

Lake Altoona test results

Date: 07/25/2014 Time: 2:00 pm

Weather: Cloudy Air temp: 23.7 C

Secchi Disk: 2.75 ft. \* Problems with Dissolved Oxygen meter – unable to test DO or Temp

| Sample               | deep hole<br>5 ft | deep hole<br>10 ft | deep hole<br>15 ft | Outlet<br>10 ft | Outlet<br>20 ft | Inlet<br>2 ft |
|----------------------|-------------------|--------------------|--------------------|-----------------|-----------------|---------------|
| Carbon Dioxide       | 0                 | 0                  | 0                  | 0               | 0               | 0             |
| pH                   | 7.4               | 7.4                | 7.2                | 7.2             | 7.2             | 7.6           |
| Acidity, total       | 0                 | 0                  | 0                  | 0               | 0               | 0             |
| Alkalinity, Active   | 0                 | 0                  | 0                  | 0               | 0               | 0             |
| Alkalinity, Total    | -                 | 32.5               | 37.5               | 32.5            | 32.5            | 30.0          |
| Hardness mg/l        | 33.5              | 34.5               | 36.2               | 35.0            | 35.5            | 35.5          |
| Sulfate              | 0.39              | 0.35               | 0.45               | 0.49            | 0.43            | 0.47          |
| Phosphate, ortho     | 0.04              | 0.08               | 0.19               | 0.12            | 0.18            | 0.05          |
| Phosphate, total     | 0.11              | 0.13               | 0.23               | 0.20            | 0.25            | 0.12          |
| Nitrate              | 0.69              | 0.68               | 0.55               | 0.57            | 0.57            | 0.65          |
| Nitrite              | 0                 | 0                  | 0                  | 0               | 0               | 0             |
| Ammonia nitrogen     | 0.8               | 0.8                | 1.3                | 1.0             | 1.2             | 0.6           |
| Calcium              |                   |                    |                    |                 |                 |               |
| Iron                 | 0.64              | 0.77               | 1.42               | 1.07            | 1.33            | 0.54          |
| Chloride mg/l        | 1.87              | 0.62               | 1.25               | 1.87            | 1.25            | 1.87          |
| Conductivity umho/cm | 106               | 108                | 114                | 110             | 111             | 111           |

Date: 08/01/2014 Time: 9:00 AM Weather: Partly cloudy, wind light & variable

Air temp: 22.5 C Secchi Disk: 2.75 ft

| Sample           | deep hole<br>5 ft | deep hole<br>10 ft | deep hole<br>15 ft | Outlet<br>10 ft | Outlet<br>20 ft | Inlet<br>2 ft |
|------------------|-------------------|--------------------|--------------------|-----------------|-----------------|---------------|
| Dissolved Oxygen | 9.62              | 9.34               | 6.30               | 9.23            | 0.15            | 9.21          |
| Temp ©           | 23.4              | 22.2               | 22.5               | 23.2            | 20.4            | 22.3          |

Additional Dissolved Oxygen Readings  
at deep hole:

| Depth   | Dissolved Oxygen | Temp © |
|---------|------------------|--------|
| 3 ft    | 9.95             | 23.5   |
| 6 ft    | 9.54             | 23.4   |
| 9 ft    | 9.62             | 23.4   |
| 12 ft   | 7.85             | 23.0   |
| 15 ft   | 6.30             | 22.5   |
| 17.6 ft | 1.03             | 21.4   |

Additional Dissolved Oxygen Readings  
at outlet:

| Depth | Dissolved Oxygen | Temp © |
|-------|------------------|--------|
| 3 ft  | 9.60             | 23.7   |
| 6 ft  | 9.48             | 23.6   |
| 9 ft  | 9.48             | 23.4   |
| 12 ft | 7.57             | 22.8   |
| 15 ft | 3.63             | 21.9   |
| 18 ft | 0.16             | 20.9   |
| 21 ft | 0.11             | 20.1   |