



MISSISSIPPI RIVER REGION  
 TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
 Division of Water Supply  
 Comprehensive Monthly Operation Report

| DATE | TURBIDITY | CHLORINE RESIDUAL MGL | ALKALINITY MGL | PH   | HARDNESS MGL | PHOSPHATE MGL | IRON MGL | MANGANESE MGL | Sodium Permanganate MGL | FLUORIDE MGL | POUNDS PER 24 HOURS | CALCULATED DOSAGE MGL | CHEMICALS USED | TURBIDITY MUST BE MEASURED EVERY 4 HOURS AND RECORDED |    |
|------|-----------|-----------------------|----------------|------|--------------|---------------|----------|---------------|-------------------------|--------------|---------------------|-----------------------|----------------|---|----|
|      |           |                       |                |      |              |               |          |               |                         |              |                     |                       |                | AM  | PM |
| 1    | 229       | 14.6                  | 1.2            | 0.05 | 0.04         | 0.05          | 0.05     | 0.05          | 0.05                    | 0.04         | 1.04                | 1.04                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 2    | 297       | 14.8                  | 1.3            | 0.05 | 0.05         | 0.05          | 0.05     | 0.05          | 0.05                    | 0.05         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 3    | 293       | 206                   | 14.9           | 1.0  | 0.05         | 0.05          | 0.05     | 0.05          | 0.05                    | 0.05         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 4    | 434       | 421                   | 14.7           | 1.1  | 0.05         | 0.05          | 0.05     | 0.05          | 0.05                    | 0.05         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 5    | 195       | 15.0                  | 1.2            | 0.05 | 0.04         | 0.05          | 0.05     | 0.05          | 0.05                    | 0.05         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 6    | 217       | 15.0                  | 1.2            | 0.05 | 0.04         | 0.05          | 0.05     | 0.05          | 0.05                    | 0.05         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 7    | 289       | 14.9                  | 0.9            | 0.05 | 0.05         | 0.05          | 0.05     | 0.05          | 0.05                    | 0.05         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 8    | 222       | 14.9                  | 0.9            | 0.05 | 0.05         | 0.05          | 0.05     | 0.05          | 0.05                    | 0.05         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 9    | 120       | 89                    | 14.3           | 0.9  | 0.05         | 0.05          | 0.05     | 0.05          | 0.05                    | 0.05         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 10   | 229       | 218                   | 14.3           | 0.9  | 0.05         | 0.05          | 0.05     | 0.05          | 0.05                    | 0.05         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 11   | 229       | 218                   | 14.3           | 0.9  | 0.05         | 0.05          | 0.05     | 0.05          | 0.05                    | 0.05         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 12   | 233       | 226                   | 15.7           | 0.9  | 0.05         | 0.05          | 0.05     | 0.05          | 0.05                    | 0.05         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 13   | 176       | 124                   | 15.1           | 0.9  | 0.05         | 0.05          | 0.05     | 0.05          | 0.05                    | 0.05         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 14   | 297       | 249                   | 14.8           | 1.3  | 0.07         | 0.07          | 0.07     | 0.07          | 0.07                    | 0.07         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 15   | 297       | 249                   | 14.8           | 1.3  | 0.07         | 0.07          | 0.07     | 0.07          | 0.07                    | 0.07         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 16   | 301       | 202                   | 15.6           | 1.7  | 0.07         | 0.07          | 0.07     | 0.07          | 0.07                    | 0.07         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 17   | 124       | 70                    | 15.6           | 1.7  | 0.07         | 0.07          | 0.07     | 0.07          | 0.07                    | 0.07         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 18   | 301       | 202                   | 15.6           | 1.7  | 0.07         | 0.07          | 0.07     | 0.07          | 0.07                    | 0.07         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 19   | 206       | 156                   | 14.7           | 1.1  | 0.05         | 0.05          | 0.05     | 0.05          | 0.05                    | 0.05         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 20   | 217       | 15.0                  | 1.2            | 0.05 | 0.04         | 0.05          | 0.05     | 0.05          | 0.05                    | 0.05         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 21   | 297       | 249                   | 14.8           | 1.3  | 0.07         | 0.07          | 0.07     | 0.07          | 0.07                    | 0.07         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 22   | 297       | 249                   | 14.8           | 1.3  | 0.07         | 0.07          | 0.07     | 0.07          | 0.07                    | 0.07         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 23   | 148       | 128                   | 15.6           | 1.6  | 0.08         | 0.08          | 0.08     | 0.08          | 0.08                    | 0.08         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 24   | 237       | 183                   | 16.0           | 1.3  | 0.07         | 0.07          | 0.07     | 0.07          | 0.07                    | 0.07         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 25   | 162       | 132                   | 15.2           | 1.1  | 0.07         | 0.07          | 0.07     | 0.07          | 0.07                    | 0.07         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 26   | 281       | 249                   | 16.4           | 1.1  | 0.07         | 0.07          | 0.07     | 0.07          | 0.07                    | 0.07         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 27   | 249       | 202                   | 15.6           | 1.7  | 0.07         | 0.07          | 0.07     | 0.07          | 0.07                    | 0.07         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 28   | 249       | 202                   | 15.6           | 1.7  | 0.07         | 0.07          | 0.07     | 0.07          | 0.07                    | 0.07         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 29   | 166       | 100                   | 15.6           | 1.0  | 0.07         | 0.07          | 0.07     | 0.07          | 0.07                    | 0.07         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 30   | 245       | 202                   | 17.0           | 1.1  | 0.05         | 0.05          | 0.05     | 0.05          | 0.05                    | 0.05         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| 31   | 4619      | 3883                  | 16.4           | 1.2  | 0.06         | 0.06          | 0.06     | 0.06          | 0.06                    | 0.06         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| AVE. | 434       | 204                   | 15.4           | 1.2  | 0.06         | 0.06          | 0.06     | 0.06          | 0.06                    | 0.06         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| MAX  | 421       | 17.0                  | 1.7            | 0.08 | 0.08         | 0.08          | 0.08     | 0.08          | 0.08                    | 0.08         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |
| MIN. | 120       | 70                    | 14.3           | 0.9  | 0.05         | 0.04          | 0.05     | 0.05          | 0.05                    | 0.05         | 1.06                | 1.06                  | 48             | STABILIZATION AND CORROSION CONTROL                   | 47 |

| CHEMICAL USED | BRAND             | ANALYSIS        | PER LB. | PER MONTH | COST    |
|---------------|-------------------|-----------------|---------|-----------|---------|
| 59            | Polymer           | Kemlon Atlantic | 100.0%  | \$0.232   | \$578   |
| 35            | Caustic Soda      | Dycho           | 25.0%   | \$0.222   | \$0     |
| 34            | Bleach            | Dycho           | 8.0%    | \$0.317   | \$344   |
| 33            | Fluoride          | Dycho           | 18.2%   | \$0.460   | \$34    |
| 39            | Phosphate         | Dycho           | 19.8%   | \$1.870   | \$119   |
|               | Hydrogen Peroxide | Dycho           | 40.0%   | \$0.890   | \$0     |
| 37            | Na Permanganate   | Dycho           | 20.0%   | \$1.600   | \$289   |
|               |                   |                 |         |           | \$1,342 |

Treatment Chemical Cost  
 \$29,0608 per Million Gallons  
 \$2,9061 per Thousand Gallons

CERTIFIED OPERATOR \_\_\_\_\_  
 CERTIFICATE NUMBER 18063  
 SIGNATURE \_\_\_\_\_



