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New Water Treatment System at the Freshwater Institute: Water Quality Data for One Year of Operation (1985/86)

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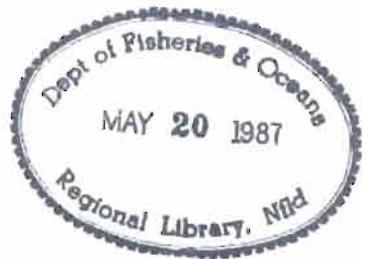
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Canadian Data Report of
Fisheries and Aquatic Sciences 638

April 1987



NEW WATER TREATMENT SYSTEM AT THE
FRESHWATER INSTITUTE:
WATER QUALITY DATA FOR ONE YEAR
OF OPERATION (1985/86)

by

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ABSTRACT

Wagemann, R.E. Scherer, and J. Czwarno. 1987 New water treatment system at the Freshwater Institute: water quality data for one year of operation (1985/86). Can. Data Rep. Fish. Aquat. Sci. 638: iv + 114 p.

A new water system was installed at the Freshwater Institute in 1985 to make Winnipeg City tap water suitable for holding and testing of aquatic organisms. Twenty-six chemical parameters were monitored at three different points in the new system on a weekly basis over the first year of operation. Chlorine was monitored daily at four different points in the system. The numerical water quality data are provided in this report, together with sampling schedules and operational milestones.

Key words: water purification; dechlorination; trace elements; detoxification; bioassay.

RÉSUMÉ

Wagemann, R., E. Scherer, and J. Czwarno. 1987. New water treatment system at the Freshwater Institute: water quality data for one year of operation (1985/86). Can. Data Rep. Fish. Aquat. Sci. 638: iv + 114 p.

Un nouveau système de traitement de l'eau a été installé à l'Institut des eaux douces en 1985 afin de rendre l'eau du robinet de la ville de Winnipeg utilisable pour procéder à des tests sur des organismes aquatiques et pour les garder. Vingt-six paramètres chimiques ont été contrôlés chaque semaine au cours de la première année d'utilisation à trois points différents du nouveau système. On a contrôlé la teneur en chlore chaque jour à quatre points différents dans le système. Les données numériques de la qualité de l'eau sont présentées dans le rapport, tout comme les calendriers d'échantillonnage et les dates repères opérationnelles concernant le système.

Mots-clés: purification de l'eau; déchloration; oligo-éléments; détoxication; bio-essai.

INTRODUCTION

A substantially upgraded, redesigned water treatment system was put into service at the Freshwater Institute (FWI) in the fall of 1985 for the removal of chlorine by physical and photochemical processes and for improving generally the water quality. The major components of this system and their functional connections are outlined in Fig. 1. Operational milestones in the implementation of the system, and the water sampling startup dates and discontinuities are given in Table 1. The 26 chemical and physical parameters monitored on a weekly basis during the first year of operation of the system are identified in Table 2. Numerical data for these 26 parameters are given in Appendix 1. Numerical data for total residual chlorine, monitored twice daily at various points (stations) in the system, are given in Appendix 2.

The performance of the system was evaluated in another report (Wagemann et al. 1987), based on data presented here.

SAMPLING AND CHEMICAL ANALYSES

Samples were collected for chemical analyses once a week (Thursday p.m.), from three different points in the system (Stations 1,4,9, Fig. 1). For total residual chlorine analysis, samples were also collected daily (Monday to Friday a.m. and p.m.), and additionally from Station 3.

Total residual chlorine was measured spectrophotometrically (10 cm path length at Station 9, and 1 cm path length at Station 1) by the ortho-tolidine method (APHA 1971). The minimum reliably-measured concentration we estimate to be $\mu\text{g/L}$, while the detection limit was somewhat less than this. Five chromate-dicromate standards, in the concentration range 1-25 $\mu\text{g/L}$ were used to calibrate the instrument, and phosphate buffer itself was used as the blank. A typical calibration graph is shown in Fig. 2.

For trace metal analysis, samples were collected in 500 mL polyethylene bottles, cleaned by soaking overnight in 10% nitric acid followed by three rinses with deionized water. New bottles were soaked overnight in a detergent solution prior to acid washing. Trace metals were measured by flameless atomic absorption (graphite furnace) on unfiltered samples, using a Varian 975 AA with GTA-95 furnace. Diluted Fisher AA standards were used for instrument calibration.

The methods given in the FWI manual (Stainton et al. 1977) were used for the determination of all other constituents listed.

ACKNOWLEDGMENTS

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Mrs. K. Matthisen and Messrs. R. Schade, B. Hauser, R. McNicol, G. Regehr, D. Murray, and A. Neamtan for analytical work, Ms. D. Turner for tabulating the data and producing computer-generated graphs. Useful suggestions leading to improvements in the data report were made by Ms. C.R. Ranson.

REFERENCES

- STAINTON, M.P., M.J. CAPEL, and F.A.J. ARMSTRONG. 1977. The chemical analysis of fresh water. 2nd ed. Can. Fish. Mar. Serv. Misc. Spec. Publ. 25: vi + 17 p.
- WAGEMANN, R., E. SCHERER, and J. CZWARNO. 1987. New water treatment system at the Freshwater Institute: description and performance evaluation after one year of operation (1985/86). Can. Manuscr. Rep. Fish. Aquat. Sci. 1919: iv + 31 p.

Table 1. Operational milestones and sampling schedule.

System Startup:

- August 12/85 - Flushing of distribution systems (taps in laboratories opened) under increased pressure. Only "Mixed Media" filters and "Ozonators" were in the system. Stations #1, #4, and #9 (see Fig. 1) sampled approximately daily, and analyzed for suspended and total dissolved organic carbon.
- August 19/85 - "UV" units and "Product Water Filters (10° C) were switched into the system.
- August 20/85 - "Activated Carbon" filters were switched into the system.
- August 21/85 - Gas balancing towers (10° C) switched into system.
- August 22/85 - Full water quality monitoring begun. Stations #1, #4, and #9, sampled once a week (Thursday a.m.) including residual chlorine.
- September 9/85 - Started sampling at station #9 twice daily, morning and afternoon for residual chlorine.
- September 19/85 - Carbon filters backwashed for first time.
- September 26/85 - System tested for increased flows by opening 3 one-and-a-half inch valves in the Wet Lab. Flow increased from approximately 350 L/min. to 700 L/min.
- October 1-2/85 - 11:00 a.m. to 2:00 p.m. maximum flow rate, 660 L/min. At all other times, flow rate was approximately 360 L/min.
- November 6/85 - The 5° C system became operational.
- November 26/85 - Ozone generators switched off.
- December 19/85 - Stopped sampling and analyzing for Cl^- , SO_4^{--} , Na^+ , K^+ , Ca^{++} , and Mg^{++} .
- February(end)/85- Ozone generators put back into service.
- April 30/86 - Ozone generators became inoperative at approximately 1800 hours.
- May 1/86 - 5° C system started and all water channelled through 5° C system instead of 10° C as an experimental test to observe the back-up system.
- May 2/86 - 10° C system back in service. Ozone generators restarted.
- May 2 to September/86 - System continued in normal operation.
-

Table 2. Water quality parameters monitored.

| <u>Anions</u> | <u>Cations</u> | <u>Others</u> |
|---------------|----------------|------------------------|
| Nitrate | Sodium | Suspended C and N |
| Nitrite | Potassium | Suspended P |
| Ammonia | Calcium | Total Suspended Solids |
| Chloride | Magnesium | Total Suspended Iron |
| Sulphate | Iron | Conductivity |
| TDP | Manganese | pH |
| TDN | Aluminium | CO ₂ |
| DIC | Copper | Chlorine |
| DOC | Zinc | |

Additional measurements (e.g. other trace metals, organochlorines, hydrocarbons) may be performed in the future on a less frequent basis, or when requested by research scientists.

FWI WATER TREATMENT SYSTEM (1985) (SAMPLING STATIONS)

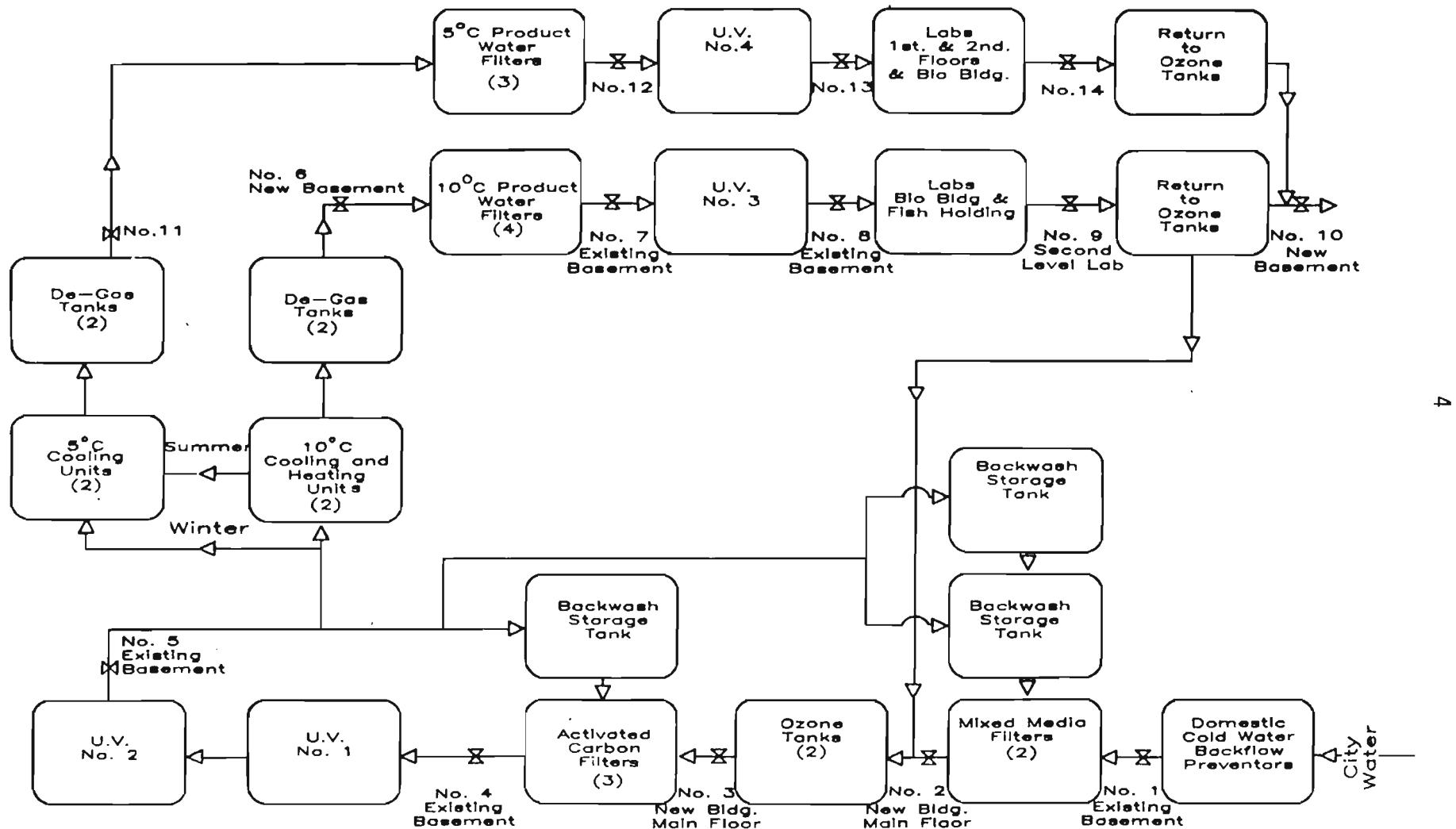


Fig. 1. Schematic of FWI Water Treatment System. Water samples were taken for analysis at stations 1, 3, 4 and 9. Sampling stations are indicated by numbers between component blocks.

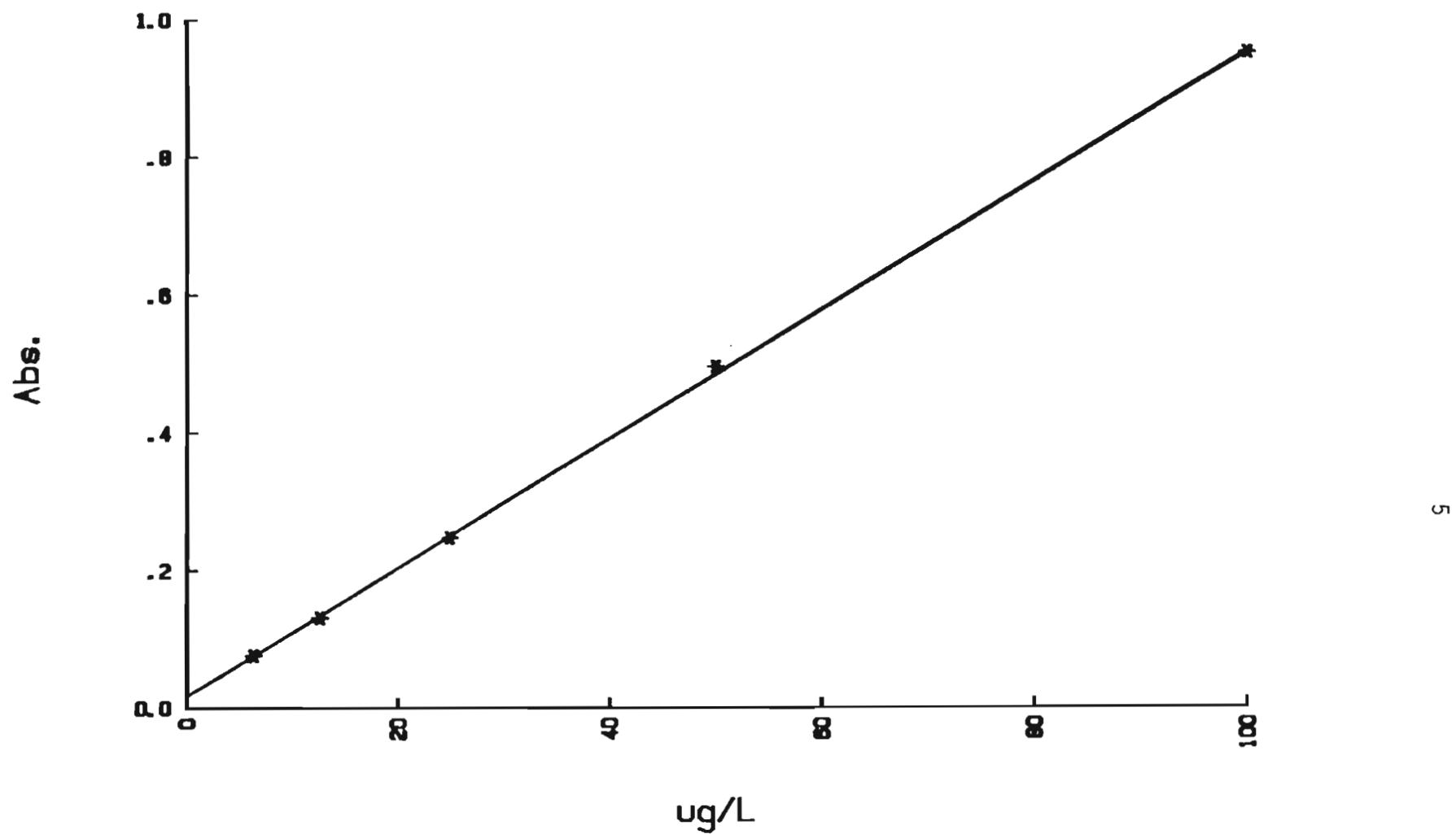


Fig. 2. Typical calibration graph for chlorine determinations using chromate-dichromate standards and 10 cm path length cell.

Appendix 1. Numerical data for 26 parameters monitored weekly.

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|------------|--------------------|-------|-----------|-----------|-----------|
| Aug.22/85 | Nitrate | ug/L | 5 | 8 | 2 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 30 | 30 | 30 |
| " | Chloride | mg/L | 5.5 | 5.0 | 5.0 |
| " | Sulphate | mg/L | 3.4 | 1.0 | 1.0 |
| " | TDN | ug/L | 420 | 120 | 110 |
| " | TDP | ug/L | 21 | 14 | 13 |
| " | DIC | uM/L | 1300 | 1350 | 1300 |
| " | DOC | uM/L | 590 | 120 | 100 |
| Date | Cations | | | | |
| Aug. 22/85 | Sodium | mg/L | 1.92 | 1.78 | 1.75 |
| " | Potassium | mg/L | 1.16 | 1.18 | 1.18 |
| " | Calcium | mg/L | 20.9 | 20.0 | 19.3 |
| " | Magnesium | mg/L | 5.85 | 5.79 | 5.79 |
| " | Manganese | ug/L | 24 | 4.5 | 4.7 |
| " | Iron | ug/L | 57 | 26 | 26 |
| " | Aluminium | ug/L | 5.6 | 3.2 | 3.2 |
| " | Copper | ug/L | 1.11 | 0.64 | 0.28 |
| " | Zinc | ug/L | 0.3 | 0.2 | 0.1 |
| Date | Other Constituents | | | | |
| Aug.22/85 | Susp.C | ug/L | 440 | 180 | 160 |
| " | Susp.N | ug/L | 66 | 22 | 22 |
| " | Susp P | ug/L | 8 | 3 | 3 |
| " | TSS | mg/L | 1 | <1 | <1 |
| " | Susp.Fe | ug/L | 46 | 13 | 11 |
| " | CO2 | uM/L | 28.0 | 4.0 | 3.0 |
| " | pH | | 7.98 | 8.81 | 8.85 |
| " | Conduct. | uS/cm | 158 | 154 | 152 |
| " | Chlorine | ug/L | 616.4 | 7.0 | <1.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|------------|----------|------|-----------|-----------|-----------|
| Aug. 29/85 | Nitrate | ug/L | 4 | 5 | 5 |
| " | Nitrite | ug/L | <1 | 1 | 1 |
| " | Ammonia | ug/L | <10 | <10 | <10 |
| " | Chloride | mg/L | 5.5 | 5.4 | 5.7 |
| " | Sulphate | mg/L | 3.3 | 2.8 | 2.9 |
| " | TDN | ug/L | 440 | 160 | 130 |
| " | TDP | ug/L | 20 | 14 | 12 |
| " | DIC | uM/L | 1300 | 1300 | 1300 |
| " | DOC | uM/L | 630 | 120 | 100 |

| Date | Cations | | | | |
|------------|-----------|------|------|------|------|
| Aug. 29/85 | Sodium | mg/L | 1.80 | 1.83 | 1.80 |
| " | Potassium | mg/L | 1.30 | 1.26 | 1.28 |
| " | Calcium | mg/L | 20.0 | 19.8 | 20.0 |
| " | Magnesium | mg/L | 5.11 | 5.04 | 5.11 |
| " | Manganese | ug/L | 34 | 4.3 | 4.0 |
| " | Iron | ug/L | 66 | 30 | 30 |
| " | Aluminium | ug/L | 10 | 2.3 | 4.7 |
| " | Copper | ug/L | 1.16 | 0.57 | 0.40 |
| " | Zinc | ug/L | 0.4 | 0.5 | 0.2 |

| Date | Other Constituents | | | | |
|------------|--------------------|-------|------|-------|------|
| Aug. 29/85 | Susp.C | ug/L | 540 | 290 | 220 |
| " | Susp.N | ug/L | 74 | 47 | 34 |
| " | Susp.P | ug/L | 10 | 8 | 4 |
| " | TSS | mg/L | 2 | 1 | 1 |
| " | Susp.Fe | ug/L | 55 | 13 | 21 |
| " | CO ₂ | uM/L | 79.0 | 13 | 15 |
| " | pH | | 7.98 | 8.29 | 8.23 |
| " | Conduct. | uS/cm | 156 | 158 | 158 |
| " | Chlorine | ug/L | 533 | 12.10 | <1.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|------------|----------|------|-----------|-----------|-----------|
| Sept. 5/85 | Nitrate | ug/L | 5 | 5 | 1 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 10 | 10 | 20 |
| " | Chloride | mg/L | 5.5 | 5.4 | 5.4 |
| " | Sulphate | mg/L | 3.3 | 3.3 | 7.8 |
| " | TDN | ug/L | 430 | 150 | 130 |
| " | TDP | ug/L | 15 | 11 | 10 |
| " | DIC | uM/L | 1210 | 1250 | 1240 |
| " | DOC | uM/L | 630 | 120 | 140 |

| Date | Cations | | | |
|------------|-----------|------|------|------|
| Sept. 5/85 | Sodium | mg/L | 1.71 | 1.72 |
| " | Potassium | mg/L | 1.26 | 1.28 |
| " | Calcium | mg/L | 20.5 | 20.5 |
| " | Magnesium | mg/L | 5.31 | 5.15 |
| " | Manganese | ug/L | 38 | 4.7 |
| " | Iron | ug/L | 71 | 22 |
| " | Aluminium | ug/L | 10 | 3.4 |
| " | Copper | ug/L | 1.22 | 0.34 |
| " | Zinc | ug/L | 0.4 | 0.1 |

| Date | Other Constituents | | | |
|------------|--------------------|-------|-------|------|
| Sept. 5/85 | Susp.C | ug/L | 530 | 180 |
| " | Susp.N | ug/L | 78 | 25 |
| " | Susp.P | ug/L | 9 | 3 |
| " | TSS | mg/L | 2 | <1 |
| " | Susp.Fe | ug/L | 59 | 11 |
| " | CO2 | uM/L | 20.0 | 13.0 |
| " | pH | | 8.11 | 8.28 |
| " | Conduct. | uS/cm | 158 | 163 |
| " | Chlorine | ug/L | 474.1 | 13.4 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|------------|----------|------|-----------|-----------|-----------|
| Sept.12/85 | Nitrate | ug/L | 2 | 2 | 2 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 20 | 20 | 40 |
| " | Chloride | mg/L | 5.9 | 4.7 | 5.6 |
| " | Sulphate | mg/L | 3.3 | 3.9 | 3.9 |
| " | TDN | ug/L | 440 | 170 | 170 |
| " | TDP | ug/L | 19 | 14 | 13 |
| " | DIC | uM/L | 1400 | 1450 | 1400 |
| " | DOC | uM/L | 620 | 190 | 200 |

| Date | Cations | | | | |
|------------|-----------|------|------|------|------|
| Sept.12/85 | Sodium | mg/L | 1.81 | 1.83 | 1.81 |
| " | Potassium | mg/L | 1.17 | 1.17 | 1.17 |
| " | Calcium | mg/L | 20.2 | 19.7 | 19.7 |
| " | Magnesium | mg/L | 5.51 | 5.48 | 5.42 |
| " | Manganese | ug/L | 34 | 1.6 | 1.1 |
| " | Iron | ug/L | 67 | 24 | 24 |
| " | Aluminium | ug/L | 7.4 | 1.2 | 1.0 |
| " | Copper | ug/L | 1.15 | 0.34 | 0.22 |
| " | Zinc | ug/L | 0.1 | <0.1 | <0.1 |

| Date | Other Constituents | | | | |
|------------|--------------------|-------|-------|------|------|
| Sept.12/85 | Susp.C | ug/L | 630 | 190 | 180 |
| " | Susp.N | ug/L | 92 | 26 | 24 |
| " | Susp.P | ug/L | 10 | 3 | 3 |
| " | TSS | mg/L | 2 | <1 | <1 |
| " | Susp.Fe | ug/L | 52 | 10 | 10 |
| " | CO ₂ | uM/L | 41.0 | 40.0 | 22.0 |
| " | pH | | 7.75 | 7.77 | 8.04 |
| " | Conduct. | uS/cm | 160 | 162 | 162 |
| " | Chlorine | ug/L | 489.3 | 6.8 | 1.8 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-------------|----------|------|-----------|-----------|-----------|
| Sept. 19/85 | Nitrate | ug/L | 6 | 28 | 23 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 50 | 830 | 50 |
| " | Chloride | mg/L | 5.6 | 7.9 | 5.9 |
| " | Sulphate | mg/L | 3.5 | 10.7 | 3.7 |
| " | TDN | ug/L | 430 | 1040 | 300 |
| " | TDP | ug/L | 16 | 16 | 14 |
| " | DIC | uM/L | 1350 | 1750 | 1350 |
| " | DOC | uM/L | 560 | 230 | 330 |

| Date | Cations | | | | |
|-------------|-----------|------|------|------|------|
| Sept. 19/85 | Sodium | mg/L | 1.81 | 4.15 | 1.85 |
| " | Potassium | mg/L | 1.12 | 1.28 | 1.22 |
| " | Calcium | mg/L | 19.9 | 25.7 | 20.4 |
| " | Magnesium | mg/L | 5.48 | 7.36 | 5.55 |
| " | Manganese | ug/L | 16 | 1.3 | 4.1 |
| " | Iron | ug/L | 47 | 44 | 24 |
| " | Aluminium | ug/L | 8.4 | 1.0 | 1.3 |
| " | Copper | ug/L | 0.8 | 0.4 | 0.3 |
| " | Zinc | ug/L | <0.1 | 0.1 | <0.1 |

| Date | Other Constituents | | | | |
|-------------|--------------------|-------|-------|------|------|
| Sept. 19/85 | Susp.C | ug/L | 444 | 240 | 240 |
| " | Susp.N | ug/L | 67 | 34 | 31 |
| " | Susp.P | ug/L | 8 | 4 | 11 |
| " | TSS | mg/L | 1 | <1 | <1 |
| " | Susp.Fe | ug/L | 35 | 12 | 47 |
| " | CO ₂ | uM/L | 28.0 | 34.0 | 35.0 |
| " | pH | | 8.01 | 8.06 | 7.91 |
| " | Conduct. | uS/cm | 162 | 206 | 164 |
| " | Chlorine | ug/L | 310.4 | 8.8 | 34.7 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|------------|----------|------|-----------|-----------|-----------|
| Sept.27/85 | Nitrate | ug/L | 10 | 4 | 5 |
| " | Nitrite | ug/L | <1 | 2 | 2 |
| " | Ammonia | ug/L | 10 | 10 | 20 |
| " | Chloride | mg/L | 4.1 | 5.0 | 4.9 |
| " | Sulphate | mg/L | 3.5 | 3.7 | 3.7 |
| " | TDN | ug/L | 430 | 210 | 210 |
| " | TDP | ug/L | 15 | 11 | 12 |
| " | DIC | uM/L | 1350 | 1450 | 1400 |
| " | DOC | uM/L | 590 | 290 | 250 |

| Date | Cations | | | |
|------------|-----------|------|------|------|
| Sept.27/85 | Sodium | mg/L | 2.03 | 1.87 |
| " | Potassium | mg/L | 1.43 | 1.37 |
| " | Calcium | mg/L | 21.9 | 21.4 |
| " | Magnesium | mg/L | 1.43 | 1.37 |
| " | Manganese | ug/L | 15 | 1.2 |
| " | Iron | ug/L | 40 | 22 |
| " | Aluminium | ug/L | 6.3 | 1.0 |
| " | Copper | ug/L | 0.9 | 0.5 |
| " | Zinc | ug/L | <0.1 | <0.1 |

| Date | Other Constituents | | | |
|------------|--------------------|-------|-------|------|
| Sept.27/85 | Susp.C | ug/L | 440 | 190 |
| " | Susp.N | ug/L | 71 | 26 |
| " | Susp.P | ug/L | 8 | 3 |
| " | TSS | mg/L | 1 | <1 |
| " | Susp.Fe | ug/L | 35 | 9 |
| " | CO2 | uM/L | 27.0 | 23.0 |
| " | pH | | 8.02 | 8.08 |
| " | Conduct. | uS/cm | 155 | 156 |
| " | Chlorine | ug/L | 340.9 | 9.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|----------|----------|------|-----------|-----------|-----------|
| Oct.2/85 | Nitrate | ug/L | 10 | 14 | 13 |
| " | Nitrite | ug/L | <1 | 4 | 5 |
| " | Ammonia | ug/L | 10 | 10 | 10 |
| " | Chloride | mg/L | 4.6 | 4.7 | 4.7 |
| " | Sulphate | mg/L | 3.6 | 3.8 | 3.8 |
| " | TDN | ug/L | 470 | 310 | 300 |
| " | TDP | ug/L | 13 | 10 | 10 |
| " | DIC | uM/L | 1250 | 1290 | 1280 |
| " | DOC | uM/L | 610 | 380 | 370 |

| Date | Cations | | | |
|----------|-----------|------|------|------|
| Oct.2/85 | Sodium | mg/L | 1.82 | 1.87 |
| " | Potassium | mg/L | 1.31 | 1.35 |
| " | Calcium | mg/L | 21.6 | 21.6 |
| " | Magnesium | mg/L | 5.83 | 5.79 |
| " | Manganese | ug/L | 12 | 2.6 |
| " | Iron | ug/L | 38 | 16 |
| " | Aluminium | ug/L | 8.1 | 2.9 |
| " | Copper | ug/L | 0.8 | 0.3 |
| " | Zinc | ug/L | <0.1 | <0.1 |

| Date | Other Constituents | | | |
|----------|--------------------|-------|-------|------|
| Oct.2/85 | Susp.C | ug/L | 500 | 220 |
| " | Susp.N | ug/L | 79 | 31 |
| " | Susp.P | ug/L | 8 | 3 |
| " | TSS | mg/L | 1 | 1 |
| " | Susp.Fe | ug/L | 35 | 10 |
| " | CO2 | uM/L | 23.0 | 26.0 |
| " | pH | | 8.06 | 8.02 |
| " | Conduct. | uS/cm | 152 | 154 |
| " | Chlorine | ug/L | 484.0 | 20.1 |
| | | | | 154 |
| | | | | 6.2 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|----------|----------|------|-----------|-----------|-----------|
| Oct.3/85 | Nitrate | ug/L | 10 | 13 | 13 |
| " | Nitrite | ug/L | <1 | 2 | 2 |
| " | Ammonia | ug/L | 10 | 10 | 20 |
| " | Chloride | mg/L | 4.6 | 4.4 | 5.0 |
| " | Sulphate | mg/L | 3.6 | 3.9 | 3.9 |
| " | TDN | ug/L | 460 | 260 | 260 |
| " | TDP | ug/L | 14 | 10 | 10 |
| " | DIC | uM/L | 1260 | 1270 | 1260 |
| " | DOC | uM/L | 680 | 360 | 420 |

| Date | Cations | | | | |
|----------|-----------|------|------|------|------|
| Oct.3/85 | Sodium | mg/L | 1.80 | 1.86 | 1.82 |
| " | Potassium | mg/L | 1.35 | 1.29 | 1.31 |
| " | Calcium | mg/L | 21.4 | 21.2 | 21.4 |
| " | Magnesium | mg/L | 5.75 | 5.75 | 5.79 |
| " | Manganese | ug/L | 10 | 2.4 | 2.9 |
| " | Iron | ug/L | 34 | 16 | 16 |
| " | Aluminium | ug/L | 7.1 | 2.4 | 2.1 |
| " | Copper | ug/L | 0.8 | 0.3 | 0.2 |
| " | Zinc | ug/L | 0.1 | <0.1 | <0.1 |

| Date | Other Constituents | | | | |
|----------|--------------------|-------|-------|------|------|
| Oct.3/85 | Susp.C | ug/L | 450 | 210 | 190 |
| " | Susp.N | ug/L | 72 | 29 | 27 |
| " | Susp.P | ug/L | 8 | 3 | 3 |
| " | TSS | mg/L | 1 | <1 | <1 |
| " | Susp.Fe | ug/L | 29 | 7 | 7 |
| " | CO ₂ | uM/L | 19.0 | 22.0 | 18.0 |
| " | pH | | 8.13 | 8.07 | 8.16 |
| " | Conduct. | uS/cm | 154 | 155 | 156 |
| " | Chlorine | ug/L | 535.5 | 12.2 | <1.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Oct.10/85 | Nitrate | ug/L | 6 | 15 | 16 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 10 | 20 | 30 |
| " | Chloride | mg/L | 4.3 | 4.5 | 4.6 |
| " | Sulphate | mg/L | 3.8 | 4.1 | 4.0 |
| " | TDN | ug/L | 460 | 290 | 290 |
| " | TDP | ug/L | 15 | 12 | 13 |
| " | DIC | uM/L | 1420 | 1460 | 1400 |
| " | DOC | uM/L | 550 | 330 | 370 |

| Date | Cations | | | |
|-----------|-----------|------|------|------|
| Oct.10/85 | Sodium | mg/L | 1.82 | 1.80 |
| " | Potassium | mg/L | 1.31 | 1.27 |
| " | Calcium | mg/L | 21.4 | 20.7 |
| " | Magnesium | mg/L | 5.75 | 5.72 |
| " | Manganese | ug/L | 10 | 2.4 |
| " | Iron | ug/L | 44 | 25 |
| " | Aluminium | ug/L | 8.0 | 4.1 |
| " | Copper | ug/L | 0.6 | 0.3 |
| " | Zinc | ug/L | 0.2 | 0.3 |
| | | | | <0.1 |

| Date | Other Constituents | | | |
|-----------|--------------------|-------|-------|------|
| Oct.10/85 | Susp.C | ug/L | 460 | 220 |
| " | Susp.N | ug/L | 70 | 35 |
| " | Susp.P | ug/L | 7 | 3 |
| " | TSS | mg/L | 1 | <1 |
| " | Susp.Fe | ug/L | 25 | 7 |
| " | CO2 | uM/L | 27.0 | 26.0 |
| " | pH | | 8.04 | 8.07 |
| " | Conduct. | uS/cm | 152 | 155 |
| " | Chlorine | ug/L | 487.1 | 14.6 |
| | | | | 5.4 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Oct.17/85 | Nitrate | ug/L | 6 | 14 | 15 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 10 | 20 | 20 |
| " | Chloride | mg/L | 4.4 | 5.1 | 5.1 |
| " | Sulphate | mg/L | 3.9 | 4.0 | 4.1 |
| " | TDN | ug/L | 480 | 310 | 330 |
| " | TDP | ug/L | 13 | 10 | 10 |
| " | DIC | uM/L | 1400 | 1470 | 1350 |
| " | DOC | uM/L | 650 | 430 | 430 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| Oct.17/85 | Sodium | mg/L | 1.79 | 1.79 | 1.80 |
| " | Potassium | mg/L | 1.27 | 1.29 | 1.31 |
| " | Calcium | mg/L | 21.9 | 21.6 | 21.6 |
| " | Magnesium | mg/L | 5.83 | 5.79 | 5.83 |
| " | Manganese | ug/L | 11 | 3.0 | 2.4 |
| " | Iron | ug/L | 53 | 31 | 31 |
| " | Aluminium | ug/L | 16 | 6.7 | 7.0 |
| " | Copper | ug/L | 0.7 | 0.2 | 0.2 |
| " | Zinc | ug/L | 0.2 | 0.2 | 0.2 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|------|------|
| Oct.17/85 | Susp.C | ug/L | 440 | 270 | 210 |
| " | Susp.N | ug/L | 61 | 68 | 35 |
| " | Susp.P | ug/L | 6 | 4 | 4 |
| " | TSS | mg/L | 1 | 1 | 1 |
| " | Susp.Fe | ug/L | 26 | 10 | 11 |
| " | CO ₂ | uM/L | 23.0 | 24.0 | 18.0 |
| " | pH | | 8.10 | 8.13 | 8.20 |
| " | Conduct. | uS/cm | 154 | 156 | 156 |
| " | Chlorine | ug/L | 785.7 | 21.9 | 5.4 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|------------|----------|------|-----------|-----------|-----------|
| Oct. 24/85 | Nitrate | ug/L | 4 | 8 | 7 |
| " | Nitrite | ug/L | <1 | 1 | 1 |
| " | Ammonia | ug/L | 10 | 10 | 10 |
| " | Chloride | mg/L | 4.5 | 5.1 | 5.1 |
| " | Sulphate | mg/L | NS | NS | NS |
| " | TDN | ug/L | 470 | 310 | 320 |
| " | TDP | ug/L | 15 | 13 | 13 |
| " | DIC | uM/L | 1340 | 1450 | 1420 |
| " | DOC | uM/L | 630 | 400 | 400 |

| Date | Cations | | | |
|------------|-----------|------|------|------|
| Oct. 24/85 | Sodium | mg/L | 1.89 | 1.94 |
| " | Potassium | mg/L | 1.25 | 1.21 |
| " | Calcium | mg/L | 22.6 | 21.3 |
| " | Magnesium | mg/L | 6.37 | 5.85 |
| " | Manganese | ug/L | 15 | 4.8 |
| " | Iron | ug/L | 57 | 36 |
| " | Aluminium | ug/L | 14 | 5.1 |
| " | Copper | ug/L | 0.8 | 0.3 |
| " | Zinc | ug/L | <0.1 | <0.1 |

| Date | Other Constituents | | | |
|------------|--------------------|-------|-------|------|
| Oct. 24/85 | Susp.C | ug/L | 444 | 240 |
| " | Susp.N | ug/L | 67 | 34 |
| " | Susp.P | ug/L | 7 | 4 |
| " | TSS | mg/L | 1 | 1 |
| " | Susp.Fe | ug/L | 34 | 12 |
| " | CO2 | uM/L | 31.0 | 36.0 |
| " | pH | | 7.95 | 7.93 |
| " | Conduct. | uS/cm | 155 | 156 |
| " | Chlorine | ug/L | 530.1 | 20.1 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Oct.31/85 | Nitrate | ug/L | <1 | 2 | 2 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | <10 | 10 | 10 |
| " | Chloride | mg/L | 5.0 | 5.0 | 5.0 |
| " | Sulphate | mg/L | 3.7 | 3.8 | 3.8 |
| " | TDN | ug/L | 480 | 360 | 380 |
| " | TDP | ug/L | 16 | 14 | 14 |
| " | DIC | uM/L | 1360 | 1400 | 1440 |
| " | DOC | uM/L | 620 | 450 | 420 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| Oct.31/85 | Sodium | mg/L | 1.90 | 1.87 | 1.95 |
| " | Potassium | mg/L | 1.29 | 1.29 | 1.37 |
| " | Calcium | mg/L | 21.8 | 21.8 | 21.8 |
| " | Magnesium | mg/L | 6.00 | 6.00 | 6.07 |
| " | Manganese | ug/L | 10 | 3.6 | 2.2 |
| " | Iron | ug/L | 56 | 40 | 39 |
| " | Aluminium | ug/L | 14 | 7.7 | 6.0 |
| " | Copper | ug/L | 0.8 | 0.3 | 0.2 |
| " | Zinc | ug/L | 0.1 | <0.1 | <0.1 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|------|------|
| Oct.31/85 | Susp.C | ug/L | 620 | 350 | 540 |
| " | Susp.N | ug/L | 78 | 37 | 36 |
| " | Susp.P | ug/L | 8 | 4 | 4 |
| " | TSS | mg/L | 1 | <1 | <1 |
| " | Susp.Fe | ug/L | 42 | 13 | 14 |
| " | CO ₂ | uM/L | 30.0 | 33.0 | 24.0 |
| " | pH | | 7.98 | 7.96 | 8.11 |
| " | Conduct. | uS/cm | 153 | 155 | 155 |
| " | Chlorine | ug/L | 514.6 | 16.7 | 4.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Nov. 7/85 | Nitrate | ug/L | 3 | 16 | 18 |
| " | Nitrite | ug/L | <1 | 1 | 1 |
| " | Ammonia | ug/L | <10 | 20 | 20 |
| " | Chloride | mg/L | 4.5 | 5.0 | 5.0 |
| " | Sulphate | mg/L | 3.6 | 3.8 | 3.7 |
| " | TDN | ug/L | 460 | 350 | 350 |
| " | TDP | ug/L | 18 | 15 | 4 |
| " | DIC | uM/L | 1480 | 1480 | 1450 |
| " | DOC | uM/L | 640 | 480 | 450 |

| Date | Cations | | | |
|-----------|-----------|------|------|------|
| Nov. 7/85 | Sodium | mg/L | 1.84 | 1.86 |
| " | Potassium | mg/L | 1.19 | 1.19 |
| " | Calcium | mg/L | 21.8 | 22.2 |
| " | Magnesium | mg/L | 6.00 | 6.15 |
| " | Manganese | ug/L | 7.7 | 2.4 |
| " | Iron | ug/L | 55 | 34 |
| " | Aluminium | ug/L | 9.6 | 5.2 |
| " | Copper | ug/L | 0.6 | 0.4 |
| " | Zinc | ug/L | 0.1 | <0.1 |

| Date | Other Constituents | | | |
|-----------|--------------------|-------|-------|------|
| Nov. 7/85 | Susp.C | ug/L | 520 | 260 |
| " | Susp.N | ug/L | 61 | 32 |
| " | Susp.P | ug/L | 6 | 3 |
| " | TSS | mg/L | 1 | <1 |
| " | Susp.Fe | ug/L | 30 | 11 |
| " | CO ₂ | uM/L | 32.0 | 28.0 |
| " | pH | | 7.99 | 8.06 |
| " | Conduct. | uS/cm | 154 | 155 |
| " | Chlorine | ug/L | 566.4 | 16.8 |
| | | | | 16.1 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Nov.14/85 | Nitrate | ug/L | 2 | 14 | 12 |
| " | Nitrite | ug/L | <1 | 1 | 2 |
| " | Ammonia | ug/L | 20 | 30 | 20 |
| " | Chloride | mg/L | 4.5 | 5.0 | 5.0 |
| " | Sulphate | mg/L | 3.6 | 3.7 | 3.7 |
| " | TDN | ug/L | 430 | 370 | 360 |
| " | TDP | ug/L | 16 | 13 | 13 |
| " | DIC | uM/L | 1480 | 1400 | 1400 |
| " | DOC | uM/L | 610 | 490 | 460 |

| Date | Cations | | | |
|-----------|-----------|------|------|------|
| Nov.14/85 | Sodium | mg/L | 1.87 | 1.94 |
| " | Potassium | mg/L | 1.21 | 1.23 |
| " | Calcium | mg/L | 21.8 | 21.8 |
| " | Magnesium | mg/L | 6.00 | 6.07 |
| " | Manganese | ug/L | 12 | 4.2 |
| " | Iron | ug/L | 68 | 41 |
| " | Aluminium | ug/L | 12 | 7.0 |
| " | Copper | ug/L | 0.6 | 0.3 |
| " | Zinc | ug/L | 0.3 | <0.1 |

| Date | Other Constituents | | | |
|-----------|--------------------|-------|-------|------|
| Nov.14/85 | Susp.C | ug/L | 560 | 330 |
| " | Susp.N | ug/L | 61 | 35 |
| " | Susp.P | ug/L | 6 | 4 |
| " | TSS | mg/L | 1 | 1 |
| " | Susp.Fe | ug/L | 36 | 15 |
| " | CO2 | uM/L | 29.0 | 21.0 |
| " | pH | | 8.04 | 8.14 |
| " | Conduct. | uS/cm | 156 | 156 |
| " | Chlorine | ug/L | 638.6 | 31.6 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|------------|----------|------|-----------|-----------|-----------|
| Nov. 21/85 | Nitrate | ug/L | 5 | 23 | 23 |
| " | Nitrite | ug/L | <1 | 1 | 1 |
| " | Ammonia | ug/L | <10 | 10 | 10 |
| " | Chloride | mg/L | 4.5 | 4.5 | 4.5 |
| " | Sulphate | mg/L | 3.5 | 3.5 | 3.5 |
| " | TDN | ug/L | 420 | 340 | 330 |
| " | TDP | ug/L | 16 | 13 | 13 |
| " | DIC | uM/L | 1500 | 1500 | 1450 |
| " | DOC | uM/L | 630 | 430 | 490 |

| Date | Cations | | | | |
|------------|-----------|------|------|------|------|
| Nov. 21/85 | Sodium | mg/L | 1.75 | 1.73 | 1.75 |
| " | Potassium | mg/L | 1.28 | 1.26 | 1.30 |
| " | Calcium | mg/L | 24.2 | 23.7 | 21.6 |
| " | Magnesium | mg/L | 5.56 | 6.06 | 6.06 |
| " | Manganese | ug/L | 9.5 | 5.6 | 3.2 |
| " | Iron | ug/L | 75 | 44 | 38 |
| " | Aluminium | ug/L | 12 | 9.4 | 8.5 |
| " | Copper | ug/L | 0.6 | 0.3 | 0.1 |
| " | Zinc | ug/L | 0.4 | <0.1 | <0.1 |

| Date | Other Constituents | | | | |
|------------|--------------------|-------|-------|------|------|
| Nov. 21/85 | Susp.C | ug/L | 520 | 380 | 250 |
| " | Susp.N | ug/L | 61 | 42 | 28 |
| " | Susp.P | ug/L | 6 | 4 | 3 |
| " | TSS | mg/L | 1 | 1 | <1 |
| " | Susp.Fe | ug/L | 40 | 20 | 12 |
| " | CO ₂ | uM/L | 40.0 | 34.0 | 21.0 |
| " | pH | | 7.89 | 7.97 | 8.17 |
| " | Conduct. | uS/cm | 158 | 159 | 159 |
| " | Chlorine | ug/L | 646.7 | 28.0 | 8.7 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|------------|----------|------|-----------|-----------|-----------|
| Nov. 28/85 | Nitrate | ug/L | 4 | 30 | 30 |
| " | Nitrite | ug/L | <1 | 1 | 2 |
| " | Ammonia | ug/L | 10 | 20 | 30 |
| " | Chloride | mg/L | 3.5 | 4.0 | 4.0 |
| " | Sulphate | mg/L | 3.5 | 3.0 | 3.5 |
| " | TDN | ug/L | 460 | 350 | 360 |
| " | TDP | ug/L | 16 | 13 | 12 |
| " | DIC | uM/L | 1770 | 1770 | 1690 |
| " | DOC | uM/L | 630 | 440 | 470 |

| Date | Cations | | | |
|------------|-----------|------|------|------|
| Nov. 28/85 | Sodium | mg/L | 1.92 | 1.87 |
| " | Potassium | mg/L | 1.27 | 1.23 |
| " | Calcium | mg/L | 22.6 | 23.0 |
| " | Magnesium | mg/L | 6.32 | 6.32 |
| " | Manganese | ug/L | 5.9 | 3.5 |
| " | Iron | ug/L | 61 | 38 |
| " | Aluminium | ug/L | 7.5 | 7.4 |
| " | Copper | ug/L | 0.6 | 0.3 |
| " | Zinc | ug/L | 0.2 | <0.1 |

| Date | Other Constituents | | | |
|------------|--------------------|-------|-------|------|
| Nov. 28/85 | Susp.C | ug/L | 300 | 280 |
| " | Susp.N | ug/L | 39 | 34 |
| " | Susp.P | ug/L | 4 | 3 |
| " | TSS | mg/L | 1 | <1 |
| " | Susp.Fe | ug/L | 20 | 12 |
| " | CO2 | uM/L | 33.0 | 31.0 |
| " | pH | | 8.07 | 8.08 |
| " | Conduct. | uS/cm | 165 | 165 |
| " | Chlorine | ug/L | 538.0 | 26.6 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Dec.05/85 | Nitrate | ug/L | 8 | 21 | 22 |
| " | Nitrite | ug/L | <1 | 1 | 1 |
| " | Ammonia | ug/L | <10 | 10 | 10 |
| " | Chloride | mg/L | 3.5 | 4.0 | 4.0 |
| " | Sulphate | mg/L | 3.5 | 3.5 | 3.5 |
| " | TDN | ug/L | 420 | 400 | 420 |
| " | TDP | ug/L | 15 | 13 | 13 |
| " | DIC | uM/L | 1490 | 1490 | 1440 |
| " | DOC | uM/L | 610 | 500 | 470 |

| Date | Cations | | | |
|-----------|-----------|------|------|------|
| Dec.05/85 | Sodium | mg/L | 1.93 | 1.95 |
| " | Potassium | mg/L | 1.25 | 1.29 |
| " | Calcium | mg/L | 23.0 | 23.0 |
| " | Magnesium | mg/L | 6.32 | 6.40 |
| " | Manganese | ug/L | 7.8 | 3.5 |
| " | Iron | ug/L | 68 | 48 |
| " | Aluminium | ug/L | 5.5 | 4.6 |
| " | Copper | ug/L | 0.5 | 0.3 |
| " | Zinc | ug/L | 0.2 | 0.1 |

| Date | Other Constituents | | | |
|-----------|--------------------|-------|-------|------|
| Dec.05/85 | Susp.C | ug/L | 320 | 210 |
| " | Susp.N | ug/L | 37 | 25 |
| " | Susp.P | ug/L | 4 | 3 |
| " | TSS | mg/L | 1 | <1 |
| " | Susp.Fe | ug/L | 23 | 13 |
| " | CO2 | uM/L | 46.0 | 44.0 |
| " | pH | | 7.84 | 7.85 |
| " | Conduct. | uS/cm | 169 | 170 |
| " | Chlorine | ug/L | 490.5 | 37.3 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Dec.12/85 | Nitrate | ug/L | 5 | 8 | 9 |
| " | Nitrite | ug/L | <1 | 2 | 2 |
| " | Ammonia | ug/L | 30 | 30 | 40 |
| " | Chloride | mg/L | 2.9 | 3.5 | 3.5 |
| " | Sulphate | mg/L | 3.4 | 3.4 | 3.5 |
| " | TDN | ug/L | 460 | 380 | 440 |
| " | TDP | ug/L | 15 | 14 | 13 |
| " | DIC | uM/L | 1590 | 1640 | 1580 |
| " | DOC | uM/L | 670 | 550 | 520 |

| Date | Cations | | | |
|-----------|-----------|------|------|------|
| Dec.12/85 | Sodium | mg/L | 2.21 | 2.18 |
| " | Potassium | mg/L | 1.35 | 1.33 |
| " | Calcium | mg/L | 23.7 | 23.3 |
| " | Magnesium | mg/L | 6.38 | 6.27 |
| " | Manganese | ug/L | 5.4 | 1.7 |
| " | Iron | ug/L | 66 | 47 |
| " | Aluminium | ug/L | 3.4 | 2.8 |
| " | Copper | ug/L | 0.5 | 0.2 |
| " | Zinc | ug/L | 0.2 | <0.1 |

| Date | Other Constituents | | | |
|-----------|--------------------|-------|-------|------|
| Dec.12/85 | Susp.C | ug/L | 230 | 180 |
| " | Susp.N | ug/L | 28 | 23 |
| " | Susp.P | ug/L | 3 | 2 |
| " | TSS | mg/L | 1 | <1 |
| " | Susp.Fe | ug/L | 19 | 10 |
| " | CO ₂ | uM/L | 39.0 | 40.0 |
| " | pH | | 7.94 | 7.94 |
| " | Conduct. | uS/cm | 162 | 163 |
| " | Chlorine | ug/L | 304.5 | 28.6 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Dec.19/85 | Nitrate | ug/L | 4 | 6 | 7 |
| " | Nitrite | ug/L | <1 | 1 | 1 |
| " | Ammonia | ug/L | 20 | 20 | 20 |
| " | Chloride | mg/L | *.* | *.* | *.* |
| " | Sulphate | mg/L | *.* | *.* | *.* |
| " | TDN | ug/L | 460 | 400 | 460 |
| " | TDP | ug/L | 14 | 11 | 10 |
| " | DIC | uM/L | 1690 | 1670 | 1580 |
| " | DOC | uM/L | 710 | 560 | 580 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| Dec.19/85 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 6.7 | 1.9 | 2.3 |
| " | Iron | ug/L | 66 | 46 | 47 |
| " | Aluminium | ug/L | 2.9 | 3.4 | 4.5 |
| " | Copper | ug/L | 0.4 | 0.1 | 0.2 |
| " | Zinc | ug/L | <0.1 | <0.1 | <0.1 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|------|------|
| Dec.19/85 | Susp.C | ug/L | 230 | 180 | 200 |
| " | Susp.N | ug/L | 27 | 21 | 25 |
| " | Susp.P | ug/L | 3 | 3 | 3 |
| " | TSS | mg/L | <1 | <1 | <1 |
| " | Susp.Fe | ug/L | 16 | 12 | 13 |
| " | CO22 | uM/L | 20.0 | 19.0 | 17.0 |
| " | pH | | 8.25 | 8.27 | 8.27 |
| " | Conduct. | uS/cm | 164 | 164 | 164 |
| " | Chlorine | ug/L | 118.4 | 29.5 | 10.8 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Jan. 2/86 | Nitrate | ug/L | 9 | 5 | 5 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 10 | 20 | 20 |
| " | Chloride | mg/L | *.* | *.* | *.* |
| " | Sulphate | mg/L | *.* | *.* | *.* |
| " | TDN | ug/L | 450 | 390 | 360 |
| " | TDP | ug/L | 14 | 13 | 12 |
| " | DIC | uM/L | 1720 | 1720 | 1640 |
| " | DOC | uM/L | 690 | 580 | 560 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| Jan. 2/86 | Sodium | mg/L | *.** | *.** | |
| " | Potassium | mg/L | *.** | *.** | |
| " | Calcium | mg/L | **.* | **.* | |
| " | Magnesium | mg/L | *.** | *.** | |
| " | Manganese | ug/L | 10 | 2.9 | 2.9 |
| " | Iron | ug/L | 92 | 60 | 59 |
| " | Aluminium | ug/L | 4.1 | 2.6 | 3.1 |
| " | Copper | ug/L | 0.8 | 0.2 | 0.2 |
| " | Zinc | ug/L | <0.1 | <0.1 | <0.1 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|------|------|
| Jan. 2/86 | Susp.C | ug/L | 210 | 180 | 180 |
| " | Susp.N | ug/L | 26 | 22 | 22 |
| " | Susp.P | ug/L | 4 | 3 | 3 |
| " | TSS | mg/L | <1 | <1 | <1 |
| " | Susp.Fe | ug/L | 43 | 18 | 17 |
| " | CO ₂ | uM/L | 82.0 | 52.0 | 24.0 |
| " | pH | | 7.64 | 7.84 | 8.16 |
| " | Conduct. | uS/cm | 182 | 177 | 177 |
| " | Chlorine | ug/L | 303.2 | 23.3 | 9.7 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Jan. 9/86 | Nitrate | ug/L | 10 | 7 | 7 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 20 | 20 | 20 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 460 | 350 | 360 |
| " | TDP | ug/L | 12 | 10 | 9 |
| " | DIC | uM/L | 1720 | 1730 | 1660 |
| " | DOC | uM/L | 730 | 590 | 580 |

| Date | Cations | | | |
|-----------|-----------|------|------|------|
| Jan. 9/86 | Sodium | mg/L | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** |
| " | Manganese | ug/L | 9.7 | 2.4 |
| " | Iron | ug/L | 76 | 59 |
| " | Aluminium | ug/L | 3.7 | 3.0 |
| " | Copper | ug/L | 0.5 | 0.2 |
| " | Zinc | ug/L | <0.1 | <0.1 |

| Date | Other Constituents | | | |
|-----------|--------------------|-------|-------|------|
| Jan. 9/86 | Susp.C | ug/L | 220 | 190 |
| " | Susp.N | ug/L | 30 | 24 |
| " | Susp.P | ug/L | 4 | 3 |
| " | TSS | mg/L | <1 | <1 |
| " | Susp.Fe | ug/L | 30 | 17 |
| " | CO2 | uM/L | 50.1 | 72.0 |
| " | pH | | 7.86 | 7.70 |
| " | Conduct. | uS/cm | 170 | 172 |
| " | Chlorine | ug/L | 260.6 | 25.9 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Jan.16/86 | Nitrate | ug/L | 11 | 7 | 8 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 10 | 20 | 20 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 450 | 350 | 400 |
| " | TDP | ug/L | 14 | 12 | 12 |
| " | DIC | uM/L | 1660 | 1650 | 1570 |
| " | DOC | uM/L | 670 | 570 | 550 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| Jan.16/86 | Sodium | mg/L | *.** | *.** | |
| " | Potassium | mg/L | *.** | *.** | |
| " | Calcium | mg/L | **.* | **.* | |
| " | Magnesium | mg/L | *.** | *.** | |
| " | Manganese | ug/L | 7.3 | 1.8 | 1.7 |
| " | Iron | ug/L | 79 | 60 | 60 |
| " | Aluminium | ug/L | 6.4 | 6.1 | 13.0 |
| " | Copper | ug/L | 0.5 | 0.3 | 0.3 |
| " | Zinc | ug/L | <0.1 | <0.1 | <0.1 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|------|------|
| Jan.16/86 | Susp.C | ug/L | 194 | 158 | 162 |
| " | Susp.N | ug/L | 16 | 11 | 12 |
| " | Susp.P | ug/L | 3 | 2 | 2 |
| " | TSS | mg/L | <1 | <1 | <1 |
| " | Susp.Fe | ug/L | 29 | 15 | 15 |
| " | CO ₂ | uM/L | 36.0 | 33.0 | 20.0 |
| " | pH | | 7.99 | 8.02 | 8.23 |
| " | Conduct. | uS/cm | 161 | 164 | 164 |
| " | Chlorine | ug/L | 430.9 | 22.4 | 5.9 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|------------|----------|------|-----------|-----------|-----------|
| Jan. 23/86 | Nitrate | ug/L | 11 | 9 | 9 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 10 | 30 | 30 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 450 | 360 | 380 |
| " | TDP | ug/L | 16 | 15 | 14 |
| " | DIC | uM/L | 1660 | 1660 | 1600 |
| " | DOC | uM/L | 720 | 570 | 580 |

| Date | Cations | | | | |
|------------|-----------|------|-------|-------|-------|
| Jan. 23/86 | Sodium | mg/L | **.** | **.** | **.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 4.9 | 1.6 | 1.5 |
| " | Iron | ug/L | 72 | 58 | 58 |
| " | Aluminium | ug/L | 7.0 | 13.0 | 14.0 |
| " | Copper | ug/L | 0.6 | 0.3 | 0.3 |
| " | Zinc | ug/L | 0.2 | <0.1 | 0.1 |

| Date | Other Constituents | | | | |
|------------|--------------------|-------|-------|------|------|
| Jan. 23/86 | Susp.C | ug/L | 164 | 148 | 156 |
| " | Susp.N | ug/L | 19 | 17 | 18 |
| " | Susp.P | ug/L | 3 | 2 | 2 |
| " | TSS | mg/L | ** | <1 | <1 |
| " | Susp.Fe | ug/L | 23 | 14 | 16 |
| " | CO2 | uM/L | 28.0 | 24.0 | 18.0 |
| " | pH | | 8.10 | 8.17 | 8.27 |
| " | Conduct. | uS/cm | 172 | 173 | 173 |
| " | Chlorine | ug/L | 483.6 | 24.7 | 7.7 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|------------|----------|------|-----------|-----------|-----------|
| Jan. 30/86 | Nitrate | ug/L | 2 | 1 | 1 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 10 | 20 | 20 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 480 | 360 | 370 |
| " | TDP | ug/L | 15 | 12 | 12 |
| " | DIC | uM/L | 1680 | 1680 | 1600 |
| " | DOC | uM/L | 700 | 590 | 590 |

Date Cations

| | | | | | |
|------------|-----------|------|------|------|------|
| Jan. 30/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 4.2 | 1.5 | 1.4 |
| " | Iron | ug/L | 61 | 50 | 50 |
| " | Aluminium | ug/L | 5.4 | 7.2 | 12.0 |
| " | Copper | ug/L | 0.6 | 0.3 | 0.3 |
| " | Zinc | ug/L | 0.2 | 0.1 | <0.1 |

Date Other Constituents

| | | | | | |
|------------|-----------------|-------|-------|------|------|
| Jan. 30/86 | Susp.C | ug/L | 170 | 140 | 160 |
| " | Susp.N | ug/L | 20 | 18 | 19 |
| " | Susp.P | ug/L | 3 | 1 | 3 |
| " | TSS | mg/L | <1 | <1 | <1 |
| " | Susp.Fe | ug/L | 18 | 12 | 13 |
| " | CO ₂ | uM/L | 34.0 | 35.0 | 26.0 |
| " | pH | | 8.02 | 8.01 | 8.12 |
| " | Conduct. | uS/cm | 174 | 175 | 174 |
| " | Chlorine | ug/L | 515.0 | 28.1 | 7.4 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Feb. 6/86 | Nitrate | ug/L | 18 | 13 | 22 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 30 | 30 | 90 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 460 | 440 | 440 |
| " | TDP | ug/L | 14 | 17 | 14 |
| " | DIC | uM/L | 1680 | 1660 | 1600 |
| " | DOC | uM/L | 700 | 560 | 560 |

| Date | Cations | | | |
|-----------|-----------|------|------|------|
| Feb. 6/86 | Sodium | mg/L | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** |
| " | Manganese | ug/L | 3.8 | 1.3 |
| " | Iron | ug/L | 55 | 43 |
| " | Aluminium | ug/L | 3.8 | 3.6 |
| " | Copper | ug/L | 0.6 | 0.2 |
| " | Zinc | ug/L | 0.1 | <0.1 |

| Date | Other Constituents | | | |
|-----------|--------------------|-------|-------|------|
| Feb. 6/86 | Susp.C | ug/L | 160 | 140 |
| " | Susp.N | ug/L | 19 | 18 |
| " | Susp.P | ug/L | <1 | <1 |
| " | TSS | mg/L | <1 | <1 |
| " | Susp.Fe | ug/L | 16 | 11 |
| " | CO2 | uM/L | 32.0 | 33.0 |
| " | pH | | 8.02 | 8.03 |
| " | Conduct. | uS/cm | 176 | 175 |
| " | Chlorine | ug/L | 514.2 | 26.6 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Feb.13/86 | Nitrate | ug/L | 24 | 12 | 12 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 10 | 20 | 20 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 460 | 400 | 370 |
| " | TDP | ug/L | 15 | 14 | 13 |
| " | DIC | uM/L | 1750 | 1800 | 1670 |
| " | DOC | uM/L | 760 | 600 | 590 |

| Date | Cations | | | |
|-----------|-----------|------|------|------|
| Feb.13/86 | Sodium | mg/L | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** |
| " | Manganese | ug/L | 4.2 | 1.3 |
| " | Iron | ug/L | 52 | 42 |
| " | Aluminium | ug/L | 5.8 | 4.7 |
| " | Copper | ug/L | 0.6 | 0.2 |
| " | Zinc | ug/L | <0.1 | 0.2 |

| Date | Other Constituents | | | |
|-----------|--------------------|-------|-------|------|
| Feb.13/86 | Susp.C | ug/L | 170 | 160 |
| " | Susp.N | ug/L | 21 | 19 |
| " | Susp.P | ug/L | 3 | 3 |
| " | TSS | mg/L | <1 | <1 |
| " | Susp.Fe | ug/L | 17 | 12 |
| " | CO ₂ | uM/L | 28.0 | 28.0 |
| " | pH | | 8.13 | 8.13 |
| " | Conduct. | uS/cm | 175 | 176 |
| " | Chlorine | ug/L | 541.7 | 27.5 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|------------|----------|------|-----------|-----------|-----------|
| Feb. 20/86 | Nitrate | ug/L | 31 | 17 | 19 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 20 | 20 | 30 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 480 | 390 | 380 |
| " | TDP | ug/L | 13 | 11 | 12 |
| " | DIC | uM/L | 1620 | 1710 | 1690 |
| " | DOC | uM/L | 680 | 570 | 550 |

| Date | Cations | | | | |
|------------|-----------|------|------|------|------|
| Feb. 20/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 3.3 | 1.2 | 1.2 |
| " | Iron | ug/L | 52 | 40 | 37 |
| " | Aluminium | ug/L | 3.9 | 5.5 | 5.4 |
| " | Copper | ug/L | 0.6 | 0.3 | 0.2 |
| " | Zinc | ug/L | <0.1 | <0.1 | <0.1 |

| Date | Other Constituents | | | | |
|------------|--------------------|-------|-------|------|------|
| Feb. 20/86 | Susp.C | ug/L | 160 | 150 | 150 |
| " | Susp.N | ug/L | 19 | 20 | 19 |
| " | Susp.P | ug/L | 2 | 3 | 2 |
| " | TSS | mg/L | <1 | <1 | <1 |
| " | Susp.Fe | ug/L | 16 | 10 | 10 |
| " | CO2 | uM/L | 55.0 | 43.0 | 34.0 |
| " | pH | | 7.79 | 7.93 | 8.02 |
| " | Conduct. | uS/cm | 176 | 178 | 178 |
| " | Chlorine | ug/L | 409.3 | 26.8 | 8.3 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|------------|----------|------|-----------|-----------|-----------|
| Feb. 27/86 | Nitrate | ug/L | 38 | 25 | 26 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 10 | 10 | 20 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 500 | 380 | 370 |
| " | TDP | ug/L | 15 | 12 | 14 |
| " | DIC | uM/L | 1710 | 1650 | 1640 |
| " | DOC | uM/L | 660 | 540 | 520 |

| Date | Cations | | | | |
|------------|-----------|------|------|------|------|
| Feb. 27/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 3.4 | 0.8 | 1.0 |
| " | Iron | ug/L | 50 | 34 | 34 |
| " | Aluminium | ug/L | 3.5 | 5.5 | 5.4 |
| " | Copper | ug/L | 0.5 | 0.2 | 0.2 |
| " | Zinc | ug/L | 0.1 | 0.1 | <0.1 |

| Date | Other Constituents | | | | |
|------------|--------------------|-------|-------|------|------|
| Feb. 27/86 | Susp.C | ug/L | *** | *** | *** |
| " | Susp.N | ug/L | ** | ** | ** |
| " | Susp.P | ug/L | 3 | 3 | 3 |
| " | TSS | mg/L | <1 | <1 | <1 |
| " | Susp.Fe | ug/L | 19 | 12 | 14 |
| " | CO ₂ | uM/L | 41.0 | 37.0 | 24.0 |
| " | pH | | 7.95 | 7.98 | 8.16 |
| " | Conduct. | uS/cm | 177 | 179 | 178 |
| " | Chlorine | ug/L | 534.6 | 18.8 | 3.1 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Mar. 6/86 | Nitrate | ug/L | 39 | 46 | 46 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 10 | 30 | 20 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 490 | 450 | 450 |
| " | TDP | ug/L | 15 | 10 | 11 |
| " | DIC | uM/L | 1580 | 1600 | 1590 |
| " | DOC | uM/L | 730 | 560 | 550 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| Mar. 6/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 3.1 | 1.0 | 0.9 |
| " | Iron | ug/L | 52 | 34 | 34 |
| " | Aluminium | ug/L | 7.2 | 9.3 | 11.0 |
| " | Copper | ug/L | 0.5 | 0.4 | 0.2 |
| " | Zinc | ug/L | 0.4 | 0.4 | 0.2 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|------|------|
| Mar. 6/86 | Susp.C | ug/L | 156 | 198 | 182 |
| " | Susp.N | ug/L | 19 | 21 | 21 |
| " | Susp.P | ug/L | 3 | 3 | 3 |
| " | TSS | mg/L | <1 | <1 | <1 |
| " | Susp.Fe | ug/L | 19 | 12 | 12 |
| " | CO2 | uM/L | 35.0 | 33.0 | 25.0 |
| " | pH | | 7.98 | 8.01 | 8.13 |
| " | Conduct. | uS/cm | 176 | 177 | 177 |
| " | Chlorine | ug/L | 510.4 | 16.4 | 3.4 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Mar.13/86 | Nitrate | ug/L | 40 | 56 | 56 |
| " | Nitrite | ug/L | <1 | 1 | 2 |
| " | Ammonia | ug/L | 10 | 20 | 20 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 470 | 430 | 420 |
| " | TDP | ug/L | 13 | 11 | 11 |
| " | DIC | uM/L | 1550 | 1630 | 1550 |
| " | DOC | uM/L | 650 | 550 | 520 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| Mar.13/86 | Sodium | mg/L | *.** | *.** | |
| " | Potassium | mg/L | *.** | *.** | |
| " | Calcium | mg/L | **.* | **.* | |
| " | Magnesium | mg/L | *.** | *.** | |
| " | Manganese | ug/L | 3.2 | 0.7 | 3.8 |
| " | Iron | ug/L | 48 | 32 | 47 |
| " | Aluminium | ug/L | 8.8 | 13.0 | 15.0 |
| " | Copper | ug/L | 0.6 | 0.2 | 0.2 |
| " | Zinc | ug/L | 0.2 | 0.1 | 0.2 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|------|------|
| Mar.13/86 | Susp.C | ug/L | 144 | 170 | 442 |
| " | Susp.N | ug/L | 18 | 20 | 67 |
| " | Susp.P | ug/L | 3 | 3 | 5 |
| " | TSS | mg/L | <1 | <1 | 1 |
| " | Susp.Fe | ug/L | 18 | 11 | 27 |
| " | CO ₂ | uM/L | 35.0 | 34.0 | 24.0 |
| " | pH | | 7.97 | 8.01 | 8.13 |
| " | Conduct. | uS/cm | 187 | 187 | 187 |
| " | Chlorine | ug/L | 407.7 | 18.6 | 3.7 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|------------|----------|------|-----------|-----------|-----------|
| Mar. 20/86 | Nitrate | ug/L | 40 | 61 | 63 |
| " | Nitrite | ug/L | <1 | 1 | 2 |
| " | Ammonia | ug/L | 10 | 20 | 20 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 480 | 410 | 420 |
| " | TDP | ug/L | 15 | 11 | 11 |
| " | DIC | uM/L | 1590 | 1560 | 1540 |
| " | DOC | uM/L | 700 | 510 | 510 |

| Date | Cations | | | | |
|------------|-----------|------|------|------|------|
| Mar. 20/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 2.8 | 0.7 | 0.8 |
| " | Iron | ug/L | 40 | 32 | 31 |
| " | Aluminium | ug/L | 4.0 | 5.1 | 5.8 |
| " | Copper | ug/L | 0.6 | 0.2 | 0.2 |
| " | Zinc | ug/L | 0.2 | 0.1 | <0.1 |

| Date | Other Constituents | | | | |
|------------|--------------------|-------|-------|------|------|
| Mar. 20/86 | Susp.C | ug/L | 180 | 220 | 220 |
| " | Susp.N | ug/L | 18 | 21 | 21 |
| " | Susp.P | ug/L | 3 | 3 | 3 |
| " | TSS | mg/L | <1 | <1 | <1 |
| " | Susp.Fe | ug/L | 18 | 11 | 12 |
| " | CO2 | uM/L | 44.0 | 42.0 | 33.0 |
| " | pH | | 7.88 | 7.89 | 7.99 |
| " | Conduct. | uS/cm | 186 | 186 | 186 |
| " | Chlorine | ug/L | 515.2 | 17.7 | 3.4 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|------------|----------|------|-----------|-----------|-----------|
| Mar. 27/85 | Nitrate | ug/L | 39 | 68 | 68 |
| " | Nitrite | ug/L | <1 | <1 | 1 |
| " | Ammonia | ug/L | 10 | 20 | 20 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 450 | 390 | 400 |
| " | TDP | ug/L | 14 | 11 | 11 |
| " | DIC | uM/L | 1500 | 1550 | 1540 |
| " | DOC | uM/L | 640 | 510 | 530 |

| Date | Cations | | | |
|------------|-----------|------|------|------|
| Mar. 27/86 | Sodium | mg/L | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** |
| " | Manganese | ug/L | 2.8 | 0.5 |
| " | Iron | ug/L | 48 | 32 |
| " | Aluminium | ug/L | 5.9 | 5.5 |
| " | Copper | ug/L | 0.7 | 0.2 |
| " | Zinc | ug/L | 0.2 | <0.1 |

| Date | Other Constituents | | | |
|------------|--------------------|-------|-------|------|
| Mar. 27/86 | Susp.C | ug/L | 190 | 190 |
| " | Susp.N | ug/L | 20 | 20 |
| " | Susp.P | ug/L | 4 | 3 |
| " | TSS | mg/L | <1 | <1 |
| " | Susp.Fe | ug/L | 18 | 10 |
| " | CO ₂ | uM/L | 36.0 | 43.0 |
| " | pH | | 7.94 | 7.88 |
| " | Conduct. | uS/cm | 184 | 185 |
| " | Chlorine | ug/L | 511.5 | 16.2 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Apr. 3/86 | Nitrate | ug/L | 34 | 66 | 66 |
| " | Nitrite | ug/L | 1 | 2 | 3 |
| " | Ammonia | ug/L | 10 | 30 | 30 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 440 | 390 | 410 |
| " | TDP | ug/L | 13 | 10 | 11 |
| " | DIC | uM/L | 1540 | 1600 | 1570 |
| " | DOC | uM/L | 630 | 500 | 510 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| Apr. 3/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 2.6 | 0.6 | 0.6 |
| " | Iron | ug/L | 50 | 36 | 37 |
| " | Aluminium | ug/L | 6.8 | 5.7 | 6.2 |
| " | Copper | ug/L | 0.6 | 0.2 | 0.2 |
| " | Zinc | ug/L | 0.1 | <0.1 | <0.1 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|------|------|
| Apr. 3/86 | Susp.C | ug/L | 180 | 160 | 160 |
| " | Susp.N | ug/L | 26 | 28 | 32 |
| " | Susp.P | ug/L | 4 | 3 | 3 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | 17 | 10 | 11 |
| " | CO ₂ | uM/L | 49.0 | 61.0 | 30.0 |
| " | pH | | 7.82 | 7.74 | 8.04 |
| " | Conduct. | uS/cm | 188 | 183 | 182 |
| " | Chlorine | ug/L | 438.4 | 14.8 | 3.3 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Apr.10/86 | Nitrate | ug/L | 16 | 67 | 66 |
| " | Nitrite | ug/L | <1 | 4 | 5 |
| " | Ammonia | ug/L | 10 | 30 | 30 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 420 | 390 | 380 |
| " | TDP | ug/L | 12 | 10 | 10 |
| " | DIC | uM/L | 1470 | 1540 | 1500 |
| " | DOC | uM/L | 650 | 490 | 490 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| Apr.10/86 | Sodium | mg/L | *.** | *.** | |
| " | Potassium | mg/L | *.** | *.** | |
| " | Calcium | mg/L | **.* | **.* | |
| " | Magnesium | mg/L | *.** | *.** | |
| " | Manganese | ug/L | 4.4 | 0.8 | 7.7 |
| " | Iron | ug/L | 60 | 39 | 73 |
| " | Aluminium | ug/L | 7.8 | 6.5 | 12.0 |
| " | Copper | ug/L | 0.8 | 0.2 | 0.3 |
| " | Zinc | ug/L | 0.3 | <0.1 | 0.1 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|------|------|
| Apr.10/86 | Susp.C | ug/L | 210 | 160 | 210 |
| " | Susp.N | ug/L | 51 | 50 | 68 |
| " | Susp.P | ug/L | 6 | 3 | 6 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | 2 | 11 | 27 |
| " | CO ₂ | uM/L | 25.0 | 25.0 | 21.0 |
| " | pH | | 8.10 | 8.11 | 8.18 |
| " | Conduct. | uS/cm | 175 | 177 | 178 |
| " | Chlorine | ug/L | 479.2 | 8.19 | <1.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Apr.17/86 | Nitrate | ug/L | 7 | 63 | 65 |
| " | Nitrite | ug/L | <1 | 3 | 4 |
| " | Ammonia | ug/L | 20 | 40 | 40 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 370 | 390 | 380 |
| " | TDP | ug/L | 13 | 12 | 12 |
| " | DIC | uM/L | 1470 | 1440 | 1450 |
| " | DOC | uM/L | 600 | 480 | 490 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| Apr.17/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 14.0 | *.* | 3.6 |
| " | Iron | ug/L | 95 | ** | 50 |
| " | Aluminium | ug/L | 12.0 | *.* | 10.0 |
| " | Copper | ug/L | 0.9 | *.* | 0.5 |
| " | Zinc | ug/L | 0.3 | *.* | 0.3 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|------|------|
| Apr.17/86 | Susp.C | ug/L | 340 | 190 | 170 |
| " | Susp.N | ug/L | 49 | 25 | 24 |
| " | Susp.P | ug/L | 7 | 4 | 5 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | 45 | 13 | 13 |
| " | CO ₂ | uM/L | 30.0 | 29.0 | 24.0 |
| " | pH | | 8.02 | 8.02 | 8.11 |
| " | Conduct. | uS/cm | 173 | 174 | 174 |
| " | Chlorine | ug/L | 376.5 | 7.7 | <1.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|------------|----------|------|-----------|-----------|-----------|
| Apr. 24/86 | Nitrate | ug/L | 3 | 58 | 59 |
| " | Nitrite | ug/L | <1 | 5 | 5 |
| " | Ammonia | ug/L | 20 | 30 | 30 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 430 | 440 | 420 |
| " | TDP | ug/L | 15 | 13 | 13 |
| " | DIC | uM/L | 1540 | 1560 | 1510 |
| " | DOC | uM/L | 630 | 520 | 510 |

| Date | Cations | | | | |
|------------|-----------|------|------|------|------|
| Apr. 24/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 9.2 | 1.0 | 1.0 |
| " | Iron | ug/L | 89 | 38 | 39 |
| " | Aluminium | ug/L | 14.0 | 6.8 | 6.6 |
| " | Copper | ug/L | 0.6 | 0.2 | 0.2 |
| " | Zinc | ug/L | 0.2 | <0.1 | <0.1 |

| Date | Other Constituents | | | | |
|------------|--------------------|-------|-------|------|------|
| Apr. 24/86 | Susp.C | ug/L | 470 | 190 | 180 |
| " | Susp.N | ug/L | 62 | 26 | 24 |
| " | Susp.P | ug/L | 8 | 3 | 3 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | 59 | 16 | 16 |
| " | CO ₂ | uM/L | 30.0 | 37.0 | 24.0 |
| " | pH | | 8.04 | 7.95 | 8.12 |
| " | Conduct. | uS/cm | 175 | 177 | 176 |
| " | Chlorine | ug/L | 321.3 | 8.7 | <1.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| May. 1/86 | Nitrate | ug/L | 5 | 61 | 75 |
| " | Nitrite | ug/L | <1 | 9 | 7 |
| " | Ammonia | ug/L | 10 | 30 | 20 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 410 | 400 | 430 |
| " | TDP | ug/L | 16 | 13 | 13 |
| " | DIC | uM/L | 1670 | 1700 | 1700 |
| " | DOC | uM/L | 780 | 590 | 570 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| May. 1/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 13.0 | 1.7 | 1.5 |
| " | Iron | ug/L | 99 | 34 | 33 |
| " | Aluminium | ug/L | 21.0 | 7.2 | 7.5 |
| " | Copper | ug/L | 0.7 | 0.2 | 0.5 |
| " | Zinc | ug/L | 0.2 | <0.1 | 0.3 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|------|------|
| May. 1/86 | Susp.C | ug/L | 660 | 290 | 240 |
| " | Susp.N | ug/L | 84 | 41 | 35 |
| " | Susp.P | ug/L | 11 | 5 | 4 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | 76 | 18 | 15 |
| " | CO ₂ | uM/L | 38.0 | 40.0 | 29.0 |
| " | pH | | 7.97 | 7.96 | 8.09 |
| " | Conduct. | uS/cm | 175 | 178 | 180 |
| " | Chlorine | ug/L | 414.6 | 15.5 | 2.4 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| May. 8/86 | Nitrate | ug/L | <1 | 25 | 26 |
| " | Nitrite | ug/L | <1 | 7 | 8 |
| " | Ammonia | ug/L | 20 | 30 | 20 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 390 | 380 | 400 |
| " | TDP | ug/L | 20 | 16 | 16 |
| " | DIC | uM/L | 1680 | 1680 | 1710 |
| " | DOC | uM/L | 610 | 510 | 480 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| May. 8/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 14.0 | 1.1 | 0.9 |
| " | Iron | ug/L | 94 | 42 | 31 |
| " | Aluminium | ug/L | 18.0 | 4.6 | 5.0 |
| " | Copper | ug/L | 0.7 | 0.2 | 0.3 |
| " | Zinc | ug/L | 0.3 | <0.1 | <0.1 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|------|------|
| May. 8/86 | Susp.C | ug/L | 620 | 160 | 140 |
| " | Susp.N | ug/L | 89 | 23 | 22 |
| " | Susp.P | ug/L | 9 | 3 | 3 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | 65 | 10 | 10 |
| " | CO2 | uM/L | 27.0 | 43.0 | 24.0 |
| " | pH | | 8.12 | 7.92 | 8.19 |
| " | Conduct. | uS/cm | 174 | 174 | 175 |
| " | Chlorine | ug/L | 310.9 | 10.5 | 1.2 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| May.15/86 | Nitrate | ug/L | 3 | 57 | 67 |
| " | Nitrite | ug/L | <1 | 11 | 1 |
| " | Ammonia | ug/L | 10 | 30 | 40 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 420 | 410 | 510 |
| " | TDP | ug/L | 27 | 16 | 26 |
| " | DIC | uM/L | 1650 | 1660 | 1610 |
| " | DOC | uM/L | 640 | 480 | 490 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| May.15/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 14.0 | 1.6 | 1.6 |
| " | Iron | ug/L | 87 | 32 | 28 |
| " | Aluminium | ug/L | 21.0 | 7.8 | 5.5 |
| " | Copper | ug/L | 0.8 | 0.3 | 0.4 |
| " | Zinc | ug/L | 0.2 | 0.1 | 0.1 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|------|------|
| May.15/86 | Susp.C | ug/L | 620 | 180 | 160 |
| " | Susp.N | ug/L | 73 | 25 | 22 |
| " | Susp.P | ug/L | 7 | 3 | 3 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | 61 | 12 | 9 |
| " | CO ₂ | uM/L | 24.0 | 23.0 | 21.0 |
| " | pH | | 8.16 | 8.19 | 8.21 |
| " | Conduct. | uS/cm | 168 | 170 | 170 |
| " | Chlorine | ug/L | 248.6 | 9.2 | <1.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|------------|----------|------|-----------|-----------|-----------|
| May. 29/86 | Nitrate | ug/L | 3 | 92 | 93 |
| " | Nitrite | ug/L | <1 | 4 | 4 |
| " | Ammonia | ug/L | 10 | 10 | 20 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 450 | 460 | 430 |
| " | TDP | ug/L | 22 | 23 | 18 |
| " | DIC | uM/L | 1450 | 1550 | 1420 |
| " | DOC | uM/L | 590 | 560 | 520 |

| Date | Cations | | | | |
|------------|-----------|------|------|------|-----|
| May. 29/86 | Sodium | mg/L | *.** | *.** | |
| " | Potassium | mg/L | *.** | *.** | |
| " | Calcium | mg/L | **.* | **.* | |
| " | Magnesium | mg/L | *.** | *.** | |
| " | Manganese | ug/L | 26.0 | 2.2 | 2.3 |
| " | Iron | ug/L | 71 | 38 | 35 |
| " | Aluminium | ug/L | 13.0 | 4.1 | 4.9 |
| " | Copper | ug/L | 0.9 | 0.4 | 0.3 |
| " | Zinc | ug/L | 0.2 | 0.1 | 0.1 |

| Date | Other Constituents | | | | |
|------------|--------------------|-------|-------|------|------|
| May. 29/86 | Susp.C | ug/L | 346 | 142 | 144 |
| " | Susp.N | ug/L | 44 | 18 | 19 |
| " | Susp.P | ug/L | 5 | 3 | 3 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | 35 | 8 | 9 |
| " | CO ₂ | uM/L | 45.0 | 94.0 | 40.0 |
| " | pH | | 7.83 | 7.53 | 7.88 |
| " | Conduct. | uS/cm | 164 | 165 | 165 |
| " | Chlorine | ug/L | 294.1 | 9.6 | 1.1 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Jun. 5/86 | Nitrate | ug/L | 6 | 106 | 102 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 10 | 20 | 30 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 410 | 410 | 440 |
| " | TDP | ug/L | 33 | 18 | 17 |
| " | DIC | uM/L | 1480 | 1560 | 1490 |
| " | DOC | uM/L | 610 | 460 | 450 |

| Date | Cations | | | |
|-----------|-----------|------|------|------|
| Jun. 5/86 | Sodium | mg/L | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** |
| " | Manganese | ug/L | 10.0 | 2.0 |
| " | Iron | ug/L | 52 | 23 |
| " | Aluminium | ug/L | 14.0 | 3.0 |
| " | Copper | ug/L | 0.9 | 0.3 |
| " | Zinc | ug/L | 0.1 | 0.1 |

| Date | Other Constituents | | | |
|-----------|--------------------|-------|-------|------|
| Jun. 5/86 | Susp.C | ug/L | 330 | 164 |
| " | Susp.N | ug/L | 45 | 23 |
| " | Susp.P | ug/L | 5 | 3 |
| " | TSS | mg/L | ** | ** |
| " | Susp.Fe | ug/L | 28 | 7 |
| " | CO2 | uM/L | 18.0 | 23.0 |
| " | pH | | 8.24 | 8.17 |
| " | Conduct. | uS/cm | 168 | 170 |
| " | Chlorine | ug/L | 331.5 | 6.3 |
| | | | | <1.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Jun.12/86 | Nitrate | ug/L | 6 | 98 | 102 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 20 | 30 | 30 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 390 | 480 | 410 |
| " | TDP | ug/L | 19 | 18 | 18 |
| " | DIC | uM/L | 1470 | 1480 | 1440 |
| " | DOC | uM/L | 620 | 490 | 460 |

| Date | Cations | | | | |
|-----------|-----------|------|-------|-------|-----|
| Jun.12/86 | Sodium | mg/L | **.** | **.** | |
| " | Potassium | mg/L | *.** | *.** | |
| " | Calcium | mg/L | **.* | **.* | |
| " | Magnesium | mg/L | *.** | **.** | |
| " | Manganese | ug/L | 13.0 | 2.4 | 2.5 |
| " | Iron | ug/L | 42 | 22 | 20 |
| " | Aluminium | ug/L | 13.0 | 4.1 | 3.5 |
| " | Copper | ug/L | 1.0 | 0.3 | 0.4 |
| " | Zinc | ug/L | 0.2 | <0.1 | 0.1 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|------|------|
| Jun.12/86 | Susp.C | ug/L | 320 | 170 | 170 |
| " | Susp.N | ug/L | 39 | 23 | NS |
| " | Susp.P | ug/L | 6 | 3 | 3 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | 24 | 7 | 7 |
| " | CO ₂ | uM/L | 27.0 | 34.0 | 24.0 |
| " | pH | | 8.06 | 7.97 | 8.11 |
| " | Conduct. | uS/cm | 160 | 162 | 162 |
| " | Chlorine | ug/L | 533.5 | 64.3 | <1.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|------------|----------|------|-----------|-----------|-----------|
| Jun. 19/86 | Nitrate | ug/L | 61 | 64 | <1 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 20 | 10 | <10 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 380 | 420 | 430 |
| " | TDP | ug/L | 20 | 18 | 22 |
| " | DIC | uM/L | 1170 | 1240 | 1230 |
| " | DOC | uM/L | 450 | 490 | 590 |

Date Cations

| | | | | | |
|------------|-----------|------|------|------|------|
| Jun. 19/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 3.2 | 3.2 | 14.0 |
| " | Iron | ug/L | 26 | 25 | 49 |
| " | Aluminium | ug/L | 4.8 | 4.5 | 13.0 |
| " | Copper | ug/L | 0.2 | 0.3 | 1.0 |
| " | Zinc | ug/L | <0.1 | <0.1 | 0.2 |

Date Other Constituents

| | | | | | |
|------------|-----------------|-------|-------|------|------|
| Jun. 19/86 | Susp.C | ug/L | NS | 170 | 310 |
| " | Susp.N | ug/L | NS | 29 | 48 |
| " | Susp.P | ug/L | 3 | 3 | 6 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | 8 | 7 | 27 |
| " | CO ₂ | uM/L | 19.0 | 25.0 | 21.0 |
| " | pH | | 8.11 | 8.03 | 8.09 |
| " | Conduct. | uS/cm | 159 | 161 | 161 |
| " | Chlorine | ug/L | 622.1 | 7.4 | <1.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Jun.26/86 | Nitrate | ug/L | 7 | 97 | 97 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 10 | 20 | 20 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 440 | 430 | 420 |
| " | TDP | ug/L | 21 | 18 | 17 |
| " | DIC | uM/L | 1330 | 1550 | 1420 |
| " | DOC | uM/L | 710 | 570 | 590 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| Jun.26/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 9.4 | 2.0 | 2.0 |
| " | Iron | ug/L | 46 | 25 | 24 |
| " | Aluminium | ug/L | 14.0 | 6.2 | 13.0 |
| " | Copper | ug/L | 1.0 | 0.3 | 0.3 |
| " | Zinc | ug/L | 0.2 | 0.1 | 0.2 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|------|------|
| Jun.26/86 | Susp.C | ug/L | 260 | 160 | 160 |
| " | Susp.N | ug/L | 34 | 22 | 22 |
| " | Susp.P | ug/L | 5 | 3 | 3 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | 21 | 8 | 8 |
| " | CO ₂ | uM/L | 31.0 | 39.0 | 24.0 |
| " | pH | | 7.96 | 7.92 | 8.10 |
| " | Conduct. | uS/cm | 162 | 164 | 164 |
| " | Chlorine | ug/L | 538.4 | 58.1 | <1.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Jul. 3/86 | Nitrate | ug/L | 6 | 95 | 98 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 10 | 10 | 10 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 420 | 410 | 380 |
| " | TDP | ug/L | 21 | 17 | 17 |
| " | DIC | uM/L | 1480 | 1500 | 1290 |
| " | DOC | uM/L | 620 | 640 | 550 |

Date Cations

| | | | | | |
|-----------|-----------|------|------|------|------|
| Jul. 3/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 10.0 | 2.1 | 3.0 |
| " | Iron | ug/L | 42 | 23 | 26 |
| " | Aluminium | ug/L | 10.0 | 4.3 | 4.6 |
| " | Copper | ug/L | 0.6 | 0.3 | 0.4 |
| " | Zinc | ug/L | 0.2 | 0.1 | 0.1 |

Date Other Constituents

| | | | | | |
|-----------|-----------------|-------|-------|------|------|
| Jul. 3/86 | Susp.C | ug/L | 280 | 140 | 160 |
| " | Susp.N | ug/L | 39 | 20 | 22 |
| " | Susp.P | ug/L | 5 | 3 | 3 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | 23 | 7 | 9 |
| " | CO ₂ | uM/L | 39.0 | 74.0 | 24.0 |
| " | pH | | 7.90 | 7.62 | 8.05 |
| " | Conduct. | uS/cm | 158 | 160 | 160 |
| " | Chlorine | ug/L | 443.2 | 54.2 | <1.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Jul.10/86 | Nitrate | ug/L | 5 | 92 | 92 |
| " | Nitrite | ug/L | <1 | <1 | 1 |
| " | Ammonia | ug/L | 30 | 20 | 20 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 390 | 360 | 390 |
| " | TDP | ug/L | 19 | 16 | 17 |
| " | DIC | uM/L | 1400 | 1300 | 1290 |
| " | DOC | uM/L | 620 | 470 | 470 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| Jul.10/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 9.2 | 2.0 | 2.0 |
| " | Iron | ug/L | 48 | 25 | 22 |
| " | Aluminium | ug/L | 11.0 | 4.6 | 4.2 |
| " | Copper | ug/L | 1.0 | 0.3 | 0.3 |
| " | Zinc | ug/L | 0.1 | 0.1 | <0.1 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|------|------|
| Jul.10/86 | Susp.C | ug/L | 310 | 160 | 150 |
| " | Susp.N | ug/L | 44 | 24 | 23 |
| " | Susp.P | ug/L | 5 | 3 | 3 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | 24 | 8 | 10 |
| " | CO2 | uM/L | 26.0 | 51.0 | 23.0 |
| " | pH | | 8.06 | 7.73 | 8.08 |
| " | Conduct. | uS/cm | 158 | 159 | 158 |
| " | Chlorine | ug/L | 352.0 | 40.4 | <1.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Jul.17/86 | Nitrate | ug/L | 7 | 88 | 88 |
| " | Nitrite | ug/L | <1 | <1 | 1 |
| " | Ammonia | ug/L | 20 | 10 | 20 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 450 | 390 | 400 |
| " | TDP | ug/L | 18 | 14 | 14 |
| " | DIC | uM/L | 1310 | 1490 | 1380 |
| " | DOC | uM/L | 720 | 540 | 500 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| Jul.17/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 10.0 | 1.7 | 1.7 |
| " | Iron | ug/L | 52 | 20 | 19 |
| " | Aluminium | ug/L | 8.5 | 3.3 | 4.1 |
| " | Copper | ug/L | 1.0 | 0.3 | 0.4 |
| " | Zinc | ug/L | 0.2 | <0.1 | 0.4 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|------|------|
| Jul.17/86 | Susp.C | ug/L | 430 | 160 | 170 |
| " | Susp.N | ug/L | 64 | 18 | 20 |
| " | Susp.P | ug/L | 7 | 3 | 3 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | 32 | 7 | 8 |
| " | CO2 | uM/L | 34.0 | 65.0 | 27.0 |
| " | pH | | 7.91 | 7.68 | 8.03 |
| " | Conduct. | uS/cm | 158 | 160 | 161 |
| " | Chlorine | ug/L | 590.9 | 57.6 | <1.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Jul.24/86 | Nitrate | ug/L | 8 | 94 | 78 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 40 | 50 | 40 |
| " | Chloride | mg/L | **.* | **.+ | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 460 | 420 | 440 |
| " | TDP | ug/L | 20 | 18 | 17 |
| " | DIC | uM/L | 1350 | 1260 | 1240 |
| " | DOC | uM/L | 660 | 690 | 600 |

| Date | Cations | | | |
|-----------|-----------|------|------|------|
| Jul.24/86 | Sodium | mg/L | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** |
| " | Manganese | ug/L | 12.0 | 2.6 |
| " | Iron | ug/L | 46 | 22 |
| " | Aluminium | ug/L | 10.0 | 5.2 |
| " | Copper | ug/L | 1.1 | 0.4 |
| " | Zinc | ug/L | 0.1 | 0.1 |

| Date | Other Constituents | | | |
|-----------|--------------------|-------|-------|------|
| Jul.24/86 | Susp.C | ug/L | 330 | 180 |
| " | Susp.N | ug/L | 57 | 32 |
| " | Susp.P | ug/L | 7 | 4 |
| " | TSS | mg/L | ★★ | ★★ |
| " | Susp.Fe | ug/L | 28 | 9 |
| " | CO2 | uM/L | 99.0 | 36.0 |
| " | pH | | 7.44 | 7.87 |
| " | Conduct. | uS/cm | 158 | 155 |
| " | Chlorine | ug/L | 363.9 | 80.1 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Jul.31/86 | Nitrate | ug/L | 12 | 100 | 104 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 20 | 40 | 20 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 460 | 430 | 430 |
| " | TDP | ug/L | 19 | 16 | 16 |
| " | DIC | uM/L | 1490 | 1540 | 1480 |
| " | DOC | uM/L | 750 | 560 | 520 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| Jul.31/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 15.0 | 2.7 | 4.2 |
| " | Iron | ug/L | 49 | 19 | 23 |
| " | Aluminium | ug/L | 9.5 | 4.9 | 3.9 |
| " | Copper | ug/L | 0.9 | 0.2 | 0.5 |
| " | Zinc | ug/L | 0.1 | 0.1 | 0.3 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|------|------|
| Jul.31/86 | Susp.C | ug/L | 380 | 190 | 210 |
| " | Susp.N | ug/L | 58 | 24 | 31 |
| " | Susp.P | ug/L | 5 | 3 | 4 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | 27 | 15 | 14 |
| " | CO2 | uM/L | 28.0 | 29.0 | 24.0 |
| " | pH | | 8.05 | 8.06 | 8.11 |
| " | Conduct. | uS/cm | 158 | 160 | 161 |
| " | Chlorine | ug/L | 367.2 | 8.8 | <1.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Aug. 7/86 | Nitrate | ug/L | 9 | 101 | 103 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 10 | 10 | 10 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 490 | 440 | 450 |
| " | TDP | ug/L | 17 | 16 | 17 |
| " | DIC | uM/L | 1470 | 1540 | 1430 |
| " | DOC | uM/L | 730 | 560 | 620 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| Aug. 7/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 18.0 | 3.4 | 3.7 |
| " | Iron | ug/L | 63 | 25 | 25 |
| " | Aluminium | ug/L | 7.7 | 4.3 | 4.3 |
| " | Copper | ug/L | 1.0 | 0.3 | 0.4 |
| " | Zinc | ug/L | 0.2 | 0.1 | 0.7 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|------|------|
| Aug. 7/86 | Susp.C | ug/L | 430 | 200 | 210 |
| " | Susp.N | ug/L | 67 | 25 | 25 |
| " | Susp.P | ug/L | 7 | 3 | 4 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | 37 | 9 | 9 |
| " | CO2 | uM/L | 49.0 | 113 | 42.0 |
| " | pH | | 7.80 | 7.44 | 7.86 |
| " | Conduct. | uS/cm | 160 | 160 | 160 |
| " | Chlorine | ug/L | 259.7 | 15.9 | <1.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Aug.14/86 | Nitrate | ug/L | 13 | 103 | 106 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 40 | 20 | 30 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 500 | 430 | 420 |
| " | TDP | ug/L | 21 | 15 | 16 |
| " | DIC | uM/L | 1540 | 1520 | 1450 |
| " | DOC | uM/L | 730 | 530 | 590 |

Date Cations

| | | | | | |
|-----------|-----------|------|------|------|------|
| Aug.14/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 23 | 4.2 | 4.0 |
| " | Iron | ug/L | 73 | 28 | 28 |
| " | Aluminium | ug/L | 10 | 3.4 | 3.4 |
| " | Copper | ug/L | NS | NS | NS |
| " | Zinc | ug/L | 0.2 | 0.1 | 0.2 |

Date Other Constituents

| | | | | | |
|-----------|-----------------|-------|-------|------|------|
| Aug.14/86 | Susp.C | ug/L | 470 | 200 | 190 |
| " | Susp.N | ug/L | 80 | 31 | 30 |
| " | Susp.P | ug/L | 7 | 3 | 3 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | 43 | 9 | 10 |
| " | CO ₂ | uM/L | **.* | **.* | **.* |
| " | pH | | 8.05 | 7.97 | 8.09 |
| " | Conduct. | uS/cm | 158 | 161 | 160 |
| " | Chlorine | ug/L | 251.6 | 12.1 | <1.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|------------|----------|------|-----------|-----------|-----------|
| Aug. 21/86 | Nitrate | ug/L | 8 | 90 | 92 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 20 | 30 | 40 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 480 | 450 | 480 |
| " | TDP | ug/L | 18 | 15 | 16 |
| " | DIC | uM/L | **** | **** | **** |
| " | DOC | uM/L | *** | *** | *** |

| Date | Cations | | | | |
|------------|-----------|------|------|------|------|
| Aug. 21/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 21 | 3.3 | 3.2 |
| " | Iron | ug/L | 72 | 24 | 25 |
| " | Aluminium | ug/L | 7.4 | 3.6 | 2.8 |
| " | Copper | ug/L | 1.0 | 0.3 | 0.2 |
| " | Zinc | ug/L | 0.1 | <0.1 | <0.1 |

| Date | Other Constituents | | | | |
|------------|--------------------|-------|-------|------|------|
| Aug. 21/86 | Susp.C | ug/L | 530 | 280 | 250 |
| " | Susp.N | ug/L | 89 | 41 | 39 |
| " | Susp.P | ug/L | 8 | 4 | 4 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | 42 | 10 | 10 |
| " | CO ₂ | uM/L | **.* | **.* | **.* |
| " | pH | | 7.83 | 7.70 | 8.00 |
| " | Conduct. | uS/cm | 159 | 159 | 159 |
| " | Chlorine | ug/L | 252.0 | 15.0 | <1.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|------------|----------|------|-----------|-----------|-----------|
| Aug. 28/86 | Nitrate | ug/L | 10 | 86 | 87 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 10 | 10 | 20 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 530 | 460 | 470 |
| " | TDP | ug/L | 23 | 18 | 19 |
| " | DIC | uM/L | ***** | ***** | ***** |
| " | DOC | uM/L | *** | *** | *** |

| Date | Cations | | | | |
|------------|-----------|------|------|------|------|
| Aug. 28/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 22 | 3.3 | 3.2 |
| " | Iron | ug/L | 74 | 26 | 25 |
| " | Aluminium | ug/L | 8.0 | 2.4 | 2.4 |
| " | Copper | ug/L | 0.8 | 0.2 | 0.2 |
| " | Zinc | ug/L | <0.1 | <0.1 | <0.1 |

| Date | Other Constituents | | | | |
|------------|--------------------|-------|-------|------|------|
| Aug. 28/86 | Susp.C | ug/L | 570 | 250 | 240 |
| " | Susp.N | ug/L | 93 | 39 | 37 |
| " | Susp.P | ug/L | 9 | 4 | 4 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | 47 | 8 | 8 |
| " | CO ₂ | uM/L | **.* | **.* | **.* |
| " | pH | | 7.84 | 7.51 | 7.95 |
| " | Conduct. | uS/cm | 162 | 163 | 162 |
| " | Chlorine | ug/L | 257.1 | 18.5 | <1.0 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Sep. 4/86 | Nitrate | ug/L | 8 | 74 | 75 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 10 | 10 | 20 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 510 | 450 | 460 |
| " | TDP | ug/L | 18 | 14 | 17 |
| " | DIC | uM/L | 1380 | 1320 | 1290 |
| " | DOC | uM/L | 700 | 580 | 570 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| Sep. 4/86 | Sodium | mg/L | *.** | *.** | |
| " | Potassium | mg/L | *.** | *.** | |
| " | Calcium | mg/L | **.* | **.* | |
| " | Magnesium | mg/L | *.** | *.** | |
| " | Manganese | ug/L | 24 | 5.1 | 4.9 |
| " | Iron | ug/L | 68 | 28 | 27 |
| " | Aluminium | ug/L | 7.8 | 3.0 | 3.4 |
| " | Copper | ug/L | 0.8 | 0.3 | 0.3 |
| " | Zinc | ug/L | <0.1 | <0.1 | <0.1 |

| Date | Other Constituents | | | |
|-----------|--------------------|-------|-------|------|
| Sep. 4/86 | Susp.C | ug/L | 600 | 260 |
| " | Susp.N | ug/L | 78 | 33 |
| " | Susp.P | ug/L | 10 | 5 |
| " | TSS | mg/L | ** | ** |
| " | Susp.Fe | ug/L | ** | ** |
| " | CO ₂ | uM/L | **.* | **.* |
| " | pH | | 8.06 | 7.96 |
| " | Conduct. | uS/cm | 160 | 162 |
| " | Chlorine | ug/L | 397.2 | 79.3 |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Sep.11/86 | Nitrate | ug/L | 11 | 84 | 86 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 10 | 10 | 10 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 520 | 450 | 460 |
| " | TDP | ug/L | 17 | 17 | 17 |
| " | DIC | uM/L | 1220 | 1260 | 1250 |
| " | DOC | uM/L | 740 | 520 | 530 |

Date Cations

| | | | | | |
|-----------|-----------|------|------|------|------|
| Sep.11/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 23 | 4.0 | 3.8 |
| " | Iron | ug/L | 68 | 24 | 24 |
| " | Aluminium | ug/L | 9.2 | 4.0 | 3.6 |
| " | Copper | ug/L | 0.8 | 0.2 | 0.2 |
| " | Zinc | ug/L | <0.1 | <0.1 | <0.1 |

Date Other Constituents

| | | | | | |
|-----------|----------|-------|-------|------|-------|
| Sep.11/86 | Susp.C | ug/L | 620 | 220 | 230 |
| " | Susp.N | ug/L | 76 | 25 | 24 |
| " | Susp.P | ug/L | 11 | 5 | 5 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | ** | ** | ** |
| " | CO2 | uM/L | **.* | **.* | **.* |
| " | pH | | 8.15 | 8.09 | 8.18 |
| " | Conduct. | uS/cm | 159 | 161 | 161 |
| " | Chlorine | ug/L | ***.* | **.* | <.*.* |

Concentration of Metals (Cations), Anions and Other Constituents
in FWI Water Supply.

| Date | Anions | | Station 1 | Station 4 | Station 9 |
|-----------|----------|------|-----------|-----------|-----------|
| Sep.18/86 | Nitrate | ug/L | 7 | 67 | 68 |
| " | Nitrite | ug/L | <1 | <1 | <1 |
| " | Ammonia | ug/L | 10 | 30 | 20 |
| " | Chloride | mg/L | **.* | **.* | **.* |
| " | Sulphate | mg/L | **.* | **.* | **.* |
| " | TDN | ug/L | 510 | 450 | 450 |
| " | TDP | ug/L | 17 | 15 | 16 |
| " | DIC | uM/L | 980 | 1000 | 900 |
| " | DOC | uM/L | 710 | 570 | 540 |

| Date | Cations | | | | |
|-----------|-----------|------|------|------|------|
| Sep.18/86 | Sodium | mg/L | *.** | *.** | *.** |
| " | Potassium | mg/L | *.** | *.** | *.** |
| " | Calcium | mg/L | **.* | **.* | **.* |
| " | Magnesium | mg/L | *.** | *.** | *.** |
| " | Manganese | ug/L | 22 | 5.6 | 6.2 |
| " | Iron | ug/L | 69 | 31 | 33 |
| " | Aluminium | ug/L | 9.0 | 5.0 | 6.1 |
| " | Copper | ug/L | 0.8 | 0.2 | 0.5 |
| " | Zinc | ug/L | 0.1 | <0.1 | <0.1 |

| Date | Other Constituents | | | | |
|-----------|--------------------|-------|-------|-------|------|
| Sep.18/86 | Susp.C | ug/L | *** | *** | *** |
| " | Susp.N | ug/L | ** | ** | ** |
| " | Susp.P | ug/L | 10 | 5 | 6 |
| " | TSS | mg/L | ** | ** | ** |
| " | Susp.Fe | ug/L | ** | ** | ** |
| " | CO2 | uM/L | **.* | **.* | **.* |
| " | pH | | 8.16 | 8.13 | 8.20 |
| " | Conduct. | uS/cm | 162 | 163 | 163 |
| " | Chlorine | ug/L | ***.* | ***.* | <.* |

Appendix 2. Daily chlorine concentrations.

| Chlorine values | | | | |
|-----------------|-------------|--------------|-------|-------|
| | sample site | abs. reading | blank | ug/L |
| 14/08/85 | 1 (AM) | .284 | .028 | 288.1 |
| | 2 | .073 | .003 | 99.0 |
| | 3 | .032 | .002 | 58.4 |
| 15/08/85 | 1 (AM) | .443 | .011 | 467.0 |
| | 2 | .191 | .006 | 215.9 |
| | 3 | .004 | .004 | 27.9 |
| 16/08/85 | 1 (AM) | .503 | .009 | 530.0 |
| | 2 | .222 | .004 | 249.5 |
| | 3 | .003 | .003 | 27.9 |
| 19/08/85 | 1 (AM) | .444 | .009 | 470.0 |
| | 2 | .247 | .002 | 276.9 |
| | 3 | .001 | .002 | 26.9 |
| 21/08/85 | 1 (AM) | .370 | .016 | 387.7 |
| | 2 | .288 | .003 | 317.6 |
| | 3 | .695 | .029 | 84.8 |
| | 4 | .096 | .030 | 7.7 |
| | 5 | .028 | .023 | 0 |
| | 6 | .029 | .022 | .2 |
| | 7 | .089 | .069 | 1.8 |
| | 8 | .020 | .020 | 0 |
| | 9 (AM) | .026 | .024 | 0 |
| | 10 | .026 | .024 | 0 |
| 22/08/85 | 1 (AM) | .600 | .021 | 616.4 |
| | 4 | .096 | .036 | 7.0 |
| | 9 (AM) | .031 | .024 | .2 |
| 29/08/85 | 1 (AM) | .502 | .005 | 533.0 |
| | 4 | .128 | .028 | 12.1 |
| | 9 (AM) | .048 | .042 | .03 |
| 30/08/85 | 9 (AM) | .111 | .042 | 8.1 |

Chlorine values
=====

| | sample site | abs. reading | blank | ug/L |
|----------|-------------|--------------|-------|-------|
| 3/09/85 | 9 (AM) | .032 | .0185 | .99 |
| 4/09/85 | 9 (AM) | .05 | .022 | 2.9 |
| 5/09/85 | 1 (AM) | .449 | .010 | 474.1 |
| | 4 | .131 | .021 | 13.4 |
| | 9 (AM) | .018 | .017 | 0 |
| 6/09/85 | 9 (AM) | .058 | .0265 | 3.3 |
| 9/09/85 | 9 (AM) | .047 | .021 | 2.6 |
| | 9 (PM) | .064 | .026 | 4.1 |
| 10/09/85 | 9 (AM) | .040 | .018 | 2.1 |
| | 9 (PM) | .048 | .020 | 2.9 |
| 11/09/85 | 9 (AM) | .040 | .019 | 2.0 |
| | 9 (PM) | .038 | .017 | 2.0 |
| 12/09/85 | 1 (AM) | .466 | .012 | 489.3 |
| | 4 | .080 | .021 | 6.8 |
| | 9 (AM) | .056 | .028 | 2.9 |
| | 9 (PM) | .038 | .018 | 1.8 |
| | ANNEX (PM) | .044 | .024 | 1.8 |
| 13/09/85 | 9 (AM) | .035 | .016 | 1.7 |
| | 9 (PM) | .054 | .026 | 2.9 |
| | ANNEX (PM) | .061 | .031 | 3.1 |

Chlorine values
=====

| | sample site | abs. reading | blank | ug/L |
|----------|----------------|--------------|-------|-------|
| 16/09/85 | 9 (AM) | .043 | .017 | 2.6 |
| | 9 (PM) | .064 | .024 | 4.4 |
| | ANNEX (PM) | .069 | .030 | 4.3 |
| 17/09/85 | 9 (AM) | .063 | .021 | 4.7 |
| | 9 (PM) | .056 | .022 | 3.6 |
| | ANNEX (PM) | .058 | .026 | 3.4 |
| 18/09/85 | 9 (AM) | .048 | .0217 | 2.7 |
| | 9 (PM) | .073 | .026 | 5.3 |
| | ANNEX (PM) | .078 | .032 | 5.2 |
| 19/09/85 | 1 (AM) | .284 | .006 | 310.4 |
| | 4 | .102 | .028 | 8.8 |
| | 9 (AM) | .074 | .022 | 5.9 |
| | 9 (PM) 1540hrs | .309 | .033 | 34.7 |
| | ANNEX (PM) | .363 | .040 | 40.8 |
| | 4 (1610 hrs) | .182 | .028 | 19.0 |
| | 1640 hrs | .162 | .031 | 16.1 |
| | 1826 hrs | .070 | .024 | 5.2 |
| 20/09/85 | 9 (AM) | .054 | .021 | 3.5 |
| | 9 (PM) | .048 | .020 | 2.9 |
| | ANNEX (PM) | .053 | .026 | 2.7 |
| 23/09/85 | 9 (AM) | .038 | .019 | 1.7 |
| | 9 (PM) | .044 | .019 | 2.5 |
| | ANNEX (PM) | .047 | .024 | 2.2 |
| 24/09/85 | 9 (AM) | .039 | .018 | 2.0 |
| | 9 (PM) | .063 | .026 | 4.0 |
| | ANNEX (PM) | .070 | .032 | 4.1 |
| 25/09/85 | 9 (AM) | .020 | .019 | 0.0 |
| | 9 (PM) | .019 | .019 | 0.0 |
| | ANNEX (PM) | .024 | .024 | 0.0 |
| 26/09/85 | 1 (AM) | .322 | .014 | 340.9 |
| | 4 | .100 | .024 | 9.0 |
| | 9 (AM) | .019 | .018 | 0.0 |
| | 9 (PM) | .054 | .017 | 5.0 |
| | ANNEX (PM) | .056 | .022 | 4.6 |
| 27/09/85 | 9 (AM) | .017 | .016 | 0.6 |
| | 9 (PM) | .016 | .016 | 0.5 |
| | ANNEX (PM) | .023 | .022 | 0.6 |

Chlorine values
=====

| | sample site | abs. reading | blank | ug/L |
|----------|-------------|--------------|-------|-------|
| 30/09/85 | 1 (AM) | .313 | .006 | 327.5 |
| | 9 (AM) | .017 | .016 | 0.6 |
| | 1 (PM) | .467 | .004 | 485.0 |
| | 9 (PM) | .020 | .018 | 0.7 |
| 1/10/85 | 1 (AM) | .313 | .005 | 328.5 |
| | 9 (AM) | .020 | .018 | 0.7 |
| | 1 (PM) | .459 | .007 | 473.9 |
| | 9 (PM) | .074 | .023 | 6.7 |
| 2/10/85 | 1 (AM) | .378 | .006 | 393.1 |
| | 4 | .183 | .023 | 20.1 |
| | 9 (AM) | .078 | .019 | 7.7 |
| | 1 (PM) | .470 | .008 | 484.0 |
| | 9 (PM) | .071 | .024 | 6.2 |
| 3/10/85 | 1 (AM) | .363 | .007 | 377.0 |
| | 4 | .119 | .023 | 12.2 |
| | 9 (AM) | .038 | .019 | 2.8 |
| | 1 (PM) | .522 | .009 | 535.5 |
| | 9 (PM) | .024 | .021 | 0.8 |
| 4/10/85 | 1 (AM) | .459 | .006 | 474.9 |
| | 9 (AM) | .048 | .040 | 1.4 |
| | 1 (PM) | .455 | .006 | 470.9 |
| | 9 (PM) | .069 | .052 | 2.6 |
| 7/10/85 | 1 (AM) | .370 | .018 | 371.9 |
| | 9 (AM) | .019 | .012 | 1.3 |
| | 1 (PM) | .510 | .028 | 504.2 |
| | 9 (PM) | .051 | .016 | 4.8 |
| 8/10/85 | 1 (AM) | .425 | .039 | 407.3 |
| | 9 (AM) | .033 | .020 | 2.1 |
| | 1 (PM) | .503 | .046 | 479.0 |
| | 9 (PM) | .030 | .022 | 1.4 |
| 9/10/85 | 1 (AM) | .365 | .070 | 315.4 |
| | 9 (AM) | .031 | .021 | 1.7 |
| | 1 (PM) | .538 | .091 | 468.9 |
| | 9 (PM) | .032 | .020 | 1.9 |
| 10/10/85 | 1 (AM) | .494 | .166 | 348.7 |
| | 4 | .137 | .022 | 14.6 |
| | 9 (AM) | .028 | .020 | 1.4 |
| | 1 (PM) | .635 | .170 | 487.1 |
| | 9 (PM) | .070 | .030 | 5.4 |
| 11/10/85 | 1 (AM) | .615 | .272 | 363.9 |
| | 9 (AM) | .063 | .023 | 5.4 |
| | 1 (PM) | .460 | .006 | 475.9 |
| | 9 (PM) | .065 | .022 | 5.7 |

Chlorine values
=====

| | sample site | abs. reading | blank | ug/L |
|----------|-------------|--------------|-------|-------|
| 15/10/85 | 1 (AM) | .402 | .004 | 419.4 |
| | 9 (AM) | .061 | .021 | 5.4 |
| | 1 (PM) | .560 | .008 | 574.9 |
| | 9 (PM) | .071 | .031 | 5.4 |
| 16/10/85 | 1 (AM) | .530 | .006 | 546.6 |
| | 9 (AM) | .061 | .023 | 5.1 |
| | 1 (PM) | .629 | .006 | 646.6 |
| | 9 (PM) | .058 | .023 | 4.8 |
| 17/10/85 | 1 (AM) | .582 | .005 | 600.1 |
| | 4 | .203 | .028 | 21.9 |
| | 9 (AM) | .066 | .026 | 5.4 |
| | 1 (PM) | .739 | .005 | 785.7 |
| | 9 (PM) | .060 | .026 | 5.4 |
| 18/10/85 | 1 (AM) | .642 | .012 | 653.7 |
| | 9 (AM) | .069 | .035 | 4.6 |
| | 1 (PM) | .669 | .007 | 688.7 |
| | 9 (PM) | .078 | .030 | 5.7 |
| 21/10/85 | 1 (AM) | .570 | .007 | 587.4 |
| | 9 (AM) | .074 | .026 | 5.7 |
| | 1 (PM) | .713 | .005 | 735.7 |
| | 9 (PM) | .080 | .030 | 6.0 |
| 22/10/85 | 1 (AM) | .675 | .006 | 695.8 |
| | 9 (AM) | .074 | .029 | 5.4 |
| | 1 (PM) | .700 | .007 | 720.4 |
| | 9 (PM) | .077 | .030 | 5.6 |
| 23/10/85 | 1 (AM) | .628 | .005 | 648.7 |
| | 9 (AM) | .077 | .029 | 5.7 |
| | 1 (PM) | .653 | .006 | 673.3 |
| | 9 (PM) | .075 | .030 | 5.4 |
| 24/10/85 | 1 (AM) | .513 | .006 | 530.1 |
| | 4 | .202 | .037 | 20.1 |
| | 9 (AM) | .074 | .031 | 5.1 |

Chlorine values
=====

| | sample site | abs. reading | blank | ug/L |
|----------|-------------|--------------|-------|-------|
| 28/10/85 | 1 (AM) | .800 | .006 | 829.7 |
| | 9 (AM) | .082 | .028 | 4.5 |
| | 1 (PM) | .660 | .007 | 686.4 |
| | 9 (PM) | .090 | .031 | 5.1 |
| 29/10/85 | 1 (AM) | .496 | .006 | 520.7 |
| | 9 (AM) | .077 | .028 | 4.0 |
| | 1 (PM) | .540 | .008 | 563.4 |
| | 9 (PM) | .076 | .028 | 3.9 |
| 30/10/85 | 1 (AM) | .438 | .008 | 459.7 |
| | 9 (AM) | .074 | .029 | 3.6 |
| | 1 (PM) | .492 | .009 | 513.6 |
| | 9 (PM) | .073 | .029 | 3.5 |
| 31/10/85 | 1 (AM) | .485 | .007 | 508.5 |
| | 4 | .202 | .033 | 16.7 |
| | 9 (AM) | .089 | .033 | 4.8 |
| | 1 (PM) | .489 | .005 | 514.6 |
| | 9 (PM) | .077 | .028 | 4.0 |
| 1/11/85 | 1 (AM) | .532 | .005 | 558.3 |
| | 9 (AM) | .080 | .021 | 5.1 |
| | 1 (PM) | .480 | .006 | 504.4 |
| | 9 (PM) | .123 | .028 | 8.9 |
| 4/11/85 | 1 (AM) | .514 | .008 | 536.9 |
| | 9 (AM) | .070 | .022 | 3.9 |
| | 1 (PM) | .565 | .007 | 589.8 |
| | 9 (PM) | .137 | .025 | 10.7 |
| 5/11/85 | 1 (AM) | .474 | .006 | 498.3 |
| | 9 (AM) | .130 | .025 | 9.9 |
| | 1 (PM) | .478 | .006 | 502.4 |
| | 9 (PM) | .148 | .023 | 12.0 |
| 7/11/85 | 1 (AM) | .435 | .006 | 458.7 |
| | 4 | .201 | .031 | 16.8 |
| | 9 (AM) | .080 | .022 | 5.0 |
| | 1 (PM) | .541 | .006 | 566.4 |
| | 9 (PM) | .187 | .024 | 16.1 |
| 8/11/85 | 1 (AM) | .485 | .007 | 508.5 |
| | 9 (AM) | .140 | .026 | 10.9 |
| | 1 (PM) | .530 | .006 | 555.2 |
| | 9 (PM) | .158 | .041 | 11.2 |

Chlorine values
=====

| | sample site | abs. reading | blank | ug/L |
|----------|-------------|--------------|-------|-------|
| 12/11/85 | 1 (AM) | .544 | .006 | 569.5 |
| | 9 (AM) | .160 | .026 | 13.0 |
| | 1 (PM) | .600 | .006 | 626.4 |
| | 9 (PM) | .105 | .023 | 7.5 |
| 13/11/85 | 1 (AM) | .540 | .004 | 567.4 |
| | 9 (AM) | .125 | .024 | 9.5 |
| | 1 (PM) | .675 | .005 | 703.7 |
| | 9 (PM) | .222 | .024 | 19.8 |
| 14/11/85 | 1 (AM) | .523 | .007 | 547.1 |
| | 4 | .340 | .030 | 31.6 |
| | 9 (AM) | .131 | .021 | 10.5 |
| | 1 (PM) | .610 | .004 | 638.6 |
| | 9 (PM) | .206 | .013 | 19.2 |
| 15/11/85 | 1 (AM) | .530 | .006 | 555.2 |
| | 9 (AM) | .143 | .024 | 11.4 |
| | 1 (PM) | .605 | .009 | 628.4 |
| | 9 (PM) | .141 | .036 | 9.9 |
| 18/11/85 | 1 (AM) | .530 | .008 | 553.2 |
| | 9 (AM) | .087 | .025 | 5.4 |
| | 1 (PM) | .639 | .008 | 664.0 |
| | 9 (PM) | .098 | .027 | 6.3 |
| 20/11/85 | 1 (AM) | .656 | .005 | 684.3 |
| | 9 (AM) | .089 | .023 | 5.8 |
| | 1 (PM) | .640 | .004 | 669.1 |
| | 9 (PM) | .096 | .023 | 6.6 |
| 21/11/85 | 1 (AM) | .628 | .006 | 654.9 |
| | 4 | .313 | .037 | 28.0 |
| | 9 (AM) | .096 | .026 | 6.2 |
| | 1 (PM) | .620 | .006 | 646.7 |
| | 9 (PM) | .121 | .028 | 8.7 |
| 22/11/85 | 1 (AM) | .524 | .006 | 549.1 |
| | 9 (AM) | .111 | .025 | 7.9 |
| | 1 (PM) | .643 | .004 | 672.1 |
| | 9 (PM) | .097 | .027 | 6.2 |

Chlorine values
=====

| | sample site | abs. reading | blank | ug/L |
|----------|-------------|--------------|-------|-------|
| 25/11/85 | 1 (AM) | .480 | .004 | 506.4 |
| | 9 (AM) | .101 | .023 | 7.1 |
| | 1 (PM) | .578 | .005 | 605.1 |
| | 9 (PM) | .117 | .024 | 8.7 |
| 26/11/85 | 1 (AM) | .447 | .005 | 471.9 |
| | 9 (AM) | .098 | .023 | 6.8 |
| | 1 (PM) | .575 | .007 | 600.0 |
| | 9 (PM) | .107 | .024 | 7.6 |
| 27/11/85 | 1 (AM) | .418 | .005 | 442.4 |
| | 9 (AM) | .103 | .021 | 7.5 |
| | 1 (PM) | .539 | .010 | 560.3 |
| | 9 (PM) | .116 | .022 | 8.8 |
| 28/11/85 | 1 (AM) | .396 | .004 | 421.0 |
| | 4 | .290 | .027 | 26.6 |
| | 9 (AM) | .108 | .023 | 7.8 |
| | 1 (PM) | .512 | .005 | 538.0 |
| | 9 (PM) | .131 | .028 | 9.7 |
| 29/11/85 | 1 (AM) | .345 | .006 | 367.2 |
| | 9 (AM) | .102 | .023 | 7.2 |
| | 1 (PM) | .452 | .003 | 479.0 |
| | 9 (PM) | .137 | .031 | 10.0 |
| 2/12/85 | 1 (AM) | .343 | .006 | 367.2 |
| | 9 (AM) | .178 | .032 | 14.3 |
| | 1 (PM) | .500 | .004 | 530.6 |
| | 9 (PM) | .169 | .033 | 13.2 |
| 3/12/85 | 1 (AM) | .470 | .004 | 499.7 |
| | 9 (AM) | .173 | .029 | 14.1 |
| | 1 (PM) | .645 | .005 | 678.6 |
| | 9 (PM) | .178 | .029 | 14.6 |
| 4/12/85 | 1 (AM) | .613 | .006 | 644.7 |
| | 9 (AM) | .202 | .033 | 16.7 |
| | 1 (PM) | .708 | .007 | 741.3 |
| | 9 (PM) | .220 | .029 | 19.1 |
| 5/12/85 | 1 (AM) | .438 | .007 | 463.8 |
| | 4 | .393 | .030 | 37.3 |
| | 9 (AM) | .211 | .032 | 17.8 |
| | 1 (PM) | .461 | .004 | 490.5 |
| | 9 (PM) | .209 | .026 | 18.2 |
| 6/12/85 | 1 (AM) | .317 | .006 | 340.4 |
| | 9 (AM) | .203 | .028 | 17.4 |
| | 1 (PM) | .400 | .004 | 427.8 |
| | 9 (PM) | .205 | .028 | 17.6 |

Chlorine values
=====

| | sample site | abs. reading | blank | ug/L |
|----------|-------------|--------------|-------|-------|
| 9/12/85 | 1 (AM) | .116 | .003 | 136.9 |
| | 9 (AM) | .168 | .025 | 13.9 |
| | 1 (PM) | .270 | .003 | 295.2 |
| | 9 (PM) | .137 | .028 | 10.3 |
| 10/12/85 | 1 (AM) | .206 | .003 | 229.4 |
| | 9 (AM) | .157 | .026 | 12.7 |
| | 1 (PM) | .299 | .003 | 325.0 |
| | 9 (PM) | .145 | .029 | 11.1 |
| 11/12/85 | 1 (AM) | .191 | .008 | 208.9 |
| | 9 (AM) | .128 | .026 | 9.6 |
| | 1 (PM) | .287 | .005 | 310.6 |
| | 9 (PM) | .131 | .025 | 10.0 |
| 12/12/85 | 1 (AM) | .176 | .004 | 197.6 |
| | 4 | .303 | .022 | 28.6 |
| | 9 (AM) | .127 | .022 | 9.9 |
| | 1 (PM) | .280 | .004 | 304.5 |
| | 9 (PM) | .138 | .026 | 10.6 |
| 13/12/85 | 1 (AM) | .161 | .008 | 178.0 |
| | 3 (AM) | .074 | .005 | 91.7 |
| | 9 (AM) | .131 | .024 | 10.1 |
| | 1 (PM) | .292 | .004 | 316.8 |
| | 3 (PM) | .118 | .006 | 135.9 |
| | 9 (PM) | .139 | .025 | 10.9 |

Chlorine values
=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| <hr/> | | | |
| 16/12/85 | | | |
| 1 (AM) | .145 | .011 | 158.5 |
| 3 (AM) | .082 | .006 | 98.9 |
| 4 (AM) | .347 | .024 | 33.1 |
| 9 (AM) | .173 | .023 | 14.7 |
| 1 (PM) | .283 | .004 | 307.5 |
| 3 (PM) | .121 | .006 | 139.0 |
| 4 (PM) | .302 | .025 | 28.2 |
| 9 (PM) | .138 | .024 | 10.9 |
| 18/12/85 | | | |
| 1 (AM) | .142 | .003 | 163.6 |
| 3 (AM) | .072 | .003 | 91.7 |
| 4 (AM) | .222 | .019 | 20.3 |
| 9 (AM) | .131 | .021 | 10.4 |
| 1 (PM) | .271 | .003 | 296.2 |
| 3 (PM) | .122 | .004 | 142.1 |
| 4 (PM) | .308 | .026 | 28.7 |
| 9 (PM) | .140 | .026 | 10.9 |
| 19/12/85 | | | |
| 1 (AM) | .165 | .005 | 185.2 |
| 3 (AM) | .078 | .004 | 96.8 |
| 4 (AM) | .302 | .024 | 28.3 |
| 9 (AM) | .157 | .027 | 12.6 |
| 1 (PM) | .238 | .006 | 259.2 |
| 3 (PM) | .100 | .005 | 118.4 |
| 4 (PM) | .315 | .026 | 29.5 |
| 9 (PM) | .138 | .025 | 10.8 |
| 20/12/85 | | | |
| 1 (AM) | .129 | .007 | 146.2 |
| 3 (AM) | .069 | .006 | 85.5 |
| 4 (AM) | .274 | .028 | 24.9 |
| 9 (AM) | .123 | .028 | 8.8 |
| 1 (PM) | .278 | .005 | 301.4 |
| 3 (PM) | .096 | .006 | 113.3 |
| 4 (AM) | .287 | .029 | 26.2 |
| 9 (PM) | .132 | .027 | 9.9 |
| 23/12/85 | | | |
| 1 (AM) | .130 | .005 | 149.2 |
| 3 (AM) | .070 | .005 | 87.9 |
| 4 (AM) | .252 | .028 | 22.6 |
| 9 (AM) | .121 | .025 | 8.9 |
| 1 (PM) | .242 | .003 | 266.4 |
| 3 (PM) | .108 | .004 | 127.7 |
| 4 (PM) | .307 | .029 | 28.3 |
| 9 (PM) | .148 | .026 | 11.7 |
| 24/12/85 | | | |
| 1 (AM) | .170 | .006 | 189.3 |
| 3 (AM) | .120 | .010 | 133.8 |
| 4 (AM) | .191 | .038 | 15.0 |
| 9 (AM) | .095 | .043 | 4.3 |
| 1 (PM) | .332 | .007 | 354.8 |
| 3 (PM) | .145 | .006 | 163.6 |
| 4 (PM) | .279 | .026 | 25.6 |
| 9 (PM) | .136 | .030 | 10.0 |

Chlorine values

=====

| | sample site | abs. reading | blank | ug/L |
|----------|-------------|--------------|-------|-------|
| | ===== | ===== | ===== | ===== |
| 27/12/85 | | | | |
| | 1 (AM) | .158 | .004 | 179.1 |
| | 3 (AM) | .075 | .004 | 93.7 |
| | 4 (AM) | .297 | .029 | 27.2 |
| | 9 (AM) | .144 | .028 | 11.1 |
| | 1 (PM) | .290 | .004 | 314.7 |
| | 3 (PM) | .111 | .004 | 130.7 |
| | 4 (PM) | .305 | .028 | 28.2 |
| | 9 (PM) | .144 | .025 | 11.4 |
| 30/12/85 | | | | |
| | 1 (AM) | .176 | .004 | 197.6 |
| | 3 (AM) | .089 | .004 | 108.1 |
| | 4 (AM) | .320 | .033 | 29.3 |
| | 9 (AM) | .153 | .026 | 12.2 |
| | 1 (PM) | .306 | .008 | 327.1 |
| | 3 (PM) | .168 | .006 | 187.3 |
| | 4 (PM) | .268 | .036 | 23.4 |
| | 9 (PM) | .125 | .038 | 8.0 |
| 31/12/85 | | | | |
| | 1 (AM) | .161 | .008 | 178.0 |
| | 3 (AM) | .077 | .005 | 94.8 |
| | 4 (AM) | .265 | .027 | 24.1 |
| | 9 (AM) | .130 | .024 | 10.0 |

Chlorine values

=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| ===== | ===== | ===== | ===== |
| 2/01/86 | | | |
| 1 (AM) | .148 | .005 | 164.3 |
| 3 (AM) | .083 | .004 | 99.5 |
| 4 (AM) | .316 | .028 | 29.7 |
| 9 (AM) | .150 | .025 | 12.6 |
| 1 (PM) | .283 | .003 | 303.2 |
| 3 (PM) | .110 | .005 | 125.8 |
| 4 (PM) | .260 | .033 | 23.3 |
| 9 (PM) | .138 | .040 | 9.7 |
| 3/01/86 | | | |
| 1 (AM) | .168 | .003 | 186.6 |
| 3 (AM) | .087 | .003 | 104.5 |
| 4 (AM) | .247 | .026 | 22.7 |
| 9 (AM) | .120 | .026 | 9.3 |
| 1 (PM) | .242 | .004 | 260.6 |
| 3 (PM) | .094 | .004 | 110.6 |
| 4 (PM) | .261 | .027 | 24.0 |
| 9 (PM) | .104 | .027 | 7.5 |

Chlorine values
=====

| | sample site | abs. reading | blank | ug/L |
|----------|-------------|--------------|-------|-------|
| | | | | |
| 6/01/86 | | | | |
| | 1 (AM) | .182 | .003 | 200.8 |
| | 3 (AM) | .082 | .004 | 98.4 |
| | 4 (AM) | .257 | .027 | 23.6 |
| | 9 (AM) | .113 | .024 | 8.8 |
| | 1 (PM) | .208 | .003 | 227.2 |
| | 3 (PM) | .134 | .004 | 151.1 |
| | 4 (PM) | .323 | .030 | 30.3 |
| | 9 (PM) | .150 | .030 | 12.1 |
| 7/01/86 | | | | |
| | 1 (AM) | .168 | .003 | 186.6 |
| | 3 (AM) | .068 | .003 | 86.3 |
| | 4 (AM) | .242 | .029 | 21.8 |
| | 9 (AM) | .105 | .027 | 7.6 |
| | 1 (PM) | .238 | .003 | 257.6 |
| | 3 (PM) | .097 | .004 | 113.6 |
| | 4 (PM) | .259 | .027 | 23.8 |
| | 9 (PM) | .109 | .025 | 8.3 |
| 8/01/86 | | | | |
| | 1 (AM) | .180 | .003 | 198.8 |
| | 3 (AM) | .072 | .003 | 89.3 |
| | 4 (AM) | .244 | .028 | 22.2 |
| | 9 (AM) | .108 | .026 | 8.1 |
| | 1 (PM) | .223 | .003 | 242.4 |
| | 3 (PM) | .092 | .002 | 110.6 |
| | 4 (PM) | .252 | .027 | 23.1 |
| | 9 (PM) | .115 | .027 | 8.7 |
| 9/01/86 | | | | |
| | 1 (AM) | .210 | .005 | 227.2 |
| | 3 (AM) | .077 | .004 | 93.4 |
| | 4 (AM) | .248 | .027 | 22.7 |
| | 9 (AM) | .112 | .025 | 8.6 |
| | 1 (PM) | .242 | .004 | 260.6 |
| | 3 (PM) | .116 | .003 | 133.9 |
| | 4 (PM) | .280 | .028 | 25.9 |
| | 9 (PM) | .121 | .025 | 9.5 |
| 10/01/86 | | | | |
| | 1 (AM) | .169 | .004 | 186.6 |
| | 3 (AM) | .090 | .004 | 106.5 |
| | 4 (AM) | .296 | .029 | 27.5 |
| | 9 (AM) | .142 | .024 | 11.8 |
| | 1 (PM) | .245 | .003 | 264.7 |
| | 3 (PM) | .127 | .003 | 145.1 |
| | 4 (PM) | .305 | .026 | 28.8 |
| | 9 (PM) | .133 | .027 | 10.6 |

Chlorine values
=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| 13/01/86 | | | |
| 1 (AM) | .245 | .003 | 264.7 |
| 3 (AM) | .127 | .003 | 145.1 |
| 4 (AM) | .305 | .026 | 28.8 |
| 9 (AM) | .133 | .027 | 10.6 |
| 1 (PM) | .363 | .004 | 383.2 |
| 3 (PM) | .170 | .006 | 185.6 |
| 4 (PM) | .301 | .027 | 28.3 |
| 9 (PM) | .151 | .028 | 12.4 |
| 14/01/86 | | | |
| 1 (AM) | .313 | .003 | 333.6 |
| 3 (AM) | .112 | .002 | 130.9 |
| 4 (AM) | .247 | .026 | 22.7 |
| 9 (AM) | .094 | .023 | 6.9 |
| 1 (PM) | .369 | .002 | 391.4 |
| 3 (PM) | .166 | .003 | 184.6 |
| 4 (PM) | .227 | .026 | 20.6 |
| 9 (PM) | .081 | .022 | 5.6 |
| 15/01/86 | | | |
| 1 (AM) | .327 | .003 | 347.8 |
| 3 (AM) | .127 | .004 | 144.0 |
| 4 (AM) | .239 | .024 | 22.0 |
| 9 (AM) | .082 | .022 | 5.7 |
| 1 (PM) | .394 | .004 | 414.7 |
| 3 (PM) | .160 | .004 | 177.5 |
| 4 (PM) | .247 | .026 | 22.7 |
| 9 (PM) | .093 | .022 | 6.9 |
| 16/01/86 | | | |
| 1 (AM) | .307 | .003 | 327.5 |
| 3 (AM) | .162 | .003 | 180.5 |
| 4 (AM) | .245 | .027 | 22.4 |
| 9 (AM) | .074 | .022 | 4.9 |
| 1 (PM) | .409 | .00x | 430.9 |
| 3 (PM) | .162 | .003 | 180.5 |
| 4 (PM) | .248 | .030 | 22.4 |
| 9 (PM) | .083 | .022 | 5.9 |
| 17/01/86 | | | |
| 1 (AM) | .330 | .003 | 350.8 |
| 3 (AM) | .133 | .004 | 150.1 |
| 4 (AM) | .242 | .027 | 22.0 |
| 9 (AM) | .081 | .023 | 5.5 |
| 1 (PM) | .429 | .003 | 451.1 |
| 3 (PM) | .168 | .003 | 186.6 |
| 4 (PM) | .259 | .028 | 23.7 |
| 9 (PM) | .174 | .030 | 14.6 |

Chlorine values
=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| 20/01/86 | | | |
| 1 (AM) | .331 | .003 | 351.8 |
| 3 (AM) | .194 | .003 | 213.0 |
| 4 (AM) | .278 | .022 | 26.4 |
| 9 (AM) | .086 | .021 | 6.3 |
| 1 (PM) | .455 | .003 | 477.5 |
| 3 (PM) | .180 | .003 | 198.8 |
| 4 (PM) | .264 | .031 | 23.9 |
| 9 (PM) | .112 | .032 | 7.9 |
| 21/01/86 | | | |
| 1 (AM) | .348 | .003 | 369.1 |
| 3 (AM) | .154 | .004 | 171.4 |
| 4 (AM) | .242 | .025 | 22.3 |
| 9 (AM) | .090 | .022 | 6.6 |
| 1 (PM) | .463 | .004 | 484.6 |
| 3 (PM) | .210 | .004 | 228.2 |
| 4 (PM) | .259 | .025 | 24.0 |
| 9 (PM) | .098 | .019 | 7.7 |
| 22/01/86 | | | |
| 1 (AM) | .390 | .002 | 412.6 |
| 3 (AM) | .171 | .003 | 189.7 |
| 4 (AM) | .260 | .027 | 23.9 |
| 9 (AM) | .098 | .021 | 7.5 |
| 1 (PM) | .489 | .002 | 513.0 |
| 3 (PM) | .220 | .002 | 240.3 |
| 4 (PM) | .249 | .022 | 23.2 |
| 9 (PM) | .099 | .020 | 7.7 |
| 23/01/86 | | | |
| 1 (AM) | .376 | .003 | 397.4 |
| 3 (AM) | .149 | .003 | 167.4 |
| 4 (AM) | .266 | .024 | 24.9 |
| 9 (AM) | .095 | .018 | 7.5 |
| 1 (PM) | .460 | .002 | 483.6 |
| 3 (PM) | .199 | .006 | 215.0 |
| 4 (PM) | .260 | .020 | 24.7 |
| 9 (PM) | .098 | .019 | 7.7 |
| 24/01/86 | | | |
| 1 (AM) | .405 | .006 | 423.8 |
| 3 (AM) | .169 | .003 | 187.6 |
| 4 (AM) | .247 | .023 | 23.0 |
| 9 (AM) | .095 | .020 | 7.3 |
| 1 (PM) | .485 | .003 | 507.9 |
| 3 (PM) | .207 | .005 | 224.1 |
| 4 (PM) | .246 | .025 | 22.7 |
| 9 (PM) | .091 | .020 | 6.9 |

Chlorine values

=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| ===== | | | |
| 27/01/86 | | | |
| 1 (AM) | .400 | .003 | 421.8 |
| 3 (AM) | .188 | .004 | 205.9 |
| 4 (AM) | .270 | .023 | 25.4 |
| 9 (AM) | .111 | .019 | 9.1 |
| 1 (PM) | .460 | .004 | 481.6 |
| 3 (PM) | .263 | .003 | 282.9 |
| 4 (PM) | .262 | .026 | 24.3 |
| 9 (PM) | .118 | .023 | 9.4 |
| 28/01/86 | | | |
| 1 (AM) | .437 | .002 | 460.3 |
| 3 (AM) | .210 | .003 | 229.2 |
| 4 (AM) | .281 | .026 | 26.3 |
| 9 (AM) | .113 | .022 | 9.0 |
| 1 (PM) | .497 | .004 | 519.1 |
| 3 (PM) | .230 | .003 | 249.5 |
| 4 (PM) | .274 | .024 | 25.7 |
| 9 (PM) | .149 | .021 | 12.9 |
| 29/01/86 | | | |
| 1 (AM) | .355 | .001 | 378.2 |
| 3 (AM) | .163 | .002 | 182.6 |
| 4 (AM) | .273 | .020 | 26.0 |
| 9 (AM) | .146 | .018 | 12.9 |
| 1 (PM) | .492 | .003 | 515.0 |
| 3 (PM) | .223 | .004 | 241.3 |
| 4 (PM) | .277 | .026 | 25.8 |
| 9 (PM) | .173 | .021 | 15.4 |
| 30/01/86 | | | |
| 1 (AM) | .397 | .001 | 420.7 |
| 3 (AM) | .147 | .002 | 166.3 |
| 4 (AM) | .277 | .020 | 26.5 |
| 9 (AM) | .086 | .018 | 6.6 |
| 1 (PM) | .493 | .004 | 515.0 |
| 3 (PM) | .264 | .003 | 283.9 |
| 4 (PM) | .300 | .027 | 28.1 |
| 9 (PM) | .103 | .027 | 7.4 |
| 31/01/86 | | | |
| 1 (AM) | .428 | .003 | 450.1 |
| 3 (AM) | .182 | .004 | 199.8 |
| 4 (AM) | .274 | .022 | 25.9 |
| 9 (AM) | .092 | .021 | 6.9 |
| 1 (PM) | .503 | .003 | 526.2 |
| 3 (PM) | .239 | .003 | 258.6 |
| 4 (PM) | .279 | .024 | 26.3 |
| 9 (PM) | .098 | .021 | 7.5 |

Chlorine values
=====

| | sample site | abs. | reading | blank | ug/L |
|----------|-------------|------|---------|-------|-------|
| | | | | | |
| 03/02/86 | 1 (AM) | .428 | | .003 | 452.1 |
| | 3 (AM) | .210 | | .006 | 226.9 |
| | 4 (AM) | .303 | | .020 | 29.4 |
| | 9 (AM) | .109 | | .017 | 9.3 |
| | 1 (PM) | .492 | | .001 | 519.3 |
| | 3 (PM) | .158 | | .002 | 178.0 |
| | 4 (PM) | .290 | | .028 | 27.2 |
| | 9 (PM) | .115 | | .032 | 8.3 |
| 04/02/86 | 1 (AM) | .406 | | .003 | 429.7 |
| | 3 (AM) | .164 | | .005 | 181.1 |
| | 4 (AM) | .263 | | .017 | 25.5 |
| | 9 (AM) | .098 | | .015 | 8.3 |
| | 1 (PM) | .496 | | .002 | 522.4 |
| | 3 (PM) | .213 | | .005 | 231.0 |
| | 4 (PM) | .269 | | .022 | 25.6 |
| | 9 (PM) | .099 | | .020 | 7.9 |
| 05/02/86 | 1 (AM) | .460 | | .003 | 484.7 |
| | 3 (AM) | .166 | | .006 | 182.1 |
| | 4 (AM) | .274 | | .022 | 26.2 |
| | 9 (AM) | .100 | | .021 | 7.9 |
| | 1 (PM) | .487 | | .002 | 513.2 |
| | 3 (PM) | .222 | | .004 | 241.2 |
| | 4 (PM) | .271 | | .023 | 25.7 |
| | 9 (PM) | .118 | | .021 | 9.8 |
| 06/02/86 | 1 (AM) | .420 | | .003 | 443.9 |
| | 3 (AM) | .165 | | .006 | 181.1 |
| | 4 (AM) | .282 | | .022 | 27.0 |
| | 9 (AM) | .110 | | .017 | 9.4 |
| | 1 (PM) | .488 | | .002 | 514.2 |
| | 3 (PM) | .193 | | .004 | 211.7 |
| | 4 (PM) | .280 | | .024 | 26.6 |
| | 9 (PM) | .098 | | .021 | 7.7 |
| 07/02/86 | 1 (AM) | .453 | | .003 | 477.6 |
| | 3 (AM) | .168 | | .006 | 184.1 |
| | 4 (AM) | .260 | | .020 | 24.9 |
| | 9 (AM) | .094 | | .018 | 7.6 |
| | 1 (PM) | .501 | | .003 | 526.5 |
| | 3 (PM) | .210 | | .006 | 226.9 |
| | 4 (PM) | .273 | | .029 | 25.3 |
| | 9 (PM) | .100 | | .022 | 7.8 |

Chlorine values
=====

| sample site | abs. reading | blank | ug/L |
|-------------|-----------------------|-------|-------|
| 10/02/86 | | | |
| 1 (AM) | .423 | .002 | 448.0 |
| 3 (AM) | .218 | .006 | 235.1 |
| 4 (AM) | .299 | .019 | 29.1 |
| 9 (AM) | .109 | .018 | 9.2 |
| 1 (PM) | .489 | .002 | 515.3 |
| 3 (PM) | .221 | .004 | 240.2 |
| 4 (PM) | .321 | .026 | 30.7 |
| 9 (PM) | .158 | .026 | 13.5 |
| 11/02/86 | | | |
| 1 (AM) | .410 | .003 | 433.8 |
| 3 (AM) | .170 | .006 | 186.2 |
| 4 (AM) | .284 | .022 | 27.2 |
| 9 (AM) | .112 | .019 | 9.4 |
| 1 (PM) | .490 | .003 | 515.3 |
| 3 (PM) | .203 | .003 | 222.9 |
| 4 (PM) | .298 | .024 | 28.5 |
| 9 (PM) | .122 | .021 | 10.2 |
| 12/02/86 | | | |
| 1 (AM) | .462 | .004 | 485.7 |
| 3 (AM) | .144 | .003 | 162.8 |
| 4 (AM) | .304 | .019 | 29.7 |
| 9 (AM) | .113 | .018 | 9.6 |
| 1 (PM) | .575 | .002 | 602.9 |
| 3 (PM) | .271 | .002 | 293.2 |
| 4 (PM) | .298 | .022 | 28.7 |
| 9 (PM) | .118 | .021 | 9.8 |
| 13/02/86 | | | |
| 1 (AM) | .398 | .003 | 421.5 |
| 3 (AM) | .142 | .003 | 160.7 |
| 4 (AM) | .287 | .019 | 27.9 |
| 9 (AM) | .150 | .018 | 13.5 |
| 1 (PM) | .518 | .005 | 541.7 |
| 3 (PM) | .217 | .004 | 236.1 |
| 4 (PM) | .289 | .024 | 27.5 |
| 9 (PM) | .102 | .022 | 8.0 |
| 14/02/86 | | | |
| 1 (AM) | .343 | .002 | 366.5 |
| 3 (AM) | .152 | .002 | 171.9 |
| 4 (AM) | .273 | .020 | 26.3 |
| 9 (AM) | .092 | .017 | 7.5 |
| 1 (PM) | .448 | .002 | 473.5 |
| 3 (PM) | NO READING, WATER OFF | | |
| 4 (PM) | .273 | .023 | 26.0 |
| 9 (PM) | .099 | .020 | 7.9 |

Chlorine values
=====

| | sample site | abs. reading | blank | ug/L |
|----------|-------------|--------------|-------|-------|
| | | | | |
| 17/02/86 | | | | |
| | 1 (AM) | .369 | .002 | 369.6 |
| | 3 (AM) | .158 | .004 | 153.1 |
| | 4 (AM) | .322 | .019 | 30.5 |
| | 9 (AM) | .111 | .017 | 8.2 |
| | 1 (PM) | .460 | .004 | 460.1 |
| | 3 (PM) | .211 | .003 | 208.0 |
| | 4 (PM) | .157 | .004 | 152.1 |
| | 9 (PM) | .340 | .030 | 31.3 |
| 18/02/86 | | | | |
| | 1 (AM) | .310 | .003 | 308.6 |
| | 3 (AM) | .124 | .003 | 119.6 |
| | 4 (AM) | NO READING | | |
| | 9 (AM) | .312 | .020 | 29.4 |
| | 1 (PM) | .387 | .004 | 385.9 |
| | 3 (PM) | .160 | .006 | 153.1 |
| | 4 (PM) | .281 | .024 | 25.6 |
| | 9 (PM) | .100 | .021 | 6.6 |
| 19/02/86 | | | | |
| | 1 (AM) | .290 | .003 | 288.3 |
| | 3 (AM) | .118 | .006 | 110.4 |
| | 4 (AM) | .290 | .026 | 26.4 |
| | 9 (AM) | .094 | .017 | 6.4 |
| | 1 (PM) | .389 | .003 | 388.9 |
| | 3 (PM) | .152 | .003 | 148.0 |
| | 4 (PM) | .288 | .023 | 26.5 |
| | 9 (PM) | .103 | .021 | 6.9 |
| 20/02/86 | | | | |
| | 1 (AM) | .306 | .003 | 304.6 |
| | 3 (AM) | .111 | .003 | 106.3 |
| | 4 (AM) | .283 | .022 | 26.0 |
| | 9 (AM) | .102 | .018 | 7.1 |
| | 1 (PM) | .407 | .001 | 409.3 |
| | 3 (PM) | .170 | .002 | 167.3 |
| | 4 (PM) | .291 | .023 | 26.8 |
| | 9 (PM) | .116 | .021 | 8.3 |
| 21/02/86 | | | | |
| | 1 (AM) | .309 | .002 | 308.6 |
| | 3 (AM) | .127 | .003 | 122.6 |
| | 4 (AM) | .283 | .022 | 26.0 |
| | 9 (AM) | .113 | .020 | 8.1 |
| | 1 (PM) | .416 | .002 | 417.4 |
| | 3 (PM) | .187 | .003 | 183.6 |
| | 4 (PM) | .300 | .022 | 27.9 |
| | 9 (PM) | .125 | .020 | 9.4 |

Chlorine values

=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| ===== | | | |
| 24/02/86 | | | |
| 1 (AM) | .298 | .003 | 302.2 |
| 3 (AM) | .153 | .006 | 149.3 |
| 4 (AM) | .299 | .019 | 28.2 |
| 9 (AM) | .113 | .016 | 8.9 |
| 1 (PM) | .500 | .001 | 512.9 |
| 3 (PM) | .191 | .003 | 191.7 |
| 4 (PM) | .304 | .021 | 28.5 |
| 9 (PM) | .131 | .022 | 10.2 |
| 25/02/86 | | | |
| 1 (AM) | .356 | .001 | 364.2 |
| 3 (AM) | .149 | .002 | 149.3 |
| 4 (AM) | .293 | .024 | 27.1 |
| 9 (AM) | .117 | .021 | 8.8 |
| 1 (PM) | .438 | .002 | 447.8 |
| 3 (PM) | .189 | .003 | 189.6 |
| 4 (PM) | .310 | .024 | 28.8 |
| 9 (PM) | .141 | .020 | 11.5 |
| 26/02/86 | | | |
| 1 (AM) | .373 | .002 | 380.7 |
| 3 (AM) | .120 | .003 | 118.3 |
| 4 (AM) | .299 | .021 | 28.0 |
| 9 (AM) | .125 | .019 | 9.9 |
| 1 (PM) | .500 | .003 | 510.8 |
| 3 (PM) | .162 | .003 | 161.7 |
| 4 (PM) | .240 | .026 | 21.3 |
| 9 (PM) | .079 | .020 | 4.9 |
| 27/02/86 | | | |
| 1 (AM) | .404 | .002 | 412.7 |
| 3 (AM) | .097 | .006 | 91.5 |
| 4 (AM) | .215 | .019 | 19.4 |
| 9 (AM) | .064 | .017 | 3.7 |
| 1 (PM) | .522 | .002 | 534.6 |
| 3 (PM) | .158 | .003 | 157.6 |
| 4 (PM) | .211 | .020 | 18.8 |
| 9 (PM) | .060 | .018 | 3.1 |
| 28/02/86 | | | |
| 1 (AM) | .370 | .002 | 377.6 |
| 3 (AM) | .110 | .004 | 107.0 |
| 4 (AM) | .199 | .022 | 17.4 |
| 9 (AM) | .061 | .017 | 3.4 |
| 1 (PM) | .552 | .000 | 567.6 |
| 3 (PM) | .161 | .000 | 163.8 |
| 4 (PM) | .207 | .021 | 18.3 |
| 9 (PM) | .065 | .018 | 3.7 |

Chlorine values
=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| 3/03/86 | | | |
| 1 (AM) | .483 | .003 | 478.0 |
| 3 (AM) | .131 | .002 | 132.8 |
| 4 (AM) | .241 | .019 | 22.8 |
| 9 (AM) | .073 | .017 | 5.7 |
| 1 (PM) | .664 | .004 | 655.0 |
| 3 (PM) | .231 | .007 | 226.2 |
| 4 (PM) | .248 | .038 | 21.6 |
| 9 (PM) | .074 | .028 | 4.7 |
| 4/03/86 | | | |
| 1 (AM) | .365 | .002 | 362.9 |
| 3 (AM) | .143 | .003 | 143.6 |
| 4 (AM) | .197 | .020 | 18.2 |
| 9 (AM) | .059 | .017 | 4.3 |
| 1 (PM) | .500 | .001 | 496.7 |
| 3 (PM) | .182 | .001 | 182.9 |
| 4 (PM) | .203 | .022 | 18.6 |
| 9 (PM) | .068 | .019 | 5.0 |
| 5/03/86 | | | |
| 1 (AM) | .490 | .002 | 485.8 |
| 3 (AM) | .145 | .004 | 144.6 |
| 4 (AM) | .228 | .021 | 21.3 |
| 9 (AM) | .079 | .018 | 6.2 |
| 1 (PM) | .500 | .001 | 496.7 |
| 3 (PM) | .175 | .007 | 171.1 |
| 4 (PM) | .192 | .021 | 17.5 |
| 9 (PM) | .070 | .019 | 5.2 |
| 6/03/86 | | | |
| 1 (AM) | .388 | .002 | 385.5 |
| 3 (AM) | .081 | .001 | 84.6 |
| 4 (AM) | .194 | .021 | 17.7 |
| 9 (AM) | .047 | .018 | 2.9 |
| 1 (PM) | .516 | .003 | 510.4 |
| 3 (PM) | .179 | .004 | 178.0 |
| 4 (PM) | .180 | .020 | 16.4 |
| 9 (PM) | .053 | .019 | 3.4 |
| 7/03/86 | | | |
| 1 (AM) | .460 | .003 | 455.4 |
| 3 (AM) | .142 | .001 | 144.6 |
| 4 (AM) | .193 | .026 | 17.1 |
| 9 (AM) | .052 | .021 | 3.1 |
| 1 (PM) | .500 | .003 | 494.7 |
| 3 (PM) | .153 | .006 | 150.5 |
| 4 (PM) | .139 | .022 | 12.0 |
| 9 (PM) | .051 | .020 | 3.1 |

Chlorine values
=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| 10/03/86 | | | |
| 1 (AM) | .422 | .003 | 424.2 |
| 3 (AM) | .131 | .004 | 123.3 |
| 4 (AM) | .212 | .020 | 19.9 |
| 9 (AM) | .058 | .017 | 4.3 |
| 1 (PM) | .503 | .002 | 508.7 |
| 3 (PM) | .168 | .008 | 157.3 |
| 4 (PM) | .194 | .022 | 17.8 |
| 9 (PM) | .056 | .019 | 3.9 |
| 11/03/86 | | | |
| 1 (AM) | .344 | .001 | 345.9 |
| 3 (AM) | .105 | .004 | 96.5 |
| 4 (AM) | .185 | .023 | 16.8 |
| 9 (AM) | .048 | .018 | 3.2 |
| 1 (PM) | .465 | .003 | 468.5 |
| 3 (PM) | .157 | .007 | 147.0 |
| 4 (PM) | .193 | .022 | 17.7 |
| 9 (PM) | .051 | .019 | 3.4 |
| 12/03/86 | | | |
| 1 (AM) | .358 | .001 | 360.3 |
| 3 (AM) | .123 | .001 | 118.1 |
| 4 (AM) | .210 | .022 | 19.5 |
| 9 (AM) | .055 | .018 | 3.9 |
| 1 (PM) | .483 | .002 | 488.1 |
| 3 (PM) | .163 | .005 | 155.2 |
| 4 (PM) | .203 | .023 | 18.6 |
| 9 (PM) | .056 | .019 | 3.9 |
| 13/03/86 | | | |
| 1 (AM) | .361 | .002 | 362.4 |
| 3 (AM) | .077 | .008 | 63.5 |
| 4 (AM) | .194 | .021 | 17.9 |
| 9 (AM) | .131 | .033 | 10.2 |
| 1 (PM) | .408 | .005 | 407.7 |
| 3 (PM) | .136 | .005 | 127.4 |
| 4 (PM) | .201 | .021 | 18.6 |
| 9 (PM) | .054 | .019 | 3.7 |
| 14/03/86 | | | |
| 1 (AM) | .377 | .003 | 377.8 |
| 3 (AM) | .124 | .006 | 114.0 |
| 4 (AM) | .200 | .022 | 18.4 |
| 9 (AM) | .054 | .017 | 3.9 |
| 1 (PM) | .524 | .002 | 530.3 |
| 3 (PM) | .176 | .005 | 168.6 |
| 4 (PM) | .202 | .022 | 18.6 |
| 9 (PM) | .058 | .018 | 4.2 |

Chlorine values
=====

| | sample site | abs. reading | blank | ug/L |
|----------|-------------|--------------|-------|-------|
| 17/03/86 | 1 (AM) | .360 | .002 | 359.5 |
| | 3 (AM) | .122 | .005 | 110.9 |
| | 4 (AM) | .221 | .018 | 21.0 |
| | 9 (AM) | .060 | .016 | 4.4 |
| | 1 (PM) | .494 | .001 | 498.7 |
| | 3 (PM) | .161 | .001 | 155.3 |
| | 4 (PM) | .201 | .026 | 18.1 |
| | 9 (PM) | .065 | .022 | 4.3 |
| 18/03/86 | 1 (AM) | .348 | .003 | 346.0 |
| | 3 (AM) | .118 | .007 | 104.8 |
| | 4 (AM) | .179 | .019 | 16.5 |
| | 9 (AM) | .053 | .017 | 3.6 |
| | 1 (PM) | .498 | .002 | 501.8 |
| | 3 (PM) | .166 | .005 | 156.3 |
| | 4 (PM) | .194 | .023 | 17.7 |
| | 9 (PM) | .053 | .018 | 3.5 |
| 19/03/86 | 1 (AM) | .351 | .001 | 351.2 |
| | 3 (AM) | .128 | .003 | 119.2 |
| | 4 (AM) | .188 | .019 | 17.5 |
| | 9 (AM) | .052 | .016 | 3.6 |
| | 1 (PM) | .489 | .004 | 490.4 |
| | 3 (PM) | .162 | .005 | 152.2 |
| | 4 (PM) | .188 | .022 | 17.2 |
| | 9 (PM) | .056 | .019 | 3.7 |
| 20/03/86 | 1 (AM) | .353 | .001 | 353.3 |
| | 3 (AM) | .073 | .006 | 59.4 |
| | 4 (AM) | .184 | .021 | 16.9 |
| | 9 (AM) | .050 | .018 | 3.2 |
| | 1 (PM) | .511 | .002 | 515.2 |
| | 3 (PM) | .166 | .004 | 157.3 |
| | 4 (PM) | .193 | .022 | 17.7 |
| | 9 (PM) | .053 | .019 | 3.4 |
| 21/03/86 | 1 (AM) | .453 | .002 | 455.4 |
| | 3 (AM) | .119 | .004 | 108.9 |
| | 4 (AM) | .186 | .021 | 17.1 |
| | 9 (AM) | .055 | .017 | 3.8 |
| | 1 (PM) | .451 | .002 | 453.3 |
| | 3 (PM) | .156 | .007 | 143.9 |
| | 4 (PM) | .189 | .023 | 17.2 |
| | 9 (PM) | .054 | .017 | 3.7 |

Chlorine values
=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| 24/03/86 | | | |
| 1 (AM) | .339 | .002 | 337.7 |
| 3 (AM) | .126 | .003 | 120.1 |
| 4 (AM) | .207 | .018 | 19.6 |
| 9 (AM) | .058 | .017 | 4.0 |
| 1 (PM) | .470 | .002 | 470.9 |
| 3 (PM) | .138 | .010 | 125.2 |
| 4 (PM) | .190 | .022 | 17.4 |
| 9 (PM) | .056 | .019 | 3.6 |
| 25/03/86 | | | |
| 1 (AM) | .348 | .002 | 346.8 |
| 3 (AM) | .087 | .004 | 79.4 |
| 4 (AM) | .182 | .021 | 16.6 |
| 9 (AM) | .048 | .017 | 3.0 |
| 1 (PM) | .469 | .001 | 470.9 |
| 3 (PM) | .143 | .006 | 134.3 |
| 4 (PM) | .182 | .023 | 16.4 |
| 9 (PM) | .055 | .019 | 3.5 |
| 26/03/86 | | | |
| 1 (AM) | .386 | .003 | 384.5 |
| 3 (AM) | .100 | .020 | 90.6 |
| 4 (AM) | .171 | .020 | 15.6 |
| 9 (AM) | .050 | .017 | 3.2 |
| 1 (PM) | .456 | .003 | 455.6 |
| 3 (PM) | .149 | .007 | 139.4 |
| 4 (PM) | .178 | .023 | 16.0 |
| 9 (PM) | .057 | .018 | 3.8 |
| 27/03/86 | | | |
| 1 (AM) | .378 | .004 | 375.3 |
| 3 (AM) | .063 | .006 | 53.0 |
| 4 (AM) | .169 | .021 | 15.3 |
| 9 (AM) | .047 | .016 | 3.0 |
| 1 (PM) | .509 | .001 | 511.5 |
| 3 (PM) | .153 | .006 | 144.5 |
| 4 (PM) | .180 | .023 | 16.2 |
| 9 (PM) | .055 | .019 | 3.5 |

Chlorine values
=====

| | sample site | abs. reading | blank | ug/L |
|----------|-------------|--------------|-------|-------|
| | | | | |
| 01/04/86 | 1 (AM) | .357 | .003 | 354.6 |
| | 3 (AM) | .126 | .006 | 118.5 |
| | 4 (AM) | .217 | .019 | 20.5 |
| | 9 (AM) | .062 | .016 | 4.6 |
| | 1 (PM) | .490 | .002 | 489.8 |
| | 3 (PM) | .172 | .003 | 167.9 |
| | 4 (PM) | .245 | .026 | 22.7 |
| | 9 (PM) | .112 | .021 | 9.3 |
| 02/04/86 | 1 (AM) | .360 | .003 | 357.6 |
| | 3 (AM) | .105 | .006 | 97.3 |
| | 4 (AM) | .210 | .023 | 19.4 |
| | 9 (AM) | .060 | .019 | 4.1 |
| | 1 (PM) | .452 | .002 | 451.5 |
| | 3 (PM) | .123 | .006 | 115.4 |
| | 4 (PM) | .188 | .026 | 16.8 |
| | 9 (PM) | .083 | .022 | 6.2 |
| 03/04/86 | 1 (AM) | .290 | .002 | 288.0 |
| | 3 (AM) | .066 | .003 | 60.9 |
| | 4 (AM) | .161 | .022 | 14.4 |
| | 9 (AM) | .049 | .018 | 3.0 |
| | 1 (PM) | .439 | .002 | 438.4 |
| | 3 (PM) | .142 | .006 | 134.6 |
| | 4 (PM) | .164 | .021 | 14.8 |
| | 9 (PM) | .052 | .018 | 3.3 |
| 04/04/86 | 1 (AM) | .348 | .003 | 345.5 |
| | 3 (AM) | .087 | .003 | 82.1 |
| | 4 (AM) | .164 | .022 | 14.7 |
| | 9 (AM) | .051 | .019 | 3.1 |
| | 1 (PM) | .471 | .002 | 470.7 |
| | 3 (PM) | .150 | .005 | 143.7 |
| | 4 (PM) | .170 | .026 | 14.9 |
| | 9 (PM) | .055 | .018 | 3.7 |

Chlorine values
=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| 07/04/86 | | | |
| 1 (AM) | .333 | .002 | 334.7 |
| 3 (AM) | .131 | .003 | 123.7 |
| 4 (AM) | .207 | .021 | 19.2 |
| 9 (AM) | .063 | .017 | 4.6 |
| 1 (PM) | .469 | .001 | 477.1 |
| 3 (PM) | .144 | .003 | 137.2 |
| 4 (PM) | .181 | .030 | 15.6 |
| 9 (PM) | .060 | .021 | 3.9 |
| 08/04/86 | | | |
| 1 (AM) | .341 | .002 | 343.0 |
| 3 (AM) | .116 | .006 | 105.0 |
| 4 (AM) | .174 | .022 | 15.7 |
| 9 (AM) | .058 | .018 | 4.0 |
| 1 (PM) | .483 | .002 | 490.6 |
| 3 (PM) | .152 | .006 | 142.4 |
| 4 (PM) | .189 | .024 | 17.0 |
| 9 (PM) | .069 | .021 | 4.8 |
| 09/04/86 | | | |
| 1 (AM) | .348 | .005 | 347.2 |
| 3 (AM) | .101 | .007 | 88.4 |
| 4 (AM) | .132 | .023 | 11.2 |
| 9 (AM) | .030 | .019 | 1.0 |
| 1 (PM) | .462 | .003 | 467.7 |
| 3 (PM) | .111 | .007 | 98.7 |
| 4 (PM) | .107 | .024 | 8.5 |
| 9 (PM) | .023 | .0205 | 0.1 |
| 10/04/86 | | | |
| 1 (AM) | .410 | .003 | 413.7 |
| 3 (AM) | .105 | .004 | 95.6 |
| 4 (AM) | .098 | .023 | 7.7 |
| 9 (AM) | .021 | .019 | 0.0 |
| 1 (PM) | .470 | .000 | 479.2 |
| 3 (PM) | .131 | .000 | 126.8 |
| 4 (PM) | .103 | .024 | 8.1 |
| 9 (PM) | .022 | .020 | 0.0 |
| 11/04/86 | | | |
| 1 (AM) | .331 | .004 | 330.5 |
| 3 (AM) | .094 | .005 | 83.2 |
| 4 (AM) | .094 | .023 | 7.2 |
| 9 (AM) | .027 | .019 | 0.7 |
| 1 (PM) | .293 | .003 | 292.1 |
| 3 (PM) | .094 | .005 | 83.2 |
| 4 (PM) | .095 | .026 | 7.0 |
| 9 (PM) | .021 | .019 | 0.0 |

Chlorine values
=====

| | sample site | abs. reading | blank | ug/L |
|----------|-------------|--------------|-------|-------|
| 14/04/86 | 1 (AM) | .299 | .003 | 296.4 |
| | 3 (AM) | .092 | .006 | 78.1 |
| | 4 (AM) | .111 | .022 | 9.3 |
| | 9 (AM) | .020 | .019 | 0.2 |
| | 1 (PM) | .462 | .004 | 464.9 |
| | 3 (PM) | .118 | .006 | 105.1 |
| | 4 (PM) | .100 | .024 | 8.0 |
| | 9 (PM) | .023 | .022 | 0.2 |
| 15/04/86 | 1 (AM) | .321 | .002 | 320.3 |
| | 3 (AM) | .086 | .004 | 73.9 |
| | 4 (AM) | .088 | .023 | 6.8 |
| | 9 (AM) | .021 | .020 | 0.2 |
| | 1 (PM) | .495 | .004 | 499.2 |
| | 3 (PM) | .161 | .008 | 147.7 |
| | 4 (PM) | .101 | .025 | 8.0 |
| | 9 (PM) | .025 | .022 | 0.4 |
| 16/04/86 | 1 (AM) | .247 | .005 | 240.3 |
| | 3 (AM) | .078 | .007 | 62.5 |
| | 4 (AM) | .090 | .027 | 6.6 |
| | 9 (AM) | .021 | .020 | 0.2 |
| | 1 (PM) | .373 | .002 | 374.4 |
| | 3 (PM) | .110 | .005 | 97.8 |
| | 4 (PM) | .096 | .026 | 7.3 |
| | 9 (PM) | .022 | .021 | 0.2 |
| 17/04/86 | 1 (AM) | .383 | .005 | 381.7 |
| | 3 (AM) | .080 | .006 | 65.6 |
| | 4 (AM) | .089 | .024 | 6.8 |
| | 9 (AM) | .021 | .020 | 0.2 |
| | 1 (PM) | .377 | .004 | 376.5 |
| | 3 (PM) | .108 | .007 | 93.7 |
| | 4 (PM) | .100 | .027 | 7.7 |
| | 9 (PM) | .022 | .022 | 0.1 |
| 18/04/86 | 1 (AM) | .316 | .006 | 311.0 |
| | 3 (AM) | .078 | .008 | 61.4 |
| | 4 (AM) | .097 | .025 | 7.6 |
| | 9 (AM) | .023 | .021 | 0.3 |
| | 1 (PM) | .380 | .003 | 380.6 |
| | 3 (PM) | .108 | .006 | 94.7 |
| | 4 (PM) | .109 | .026 | 8.7 |
| | 9 (PM) | .024 | .021 | 0.4 |

Chlorine values
=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| 21/04/86 | | | |
| 1 (AM) | .318 | .005 | 309.9 |
| 3 (AM) | .078 | .005 | 60.1 |
| 4 (AM) | .151 | .026 | 12.3 |
| 9 (AM) | .029 | .022 | 0.3 |
| 1 (PM) | .410 | .003 | 407.7 |
| 3 (PM) | .114 | .002 | 100.7 |
| 4 (PM) | .123 | .030 | 9.1 |
| 9 (PM) | .031 | .026 | 0.1 |
| 22/04/86 | | | |
| 1 (AM) | .281 | .006 | 270.3 |
| 3 (AM) | .083 | .007 | 63.3 |
| 4 (AM) | .107 | .027 | 7.7 |
| 9 (AM) | .026 | .022 | 0.0 |
| 1 (PM) | .378 | .003 | 374.4 |
| 3 (PM) | .107 | .006 | 89.3 |
| 4 (PM) | .118 | .027 | 8.9 |
| 9 (PM) | .026 | .022 | 0.0 |
| 23/04/86 | | | |
| 1 (AM) | .312 | .006 | 302.6 |
| 3 (AM) | .088 | .007 | 68.5 |
| 4 (AM) | .110 | .025 | 8.3 |
| 9 (AM) | .023 | .021 | 0.0 |
| 1 (PM) | .355 | .003 | 350.5 |
| 3 (PM) | .109 | .006 | 91.4 |
| 4 (PM) | .098 | .026 | 6.9 |
| 9 (PM) | .022 | .021 | 0.0 |
| 24/04/86 | | | |
| 1 (AM) | .311 | .006 | 301.5 |
| 3 (AM) | .051 | .008 | 28.9 |
| 4 (AM) | .114 | .027 | 8.5 |
| 9 (AM) | .026 | .022 | 0.0 |
| 1 (PM) | .328 | .004 | 321.3 |
| 3 (PM) | .078 | .007 | 58.1 |
| 4 (PM) | .116 | .027 | 8.7 |
| 9 (PM) | .027 | .022 | 0.1 |
| 25/04/86 | | | |
| 1 (AM) | .230 | .005 | 218.3 |
| 3 (AM) | .058 | .005 | 39.3 |
| 4 (AM) | .109 | .027 | 7.9 |
| 9 (AM) | .026 | .021 | 0.1 |
| 1 (PM) | .304 | .004 | 296.3 |
| 3 (PM) | .074 | .007 | 53.9 |
| 4 (PM) | .113 | .028 | 8.3 |
| 9 (PM) | .027 | .022 | 0.1 |

Chlorine values
=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| 28/04/86 | | | |
| 1 (AM) | .274 | .008 | 271.1 |
| 3 (AM) | .068 | .006 | 60.6 |
| 4 (AM) | .144 | .024 | 12.2 |
| 9 (AM) | .027 | .019 | 0.8 |
| 1 (PM) | .355 | .005 | 357.8 |
| 3 (PM) | .090 | .007 | 82.3 |
| 4 (PM) | .119 | .028 | 9.3 |
| 9 (PM) | .028 | .022 | 0.6 |
| 29/04/86 | | | |
| 1 (AM) | .313 | .009 | 310.4 |
| 3 (AM) | .069 | .007 | 60.6 |
| 4 (AM) | .113 | .026 | 8.9 |
| 9 (AM) | .027 | .021 | 0.6 |
| 1 (PM) | .359 | .006 | 360.9 |
| 3 (PM) | .089 | .009 | 79.2 |
| 4 (PM) | .138 | .030 | 11.0 |
| 9 (PM) | .038 | .024 | 1.5 |
| 30/04/86 | | | |
| 1 (AM) | .228 | .006 | 225.7 |
| 3 (AM) | .053 | .008 | 43.1 |
| 4 (AM) | .121 | .026 | 9.7 |
| 9 (AM) | .028 | .020 | 0.8 |
| 1 (PM) | .288 | .006 | 287.7 |
| 3 (PM) | .111 | .007 | 104.0 |
| 4 (PM) | .100 | .028 | 7.3 |
| 9 (PM) | .023 | .022 | 0.1 |

Chlorine values
=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| 01/05/86 | | | |
| 1 (AM) | .502 | .007 | 507.5 |
| 3 (AM) | .110 | .009 | 100.9 |
| 4 (AM) | .055 | .036 | 2.0 |
| 9 (AM) | .035 | .030 | 0.5 |
| 1 (PM) | .412 | .007 | 414.6 |
| 3 (PM) | .238 | .008 | 234.0 |
| 4 (PM) | .190 | .037 | 15.5 |
| 9 (PM) | .053 | .030 | 2.4 |
| 02/05/86 | | | |
| 1 (AM) | .338 | .006 | 339.3 |
| 3 (AM) | .061 | .004 | 55.5 |
| 4 (AM) | .190 | .036 | 15.6 |
| 9 (AM) | .052 | .031 | 2.2 |
| 1 (PM) | .381 | .005 | 384.7 |
| 3 (PM) | .096 | .006 | 89.5 |
| 4 (PM) | .127 | .028 | 10.1 |
| 9 (PM) | .032 | .022 | 1.1 |

Chlorine values
=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| 05/05/86 | | | |
| 1 (AM) | .298 | .007 | 297.5 |
| 3 (AM) | .055 | .006 | 48.0 |
| 4 (AM) | .124 | .026 | 10.7 |
| 9 (AM) | .022 | .019 | 0.8 |
| 1 (PM) | .277 | .006 | 276.9 |
| 3 (PM) | .063 | .009 | 53.1 |
| 4 (PM) | .112 | .029 | 9.1 |
| 9 (PM) | .034 | .030 | 0.9 |
| 06/05/86 | | | |
| 1 (AM) | .237 | .008 | 233.6 |
| 3 (AM) | .058 | .007 | 50.1 |
| 4 (AM) | .098 | .026 | 10.0 |
| 9 (AM) | .022 | .020 | 0.7 |
| 1 (PM) | .317 | .007 | 317.1 |
| 3 (PM) | .078 | .008 | 69.6 |
| 4 (PM) | .128 | .027 | 11.0 |
| 9 (PM) | .030 | .023 | 1.2 |
| 07/05/86 | | | |
| 1 (AM) | .393 | .008 | 394.4 |
| 3 (AM) | .063 | .006 | 56.2 |
| 4 (AM) | .128 | .025 | 11.2 |
| 9 (AM) | .022 | .018 | 0.9 |
| 1 (PM) | .292 | .006 | 292.3 |
| 3 (PM) | .076 | .008 | 67.6 |
| 4 (PM) | .120 | .028 | 10.0 |
| 9 (PM) | .028 | .022 | 1.1 |
| 08/05/86 | | | |
| 1 (AM) | .424 | .008 | 426.4 |
| 3 (AM) | .138 | .008 | 131.5 |
| 4 (AM) | .195 | .029 | 17.8 |
| 9 (AM) | .030 | .021 | 1.4 |
| 1 (PM) | .310 | .006 | 310.9 |
| 3 (PM) | .082 | .009 | 72.7 |
| 4 (PM) | .119 | .023 | 10.5 |
| 9 (PM) | .026 | .019 | 1.2 |
| 09/05/86 | | | |
| 1 (AM) | .338 | .016 | 329.4 |
| 3 (AM) | .071 | .011 | 59.3 |
| 4 (AM) | .119 | .028 | 9.9 |
| 9 (AM) | .022 | .020 | 0.7 |
| 1 (PM) | .298 | .007 | 297.5 |
| 3 (PM) | .072 | .009 | 62.4 |
| 4 (PM) | .138 | .028 | 11.9 |
| 9 (PM) | .028 | .022 | 1.1 |

Chlorine values
=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| 12/05/86 | | | |
| 1 (AM) | .236 | .005 | 236.1 |
| 3 (AM) | .058 | .004 | 51.6 |
| 4 (AM) | .140 | .023 | 12.1 |
| 9 (AM) | .026 | .020 | 0.7 |
| 1 (PM) | .251 | .006 | 250.7 |
| 3 (PM) | .053 | .008 | 42.3 |
| 4 (PM) | .122 | .028 | 9.8 |
| 9 (PM) | .030 | .024 | 0.7 |
| 13/05/86 | | | |
| 1 (AM) | .174 | .007 | 169.4 |
| 3 (AM) | .051 | .005 | 43.3 |
| 4 (AM) | .112 | .028 | 8.7 |
| 9 (AM) | .022 | .020 | 0.3 |
| 1 (PM) | .178 | .005 | 175.6 |
| 3 (PM) | .057 | .007 | 47.5 |
| 4 (PM) | .115 | .026 | 9.2 |
| 9 (PM) | .024 | .020 | 0.5 |
| 14/05/86 | | | |
| 1 (AM) | .220 | .008 | 216.3 |
| 3 (AM) | .066 | .006 | 57.9 |
| 4 (AM) | .112 | .023 | 9.3 |
| 9 (AM) | .024 | .019 | 0.6 |
| 1 (PM) | .303 | .009 | 301.7 |
| 3 (PM) | .071 | .008 | 61.0 |
| 4 (PM) | .126 | .027 | 10.3 |
| 9 (PM) | .027 | .021 | 0.7 |
| 15/05/86 | | | |
| 1 (AM) | .277 | .007 | 275.7 |
| 3 (AM) | .057 | .007 | 47.5 |
| 4 (AM) | .112 | .023 | 9.2 |
| 9 (AM) | .023 | .021 | 0.3 |
| 1 (PM) | .249 | .006 | 248.6 |
| 3 (PM) | .052 | .008 | 41.2 |
| 4 (PM) | .112 | .023 | 9.2 |
| 9 (PM) | .026 | .021 | 0.6 |

Chlorine values
=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| <hr/> | | | |
| 26/05/86 | | | |
| 1 (AM) | .145 | .004 | 144.6 |
| 3 (AM) | .043 | .005 | 37.4 |
| 4 (AM) | .117 | .021 | 11.2 |
| 9 (AM) | .024 | .017 | 1.6 |
| 1 (PM) | .263 | .002 | 267.3 |
| 3 (PM) | .042 | .003 | 38.4 |
| 4 (PM) | .139 | .028 | 12.8 |
| 9 (PM) | .037 | .023 | 2.3 |
| 27/05/86 | | | |
| 1 (AM) | .114 | .004 | 111.6 |
| 3 (AM) | .042 | .006 | 35.3 |
| 4 (AM) | .112 | .022 | 10.5 |
| 9 (AM) | .022 | .018 | 1.2 |
| 1 (PM) | .292 | .003 | 296.1 |
| 3 (PM) | .047 | .005 | 41.5 |
| 4 (PM) | .110 | .025 | 10.0 |
| 9 (PM) | .025 | .021 | 1.2 |
| 28/05/86 | | | |
| 1 (AM) | .238 | .003 | 240.5 |
| 3 (AM) | .041 | .006 | 34.3 |
| 4 (AM) | .102 | .020 | 9.7 |
| 9 (AM) | .020 | .018 | 1.0 |
| 1 (PM) | .317 | .003 | 321.9 |
| 3 (PM) | .043 | .003 | 39.5 |
| 4 (PM) | .103 | .023 | 9.4 |
| 9 (PM) | .022 | .019 | 1.1 |
| 29/05/86 | | | |
| 1 (AM) | .320 | .003 | 325.0 |
| 3 (AM) | .040 | .004 | 35.3 |
| 4 (AM) | .103 | .021 | 9.7 |
| 9 (AM) | .021 | .018 | 1.1 |
| 1 (PM) | .290 | .003 | 294.1 |
| 3 (PM) | .042 | .006 | 35.3 |
| 4 (PM) | .103 | .022 | 9.6 |
| 9 (PM) | .022 | .019 | 1.1 |
| 30/05/86 | | | |
| 1 (AM) | .213 | .003 | 214.7 |
| 3 (AM) | .040 | .005 | 34.3 |
| 4 (AM) | .101 | .021 | 9.4 |
| 9 (AM) | .019 | .017 | 1.0 |
| 1 (PM) | .431 | .003 | 439.4 |
| 3 (PM) | .047 | .006 | 40.5 |
| 4 (PM) | .063 | .022 | 5.2 |
| 9 (PM) | .017 | .017 | 0.8 |

Chlorine values
=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| 02/06/86 | | | |
| 1 (AM) | .227 | .002 | 230.4 |
| 3 (AM) | .032 | .004 | 27.3 |
| 4 (AM) | .087 | .020 | 8.3 |
| 9 (AM) | .017 | .016 | 0.9 |
| 1 (PM) | .345 | .003 | 351.1 |
| 3 (PM) | .038 | .004 | 33.4 |
| 4 (PM) | .059 | .024 | 4.7 |
| 9 (PM) | .020 | .020 | 0.9 |
| 03/06/86 | | | |
| 1 (AM) | .205 | .003 | 206.7 |
| 3 (AM) | .037 | .004 | 32.4 |
| 4 (AM) | .061 | .020 | 5.4 |
| 9 (AM) | .018 | .017 | 0.9 |
| 1 (PM) | .361 | .006 | 364.5 |
| 3 (PM) | .043 | .006 | 36.5 |
| 4 (PM) | .064 | .023 | 5.4 |
| 9 (PM) | .021 | .020 | 0.9 |
| 04/06/86 | | | |
| 1 (AM) | .309 | .003 | 314.0 |
| 3 (AM) | .045 | .004 | 40.7 |
| 4 (AM) | .113 | .026 | 10.5 |
| 9 (AM) | .019 | .018 | 0.9 |
| 1 (PM) | .327 | .002 | 333.6 |
| 3 (PM) | .043 | .004 | 38.6 |
| 4 (PM) | .078 | .023 | 6.9 |
| 9 (PM) | .022 | .022 | 0.8 |
| 05/06/86 | | | |
| 1 (AM) | .302 | .003 | 306.8 |
| 3 (AM) | .049 | .007 | 41.7 |
| 4 (AM) | .123 | .029 | 11.3 |
| 9 (AM) | .023 | .023 | 0.8 |
| 1 (PM) | .327 | .004 | 331.5 |
| 3 (PM) | .040 | .008 | 31.4 |
| 4 (PM) | .073 | .024 | 6.3 |
| 9 (PM) | .021 | .021 | 0.8 |
| 06/06/86 | | | |
| 1 (AM) | .160 | .003 | 160.3 |
| 3 (AM) | .036 | .006 | 29.3 |
| 4 (AM) | .066 | .024 | 5.5 |
| 9 (AM) | .019 | .019 | 0.8 |
| 1 (PM) | .260 | .002 | 264.4 |
| 3 (PM) | .043 | .005 | 37.6 |
| 4 (PM) | .079 | .021 | 7.3 |
| 9 (PM) | .021 | .021 | 0.8 |

Chlorine values
=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|------------|
| 09/06/86 | | | |
| 1 (AM) | .218 | .004 | 218.9 |
| 3 (AM) | .053 | .006 | 48.6 |
| 4 (AM) | .113 | .021 | 10.2 |
| 9 (AM) | .019 | .017 | 0.2 |
| 1 (PM) | .389 | .001 | 400.8 |
| 3 (PM) | .048 | .005 | 40.2 |
| 4 (PM) | .083 | .023 | 6.1 |
| 9 (PM) | .022 | .022 | 0.0 |
| 10/06/86 | | | |
| 1 (AM) | .273 | .004 | 276.4 |
| 3 (AM) | .058 | .007 | 48.6 |
| 4 (AM) | .123 | .022 | 10.2 |
| 9 (AM) | .022 | .020 | 0.2 |
| 1 (PM) | .483 | .008 | 491.7 |
| 3 (PM) | | | NO READING |
| 4 (PM) | .112 | .027 | 8.6 |
| 9 (PM) | .027 | .023 | 0.4 |
| 11/06/86 | | | |
| 1 (AM) | .323 | .002 | 330.8 |
| 3 (AM) | .054 | .004 | 47.5 |
| 4 (AM) | .123 | .023 | 10.1 |
| 9 (AM) | .023 | .021 | 0.2 |
| 1 (PM) | .518 | .002 | 534.6 |
| 3 (PM) | .075 | .007 | 66.4 |
| 4 (PM) | .123 | .022 | 10.2 |
| 9 (PM) | .027 | .020 | 0.7 |
| 12/06/86 | | | |
| 1 (AM) | .463 | .003 | 476.0 |
| 3 (AM) | .051 | .006 | 42.3 |
| 4 (AM) | .106 | .021 | 8.6 |
| 9 (AM) | .022 | .018 | 0.4 |
| 1 (PM) | .520 | .005 | 533.5 |
| 3 (PM) | .073 | .007 | 64.3 |
| 4 (PM) | .112 | .026 | 8.7 |
| 9 (PM) | .023 | .021 | 0.2 |
| 13/06/86 | | | |
| 1 (AM) | .473 | .008 | 481.3 |
| 3 (AM) | .053 | .007 | 43.4 |
| 4 (AM) | .108 | .026 | 8.3 |
| 9 (AM) | .022 | .021 | 0.1 |
| 1 (PM) | .643 | .005 | 662.1 |
| 3 (PM) | .077 | .009 | 66.4 |
| 4 (PM) | .110 | .026 | 8.5 |
| 9 (PM) | .021 | .020 | 0.1 |

Chlorine values
=====

| | sample site | abs. reading | blank | ug/L |
|----------|-------------|--------------|-------|-------|
| 16/06/86 | 1 (AM) | .400 | .005 | 409.1 |
| | 3 (AM) | .089 | .010 | 79.1 |
| | 4 (AM) | .163 | .020 | 14.7 |
| | 9 (AM) | .032 | .020 | 1.0 |
| | 1 (PM) | .589 | .003 | 608.5 |
| | 3 (PM) | .098 | .006 | 92.6 |
| | 4 (PM) | .156 | .023 | 13.6 |
| | 9 (PM) | .037 | .022 | 1.3 |
| 17/06/86 | 1 (AM) | .387 | .003 | 397.6 |
| | 3 (AM) | .058 | .006 | 50.9 |
| | 4 (AM) | .145 | .023 | 12.5 |
| | 9 (AM) | .028 | .020 | 0.6 |
| | 1 (PM) | .642 | .004 | 662.8 |
| | 3 (PM) | .110 | .008 | 103.1 |
| | 4 (PM) | .165 | .026 | 14.3 |
| | 9 (PM) | .029 | .023 | 0.4 |
| 18/06/86 | 1 (AM) | .394 | .002 | 405.9 |
| | 3 (AM) | .069 | .006 | 62.4 |
| | 4 (AM) | .157 | .022 | 13.9 |
| | 9 (AM) | .023 | .017 | 0.4 |
| | 1 (PM) | .705 | .003 | 729.7 |
| | 3 (PM) | .096 | .006 | 90.6 |
| | 4 (PM) | .156 | .027 | 13.2 |
| | 9 (PM) | .026 | .021 | 0.3 |
| 19/06/86 | 1 (AM) | .618 | .004 | 637.8 |
| | 3 (AM) | .077 | .006 | 70.7 |
| | 4 (AM) | .152 | .025 | 13.0 |
| | 9 (AM) | .023 | .022 | 0.0 |
| | 1 (PM) | .599 | .000 | 622.1 |
| | 3 (PM) | .078 | .001 | 77.0 |
| | 4 (PM) | .098 | .025 | 7.4 |
| | 9 (PM) | .023 | .023 | 0.0 |
| 20/06/86 | 1 (AM) | .444 | .006 | 454.0 |
| | 3 (AM) | .068 | .007 | 60.3 |
| | 4 (AM) | .141 | .021 | 12.3 |
| | 9 (AM) | .020 | .019 | 0.0 |
| | 1 (PM) | .591 | .003 | 610.6 |
| | 3 (PM) | .083 | .007 | 75.9 |
| | 4 (PM) | .145 | .025 | 12.3 |
| | 9 (PM) | .022 | .021 | 0.0 |

Chlorine values

=====

| | sample site | abs. reading | blank | ug/L |
|----------|-------------|--------------|-------|-------|
| ===== | | | | |
| 23/06/86 | 1 (AM) | .254 | .003 | 258.5 |
| | 3 (AM) | .052 | .006 | 44.5 |
| | 4 (AM) | .107 | .020 | 8.8 |
| | 9 (AM) | .019 | .016 | 0.2 |
| | 1 (PM) | .553 | .004 | 569.7 |
| | 3 (PM) | .066 | .006 | 59.1 |
| | 4 (PM) | .137 | .027 | 11.2 |
| | 9 (PM) | .027 | .025 | 0.1 |
| 24/06/86 | 1 (AM) | .278 | .003 | 283.6 |
| | 3 (AM) | .057 | .006 | 49.7 |
| | 4 (AM) | .128 | .025 | 10.5 |
| | 9 (AM) | .022 | .021 | 0.0 |
| | 1 (PM) | .559 | .002 | 578.0 |
| | 3 (PM) | .064 | .006 | 57.0 |
| | 4 (PM) | .123 | .024 | 10.1 |
| | 9 (PM) | .022 | .021 | 0.0 |
| 25/06/86 | 1 (AM) | .327 | .002 | 335.8 |
| | 3 (AM) | .054 | .006 | 46.6 |
| | 4 (AM) | .119 | .022 | 9.9 |
| | 9 (AM) | .019 | .019 | 0.0 |
| | 1 (PM) | .544 | .003 | 561.3 |
| | 3 (PM) | .074 | .009 | 64.3 |
| | 4 (PM) | .122 | .027 | 9.7 |
| | 9 (PM) | .020 | .020 | 0.0 |
| 26/06/86 | 1 (AM) | .330 | .003 | 337.9 |
| | 3 (AM) | .058 | .007 | 49.7 |
| | 4 (AM) | .132 | .027 | 10.7 |
| | 9 (AM) | .021 | .021 | 0.0 |
| | 1 (PM) | .522 | .003 | 538.4 |
| | 3 (PM) | .066 | .007 | 58.1 |
| | 4 (PM) | .117 | .023 | 9.6 |
| | 9 (PM) | .019 | .019 | 0.0 |
| 27/06/86 | 1 (AM) | .329 | .006 | 333.7 |
| | 3 (AM) | .051 | .007 | 42.4 |
| | 4 (AM) | .120 | .023 | 9.9 |
| | 9 (AM) | .020 | .020 | 0.0 |
| | 1 (PM) | .507 | .003 | 522.7 |
| | 3 (PM) | .065 | .008 | 56.0 |
| | 4 (PM) | .124 | .025 | 10.1 |
| | 9 (PM) | .021 | .021 | 0.0 |

100

Chlorine values
=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| 30/06/86 | | | |
| 1 (AM) | .285 | .003 | 291.1 |
| 3 (AM) | .155 | .007 | 151.3 |
| 4 (AM) | .246 | .027 | 22.3 |
| 9 (AM) | .041 | .022 | 1.8 |
| 1 (PM) | .562 | .003 | 580.1 |
| 3 (PM) | .084 | .007 | 77.2 |
| 4 (PM) | .173 | .027 | 14.8 |
| 9 (PM) | .028 | .023 | 0.4 |

Chlorine values

ppm chlorine

| sample time | abs. reading | blank | ppm CL |
|---------------------|--------------|-------|--------|
| <u>6/27/67 8:30</u> | | | |
| 1 (AM) | .288 | .003 | 395.3 |
| 2 (AM) | .054 | .004 | 49.0 |
| 4 (AM) | .124 | .023 | 10.3 |
| 3 (AM) | .019 | .018 | 0.0 |
| 1 (PM) | .459 | .003 | 473.7 |
| 2 (PM) | .062 | .006 | 55.3 |
| 4 (PM) | .132 | .021 | 11.2 |
| 3 (PM) | .020 | .019 | 0.1 |
| <u>6/27/67 9:25</u> | | | |
| 1 (AM) | .276 | .003 | 381.7 |
| 2 (AM) | .052 | .006 | 44.8 |
| 4 (AM) | .121 | .024 | 9.8 |
| 3 (AM) | .020 | .020 | 0.0 |
| 1 (PM) | .431 | .003 | 443.4 |
| 2 (PM) | .062 | .007 | 54.3 |
| 4 (PM) | .123 | .022 | 10.3 |
| 3 (PM) | .020 | .020 | 0.0 |
| <u>6/27/67 9:55</u> | | | |
| 1 (AM) | .232 | .001 | 237.9 |
| 2 (AM) | .048 | .005 | 41.7 |
| 4 (AM) | .111 | .020 | 9.2 |
| 3 (AM) | .015 | .014 | 0.0 |
| 1 (PM) | .293 | .001 | 405.9 |
| 2 (PM) | .057 | .007 | 49.0 |
| 4 (PM) | .113 | .019 | 9.5 |
| 3 (PM) | .017 | .017 | 0.0 |

Chlorine values

=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| ===== | | | |
| 07/07/86 | | | |
| 1 (AM) | .256 | .002 | 260.2 |
| 3 (AM) | .057 | .003 | 53.8 |
| 4 (AM) | .151 | .013 | 14.4 |
| 9 (AM) | .033 | .011 | 3.4 |
| 1 (PM) | .501 | .002 | 512.9 |
| 3 (PM) | .061 | .005 | 55.9 |
| 4 (PM) | .116 | .016 | 10.6 |
| 9 (PM) | .014 | .014 | 0.2 |
| 08/07/86 | | | |
| 1 (AM) | .152 | .003 | 151.8 |
| 3 (AM) | .051 | .007 | 43.5 |
| 4 (AM) | .134 | .017 | 12.2 |
| 9 (AM) | .016 | .012 | 0.7 |
| 1 (PM) | .489 | .002 | 499.5 |
| 3 (PM) | .053 | .004 | 48.7 |
| 4 (PM) | .136 | .021 | 10.0 |
| 9 (PM) | .017 | .017 | 0.2 |
| 09/07/86 | | | |
| 1 (AM) | .333 | .004 | 237.5 |
| 3 (AM) | .057 | .006 | 50.8 |
| 4 (AM) | .132 | .022 | 11.5 |
| 9 (AM) | .018 | .017 | 0.3 |
| 1 (PM) | .544 | .003 | 556.2 |
| 3 (PM) | .061 | .007 | 53.8 |
| 4 (PM) | .132 | .026 | 11.1 |
| 9 (PM) | .022 | .020 | 0.3 |
| 10/07/86 | | | |
| 1 (AM) | .259 | .003 | 262.2 |
| 3 (AM) | .049 | .003 | 45.6 |
| 4 (AM) | .099 | .021 | 7.3 |
| 9 (AM) | .016 | .017 | 0.0 |
| 1 (PM) | .345 | .002 | 352.0 |
| 3 (PM) | .049 | .008 | 40.4 |
| 4 (PM) | .089 | .023 | 7.0 |
| 9 (PM) | .019 | .018 | 0.3 |
| 11/07/86 | | | |
| 1 (AM) | .263 | .003 | 266.4 |
| 3 (AM) | .052 | .008 | 43.5 |
| 4 (AM) | .093 | .021 | 7.6 |
| 9 (AM) | .014 | .015 | 0.0 |
| 1 (PM) | .510 | .004 | 520.1 |
| 3 (PM) | .060 | .008 | 51.8 |
| 4 (PM) | .098 | .023 | 7.9 |
| 9 (PM) | .020 | .019 | 0.3 |

Chlorine values

=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| <hr/> | | | |
| 14/07/86 | | | |
| 1 (AM) | .298 | .001 | 297.7 |
| 3 (AM) | .060 | .003 | 57.6 |
| 4 (AM) | .139 | .022 | 11.6 |
| 9 (AM) | .019 | .019 | 0.0 |
| 1 (PM) | .558 | .005 | 553.9 |
| 3 (PM) | .139 | .009 | 130.6 |
| 4 (PM) | .164 | .029 | 13.4 |
| 9 (PM) | .027 | .027 | 0.0 |
| 15/07/86 | | | |
| 1 (AM) | .331 | .007 | 324.8 |
| 3 (AM) | .067 | .010 | 57.6 |
| 4 (AM) | .191 | .028 | 16.1 |
| 9 (AM) | .037 | .024 | 1.3 |
| 1 (PM) | .499 | .003 | 496.8 |
| 3 (PM) | .062 | .006 | 56.6 |
| 4 (PM) | .119 | .025 | 9.3 |
| 9 (PM) | .022 | .022 | 0.0 |
| 16/07/86 | | | |
| 1 (AM) | .325 | .005 | 320.8 |
| 3 (AM) | .067 | .009 | 58.6 |
| 4 (AM) | .146 | .024 | 12.1 |
| 9 (AM) | .014 | .014 | 0.0 |
| 1 (PM) | .534 | .006 | 528.9 |
| 3 (PM) | .062 | .012 | 50.6 |
| 4 (PM) | .111 | .022 | 8.8 |
| 9 (PM) | .020 | .020 | 0.0 |
| 17/07/86 | | | |
| 1 (AM) | .422 | .003 | 419.8 |
| 3 (AM) | .052 | .007 | 45.6 |
| 4 (AM) | .101 | .027 | 7.3 |
| 9 (AM) | .027 | .027 | 0.0 |
| 1 (PM) | .593 | .003 | 590.9 |
| 3 (PM) | .062 | .005 | 57.6 |
| 4 (PM) | .118 | .031 | 8.6 |
| 9 (PM) | .026 | .026 | 0.0 |
| 18/07/86 | | | |
| 1 (AM) | .359 | .005 | 354.8 |
| 3 (AM) | .053 | .006 | 47.6 |
| 4 (AM) | .102 | .024 | 7.7 |
| 9 (AM) | .022 | .020 | 0.2 |
| 1 (PM) | .563 | .003 | 560.9 |
| 3 (PM) | .058 | .007 | 51.6 |
| 4 (PM) | .118 | .038 | 7.9 |
| 9 (PM) | .020 | .020 | 0.0 |

10.4

Chlorine values

=====

| sample | site | abs. | reading | blank | ug/L |
|----------|--------|------|---------|-------|------|
| ===== | | | | | |
| 21/07/86 | | | | | |
| | 1 (AM) | .252 | .003 | 253.6 | |
| | 3 (AM) | .059 | .006 | 53.5 | |
| | 4 (AM) | .131 | .023 | 11.0 | |
| | 9 (AM) | .019 | .019 | 0.0 | |
| 22/07/86 | | | | | |
| | 1 (AM) | .253 | .003 | 254.7 | |
| | 3 (AM) | .056 | .005 | 51.5 | |
| | 4 (AM) | .123 | .022 | 10.3 | |
| | 9 (AM) | .019 | .019 | 0.0 | |
| | 1 (PM) | .443 | .002 | 449.7 | |
| | 3 (PM) | .053 | .005 | 48.4 | |
| | 4 (PM) | .091 | .024 | 6.8 | |
| | 9 (PM) | .018 | .018 | 0.0 | |
| 23/07/86 | | | | | |
| | 4 (AM) | .108 | .023 | 8.7 | |
| | 9 (AM) | .018 | .018 | 0.0 | |
| 24/07/86 | | | | | |
| | 1 (AM) | .276 | .002 | 279.2 | |
| | 3 (AM) | .081 | .007 | 74.9 | |
| | 4 (AM) | .121 | .027 | 9.6 | |
| | 9 (AM) | .043 | .029 | 1.4 | |
| | 1 (PM) | .357 | .000 | 363.9 | |
| | 3 (PM) | .080 | .001 | 80.1 | |
| | 4 (PM) | .158 | .028 | 13.3 | |
| | 9 (PM) | .024 | .024 | 0.0 | |
| 25/07/86 | | | | | |
| | 1 (AM) | .174 | .002 | 175.0 | |
| | 3 (AM) | .049 | .004 | 45.3 | |
| | 4 (AM) | .160 | .028 | 13.5 | |
| | 9 (AM) | .023 | .022 | 0.1 | |
| | 1 (PM) | .349 | .003 | 352.7 | |
| | 3 (PM) | .052 | .003 | 49.4 | |
| | 4 (PM) | .102 | .022 | 8.1 | |
| | 9 (PM) | .020 | .019 | 0.1 | |

Chlorine values

=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| ===== | | | |
| 28/07/86 | | | |
| 1 (AM) | .190 | .003 | 189.4 |
| 3 (AM) | .077 | .004 | 72.9 |
| 4 (AM) | .170 | .024 | 14.9 |
| 9 (AM) | .028 | .020 | 0.8 |
| 1 (PM) | .424 | .002 | 429.5 |
| 3 (PM) | .100 | .010 | 90.2 |
| 4 (PM) | .173 | .028 | 14.8 |
| 9 (PM) | .030 | .025 | 0.5 |
| 29/07/86 | | | |
| 1 (AM) | .190 | .002 | 190.4 |
| 3 (AM) | .079 | .007 | 71.9 |
| 4 (AM) | .206 | .028 | 18.2 |
| 9 (AM) | .034 | .021 | 1.3 |
| 1 (PM) | .401 | .002 | 406.0 |
| 3 (PM) | .057 | .004 | 52.4 |
| 4 (PM) | .123 | .027 | 9.8 |
| 9 (PM) | .023 | .023 | 0.0 |
| 30/07/86 | | | |
| 1 (AM) | .177 | .003 | 176.1 |
| 3 (AM) | .044 | .006 | 37.1 |
| 4 (AM) | .108 | .021 | 8.9 |
| 9 (AM) | .018 | .018 | 0.0 |
| 1 (PM) | .342 | .000 | 347.8 |
| 3 (PM) | .051 | .002 | 48.3 |
| 4 (PM) | .108 | .021 | 8.9 |
| 9 (PM) | .020 | .020 | 0.0 |
| 31/07/86 | | | |
| 1 (AM) | .163 | .002 | 162.8 |
| 3 (AM) | .041 | .003 | 37.1 |
| 4 (AM) | .098 | .022 | 7.8 |
| 9 (AM) | .020 | .020 | 0.0 |
| 1 (PM) | .363 | .002 | 367.2 |
| 3 (PM) | .048 | .003 | 44.3 |
| 4 (PM) | .112 | .026 | 8.8 |
| 9 (PM) | .020 | .020 | 0.0 |
| 01/08/86 | | | |
| 1 (AM) | .189 | .002 | 189.4 |
| 3 (AM) | .040 | .003 | 36.1 |
| 4 (AM) | .102 | .022 | 8.2 |
| 9 (AM) | .018 | .018 | 0.0 |
| 9 (PM) | .017 | .017 | 0.0 |

Chlorine values

=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| 05/08/86 | | | |
| 1 (AM) | .199 | .003 | 200.8 |
| 3 (AM) | .056 | .004 | 52.0 |
| 4 (AM) | .157 | .023 | 13.6 |
| 9 (AM) | .021 | .020 | 0.3 |
| 9 (PM) | .023 | .023 | 0.2 |
| 06/08/86 | | | |
| 9 (PM) | .036 | .029 | 0.9 |
| 07/08/86 | | | |
| 1 (AM) | .256 | .003 | 259.7 |
| 3 (AM) | .060 | .005 | 55.1 |
| 4 (AM) | .184 | .027 | 15.9 |
| 9 (AM) | .038 | .024 | 1.6 |
| 9 (PM) | .021 | .021 | 0.2 |
| 08/08/86 | | | |
| 1 (AM) | .246 | .003 | 249.4 |
| 3 (AM) | .051 | .006 | 44.8 |
| 4 (AM) | .121 | .023 | 10.0 |
| 9 (AM) | .023 | .021 | 0.4 |
| 9 (PM) | .021 | .021 | 0.2 |

Chlorine values

=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| <hr/> | | | |
| 13/08/86 | | | |
| 1 (AM) | .205 | .004 | 205.3 |
| 3 (AM) | .052 | .007 | 44.5 |
| 4 (AM) | .139 | .022 | 11.8 |
| 9 (AM) | .026 | .021 | 0.5 |
| 9 (PM) | .023 | .022 | 0.1 |
| 13/08/86 | | | |
| 1 (AM) | .176 | .002 | 177.4 |
| 3 (AM) | .062 | .003 | 58.6 |
| 4 (AM) | .124 | .028 | 9.7 |
| 9 (AM) | .024 | .023 | 0.1 |
| 9 (PM) | .028 | .025 | 0.3 |
| 14/08/86 | | | |
| 1 (AM) | .252 | .006 | 251.6 |
| 3 (AM) | .068 | .008 | 59.9 |
| 4 (AM) | .148 | .028 | 12.1 |
| 9 (AM) | .029 | .029 | 0.0 |
| 9 (PM) | .023 | .022 | 0.1 |
| 15/08/86 | | | |
| 1 (AM) | .145 | .006 | 141.4 |
| 3 (AM) | .073 | .008 | 65.1 |
| 4 (AM) | .182 | .028 | 15.5 |
| 9 (AM) | .032 | .027 | 0.5 |
| 9 (PM) | .034 | .028 | 0.6 |

Chlorine values
=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| 18/08/86 | | | |
| 1 (AM) | .193 | .004 | 195.8 |
| 3 (AM) | .084 | .006 | 80.1 |
| 4 (AM) | .223 | .030 | 19.5 |
| 9 (AM) | .043 | .028 | 1.4 |
| 9 (PM) | .022 | .022 | 0.0 |
| 19/08/86 | | | |
| 1 (AM) | .188 | .005 | 189.5 |
| 3 (AM) | .052 | .007 | 45.7 |
| 4 (AM) | .139 | .027 | 11.3 |
| 9 (AM) | .025 | .025 | 0.0 |
| 9 (PM) | .022 | .022 | 0.0 |
| 20/08/86 | | | |
| 1 (AM) | .168 | .003 | 170.7 |
| 3 (AM) | .072 | .004 | 70.7 |
| 4 (AM) | .118 | .022 | 9.5 |
| 9 (AM) | .021 | .021 | 0.0 |
| 9 (PM) | .032 | .025 | 0.6 |
| 21/08/86 | | | |
| 1 (AM) | .246 | .003 | 252.0 |
| 3 (AM) | .060 | .006 | 55.0 |
| 4 (AM) | .176 | .027 | 15.0 |
| 9 (AM) | .020 | .025 | 0.4 |
| 9 (PM) | .022 | .026 | 0.5 |
| 22/08/86 | | | |
| 1 (AM) | .196 | .003 | 199.9 |
| 3 (AM) | .047 | .003 | 44.6 |
| 4 (AM) | .113 | .024 | 8.9 |
| 9 (AM) | .022 | .022 | 0.0 |
| 9 (PM) | .019 | .019 | 0.0 |

Chlorine values

=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| ===== | | | |
| 25/08/86 | | | |
| 1 (AM) | .237 | .007 | 238.2 |
| 3 (AM) | .057 | .005 | 50.3 |
| 4 (AM) | .162 | .025 | 13.8 |
| 9 (AM) | .031 | .026 | 0.3 |
| 9 (PM) | .028 | .025 | 0.1 |
| 26/08/86 | | | |
| 1 (AM) | .203 | .007 | 202.3 |
| 3 (AM) | .073 | .004 | 68.3 |
| 4 (AM) | .190 | .027 | 16.3 |
| 9 (AM) | .040 | .026 | 1.2 |
| 9 (PM) | .043 | .030 | 1.1 |
| 27/08/86 | | | |
| 1 (AM) | .213 | .005 | 214.9 |
| 3 (AM) | .098 | .004 | 94.7 |
| 4 (AM) | .233 | .032 | 20.1 |
| 9 (AM) | .076 | .031 | 4.3 |
| 9 (PM) | .042 | .032 | 0.8 |
| 28/08/86 | | | |
| 1 (AM) | .253 | .005 | 257.1 |
| 3 (AM) | .092 | .006 | 86.2 |
| 4 (AM) | .216 | .031 | 18.5 |
| 9 (AM) | .051 | .029 | 2.0 |
| 9 (PM) | .032 | .029 | 0.2 |
| 29/08/86 | | | |
| 1 (AM) | .267 | .003 | 274.0 |
| 3 (AM) | .086 | .005 | 80.9 |
| 4 (AM) | .219 | .031 | 18.8 |
| 9 (AM) | .033 | .030 | 0.1 |
| 9 (PM) | .038 | .032 | 0.4 |

Chlorine values

=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| 02/09/86 | | | |
| 1 (AM) | .551 | .010 | 550.3 |
| 3 (AM) | .131 | .007 | 125.1 |
| 4 (AM) | .285 | .035 | 24.7 |
| 9 (AM) | .059 | .033 | 2.4 |
| 9 (PM) | .051 | .038 | 1.1 |
| 03/09/86 | | | |
| 1 (AM) | .345 | .007 | 343.3 |
| 3 (AM) | .112 | .003 | 109.8 |
| 4 (AM) | .301 | .032 | 26.6 |
| 9 (AM) | .062 | .036 | 2.4 |
| 9 (PM) | .041 | .034 | 0.5 |
| 04/09/86 | | | |
| 1 (AM) | .336 | .008 | 333.1 |
| 3 (AM) | .112 | .005 | 107.8 |
| 4 (AM) | .284 | .033 | 24.8 |
| 9 (AM) | .057 | .033 | 2.2 |
| 9 (PM) | .047 | .028 | 1.7 |
| 05/09/86 | | | |
| 1 (AM) | .341 | .006 | 340.2 |
| 3 (AM) | .082 | .004 | 78.2 |
| 4 (AM) | .202 | .025 | 17.4 |
| 9 (AM) | .032 | .026 | 0.4 |
| 9 (PM) | .030 | .026 | 0.2 |

Chlorine values

=====

| | sample site | abs. reading | blank | ug/L |
|----------|-------------|--------------|-------|-------|
| ===== | | | | |
| 08/09/86 | 1 (AM) | .395 | .007 | 283.5 |
| | 3 (AM) | .088 | .003 | 85.2 |
| | 4 (AM) | .233 | .027 | 20.7 |
| | 9 (AM) | .039 | .026 | 1.3 |
| | 9 (PM) | .033 | .029 | 0.4 |
| 09/09/86 | 1 (AM) | .393 | .007 | 381.5 |
| | 3 (AM) | .098 | .006 | 92.1 |
| | 4 (AM) | .258 | .030 | 22.9 |
| | 9 (AM) | .043 | .028 | 1.5 |
| | 9 (PM) | .033 | .032 | 0.1 |
| 10/09/86 | 1 (AM) | .307 | .008 | 295.8 |
| | 3 (AM) | .091 | .011 | 80.3 |
| | 4 (AM) | .209 | .028 | 18.2 |
| | 9 (AM) | .029 | .027 | 0.2 |
| | 9 (PM) | .028 | .028 | 0.0 |
| 11/09/86 | 1 (AM) | .407 | .005 | 397.2 |
| | 3 (AM) | .082 | .003 | 79.3 |
| | 4 (AM) | .189 | .025 | 16.5 |
| | 9 (AM) | .028 | .026 | 0.2 |
| | 9 (PM) | .028 | .028 | 0.0 |
| 12/09/86 | 1 (AM) | .327 | .007 | 316.5 |
| | 3 (AM) | .079 | .003 | 76.2 |
| | 4 (AM) | .194 | .026 | 16.9 |
| | 9 (AM) | .027 | .025 | 0.2 |
| | 9 (PM) | .029 | .028 | 0.1 |

Chlorine values

=====

| sample site | abs. reading | blank | ug/L |
|-------------|--------------|-------|-------|
| ===== | | | |
| 15/09/86 | | | |
| 1 (AM) | .400 | .008 | 400.0 |
| 3 (AM) | .092 | .003 | 87.1 |
| 4 (AM) | .243 | .026 | 21.6 |
| 9 (AM) | .032 | .025 | 0.6 |
| 9 (PM) | .032 | .031 | 0.0 |
| 16/09/86 | | | |
| 1 (AM) | .395 | .008 | 394.9 |
| 3 (AM) | .106 | .004 | 100.6 |
| 4 (AM) | .263 | .031 | 23.1 |
| 9 (AM) | .046 | .032 | 1.3 |
| 9 (PM) | .044 | .032 | 1.1 |
| 17/09/86 | | | |
| 1 (AM) | .404 | .006 | 406.2 |
| 3 (AM) | .154 | .004 | 150.1 |
| 4 (AM) | .262 | .030 | 23.1 |
| 9 (AM) | .040 | .029 | 1.0 |
| 9 (PM) | .048 | .034 | 1.3 |
| 18/09/86 | | | |
| 1 (AM) | .512 | .008 | 515.7 |
| 3 (AM) | .091 | .003 | 86.1 |
| 4 (AM) | .253 | .033 | 21.9 |
| 9 (AM) | .051 | .037 | 1.3 |
| 9 (PM) | . | . | 1.4 |
| 19/09/86 | | | |
| 1 (PM) | . | . | 547.8 |
| 9 (PM) | . | . | 1.2 |

Chlorine values

=====

| | sample site | abs. reading | blank | ug/L |
|----------|-------------|--------------|-------|-------|
| | ===== | ===== | ===== | ===== |
| 22/09/86 | 1 (AM) | . | . | 627.3 |
| | 9 (PM) | . | . | 0.4 |
| 23/09/86 | 1 (AM) | . | . | 574.6 |
| | 9 (AM) | . | . | 0.1 |
| 24/09/86 | 1 (AM) | . | . | 238.3 |
| | 9 (AM) | . | . | 0.9 |
| 25/09/86 | 1 (AM) | . | . | 162.9 |
| | 9 (AM) | . | . | 1.0 |
| 26/09/86 | 1 (AM) | . | . | 337.3 |
| | 9 (AM) | . | . | 0.5 |

Chlorine values
=====

| | sample site | abs. reading | blank | ug/L |
|----------|-------------|--------------|-------|-------|
| | ===== | ===== | ===== | ===== |
| 29/09/86 | | | | |
| | 1 (AM) | . | . | 427.6 |
| | 9 (AM) | . | . | 0.7 |
| 30/09/86 | | | | |
| | 1 (AM) | . | . | 375.9 |
| | 9 (AM) | . | . | 0.3 |