

# Low Dissolved Oxygen

Less than 5.0 ppm

All data between 4/1/2021 and 5/28/2021

University of Delaware Citizen Monitoring Program

| Water Body                  | Tributary                   | Site  | Date | Time | Dissolved Oxygen |              |       | Aquatic Vegetation |           |
|-----------------------------|-----------------------------|---|------|------|------------------|--------------|-------|--------------------|-----------|
|                             |                             |   |      |      | ppm              | % Saturation | Depth | On Shore?          | In Water? |
| <b>Indian River</b>         |                             |   |      |      |                  |              |       |                    |           |
|                             | <u>Indian River</u>         |   |      |      |                  |              |       |                    |           |
|                             |                             | IR03: Oak Orchard                               |      |      |                  |              |       |                    |           |
|                             |                             | 5/24/2021                                       | 9:10 | 3.3  | 43%              | Surfc        | None  | None               |           |
| <b>Little Assawoman Bay</b> |                             |   |      |      |                  |              |       |                    |           |
|                             | <u>Jefferson Creek</u>      |   |      |      |                  |              |       |                    |           |
|                             |                             | SB01: Anchorage Canal @ Rt 1                    |      |      |                  |              |       |                    |           |
|                             |                             | 5/4/2021  | 7:42 | 2.5  | 30%              | Surfc        | None  | None               |           |
|                             |                             | 5/11/2021                                       | 7:39 | 1.8  | 22%              | Surfc        | None  | None               |           |
|                             |                             | 5/18/2021                                       | 7:31 | 3.3  | 42%              | Surfc        | None  | None               |           |
|                             |                             | 5/25/2021                                       | 7:39 | 3.5  | 45%              | Surfc        | None  | None               |           |
|                             |                             | SB02: Anchorage Canal near elbow                |      |      |                  |              |       |                    |           |
|                             |                             | 5/25/2021                                       | 7:04 | 4.4  | 57%              | Surfc        | None  | None               |           |
|                             |                             | SB04: Petherton canal at Rt1                    |      |      |                  |              |       |                    |           |
|                             |                             | 5/4/2021  | 7:51 | 2.7  | 32%              | Surfc        | Minor | None               |           |
|                             |                             | 5/11/2021                                       | 7:47 | 4.3  | 51%              | Surfc        | None  | None               |           |
|                             |                             | 5/18/2021                                       | 7:26 | 4.4  | 58%              | Surfc        | Minor | None               |           |
|                             |                             | 5/25/2021                                       | 7:43 | 2.1  | 27%              | Surfc        | Minor | None               |           |
|                             |                             | SB05: Petherton canal, between lots 156 and 162 |      |      |                  |              |       |                    |           |
|                             |                             | 5/25/2021                                       | 7:56 | 4.9  | 63%              | Surfc        | None  | None               |           |
|                             |                             | SB06: Brandywine Canal                          |      |      |                  |              |       |                    |           |
|                             |                             | 5/4/2021  | 8:00 | 4.1  | 49%              | Surfc        | Minor | None               |           |
|                             |                             | 5/18/2021                                       | 7:20 | 4.1  | 52%              | Surfc        | Major | Major              |           |
|                             |                             | 5/25/2021                                       | 7:48 | 1.4  | 19%              | Surfc        | Minor | None               |           |
|                             |                             | SB09: Carlisle canal                            |      |      |                  |              |       |                    |           |
|                             |                             | 5/11/2021                                       | 8:19 | 3.4  | 41%              | Surfc        | None  | None               |           |
|                             |                             | 5/18/2021                                       | 6:55 | 4.2  | 53%              | Surfc        | Minor | Minor              |           |
|                             |                             | 5/25/2021                                       | 8:10 | 0.7  | 9%               | Surfc        | Minor | None               |           |
|                             |                             | SB10E: Russell Canal east dead end              |      |      |                  |              |       |                    |           |
|                             |                             | 4/13/2021                                       | 8:17 | 3.3  | 37%              | Surfc        | Minor | None               |           |
|                             |                             | 5/4/2021  | 7:13 | 3.1  | 38%              | Surfc        | Minor | None               |           |
|                             |                             | 5/11/2021                                       | 7:09 | 1.6  | 17%              | Surfc        | Minor | None               |           |
|                             |                             | 5/18/2021                                       | 7:52 | 3.7  | 46%              | Surfc        | Minor | None               |           |
|                             |                             | 5/25/2021                                       | 7:11 | 1.5  | 19%              | Surfc        | Minor | None               |           |
|                             |                             | SB10W: Russell Canal west dead end              |      |      |                  |              |       |                    |           |
|                             |                             | 4/13/2021                                       | 8:37 | 3.6  | 41%              | Surfc        | Minor | None               |           |
|                             |                             | 5/4/2021  | 7:33 | 5.0  | 61%              | Surfc        | Minor | None               |           |
|                             |                             | 5/11/2021                                       | 7:30 | 3.2  | 38%              | Surfc        | Minor | None               |           |
|                             |                             | 5/18/2021                                       | 8:08 | 3.7  | 47%              | Surfc        | Minor | Minor              |           |
|                             |                             | 5/25/2021                                       | 7:27 | 0.3  | 4%               | Surfc        | Minor | None               |           |
|                             |                             | SB13: South end of York Canal                   |      |      |                  |              |       |                    |           |
|                             |                             | 5/25/2021                                       | 8:15 | 2.3  | 30%              | Surfc        | Major | None               |           |
|                             | <u>Little Assawoman Bay</u> |   |      |      |                  |              |       |                    |           |
|                             |                             | LA46: Fenwick Island Tide Gauge                 |      |      |                  |              |       |                    |           |
|                             |                             | 5/25/2021                                       | 7:30 | 4.1  | 51%              | Surfc        | None  | None               |           |
|                             |                             | LA48: W. Georgetown St. Canal - Fenwick         |      |      |                  |              |       |                    |           |
|                             |                             | 5/25/2021                                       | 9:05 | 3.2  | 41%              | Surfc        | None  | None               |           |
| <b>Rehoboth Bay</b>         |                             |   |      |      |                  |              |       |                    |           |

The state instantaneous standard for Dissolved Oxygen is: the minimum shall not fall below 4.0 ppm.

Aquatic vegetation comments: "None" - none seen; "Minor" - bands up to 10 feet wide; "Major" - bands greater than 10' wide.

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| Water Body          | Tributary | Site   | Date      | Time  | Dissolved Oxygen |              |       | Aquatic Vegetation |           |
|---------------------|-----------|--|-----------|-------|------------------|--------------|-------|--------------------|-----------|
|                     |           |  |           |       | ppm              | % Saturation | Depth | On Shore?          | In Water? |
| <b>Rehoboth Bay</b> |           |  |           |       |                  |              |       |                    |           |
|                     |           | <u>Bald Eagle Creek</u>                                      |           |       |                  |              |       |                    |           |
|                     |           | RB64: Torquay Canal, west side of Land's End near UD Site #1 |           |       |                  |              |       |                    |           |
|                     |           |  | 5/18/2021 | 11:15 | 4.9              | 64%          | Surfc | None               | None      |
|                     |           | <u>Guinea Creek</u>  |           |       |                  |              |       |                    |           |
|                     |           | RB06: Guinea Creek (Winding Creek Village)                   |           |       |                  |              |       |                    |           |
|                     |           |  | 5/24/2021 | 8:09  | 4.0              | 55%          | Surfc | None               | None      |
|                     |           | RB06A: Guinea Creek @ Rd 298 Bridge                          |           |       |                  |              |       |                    |           |
|                     |           |  | 5/24/2021 | 8:29  | 3.0              | 39%          | Surfc | None               | None      |

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