# SURFACE WATER MONTHLY OPERATING REPORT

**FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER**

***Summary Page***

**PUBLIC WATER SYSTEM NAME:** City of Corsicana

**PLANT NAME OR NUMBER:** Lake Halbert

I certify that I am familiar with the information contained in this report and that, to the best of my knowledge, the information is true, complete, and accurate.

**PWS ID No.:** 1750002

**Operator's Signature:**

**Report for the Month of:** June 2007

**Certificate No. & Grade:** W00012234 A

**Date:** July 2, 2007

## TREATMENT PLANT PERFORMANCE

| | | | |
|---|---|---|---|
| Total number of turbidity readings: | 75 | Number of 4-hour periods when plant was off-line: | 105 |
| Number of readings above 0.10 NTU: | 15 | Number of 4-hour periods when plant was on-line | |
| Number of readings above 0.3 NTU: | 0 | but turbidity data was not collected: | 0 |
| Number of readings above 0.5 NTU: | 0 | | |
| Number of readings above 1.0 NTU: | 0 | | |
| Maximum allowable turbidity level: | 0.3 | Number of days with readings above 1.0 NTU: | 0 (2) |
| Percentage of readings above this limit: | 0.0 % (1) | Number of days with readings above 5.0 NTU: | 0 (3) |

**Statistical Summary**

| | | | |
|---|---|---|---|
| Maximum turbidity reading: | 0.15 NTU | Average turbidity value: | 0.09 NTU |
| Minimum turbidity reading: | 0.06 NTU | Standard deviation: | 0.022 NTU |

Additional report(s) for individual filter monitoring required: (●) NONE ( ) Filter Profile ( ) Filter Assessment ( ) CPE

Additional report(s) for individual filter monitoring submitted: (●) NONE ( ) Filter Profile ( ) Filter Assessment ( ) CPE

Number of days when plant was on-line but individual filter turbidity data was not collected: 0

| | | | |
|---|---|---|---|
| Number of days with a low CT for no more than 4.0 consecutive hours: | 0 | Average log inactivation for Giardia: | NA |
| | | Average log inactivation for viruses: | NA |
| Number of days with a low CT for more than 4.0 consecutive hours: | 0 (4) | Number of days when profiling data was not collected: | 27 |
| | | Number of days when CT data was not collected: | 27 |

Minimum disinfectant residual required leaving the plant: 0.5 mg/L ( ) Free Chlorine (●) Total Chlorine

| | | | |
|---|---|---|---|
| Number of days with a low residual for no more than 4.0 consecutive hours: | 0 | | |
| Number of days with a low residual for more than 4.0 consecutive hours: | 0 (5) | Number of days when disinfectant residual leaving the plant was not properly monitored: | 0 |

## DISTRIBUTION SYSTEM

Minimum disinfectant residual required in distribution system: 0.5 mg/L ( ) Free Chlorine (●) Total Chlorine

| | | | |
|---|---|---|---|
| Total number of readings this month: | 60 | | |
| Average disinfectant residual value: | 1.67 | Percentage of readings with a low residual this month: | 0.0 % (6A) |
| Number of readings with a low residual: | 0 | | |
| Number of readings with no detectable residual: | 0 | Percentage of readings with a low residual last month: | 0.0 % (6B) |

## PUBLIC NOTIFICATION

| TREATMENT TECHNIQUE VIOLATIONS | YES/NO | If YES, date when notice was given to: COMMISSION‡ | CUSTOMERS* |
|---|---|---|---|
| Were more than 5.0% of the turbidity readings above the acceptable level? - see (1) above | No | | |
| Were there any days with turbidity readings above 1.0 NTU? - see (2) above | No | | |
| Were there any days with turbidity readings above 5.0 NTU? - see (3) above | No | | |
| Were there any periods when the plant failed to meet the CT requirements for more than 4.0 consecutive hours? - see (4) above | No | | |
| Were there any periods when the residuals leaving the plant fell below the acceptable level for more than 4.0 consecutive hours? - see (5) above | No | | |
| Were more than 5.0% of the residuals in the distribution system below the acceptable level for two months in a row? - see (6A) and (6B) above | No | | |

‡Due by the end of the next business day.

* Copies of each Public Notice must accompany this report.

***Submit the report by the 10th of the month following the reporting period to:***

**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**
**WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)**
**P.O. BOX 13087, AUSTIN, TEXAS 78711-3087**

# SURFACE WATER MONTHLY OPERATING REPORT

**FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES**
**OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)**
***Turbidity Data Page***

**PUBLIC WATER SYSTEM NAME:** City of Corsicana
**PLANT NAME OR NUMBER:** Lake Halbert
**PWS ID No.:** 1750002
**Connections:** 11,500
**Month:** June **Year:** 2007
**Population:** 28,500

## PERFORMANCE DATA

| Date | Raw Water Pumpage (MGD) | Treated Water Pumpage (MGD) | RAW WATER ANALYSES | | SETTLED WATER TURBIDITY (Optional Data) | | | | | | FINISHED WATER QUALITY | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Basin No. | | | | | | Turbidity | | | | | | Lowest | |
| | | | NTU | Alk. | 1 | 2 | 3 | 4 | 5 | 6 | NTU1 | NTU2 | NTU3 | NTU4 | NTU5 | NTU6 | Residual | Time* |
| 1 | 0.000 | 0.000 | X | X | X | X | | | | | X | X | X | X | X | X | X | |
| 2 | 1.155 | 1.151 | 58 | 86 | | | | | | | X | X | X | 0.11 | 0.09 | 0.07 | 2.5 | |
| 3 | 0.496 | 0.409 | 46 | 87 | | | | | | | X | X | X | X | X | 0.10 | 2.9 | |
| 4 | 0.818 | 0.721 | 47 | 88 | | | | | | | 0.07 | 0.08 | 0.09 | X | X | X | 3.5 | |
| 5 | 1.450 | 1.433 | 50 | 92 | | | | | | | X | X | X | X | 0.14 | 0.13 | 3.3 | |
| 6 | 0.000 | 0.000 | X | X | X | X | | | | | X | X | X | X | X | X | X | |
| 7 | 2.350 | 2.346 | 30 | 91 | | | | | | | X | X | X | 0.10 | 0.11 | 0.10 | 3.0 | |
| 8 | 0.625 | 0.619 | 32 | 92 | | | | | | | 0.10 | 0.11 | X | X | X | X | 3.0 | |
| 9 | 2.025 | 2.011 | 42 | 85 | | | | | | | X | X | X | 0.15 | 0.10 | 0.08 | 3.2 | |
| 10 | 1.400 | 1.392 | 35 | 86 | | | | | | | 0.07 | 0.06 | X | X | X | X | 3.3 | |
| 11 | 1.907 | 1.769 | 48 | 86 | | | | | | | X | X | 0.08 | 0.07 | 0.08 | 0.09 | 2.6 | |
| 12 | 1.750 | 1.742 | 56 | 87 | | | | | | | 0.10 | 0.08 | 0.09 | 0.08 | X | X | 3.2 | |
| 13 | 2.288 | 2.136 | 39 | 88 | | | | | | | X | X | X | 0.07 | 0.07 | 0.08 | 3.0 | |
| 14 | 2.375 | 2.367 | 56 | 88 | | | | | | | 0.11 | 0.10 | 0.10 | 0.10 | 0.06 | X | 3.0 | |
| 15 | 0.000 | 0.000 | X | X | X | X | | | | | X | X | X | X | X | X | X | |
| 16 | 1.332 | 1.226 | 35 | 87 | | | | | | | X | X | X | X | 0.09 | 0.06 | 3.1 | |
| 17 | 0.300 | 0.277 | 43 | 90 | | | | | | | 0.12 | X | X | X | X | X | 3.4 | |
| 18 | 1.200 | 1.189 | 49 | 94 | | | | | | | X | X | X | X | 0.11 | 0.09 | 3.4 | |
| 19 | 1.155 | 1.096 | 43 | 91 | | | | | | | 0.08 | 0.08 | 0.09 | 0.09 | X | X | 3.2 | |
| 20 | 1.520 | 1.280 | 56 | 79 | | | | | | | X | X | X | 0.12 | 0.10 | 0.07 | 3.3 | |
| 21 | 0.630 | 0.623 | 61 | 90 | | | | | | | 0.11 | 0.10 | X | X | X | X | 3.7 | |
| 22 | 1.230 | 1.266 | 56 | 111 | | | | | | | X | X | X | X | 0.09 | 0.07 | 1.3 | |
| 23 | 2.725 | 2.708 | 49 | 95 | | | | | | | 0.15 | 0.13 | 0.10 | 0.09 | 0.07 | 0.06 | 2.9 | |
| 24 | 0.375 | 0.366 | 40 | 95 | | | | | | | 0.06 | 0.08 | X | X | X | X | 3.3 | |
| 25 | 1.600 | 1.595 | 50 | 81 | | | | | | | X | 0.13 | 0.09 | 0.08 | 0.07 | 0.08 | 1.6 | |
| 26 | 1.608 | 1.566 | 34 | 71 | | | | | | | X | X | X | X | 0.10 | 0.09 | 3.4 | |
| 27 | 0.850 | 0.847 | 31 | 101 | | | | | | | X | X | X | 0.13 | 0.10 | X | 2.7 | |
| 28 | 1.175 | 1.166 | 32 | 93 | | | | | | | X | X | 0.09 | 0.08 | X | X | 2.8 | |
| 29 | 1.375 | 1.368 | 30 | 91 | | | | | | | X | X | X | 0.07 | 0.07 | 0.06 | 2.1 | |
| 30 | 0.300 | 0.286 | 36 | 90 | | | | | | | 0.06 | 0.06 | X | X | X | X | 3.5 | |
| 31 | | | | | | | | | | | | | | | | | | |
| Total | 36.014 | 34.955 | | | | | | | | | | | | | | | | |
| Avg | 1.200 | 1.165 | | | | | | | | | | | | | | | | |
| Max | 2.725 | 2.708 | | | | | | | | | | | | | | | | |
| Min | 0.000 | 0.000 | | | | | | | | | | | | | | | | |

* **NOTE: ONLY use the "Time*" column to show the length of time that the disinfectant residual entering the distribution system fell below the acceptable level.**

**SUBMITTED BY:** _____ **Certificate No. and Grade:** W00012234 A **Date:** July 2, 2007

# SURFACE WATER MONTHLY OPERATING REPORT

**FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES**
**OR GROUND WATER SOURCES UNDER THE influence OF SURFACE WATER (cont.)**
***Filter Data Page***

**PUBLIC WATER SYSTEM NAME:** City of Corsicana
**PLANT NAME OR NUMBER:** Lake Halbert
**PWS ID No.:** 1750002
**Month:** June **Year:** 2007

## PERFORMANCE DATA

**INDIVIDUAL FILTER TURBIDITY**

| Date | Filter No. 1 | | Filter No. 2 | | Filter No. 3 | | Filter No. 4 | | Filter No. 5 | | Filter No. 6 | | Filter No. 7 | | Filter No. 8 | | Filter No. 9 | | Filter No. 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Max | 4 Hrs | Max | 4 Hrs | Max | 4 Hrs | Max | 4 Hrs | Max | 4 Hrs | Max | 4 Hrs | Max | 4 Hrs | Max | 4 Hrs | Max | 4 Hrs | Max | 4 Hrs |
| 1 | X | X | X | X | X | X | X | X | | | | | | | | | | | | |
| 2 | 0.07 | 0.07 | 0.05 | 0.05 | 0.07 | 0.07 | 0.11 | 0.11 | | | | | | | | | | | | |
| 3 | 0.06 | 0.06 | 0.05 | 0.05 | 0.07 | 0.07 | 0.12 | 0.12 | | | | | | | | | | | | |
| 4 | 0.09 | X | 0.05 | X | 0.18 | 0.18 | 0.13 | X | | | | | | | | | | | | |
| 5 | 0.15 | 0.15 | 0.14 | 0.14 | 0.13 | 0.13 | 0.15 | 0.15 | | | | | | | | | | | | |
| 6 | X | X | X | X | X | X | X | X | | | | | | | | | | | | |
| 7 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.10 | 0.12 | 0.11 | | | | | | | | | | | | |
| 8 | 0.09 | X | 0.10 | X | 0.11 | X | 0.12 | X | | | | | | | | | | | | |
| 9 | 0.07 | 0.07 | 0.08 | 0.08 | 0.09 | 0.09 | 0.10 | 0.10 | | | | | | | | | | | | |
| 10 | 0.05 | X | 0.05 | X | 0.08 | X | 0.09 | X | | | | | | | | | | | | |
| 11 | 0.19 | 0.19 | 0.06 | 0.04 | 0.06 | 0.06 | 0.17 | 0.14 | | | | | | | | | | | | |
| 12 | 0.11 | X | 0.05 | X | 0.06 | X | 0.16 | X | | | | | | | | | | | | |
| 13 | 0.09 | 0.08 | 0.06 | 0.05 | 0.17 | 0.17 | 0.12 | 0.11 | | | | | | | | | | | | |
| 14 | 0.06 | X | 0.13 | 0.09 | 0.12 | 0.11 | 0.10 | 0.09 | | | | | | | | | | | | |
| 15 | X | X | X | X | X | X | X | X | | | | | | | | | | | | |
| 16 | 0.04 | 0.04 | 0.10 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | | | | | | | | | | | | |
| 17 | 0.05 | X | 0.09 | X | 0.09 | X | X | X | | | | | | | | | | | | |
| 18 | 0.05 | 0.05 | 0.08 | 0.08 | 0.08 | 0.08 | 0.14 | 0.14 | | | | | | | | | | | | |
| 19 | 0.04 | X | 0.07 | X | 0.07 | X | 0.11 | X | | | | | | | | | | | | |
| 20 | 0.13 | 0.13 | 0.07 | 0.07 | 0.18 | 0.18 | 0.13 | 0.10 | | | | | | | | | | | | |
| 21 | 0.10 | X | 0.16 | 0.15 | 0.13 | X | 0.13 | X | | | | | | | | | | | | |
| 22 | 0.09 | 0.09 | 0.19 | 0.18 | 0.14 | 0.14 | 0.21 | 0.21 | | | | | | | | | | | | |
| 23 | 0.08 | X | 0.12 | X | 0.11 | X | 0.15 | X | | | | | | | | | | | | |
| 24 | 0.05 | X | 0.07 | X | 0.07 | X | X | X | | | | | | | | | | | | |
| 25 | 0.06 | 0.06 | 0.07 | 0.06 | 0.06 | 0.06 | 0.12 | 0.09 | | | | | | | | | | | | |
| 26 | 0.06 | 0.05 | 0.05 | 0.05 | 0.06 | 0.05 | 0.09 | 0.09 | | | | | | | | | | | | |
| 27 | 0.10 | 0.10 | 0.04 | 0.04 | 0.05 | 0.05 | 0.08 | 0.08 | | | | | | | | | | | | |
| 28 | 0.09 | 0.09 | 0.05 | 0.05 | 0.05 | 0.05 | 0.08 | 0.08 | | | | | | | | | | | | |
| 29 | 0.11 | 0.10 | 0.05 | 0.05 | 0.05 | 0.05 | 0.07 | 0.06 | | | | | | | | | | | | |
| 30 | 0.10 | X | 0.05 | X | 0.05 | X | 0.07 | X | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | |

**SUMMARY & COMPLIANCE ACTIONS**

| Criteria | Filter No. 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Plant |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Number of days with event(s) above 0.5 NTU at 4.0 hrs this month | 0 | 0 | 0 | 0 | | | | | | | |
| Number of days with event(s) above 1.0 NTU this month | 0 | 0 | 0 | 0 | | | | | | | |
| Number of days with event(s) above 1.0 NTU last month | 0 | 0 | 0 | 0 | | | | | | | |
| Number of days with event(s) above 1.0 NTU two months ago | 0 | 0 | 0 | 0 | | | | | | | |
| Total number of days with event(s) above 1.0 NTU in three months | 0 | 0 | 0 | 0 | | | | | | | |
| Number of days with event(s) above 2.0 NTU this month | | | | | | | | | | | 0 |
| Number of days with event(s) above 2.0 NTU last month | | | | | | | | | | | 0 |
| Does the plant have an approved Corrective Action Plan? | N | N | N | N | | | | | | | N |
| Is the plant required to submit a Filter Profile Report? | N | N | N | N | | | | | | | |
| Is the plant required to submit a Filter Assessment Report? | N | N | N | N | | | | | | | |
| Is the plant required to submit a Request for Compliance CPE? | | | | | | | | | | | N |

**SUBMITTED BY:** _____ **Certificate No. and Grade:** W00012234 A **Date:** July 2, 2007

# SURFACE WATER MONTHLY OPERATING REPORT

**FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES**
**OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)**
***Disinfection Data Page***

**PUBLIC WATER SYSTEM NAME:** City of Corsicana
**PLANT NAME OR NUMBER:** Lake Halbert
**PWS ID No.:** 1750002
**Month:** June **Year:** 2007

## DISINFECTION PROCESS PARAMETERS

| APPROVED CT STUDY PARAMETERS | | | | | | PERFORMANCE STANDARDS | |
|---|---|---|---|---|---|---|---|
| | Disinfection Zones | | | | | Log Inactivations | |
| Parameters | D1 | D2 | D3 | D4 | D5 | Giardia lamblia Cysts | Viruses |
| Flow Rate (MGD) | 4.000 | 4.000 | 4.000 | | | 0.5 | 2.0 |
| $T_{10}$ (minutes) | 78.3 | 15.1 | 9.0 | | | | |

## PERFORMANCE DATA

| | DISINFECTION PROCESS DATA | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Disinfectant | C (mg/L) | Flow (MGD) | Temp (°C) | pH | Giardia Log | Virus Log | Inact. Ratio | Time■ |
| 1 | NA *D1* | | | | | | | | |
| | NA *D2* | | | | | | | | |
| | NA *D3* | | | | | NA | NA | NA | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 2 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.4 | 2.500 | 24.0 | 7.3 | | | | |
| | CLA *D3* | 2.5 | 2.500 | 24.0 | 7.6 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 3 | NA *D1* | | | | | | | | |
| | FCL *D2* | 2.7 | 2.500 | 22.0 | 7.3 | | | | |
| | CLA *D3* | 2.9 | 2.500 | 23.0 | 7.2 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 4 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.9 | 2.500 | 25.0 | 7.3 | | | | |
| | CLA *D3* | 3.9 | 2.500 | 25.0 | 7.3 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 5 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.8 | 3.800 | 24.0 | 7.2 | | | | |
| | CLA *D3* | 3.7 | 3.800 | 24.0 | 7.1 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 6 | NA *D1* | | | | | | | | |
| | NA *D2* | | | | | | | | |
| | NA *D3* | | | | | NA | NA | NA | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 7 | NA *D1* | | | | | | | | |
| | FCL *D2* | 4.0 | 3.800 | 24.0 | 7.1 | | | | |
| | CLA *D3* | 3.1 | 3.800 | 25.0 | 7.4 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 8 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.2 | 3.800 | 26.0 | 7.3 | | | | |
| | CLA *D3* | 3.0 | 3.800 | 26.0 | 7.3 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |

## PERFORMANCE DATA

| | DISINFECTION PROCESS DATA | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Disinfectant | C (mg/L) | Flow (MGD) | Temp (°C) | pH | Giardia Log | Virus Log | Inact. Ratio | Time■ |
| 9 | NA *D1* | | | | | | | | |
| | FCL *D2* | 2.8 | 3.800 | 26.0 | 7.2 | | | | |
| | CLA *D3* | 3.2 | 3.800 | 27.0 | 7.4 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 10 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.6 | 3.800 | 26.0 | 7.4 | | | | |
| | CLA *D3* | 3.3 | 3.800 | 27.0 | 7.4 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 11 | NA *D1* | | | | | | | | |
| | FCL *D2* | 2.5 | 2.500 | 26.0 | 7.0 | | | | |
| | CLA *D3* | 2.6 | 2.500 | 26.0 | 7.1 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 12 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.6 | 3.500 | 28.0 | 7.2 | | | | |
| | CLA *D3* | 3.2 | 3.500 | 28.0 | 7.2 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 13 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.3 | 3.900 | 27.0 | 7.0 | | | | |
| | CLA *D3* | 3.0 | 3.900 | 27.0 | 7.2 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 14 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.4 | 3.900 | 26.0 | 7.2 | | | | |
| | CLA *D3* | 3.3 | 3.900 | 27.0 | 7.3 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 15 | NA *D1* | | | | | | | | |
| | NA *D2* | | | | | | | | |
| | NA *D3* | | | | | NA | NA | NA | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 16 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.5 | 3.800 | 25.0 | 7.2 | | | | |
| | CLA *D3* | 3.1 | 3.800 | 26.0 | 7.3 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |

**NOTE:** ■ **ONLY use the "Time■" column to show the length of time that the total inactivation ratio was less than 1.00.**

**SUBMITTED BY:** _____ **Certificate No. and Grade:** W00012234 A **Date:** July 2, 2007

# SURFACE WATER MONTHLY OPERATING REPORT

**FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES**
**OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)**
***Disinfection Data Page (cont.)***

**PUBLIC WATER SYSTEM NAME:** City of Corsicana
**PLANT NAME OR NUMBER:** Lake Halbert
**PWS ID No.:** 1750002
**Month:** June **Year:** 2007

## DISINFECTION PROCESS PARAMETERS

| APPROVED CT STUDY PARAMETERS | | | | | | PERFORMANCE STANDARDS | |
|---|---|---|---|---|---|---|---|
| | Disinfection Zones | | | | | Log Inactivations | |
| Parameters | D1 | D2 | D3 | D4 | D5 | Giardia lamblia Cysts | Virus |
| Flow Rate (MGD) | 4.000 | 4.000 | 4.000 | | | 0.5 | 2.0 |
| $T_{10}$ (minutes) | 78.3 | 15.1 | 9.0 | | | | |

## PERFORMANCE DATA

| Date | Disinfectant | C (mg/L) | Flow (MGD) | Temp (°C) | pH | Giardia Log | Virus Log | Inact. Ratio | Time■ |
|---|---|---|---|---|---|---|---|---|---|
| 17 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.0 | 2.300 | 23.0 | 7.5 | | | | |
| | CLA *D3* | 3.4 | 2.300 | 25.0 | 7.4 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 18 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.8 | 3.800 | 26.0 | 7.2 | | | | |
| | CLA *D3* | 3.5 | 3.800 | 26.0 | 7.1 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 19 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.7 | 2.300 | 27.0 | 7.4 | | | | |
| | CLA *D3* | 3.7 | 2.300 | 28.0 | 7.2 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 20 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.2 | 2.400 | 27.0 | 7.5 | | | | |
| | CLA *D3* | 3.3 | 2.400 | 27.0 | 7.6 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 21 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.4 | 2.400 | 27.0 | 7.1 | | | | |
| | CLA *D3* | 3.7 | 2.400 | 27.0 | 7.0 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 22 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.0 | 3.800 | 26.0 | 7.3 | | | | |
| | CLA *D3* | 2.0 | 3.800 | 26.0 | 7.2 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 23 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.8 | 3.800 | 26.0 | 7.6 | | | | |
| | FCL *D3* | 2.9 | 3.800 | 26.0 | 7.5 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 24 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.5 | 2.000 | 27.0 | 7.4 | | | | |
| | FCL *D3* | 3.3 | 2.000 | 26.0 | 7.3 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |

## PERFORMANCE DATA

| Date | Disinfectant | C (mg/L) | Flow (MGD) | Temp (°C) | pH | Giardia Log | Virus Log | Inact. Ratio | Time■ |
|---|---|---|---|---|---|---|---|---|---|
| 25 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.4 | 2.400 | 28.0 | 7.3 | | | | |
| | FCL *D3* | 3.6 | 2.400 | 28.0 | 7.3 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 26 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.8 | 3.900 | 27.0 | 7.3 | | | | |
| | FCL *D3* | 3.4 | 3.900 | 27.0 | 7.3 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 27 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.1 | 3.900 | 26.0 | 7.4 | | | | |
| | FCL *D3* | 2.7 | 3.900 | 26.0 | 7.4 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 28 | NA *D1* | | | | | | | | |
| | FCL *D2* | 3.5 | 3.900 | 25.0 | 7.2 | | | | |
| | FCL *D3* | 2.8 | 3.900 | 27.0 | 7.3 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 29 | NA *D1* | | | | | | | | |
| | FCL *D2* | 4.4 | 2.400 | 26.0 | 7.2 | | | | |
| | FCL *D3* | 2.1 | 2.400 | 27.0 | 7.5 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 30 | NA *D1* | | | | | | | | |
| | FCL *D2* | 4.2 | 2.400 | 26.0 | 7.2 | | | | |
| | FCL *D3* | 3.5 | 2.400 | 27.0 | 7.2 | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| 31 | *D1* | | | | | | | | |
| | *D2* | | | | | | | | |
| | *D3* | | | | | | | | |
| | *D4* | | | | | | | | |
| | *D5* | | | | | | | | |
| | | | | | Max | NA | NA | | |
| | | | | | Min | NA | NA | | |
| | | | | | Avg | NA | NA | | |
| | | | | | SD | NA | NA | | |

**NOTE:** **■ ONLY use the "Time■" column to show the length of time that the total inactivation ratio was less than 1.00.**

**SUBMITTED BY:** _____ **Certificate No. and Grade:** W00012234 A **Date:** July 2, 2007