

# AMBIENT LAKE MONITORING NETWORK

Lake Name: Bells Lake

County: Gloucester

SiteID: NJW04459-078

Municipality: Washington Twp

## Lake Profile Raw Data

Panel: 2 Round: 2

Season: Spring

Date sampled: 4/13/2011

| Station | Tot Phos<br>(mg/L) | TKN<br>(mg/L) | Nitrite-Nitrate<br>(mg/L) | Ammonia-N<br>(mg/L) | Chl a<br>(ug/L) | Alk<br>(mg/L) | Hard<br>(mg/L) | Turbidity<br>(NTU) |
|---------|--------------------|---------------|---------------------------|---------------------|-----------------|---------------|----------------|--------------------|
| 1       | 0.041              | 0.408         | 0.647                     | 0.0257              | 21.42           | 15            | 38.4           | 3.66               |
| 2       | 0.041              | 0.35          | 0.548                     | 0.01                | 27.08           | 29            | 40.1           | 2.54               |

Season: Summer

Date sampled: 6/27/2011

| Station | Tot Phos<br>(mg/L) | TKN<br>(mg/L) | Nitrite-Nitrate<br>(mg/L) | Ammonia-N<br>(mg/L) | Chl a<br>(ug/L) | Alk<br>(mg/L) | Hard<br>(mg/L) | Turbidity<br>(NTU) |
|---------|--------------------|---------------|---------------------------|---------------------|-----------------|---------------|----------------|--------------------|
| 1       | 0.062              | 0.51          | 0.25                      | 0.01                | 26.46           | 23            | 42.8           | 2.33               |
| 2       | 0.076              | 0.54          | 0.17                      | 0.01                | 55.25           | 22            | 40.9           | 2.60               |

Season: Fall

Date sampled: 9/27/2011

| Station | Tot Phos<br>(mg/L) | TKN<br>(mg/L) | Nitrite-Nitrate<br>(mg/L) | Ammonia-N<br>(mg/L) | Chl a<br>(ug/L) | Alk<br>(mg/L) | Hard<br>(mg/L) | Turbidity<br>(NTU) |
|---------|--------------------|---------------|---------------------------|---------------------|-----------------|---------------|----------------|--------------------|
| 1       | 0.019              | 0.515         | 0.919                     | 0.0141              | 23.09           | 10            | 42.3           | 2.98               |
| 2       | 0.017              | 0.497         | 0.651                     | 0.0269              | 13.84           | 10            | 39.7           | 2.03               |

Sample Device - Horizontal Polycarbonate Sampler; a blank parameter result means the parameter could not be analyzed due to a lab error.

"ND" indicates the result is at a concentration below the analytical method's Reporting Limit (RL). See Volume I, Methods.

"ANR" (Analyte Not Requested) indicates a sample was not collected for this parameter.

# AMBIENT LAKE MONITORING NETWORK

**Lake Name:** Bells Lake

**County:** Gloucester

**SiteID:** NJW04459-078

**Municipality:** Washington Twp

## Surface to Bottom Profile

**Panel:** 2      **Round:** 2

**Season:** Spring

**Date sampled:** 4/13/2011

| <i>Station</i> | <i>Tot. Depth<br/>(M)</i> | <i>Profile Depth<br/>(M)</i> | <i>Secchi<br/>(M)</i> | <i>Water Temp<br/>(C)</i> | <i>DO<br/>(mg/L)</i> | <i>DO<br/>(%Sat)</i> | <i>pH<br/>(SU)</i> | <i>Conductivity<br/>(mS/cm)</i> |
|----------------|---------------------------|------------------------------|-----------------------|---------------------------|----------------------|----------------------|--------------------|---------------------------------|
| 1              | 1.2                       | 0.6                          | P                     | 12.92                     | 9.22                 | 88                   | 7.35               | 0.204                           |
| 2              | 2.2                       | 1                            | 2.1                   | 14.41                     | 10.4                 | 102.4                | 7.26               | 0.229                           |
| 2              | 2.2                       | 2                            | 2.1                   | 13.15                     | 9.83                 | 94.2                 | 7.3                | 0.239                           |

**Season:** Summer

**Date sampled:** 6/27/2011

| <i>Station</i> | <i>Tot. Depth<br/>(M)</i> | <i>Profile Depth<br/>(M)</i> | <i>Secchi<br/>(M)</i> | <i>Water Temp<br/>(C)</i> | <i>DO<br/>(mg/L)</i> | <i>DO<br/>(%Sat)</i> | <i>pH<br/>(SU)</i> | <i>Conductivity<br/>(mS/cm)</i> |
|----------------|---------------------------|------------------------------|-----------------------|---------------------------|----------------------|----------------------|--------------------|---------------------------------|
| 1              | 1.2                       | 0.6                          | B                     | 23.35                     | 9.06                 | 106                  | 5.92               | 0.254                           |
| 2              | 1.8                       | 0.7                          | 1.6                   | 25.92                     | 9.88                 | 121.3                | 6.48               | 0.224                           |

**Season:** Fall

**Date sampled:** 9/27/2011

| <i>Station</i> | <i>Tot. Depth<br/>(M)</i> | <i>Profile Depth<br/>(M)</i> | <i>Secchi<br/>(M)</i> | <i>Water Temp<br/>(C)</i> | <i>DO<br/>(mg/L)</i> | <i>DO<br/>(%Sat)</i> | <i>pH<br/>(SU)</i> | <i>Conductivity<br/>(mS/cm)</i> |
|----------------|---------------------------|------------------------------|-----------------------|---------------------------|----------------------|----------------------|--------------------|---------------------------------|
| 1              | 1.3                       | 0.6                          | B                     | 19.31                     | 5.92                 | 64.5                 | 5.71               | 0.242                           |
| 2              | 2.2                       | 1                            | B                     | 19.98                     | 3.35                 | 36.8                 | 5.93               | 0.217                           |
| 2              | 2.2                       | 2                            | B                     | 18.75                     | 2.31                 | 24.7                 | 5.93               | 0.219                           |

"B" indicates secchi can be seen at the Bottom of lake; "P" indicates secchi depth was Obscured, typically (but not always) by plants.

-A blank Secchi measurement for lake stations means that an accurate measurement could not be recorded.

-A blank parameter result means the parameter could not be measured due to a meter malfunction.