

2016 OYSTER RIVER WATERSHED VRAP DATA

	Measurements not meeting New Hampshire surface water quality standards
	Measurements not meeting NHDES quality assurance/quality control standards

^A Specific conductance > 835 $\mu\text{S}/\text{cm}$ indicate exceedance of chronic chloride standard of 230 mg/L

^B Chronic water quality standard

01-CWL, Caldwell Brook, Route 4, Barrington - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Water Temp. ($^{\circ}\text{C}$)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 $\mu\text{S}/\text{cmA}$	NA	<153
05/19/2016	10:10	8.14	80.0	5.96	0.49	146.9	14.5	
06/21/2016	11:10							285
06/24/2016	11:20	6.59	67.0	5.90	2.30	202.3	16.2	
07/22/2016	11:40	5.80	63.6	5.92	2.77	246.9	18.9	
08/23/2016	09:49							146
08/26/2016	10:20	4.66	49.6	5.79	2.89	311.5	18.3	
09/24/2016	11:40	5.88	57.4	6.08		326.0	14.1	
10/12/2016	10:40							586
10/21/2016	10:00	3.49	32.6	5.84	1.10	316.9	12.0	

15C-OYS, Oyster River, Emerald Drive, Barrington - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 µS/cmA	NA	<153
05/19/2016	10:32	10.30	97.9	5.21	0.10	93.6	12.9	
06/21/2016	11:00							41
06/24/2016	11:07	7.18	72.3	5.47	0.64	128.2	15.4	
07/22/2016	11:10	2.85	26.6	5.98	2.25	149.2	18.9	
08/23/2016	09:45							1722
08/26/2016	10:10	2.25	24.4	5.91	3.94	132.3	19.1	
10/12/2016	10:25							< 10
10/21/2016	10:20	3.32	32.3	5.95	0.81	193.0	12.3	

13A-OYS, Oyster River, Route 125 Crossing South of Lee Traffic Circle, Lee - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 µS/cmA	NA	<153
06/21/2016	10:50							121
06/24/2016	10:30	3.63	39.6	5.93	2.10	204.4	19.5	
07/22/2016	10:47	4.21	46.3	6.10	2.25	129.9	22.8	
08/23/2016	09:20							388
08/26/2016	09:50	3.96	45.9	6.06	2.26	329.2	22.3	
09/24/2016	11:06	5.27	53.4	6.00		372.0	16.1	
10/12/2016	09:55							142
10/21/2016	09:45	5.78	55.8	5.99	0.92	371.1	13.7	

01-XBB - Wheelright Pond Outlet, Stepping Stone Road Bridge, Lee - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 µS/cmA	NA	<153
05/22/2016	10:52	8.23	87.1	6.73	0.33	144.4	18.4	
06/21/2016	10:45							41
06/25/2016	10:45	4.46	60.7	6.56	0.53	152.1	20.3	
08/23/2016	09:15							4611
08/27/2016	10:13	5.25	57.0	6.47	1.51	100.0	19.3	
09/23/2016	10:55	4.92	51.7	5.64		268.0	17.3	
10/12/2016	10:00							241
10/22/2016	10:20	4.19	42.1	5.71	5.27	228.3	15.5	

13-OYS, Oyster River, Route 4 Bridge, East of Lee Traffic Circle, Lee, NH - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 µS/cmA	NA	<153
05/19/2016	09:35	6.01	60.0	6.12	0.65	160.1	15.1	
06/21/2016	10:15							41
06/24/2016	09:55	1.96	21.3	5.98	2.35	182.1	19.2	
07/22/2016	09:56	2.64	31.0	5.89	1.22	283.8	22.0	
08/23/2016	09:26							24196
08/26/2016	09:27	3.21	36.4	5.78	3.98	377.0	21.7	
09/24/2016	10:30	0.99	10.2	5.90		443.0	16.6	
10/12/2016	09:45							613
10/21/2016	09:15	4.54	43.3	5.83	1.51	477.5	13.2	

05-WDY, Wendy's Brook, Downstream of Rte. 125 Culvert, Market Basket Driveway, Lee - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 µS/cmA	NA	<153
05/19/2016	09:45	9.40	88.9	6.55	2.24	929	12.6	
06/21/2016	10:25							121
06/24/2016	10:11	7.82	79.9	6.59	2.24	1816	15.8	
07/22/2016	10:23	6.39	72.3	6.64	4.61	823	20.2	
08/23/2016	09:31							9804
08/26/2016	09:40	6.68	73.9	6.29	4.19	1954	20.1	
09/24/2016	10:50	7.58	73.8	6.87		1824	14.0	
10/12/2016	09:50							253
10/21/2016	09:30	5.31	51.1	6.44	0.85	2053	13.3	

01-WDY, Wendy's Brook, Footbridge 500' Upstream of Confluence with Oyster River, Lee - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 µS/cmA	NA
05/16/2015	10:45	7.39	73.5	6.62	3.2	1068	13.7
07/25/2015	10:55	7.84	82.0	6.88	4.3	1964	17.8
08/15/2015	11:10	6.72	74.5	6.85	7.7	1928	19.9
09/19/2015	10:25	7.51	83.4	6.71	9.1	2161	17.4

01-DBE, Dube Brook, Cherry Lane Bridge, Madbury - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 µS/cmA	NA	<153
05/22/2016	10:15	10.17	101.4	7.16	5.69	135.6	15.4	
06/21/2016	10:00							331
06/25/2016	10:13	5.19	55.6	6.81	31.8	165.1	18.6	
07/23/2016	11:10	2.21	22.6	6.55	10.8	198.2	22.4	
08/23/2016	08:38							4611
08/27/2016	09:50	3.49	38.8	6.63	34.2	200.0	20.7	
09/23/2016	10:25	6.45	67.3	6.60		197.5	17.2	
10/12/2016	09:25							213
10/22/2016	09:55	6.65	66.3	5.75	7.10	147.5	15.1	

10-OYS, Oyster River, Route 155 Bridge, Lee - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 µS/cmA	NA	<153
05/19/2016	09:20	9.06	89.2	6.74	1.60	177.3	14.5	
06/21/2016	10:05							108
06/24/2016	09:35	6.39	68.3	6.69	4.17	200.3	18.6	
07/22/2016	09:35	5.75	65.7	6.63	5.03	283.3	21.9	
07/23/2016	11:40	4.23	53.8	6.65	4.50	280.0	26.1	
08/23/2016	08:50							1274
08/26/2016	09:10	5.24	60.3	6.36	3.24	237.6	22.1	
09/24/2016	10:05	5.35	54.9	6.68		205.0	16.6	
10/12/2016	09:35							52
10/21/2016	09:00	5.23	48.5	6.28	3.70	266.1	12.6	

09-OYS, Oyster River, Route 155A Bridge (USGS Gaging Station), Lee - Class A (NHDES Trend Station)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	Chloride (mg/L)	<i>E. coli</i> (CTS/100mL)	<i>E.coli</i> Geometric Mean
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 µS/cm ^A	NA	230 ^B	<153	<47
05/19/2016	08:58	8.78	86.5	6.64	3.69	198.5	14.6			
06/21/2016	09:45								241	
06/22/2016	10:10	5.23	57.7	6.86	9.52	156.7	20.0	47	110	
06/24/2016	09:10	4.59	48.6	6.56	6.76	252.7	18.4			
07/13/2016	11:45	6.07	68.6	6.97	7.10	295.0	21.4	58	240	185
07/22/2016	09:10	4.08	46.5	6.58	7.12	318.9	21.7			
08/17/2016	11:50	5.71	66.1	7.04	6.00	335.0	23.0	75	60	140
08/23/2016	08:53								404	180
08/26/2016	08:50	4.26	48.4	6.46	7.31	331.3	21.7			
09/24/2016	09:40	7.20	71.8	6.85		251.0	15.4			
10/12/2016	09:15								259	
10/20/2016	11:45	6.68	61.4	6.70	2.73	337.5	11.5	62		
10/21/2016	08:45	5.24	49.5	6.42	4.29	331.0	12.5			

Date	Time of Sample	Total Phosphorus (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrite (NO ₂) + Nitrate(NO ₃) (mg/L)	Total Nitrogen (mg/L)
Standard	NA	Narrative	Narrative	Narrative	Narrative
06/22/2016	10:10	0.059	0.69	0.12	0.81
07/13/2016	11:45	0.044	0.47	0.11	0.58
08/17/2016	11:50	0.044	0.58	0.07	0.65

08-OYS, Oyster River, Mast Road Bridge, Durham - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 µS/cm ^A	NA
05/15/2015	09:00	8.99	86.4	7.03	3.8	220.0	13.7
06/19/2015	09:10	7.28	76.9	6.92	6.0	249.7	17.7
06/20/2015	09:05	6.78	71.7	6.99	5.9	274.9	18.3
07/24/2015	08:50	6.96	74.8	6.98	7.1	234.6	18.9
08/14/2015	08:55	6.81	73.5	6.88	5.4	273.7	18.0
09/18/2015	08:50	5.95	61.2	7.03	5.1	279.5	16.8

01-CSB, Chelsey Brook, Packer's Falls Road Bridge, Lee - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 µS/cmA	NA	<153
05/22/2016	11:09	10.31	98.3	6.60	1.16	259.5	13.2	
06/21/2016	09:25							98
06/25/2016	11:10	9.06	86.1	6.81	1.01	256.8	13.0	
07/23/2016	12:00	7.71	77.7	6.40	1.05	255.9	15.9	
08/23/2016	09:06							231
08/27/2016	10:35	8.84	85.1	6.66	0.86	300.0	13.5	
09/23/2016	11:20	9.21	86.1	6.59		197.0	12.4	
10/12/2016	09:05							63
10/22/2016	10:35	6.10	60.6	6.17	4.65	194.5	15.0	

07-OYS, Oyster River, Footbridge, College Woods, Durham, NH - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 µS/cmA	NA	<153
05/19/2016	08:25	8.37	80.0	6.95	3.04	225.1	13.8	
06/21/2016	09:05							41
06/24/2016	08:30	5.71	58.8	6.73	5.84	258.0	17.1	
07/22/2016	08:30	4.83	59.9	6.85	2.85	284.5	20.7	
08/23/2016	07:20							480
08/26/2016	08:15	6.67	78.2	6.58	1.47	299.6	22.4	
09/24/2016	08:35	4.86	48.7	6.74		293.0	15.1	
10/12/2016	08:45							74
10/21/2016	08:15	5.46	50.2	6.59	3.09	282.9	12.0	
08/14/2015	08:30	6.01	64.7	6.81	3.6	304.3	18.5	
09/18/2015	08:15	5.87	59.8	7.10	3.5	271.3	16.9	

01-HML, Hamel Brook, Route 108 Bridge, Durham - Class B

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 µS/cmA	NA	<153
06/21/2016	08:10							1046
06/25/2016	08:30	3.61	35.8	6.88	2.93	477.7	15.3	
07/23/2016	09:00	3.07	34.5	6.61	5.05	407.3	21.2	
08/23/2016	07:55							345
08/27/2016	08:39	1.28	13.8	6.71	3.38	500.0	19.0	
09/23/2016	08:45	2.53	26.3	6.76		231.0	16.8	
10/12/2016	07:50							134
10/22/2016	08:35	5.69	57.1	6.18	11.5	230.2	15.4	

00E-CGB - College Brook, Mill Pond Road Bridge, Durham - Class B

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 µS/cmA	NA	<153
05/22/2016	08:15	8.02	81.1	7.47	2.00	1243.0	15.5	
06/21/2016	08:00							379
06/25/2016	08:15	6.87	68.9	7.36	1.51	1679.0	15.3	
07/23/2016	08:15	6.21	72.0	7.01	2.36	1228.0	21.2	
08/23/2016	07:40							816
08/27/2016	08:23	6.00	72.9	7.57	1.52	1700.0	19.1	
09/23/2016	08:20	6.69	72.3	7.49		689.0	16.9	
10/12/2016	07:40							2755
10/22/2016	08:05	8.18	83.0	6.68	13.4	361.7	15.9	

00J-PRB, Pettee Brook, Sauer Terrace, Durham - Class B

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 µS/cmA	NA	<153
05/22/2016	08:47	7.95	76.8	7.39	2.11	1373	13.7	
06/21/2016	08:20							573
06/25/2016	08:55	7.51	76.4	7.47	6.15	1533	16.1	
07/23/2016	09:30	5.47	61.5	7.39	1.26	1736	22.2	
08/23/2016	08:00							241
08/27/2016	08:53	6.67	75.0	7.58	1.16	1600	20.1	
09/23/2016	09:05	7.34	75.7	7.63		582	17.4	
10/12/2016	08:05							259
10/22/2016	08:55	8.43	85.1	6.84	12.2	333.8	15.8	

02-BRD, Beards Creek, Coe Drive, Durham - Class B

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 µS/cmA	NA	<153
06/21/2016	08:30							233
06/25/2016	09:20	7.97	79.3	7.27	6.90	472.3	15.3	
08/23/2016	08:08							583
10/12/2016	08:15							131
10/22/2016	09:13	8.83	88.7	6.56	15.5	175.7	15.3	
08/27/2016	09:10	7.06	75.8	7.05	15.1	500.0	18.9	
09/23/2016	09:25	7.85	80.8	7.19		376.0	16.6	

02G-BRD, Beards Creek, Stoleworthy Wildlife Sanctuary, Durham - Class B

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 µS/cm ^A	NA
05/22/2016	09:10	8.38	83.2	7.27	1.51	444.3	14.9
07/23/2016	10:10	5.51	62.2	6.80	6.29	506.0	22.3
08/27/2016	09:10	7.06	75.8	7.05	15.1	500.0	18.9
09/23/2016	09:25	7.85	80.8	7.19		376.0	16.6

03-JNC, Johnson Creek, Freshet Road Bridge, Durham - Class B

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 µS/cmA	NA	<153
05/22/2016	09:45	9.26	92.6	7.14	2.69	378.5	15.3	
06/21/2016	08:45							31
06/25/2016	09:45	7.41	75.1	6.94	3.05	363.8	16.0	
07/23/2016	10:35	4.99	54.6	6.60	2.34	295.2	21.4	
08/23/2016	08:22							345
08/27/2016	09:35							
09/23/2016	10:00	7.07	73.1	6.64		255.6	16.7	
10/12/2016	08:25							313
10/22/2016	09:32	8.54	85.8	6.13	13.6	186.6	15.6	