32.0 | 0.15 | 0.22 |
| Averages | | 0.08 | 0.005 | 0.12 | 31.0 | 0.17 | 0.21 |

Notes: See Sampling Point - 9.0

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SOUTH OYSTER BAY
AREA NO. 6
WATER QUALITY SURVEY RESULTS
1972

CHEMICAL RESULTS

SAMPLING POINT - 32

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | T.D. | B.O.D. |
|----------|------|-----------|-----|------------------|---------|------|--------|
| 2/9 | 1055 | 18,200 | 7.9 | 42 | 2.0 | 12.4 | 4 |
| 3/13 | 1002 | 18,000 | 7.9 | 33 | 3.5 | 11.8 | 4 *** |
| 4/11 | 0943 | 18,600 | 7.9 | 22 | 4.9 | 9.8 | 3 ** |
| 5/16 | 0952 | 17,200 | 8.0 | 28 | 11.0 | 7.8 | 2 ** |
| 6/27 | 0947 | 16,400 | 7.7 | 25 | 18.1 | 7.0 | 1 ** |
| 7/26 | 1115 | 18,600 | 7.8 | 29 | 22.8 | 7.4 | 3 |
| 8/29 | 1106 | 22,000 | 8.1 | 22 | 23.6 | 7.2 | 1 |
| 9/27 | 1115 | 18,600 | 7.9 | 31 | 20.3 | 6.8 | 2 |
| 10/31 | 0948 | 18,200 | 8.1 | 29 | 9.4 | 9.2 | 2 ** |
| 11/22 | 1010 | 19,600 | 8.0 | 46 | 7.2 | 8.8 | < 1 |
| 12/11 | 1030 | 18,000 | 8.0 | 41 | 5.4 | 10.0 | 2 *** |
| Averages | | 18,500 | 7.9 | 32 | 11.3 | 8.9 | 2 |

Notes: See Sampling Point - 9.0

SOUTH OYSTER BAY
AREA NO. 6
WATER QUALITY SURVEY RESULTS

1972

CHEMICAL RESULTS

SAMPLING POINT - 32

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ ³⁻ | | | Total |
|-----------------|------|-----------------|-----------------|-----------------|--|-------|--|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | | |
| 2/9 | 1055 | 0.03 | 0.007 | 0.12 | 31.3 | 0.14 | | 0.22 |
| 3/13 | 1002 | 0.10 | 0.002 | 0.12 | 30.7 | 0.11 | | 0.22 |
| 4/11 | 0943 | 0.07 | 0.003 | 0.08 | 31.3 | 0.10 | | 0.17 |
| 5/16 | 0952 | 0.02 | < 0.001 | < 0.01 | - | 0.11 | | 0.18 |
| 6/27 | 0947 | 0.07 | 0.003 | < 0.01 | 29.8 | 0.11 | | 0.17 |
| 7/26 | 1115 | 0.04 | < 0.001 | < 0.01 | 32.8 | 0.20 | | 0.25 |
| 8/29 | 1106 | 0.02 | < 0.001 | 0.09 | 31.9 | 0.20 | | 0.20 |
| 9/27 | 1145 | 0.02 | < 0.001 | < 0.01 | 32.5 | 0.15 | | 0.15 |
| 10/31 | 0948 | 0.09 | 0.003 | 0.01 | 32.9 | 0.07 | | 0.17 |
| 11/22 | 1010 | 0.12 | 0.004 | < 0.05 | 33.9 | 0.22 | | 0.28 |
| 12/11 | 1030 | 0.02 | 0.011 | 0.10 | 32.2 | 0.18 | | 0.19 |
| Averages | | 0.05 | 0.003 | 0.06 | 31.9 | 0.14 | | 0.20 |

Notes: See Sampling Point - 9.0

SOUTH OYSTER BAY
AREA NO. 6
WATER QUALITY SURVEY RESULTS

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CHEMICAL RESULTS

SAMPLING POINT - 28

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------------|---------|------|--------|
| 2/9 | 1030 | 18,200 | 7.6 | 46 | 2.0 | 12.2 | 5 |
| 3/13 | 0943 | 18,200 | 8.0 | 24 | 3.1 | 11.4 | 3 *** |
| 4/11 | 0920 | 19,600 | 7.4 | 24 | 4.7 | 10.0 | 2 ** |
| 5/16 | 0934 | 17,400 | 8.1 | 29 | 10.0 | 8.4 | 2 ** |
| 6/27 | 0930 | 16,600 | 7.7 | 27 | 17.1 | 7.0 | 2 ** |
| 7/26 | 1057 | 18,100 | 7.8 | 35 | 22.9 | 7.0 | 2 |
| 8/29 | 1133 | 21,600 | 7.9 | 26 | 23.1 | 6.0 | 1 *** |
| 9/27 | 1203 | 18,800 | 7.9 | 30 | 19.5 | 7.0 | < 1 ** |
| 10/31 | 0930 | 18,100 | 8.0 | 30 | 10.9 | 8.6 | 1 |
| 11/22 | 0945 | 18,000 | 7.9 | 33 | 5.2 | 9.8 | 2 *** |
| 12/11 | 1008 | 18,000 | 7.9 | 29 | 6.0 | 9.6 | |
| Averages | | 18,500 | 7.8 | 30 | 11.0 | 8.8 | 2 |

Notes: See Sampling Point - 9.0

SOUTH OYSTER BAY
AREA NO. 6
WATER QUALITY SURVEY RESULTS

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CHEMICAL RESULTS

SAMPLING POINT - 28

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ ³⁻ | | |
|----------|------|-----------------|-----------------|-----------------|--|-------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | Total |
| 2/9 | 1030 | < 0.03 | 0.008 | 0.11 | 30.8 | 0.17 | 0.20 |
| 3/13 | 0943 | 0.07 | 0.006 | 0.12 | 30.1 | 0.14 | 0.22 |
| 4/11 | 0920 | 0.07 | 0.003 | 0.07 | 31.2 | 0.11 | 0.12 |
| 5/16 | 0934 | 0.04 | < 0.001 | < 0.01 | - | 0.12 | 0.18 |
| 6/27 | 0930 | 0.05 | 0.003 | < 0.01 | 30.2 | 0.12 | 0.18 |
| 7/26 | 1057 | 0.04 | < 0.001 | < 0.01 | 31.7 | 0.20 | 0.26 |
| 8/29 | 1133 | 0.02 | < 0.001 | 0.09 | 32.0 | 0.14 | 0.19 |
| 9/27 | 1203 | 0.05 | 0.005 | < 0.01 | 30.8 | 0.17 | 0.22 |
| 10/31 | 0930 | 0.07 | 0.005 | 0.02 | 33.0 | 0.10 | 0.15 |
| 11/22 | 0945 | 0.10 | 0.007 | < 0.05 | 32.2 | 0.18 | 0.18 |
| 12/11 | 1008 | 0.10 | 0.011 | 0.13 | 33.1 | 0.18 | 0.19 |
| Averages | | 0.06 | 0.005 | 0.06 | 31.5 | 0.15 | 0.19 |

Notes: See Sampling Point - 9.0

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SOUTH OYSTER BAY
AREA NO. 6
WATER QUALITY SURVEY RESULTS

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CHEMICAL RESULTS

SAMPLING POINT - 34

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------------|---------|------|--------|
| 3/13 | 1021 | 18,000 | 7.9 | 36 | 3.9 | 11.8 | 4 *** |
| 4/11 | 0958 | 19,200 | 8.0 | 23 | 5.0 | 9.8 | 2 ** |
| 5/16 | 1006 | 17,600 | 8.0 | 26 | 12.0 | 7.8 | 2 ** |
| 6/27 | 1000 | 16,600 | 7.4 | 30 | 18.1 | 6.6 | 1 ** |
| 7/26 | 1125 | 18,200 | 7.9 | 34 | 22.8 | 6.8 | 2 |
| 8/29 | 1055 | 20,000 | 8.0 | 29 | 23.4 | 5.6 | 1 *** |
| 9/27 | 1133 | 18,600 | 7.7 | 36 | 20.0 | 6.2 | 1 |
| 10/31 | 1000 | 18,000 | 8.1 | 32 | 9.0 | 9.6 | 1 ** |
| 11/22 | 1020 | 19,400 | 8.0 | 54 | 6.1 | 9.2 | 1 |
| 12/11 | 1045 | 18,200 | 7.9 | 43 | 5.3 | 9.8 | 2 *** |
| Averages | | 18,400 | 7.9 | 34 | 12.6 | 8.3 | 2 |

Notes: See Sampling Point - 9.0

SOUTH OYSTER BAY
AREA NO. 6
WATER QUALITY SURVEY RESULTS

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CHEMICAL RESULTS

SAMPLING POINT - 3L

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | | Total |
|----------|------|-----------------|-----------------|-----------------|--------------------------------|-------|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | |
| 3/13 | 1021 | 0.05 | 0.008 | 0.10 | 30.2 | 0.11 | 0.19 |
| 4/11 | 0958 | 0.07 | 0.005 | 0.08 | 31.1 | 0.11 | 0.17 |
| 5/16 | 1006 | 0.02 | < 0.001 | < 0.01 | - | 0.07 | 0.12 |
| 6/27 | 1000 | 0.05 | 0.004 | 0.06 | 29.8 | 0.11 | 0.18 |
| 7/26 | 1125 | 0.04 | < 0.001 | < 0.01 | 32.8 | 0.19 | 0.22 |
| 8/29 | 1055 | 0.02 | 0.001 | 0.06 | 32.6 | 0.18 | 0.19 |
| 9/27 | 1133 | 0.05 | < 0.001 | < 0.01 | 32.6 | 0.15 | 0.20 |
| 10/31 | 1000 | 0.02 | < 0.001 | 0.01 | 32.9 | 0.05 | 0.08 |
| 11/22 | 1020 | 0.14 | 0.007 | 0.09 | 32.8 | 0.26 | 0.26 |
| 12/11 | 1045 | 0.02 | 0.013 | 0.19 | 32.6 | 0.20 | 0.23 |
| Averages | | 0.05 | 0.004 | 0.06 | 31.9 | 0.14 | 0.18 |

Notes: See Sampling Point - 9.0

SOUTH OYSTER BAY
 AREA NO. 6
WATER QUALITY SURVEY RESULTS
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CHEMICAL RESULTS

SAMPLING POINT - 42

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------------|------------|------|---------|
| 3/13 | 1045 | 17,200 | 7.8 | 36 | 3.2 | 12.2 | 3 *** |
| 4/11 | 1016 | 18,600 | 8.1 | 35 | 5.0 | 11.4 | 3 ** |
| 5/16 | 1025 | 16,600 | 8.0 | 29 | 13.0 | 8.4 | 2 ** |
| 6/27 | 1010 | 14,600 | 7.8 | 20 | 19.1 | 8.0 | 2 ** |
| 7/26 | 1135 | 18,400 | 7.9 | 24 | 25.2 | 7.6 | 2 |
| 8/29 | 1040 | 19,400 | 8.1 | 24 | 24.8 | 6.0 | < 1 *** |
| 9/27 | 1117 | 18,400 | 7.5 | 28 | 20.4 | 7.4 | 1 |
| 10/31 | 1010 | 17,000 | 8.1 | 29 | 10.1 | 9.2 | 1 *** |
| 11/22 | 1042 | 17,000 | 7.9 | 32 | 4.9 | 9.8 | 1 |
| 12/11 | 1102 | 17,000 | 8.1 | 34 | 5.2 | 9.8 | 2 *** |
| Averages | | 17,400 | 7.9 | 29 | 13.1 | 9.0 | 2 |

Notes: See Sampling Point - 9.0

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AREA NO. 6
WATER QUALITY SURVEY RESULTS

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CHEMICAL RESULTS

SAMPLING POINT - 42

| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ ³⁻ | |
|----------|------|-----------------|-----------------|-----------------|--|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho |
| 3/13 | 1045 | 0.08 | 0.008 | 0.22 | 28.9 | 0.12 |
| 4/11 | 1016 | 0.014 | 0.005 | 0.11 | 30.0 | 0.08 |
| 5/16 | 1025 | 0.06 | 0.003 | 0.06 | - | 0.08 |
| 6/27 | 1010 | 0.17 | 0.012 | 0.07 | 26.3 | 0.10 |
| 7/26 | 1135 | 0.04 | < 0.001 | < 0.01 | 30.8 | 0.23 |
| 8/29 | 1040 | 0.02 | 0.002 | 0.03 | 32.0 | 0.17 |
| 9/27 | 1117 | 0.04 | 0.005 | 0.02 | 31.8 | 0.18 |
| 10/31 | 1010 | 0.07 | 0.006 | 0.04 | 31.3 | 0.08 |
| 11/22 | 1042 | 0.12 | 0.007 | 0.18 | 30.6 | 0.15 |
| 12/11 | 1102 | 0.06 | 0.015 | 0.26 | 31.1 | 0.12 |
| Averages | | 0.07 | 0.006 | 0.10 | 30.3 | 0.13 |
| | | | | | | 0.16 |

Notes: See Sampling Point - 9.0

SOUTH OYSTER BAY
AREA NO. 6
WATER QUALITY SURVEY RESULTS

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CHEMICAL RESULTS

SAMPLING POINT - 19

| Date | Time | Chlorides | pH | Suspended Solids | Temp °C | D.O. | B.O.D. |
|----------|------|-----------|-----|------------------|---------|------|--------|
| 2/9 | 1000 | 14,800 | 7.0 | 56 | 2 | 12.2 | 3 |
| 3/3 | 1150 | 17,600 | 7.8 | 96 | 4 | 12 | 4 *** |
| 4/11 | 1130 | 18,200 | 8.0 | 36 | 5.4 | 10 | 3 ** |
| 5/16 | 1140 | 17,000 | 7.9 | 52 | 12 | 8.2 | 2 ** |
| 6/27 | 0907 | 17,800 | 7.6 | 20 | 17.1 | 6.8 | 1 ** |
| 7/26 | 1235 | 18,200 | 7.6 | 27 | 22.2 | 6.2 | < 1 |
| 8/29 | 1205 | 17,800 | 7.9 | 21 | 20.8 | 6.0 | 1 *** |
| 9/27 | 1230 | 18,400 | 7.9 | 30 | 19.5 | 6.6 | < 1 |
| 10/31 | 0915 | 17,800 | 7.8 | 28 | 10.1 | 8.4 | 1 ** |
| 11/22 | 0919 | 19,000 | 7.8 | 42 | 6.9 | 9.2 | 1 |
| 12/11 | 0935 | 18,400 | 7.7 | 44 | 5.9 | 9.2 | 2 *** |
| Averages | | 17,700 | 7.7 | 41 | 11.1 | 8.6 | 2 |

Notes: See Sampling Point - 9.0

SOUTH OYSTER BAY
 AREA NO. 6
 WATER QUALITY SURVEY RESULTS

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CHEMICAL RESULTS

SAMPLING POINT - 19

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| Date | Time | Nitrogen as N | | | Phosphorous as PO ₄ | | | Total |
|----------|------|-----------------|-----------------|-----------------|--------------------------------|-------|--|-------|
| | | NH ₃ | NO ₂ | NO ₃ | Salinity | Ortho | | |
| 2/9 | 1000 | 0.03 | 0.007 | 0.24 | 32.8 | 0.10 | | 0.20 |
| 3/13 | 1150 | 0.25 | 0.017 | 0.16 | 29.5 | 0.19 | | 0.19 |
| 4/11 | 1130 | 0.04 | 0.003 | 0.12 | 30.8 | 0.14 | | 0.19 |
| 5/16 | 1140 | 0.02 | 0.003 | 0.05 | - | 0.12 | | 0.19 |
| 6/27 | 0907 | 0.05 | 0.005 | 0.02 | 30.7 | 0.20 | | 0.23 |
| 7/26 | 1235 | 0.04 | 0.003 | < 0.01 | 31.4 | 0.20 | | 0.23 |
| 8/29 | 1205 | 0.06 | 0.013 | 0.22 | 32.0 | 0.10 | | 0.11 |
| 9/27 | 1230 | 0.02 | 0.002 | 0.04 | 32.5 | 0.18 | | 0.19 |
| 10/31 | 0915 | 0.07 | 0.006 | 0.02 | 33.0 | 0.36 | | 0.46 |
| 11/22 | 0919 | 0.12 | 0.006 | 0.09 | 33.8 | 0.18 | | 0.19 |
| 12/11 | 0935 | 0.06 | 0.010 | 0.10 | 32.6 | 0.15 | | 0.23 |
| Averages | | 0.07 | 0.007 | 0.10 | 31.9 | 0.17 | | 0.22 |

Notes: See Sampling Point - 9.0.

SOUTH OYSTER BAY
AREA NO. 6
WATER QUALITY SURVEY RESULTS

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BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

Sampling Point No. 2.

Sampling Point No. 4.

Sampling Point No. 9.

| Date | Time | Total | Fecal | Time | Total | Fecal | Time | Total | Fecal |
|-------------|------|-------|-------|------|-------|-------|------|-------|-------|
| 1/17 | - | - | - | 1346 | 9.1 | 3.6 | 1353 | 93 | 43 |
| 2/9 | - | - | - | 1145 | 93 | 3.6 | 1135 | 23 | 23 |
| 3/13 | 1055 | 240 | 21 | 1108 | 240 | 93 | 1115 | 75 | 43 |
| 4/11 | 1028 | 93 | 93 | 1038 | 23 | 23 | 1050 | 43 | 3.6 |
| 5/16 | 1038 | 930 | 93 | 1051 | 930 | 23 | 1103 | 240 | 29 |
| 6/27 | 1030 | 430 | 9.1 | 1045 | 430 | 39 | 1055 | 930 | 93 |
| 7/26 | 1142 | 2400 | 930 | 1153 | 930 | 93 | 1200 | 930 | 93 |
| 8/29 | 1025 | 430 | 93 | 1012 | 93 | 43 | 1005 | 150 | 21 |
| 9/27 | 1105 | 240 | - | 1058 | 39 | - | 1247 | 23 | - |
| 10/31 | 1022 | 240 | 9.1 | 1033 | 150 | 23 | 1042 | 240 | 93 |
| 11/22 | 1100 | 140 | 240 | 1110 | 430 | 93 | 1122 | 430 | 430 |
| 12/11 | 1121 | 240 | 240 | 1144 | 93 | 93 | 1154 | 430 | 43 |
| | - | - | - | 1319 | 240 | - | 1309 | 430 | - |
| Median | | 240.0 | 93.0 | | 150.0 | 39.0 | | 240.0 | 43.0 |
| Log Average | | 298.2 | 72.6 | | 141.4 | 30.3 | | 169.4 | 44.6 |

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AREA NO. 6
WATER QUALITY SURVEY RESULTS

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BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

Sampling Point No. 11.

Sampling Point No. 13.1 Sampling Point No. 15.

| Date | Time | Total | Fecal | Time | Total | Fecal | Time | Total | Fecal |
|-------------|------|-------|-------|------|-------|-------|------|-------|-------|
| 1/17 | 1358 | 23 | 23 | 1305 | 2400 | 930 | 1403 | 43 | 23 |
| 2/9 | 1125 | 150 | 3.6 | 1200 | 43 | 9.1 | 1120 | 93 | 6.2 |
| 3/13 | 1120 | 93 | 23 | 1130 | 240 | 43 | 1145 | 43 | 15 |
| 4/11 | 1055 | 43 | 15 | 1105 | 93 | 23 | 1120 | 43 | 9.1 |
| 5/16 | 1106 | 240 | 23 | 1120 | 930 | 43 | 1130 | 75 | 39 |
| 6/27 | 1100 | 930 | 43 | 1120 | 240 | 23 | 1143 | 93 | 43 |
| 7/26 | 1206 | 240 | 43 | 1217 | 1500 | 240 | 1222 | 930 | 75 |
| 8/29 | 0955 | 93 | 93 | 0945 | 23 | 23 | 1215 | 23 | 23 |
| 9/27 | 1245 | 23 | - | 1330 | 75 | - | 1240 | 9.1 | - |
| 10/31 | 1048 | 240 | 93 | 1110 | 240 | 93 | 1122 | 240 | 43 |
| 11/22 | 1127 | 430 | 430 | 1145 | 240 | 240 | 1207 | 75 | 75 |
| 12/11 | 1202 | 930 | 150 | 1220 | 240 | 43 | 1240 | 93 | 23 |
| | 1300 | 240 | - | 1339 | 430 | - | 1250 | 240 | - |
| Median | | 240.0 | 43.0 | | 240.0 | 43.0 | | 75.0 | 23.0 |
| Log Average | | 157.4 | 41.8 | | 238.1 | 61.0 | | 78.1 | 26.3 |

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BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

Sampling Point No. 19.

| Date | Time | Total | Fecal | Time | Total | Fecal | Time | Total | Fecal |
|-------------|------|-------|-------|------|-------|-------|------|-------|-------|
| 1/17 | 1108 | 93 | 23 | 1102 | 240 | 43 | 1420 | 23 | 9.1 |
| 2/9 | 1000 | 39 | 9.1 | 1010 | 9.1 | < 3.0 | 1015 | 9.1 | < 3.0 |
| 3/13 | 1150 | 240 | 9.1 | 0926 | 9.1 | < 3.0 | 0931 | < 3.0 | < 3.0 |
| 4/11 | 1130 | 93 | 15 | 0900 | 93 | < 3.0 | 0905 | 23 | < 3.0 |
| 5/16 | 1140 | 430 | 430 | 0913 | 93 | 21 | 0919 | 23 | 3.6 |
| 6/27 | 0907 | 23 | 9.1 | 0913 | 240 | 93 | 0916 | 43 | 15 |
| 7/26 | - | - | - | 1040 | 23 | 23 | 1044 | 23 | 23 |
| 8/29 | 1205 | 23 | 9.1 | 1153 | 3.6 | < 3.0 | 1148 | 23 | 23 |
| 9/27 | 1230 | 23 | - | 1225 | 3.6 | - | 1217 | 3.6 | - |
| 10/31 | 0915 | 93 | 43 | 0920 | 93 | 23 | 0922 | 43 | 23 |
| 11/22 | 0919 | 93 | 93 | 0925 | 3.6 | < 3.0 | 0931 | 150 | 43 |
| 12/11 | 0935 | 93 | 43 | 0945 | 43 | 43 | 0950 | 93 | 43 |
| | 1245 | 23 | - | - | - | - | - | - | - |
| Median | | 93.0 | 19.0 | | 33.0 | 21.0 | | 23.0 | 15.0 |
| Log Average | | 66.8 | 26.6 | | 27.4 | 11.5 | | 22.4 | 11.0 |

Sampling Point No. 20.

| Date | Time | Total | Fecal | Time | Total | Fecal | Time | Total | Fecal |
|-------------|------|-------|-------|------|-------|-------|------|-------|-------|
| 1/17 | 1108 | 93 | 23 | 1102 | 240 | 43 | 1420 | 23 | 9.1 |
| 2/9 | 1000 | 39 | 9.1 | 1010 | 9.1 | < 3.0 | 1015 | 9.1 | < 3.0 |
| 3/13 | 1150 | 240 | 9.1 | 0926 | 9.1 | < 3.0 | 0931 | < 3.0 | < 3.0 |
| 4/11 | 1130 | 93 | 15 | 0900 | 93 | < 3.0 | 0905 | 23 | < 3.0 |
| 5/16 | 1140 | 430 | 430 | 0913 | 93 | 21 | 0919 | 23 | 3.6 |
| 6/27 | 0907 | 23 | 9.1 | 0913 | 240 | 93 | 0916 | 43 | 15 |
| 7/26 | - | - | - | 1040 | 23 | 23 | 1044 | 23 | 23 |
| 8/29 | 1205 | 23 | 9.1 | 1153 | 3.6 | < 3.0 | 1148 | 23 | 23 |
| 9/27 | 1230 | 23 | - | 1225 | 3.6 | - | 1217 | 3.6 | - |
| 10/31 | 0915 | 93 | 43 | 0920 | 93 | 23 | 0922 | 43 | 23 |
| 11/22 | 0919 | 93 | 93 | 0925 | 3.6 | < 3.0 | 0931 | 150 | 43 |
| 12/11 | 0935 | 93 | 43 | 0945 | 43 | 43 | 0950 | 93 | 43 |
| | 1245 | 23 | - | - | - | - | - | - | - |
| Median | | 93.0 | 19.0 | | 33.0 | 21.0 | | 23.0 | 15.0 |
| Log Average | | 66.8 | 26.6 | | 27.4 | 11.5 | | 22.4 | 11.0 |

Sampling Point No. 22.

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BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

| Date | Time | Sampling Point No. 23. | | | Sampling Point No. 24. | | | Sampling Point No. 25. | | |
|---------|------|------------------------|-------|------|------------------------|-------|------|------------------------|-------|-------|
| | | Total | Fecal | Time | Total | Fecal | Time | Total | Fecal | Fecal |
| 1/17 | 1426 | 23 | 9.1 | 1251 | 93 | 93 | 1340 | 9.1 | 9.1 | 3.6 |
| 2/9 | 1040 | 21 | 3.6 | 1045 | 15 | < 3.0 | 1020 | 43 | 43 | < 3.0 |
| 3/13 | 0950 | 9.1 | < 3.0 | 0953 | 9.1 | 9.1 | 0933 | 43 | 43 | < 3.0 |
| 4/11 | 0927 | 15 | < 3.0 | 0933 | 43 | < 3.0 | 0908 | < 3.0 | 43 | < 3.0 |
| 5/16 | 0938 | 23 | 9.1 | 0945 | 23 | 3.6 | 0921 | 23 | 23 | 9.1 |
| 6/27 | 0935 | 93 | 43 | 0937 | 43 | 23 | 0920 | 23 | 23 | 3.6 |
| 7/26 | 1105 | 23 | 9.1 | 1109 | 23 | 9.1 | 1047 | 43 | 43 | 15 |
| 8/29 | 1120 | 93 | 43 | 1115 | 43 | 43 | 1145 | 93 | 93 | 21 |
| 9/27 | 1156 | 11 | - | 1150 | 23 | - | 1213 | 23 | 23 | - |
| 10/31 | 0935 | 43 | 9.1 | 0940 | 9.1 | 9.1 | 0924 | 23 | 23 | 9.1 |
| 11/22 | 0958 | 43 | 43 | 1002 | 43 | 43 | 0935 | 43 | 43 | 23 |
| 12/11 | 1015 | 93 | 15 | 1020 | 93 | 43 | 0956 | 9.1 | 9.1 | 9.1 |
| Median | | 10.9 | 9.1 | | 33.0 | 9.1 | | 23.0 | 23.0 | 9.1 |
| Average | | 30.2 | 23.0 | | 29.6 | 14.0 | | 23.0 | 23.0 | 7.0 |

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BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

| Date | Time | Sampling Point No. 26 | | | Sampling Point No. 28 | | | Sampling Point No. 30 | | |
|-------------|------|-----------------------|-------|------|-----------------------|-------|------|-----------------------|-------|------|
| | | Total | Fecal | Time | Total | Fecal | Time | Total | Fecal | Time |
| 1/17 | 1437 | 7.3 | < 3.0 | 1435 | 9.1 | 9.1 | 1430 | 23 | 23 | 23 |
| 2/9 | 1025 | 23 | 3.6 | 1030 | 23 | 3.6 | 1035 | 7.3 | 3.0 | 3.0 |
| 3/13 | 0935 | 3.6 | < 3.0 | 0943 | 15 | < 3.0 | 0947 | 15 | 3.6 | 3.6 |
| 4/11 | 0911 | < 3.0 | - | 0920 | 3.6 | < 3.0 | 0923 | 4.3 | 3.6 | 3.6 |
| 5/16 | 0924 | 23 | 9.1 | 0934 | 9.1 | 9.1 | 0935 | 430 | 20 | 20 |
| 6/27 | 0923 | 43 | 43 | 0930 | 23 | 23 | 0932 | 43 | 23 | 23 |
| 7/26 | 1050 | 43 | 43 | 1057 | 93 | 23 | 1101 | 43 | 3.6 | 3.6 |
| 8/29 | 1137 | 9.1 | 3.6 | 1133 | 9.1 | 9.1 | 1125 | 9.1 | 9.1 | 9.1 |
| 9/27 | 1210 | 9.1 | - | 1203 | 23 | - | 1200 | 9.1 | - | - |
| 10/31 | 0926 | 9.1 | < 3.0 | 0930 | 240 | 9.1 | 0932 | 93 | 23 | 23 |
| 11/22 | 0938 | 93 | 93 | 0945 | 240 | 93 | 0950 | 93 | 93 | 93 |
| 12/11 | 1000 | 43 | 23 | 1008 | 240 | 29 | 1011 | ~ 9.1 | 3.6 | 3.6 |
| Median | | 16.0 | 6.3 | | 23.0 | 9.1 | | 33.0 | 9.1 | |
| Log Average | | 15.7 | 10.2 | | 30.5 | 11.1 | | 30.1 | 10.0 | |

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BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

Sampling Point No. 32

| Date | Time | Total | Fecal | Sampling Point No. 34 | Time | Total | Fecal |
|-------------|------|-------|-------|-----------------------|------|-------|-------|
| 1/17 | 1259 | 9.1 | 9.1 | | 1308 | 43 | 15 |
| 2/9 | 1055 | 15 | < 3.0 | | - | - | - |
| 3/13 | 1002 | 9.1 | 9.1 | | 1021 | 3.6 | 3.6 |
| 4/11 | 0943 | 23 | 3.6 | | 0958 | 23 | 3.6 |
| 5/16 | 0952 | 23 | 23 | | 1006 | 43 | 15 |
| 6/27 | 0947 | 93 | 93 | | 1000 | 43 | 43 |
| 7/26 | 1115 | 43 | 3.6 | | 1125 | 23 | 23 |
| 8/29 | 1106 | 23 | 9.1 | | 1055 | 9.1 | < 3.0 |
| 9/27 | 1145 | 9.1 | - | | 1133 | 15 | - |
| 10/31 | 0948 | 93 | 43 | | 1000 | 240 | 240 |
| 11/22 | 1010 | 43 | 43 | | 1020 | 93 | 93 |
| 12/11 | 1030 | 39 | 39 | | 1045 | 23 | 3.6 |
| Median | | 23.0 | 9.1 | | | 23.0 | 15.0 |
| Log Average | | 25.8 | 14.1 | | | 28.6 | 15.3 |

SOUTH OYSTER BAY
AREA NO. 6
WATER QUALITY SURVEY RESULTS

1972

BACTERIOLOGICAL RESULTS - COLIFORM - MPN/100.

| Date | Sampling Point No. 36 | | | Sampling Point No. 42 | | |
|-------------|-----------------------|-------|-------|-----------------------|-------|-------|
| | Time | Total | Fecal | Time | Total | Fecal |
| 1/17 | - | 93 | 93 | 1323 | 240 | 93 |
| 3/13 | 1048 | 93 | 93 | 1045 | 43 | 23 |
| 4/11 | 1020 | 43 | 9.1 | 1016 | 7.3 | < 3.0 |
| 5/16 | 1030 | 930 | 150 | 1025 | 240 | 23 |
| 6/27 | 1020 | 240 | 43 | 1010 | 3.6 | < 3.0 |
| 7/26 | 1138 | 930 | 930 | 1135 | 7.3 | 7.3 |
| 8/29 | 1035 | 150 | 43 | 1040 | 43 | 23 |
| 9/27 | 1111 | 43 | - | 1117 | 9.1 | - |
| 10/31 | 1015 | 240 | 9.1 | 1010 | 93 | 15 |
| 11/22 | 1050 | 430 | 240 | 1042 | 430 | 430 |
| 12/11 | 1109 | 430 | 43 | 1102 | 240 | 93 |
| Median | | 240.0 | 68.0 | | 43.0 | 23.0 |
| Log Average | | 201.4 | 67.3 | | 45.6 | 23.2 |

