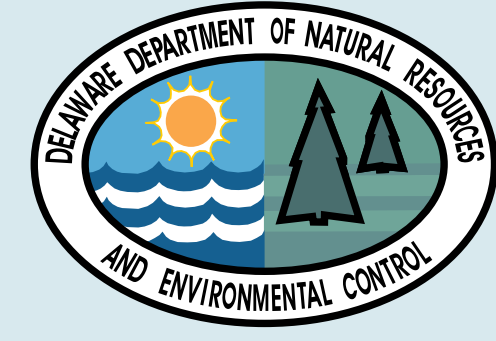


UD CITIZEN MONITORING PROGRAM



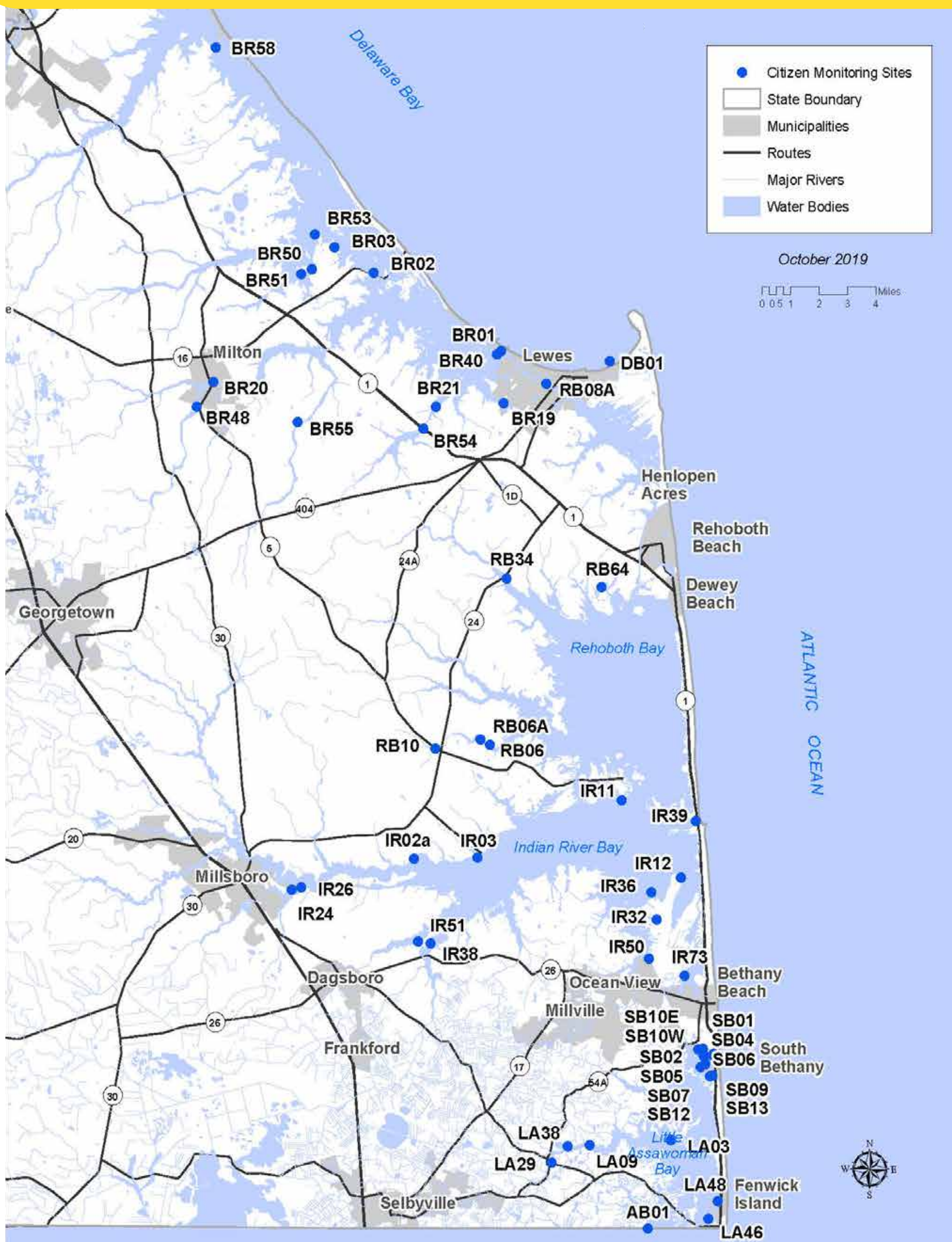
Water Quality Monitoring Sites and Results for Dissolved Oxygen

Testing Sites: Delaware Inland Bays and Broadkill River Watersheds | Period of Time: April – Sept. 2019

Dissolved oxygen (DO) is an important parameter to measure. Adequate DO levels are needed for organisms to survive. Levels <4.0 ppm can be stressful, but <2.0 ppm can be lethal. Chemical test kits or digital meters are used to measure DO. Sampling is usually done in the morning when DO is typically near the daily minimum.



UD Citizen Monitoring Program (CMP) Dissolved Oxygen Test Sites



Water samples recorded during 2019, number of samplings and findings.

Test Site	Test Site Description	Sample Count	Percent Samples <4 ppm	Percent Samples <2 ppm
AB01	Bayside Point Pier	21	19	0
BR01	Broadkill river at PEL dock.	22	9	0
BR02	Prime Hook NWR Petersfield Ditch	17	47	0
BR03	Prime Hook Creek at Boat Ramp at Headquarters	22	27	0
BR19	Canary Creek at New Road	16	56	0
BR20	Broadkill River at Milton tidal pond	22	0	0
BR21	Old Mill Creek downstream from Red Mill Pond	10	70	0
BR40	Canary Creek at Pilottown Rd	14	21	0
BR48	Diamond Pond at Spillway	21	0	0
BR50	Turtle Pond	17	6	0
BR51	Fleetwood Pond	17	41	0
BR54	Red Mill Pond outlet at Route 1	10	0	0
BR55	Beaverdam Creek at Road 88	10	0	0
DB01	End of Cape Shores pier	17	0	0
IR02a	Rosedale crabbing pier	10	0	0
IR03	Oak Orchard	12	25	0
IR11	Pot Nets Seaside Pier	10	0	0
IR12	Broken marshes, 1/4 mile SE of Quillens Point	14	0	0
IR24	Iron Branch - County Road 331 at bridge	7	29	0
IR26	Possum Point	5	40	0
IR32	Holly Terrace Acres Canal Dead End, White Creek	20	65	15
IR36	James Farm, base of Pasture Point	10	10	0
IR38	Vines Lane	21	29	0
IR39	North side of Inlet at Wheelchair fishing platform	7	0	0
IR50	Assawoman Canal, North end, Ocean View Marina	16	44	0
IR51	Pepper Creek, Creekside	17	0	0
IR73	Western edge of Salt Pond	5	60	20
LA03	Mulberry Landing	18	33	0
LA09	Dirickson Creek at Road 381 bridge.	18	61	17
LA29	Upper Dirickson Creek at Route 20	19	42	21
LA38	The Hamlet at Dirickson Pond	21	0	0
LA46	Fenwick Island Tide Gauge	23	39	0
LA48	West Georgetown St. Canal – Fenwick	12	42	8
RB06	Guinea Creek (Winding Creek Village)	16	44	0
RB06a	Guinea Creek at Road 298 Bridge	10	70	10
RB08a	Lewes Canal Front Park - Kayak Launch	8	25	0
RB10	Guinea Creek above golf course	10	0	0
RB34	Love Creek at Route 24 Bridge	10	20	0
RB64	Torquay Canal, west side of Land's End Road	23	48	26
SB01	Anchorage Canal at Route 1	21	67	38
SB02	Anchorage Canal near elbow	21	24	0
SB04	Petherton canal at Route 1	21	62	29
SB05	Petherton canal, between lots 156 and 162	21	24	0
SB06	Brandywine Canal	21	48	29
SB07	Layton Canal, South Bethany	21	19	0
SB09	Carlisle canal	21	76	48
SB10E	Russell Canal - east dead end	21	62	38
SB10W	Russell Canal - west dead end	21	62	33
SB12	Jefferson Canal West side at tidal gage	20	20	0
SB13	South end of York Canal	21	38	0

State Dissolved Oxygen Standards from DNREC

- A. Average (June–Sept.): Not less than 5.0 ppm
- B. Instantaneous Value: Not less than 4.0 ppm

Water samples with readings in 2019 that were below state standard levels for each site.

