

## 2017 OYSTER RIVER WATERSHED VRAP DATA

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

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

<sup>B</sup> 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 $\mu\text{S}/\text{cm}$ <sup>A</sup>	NA	<153
04/21/2017	10:08	8.30	72.7	5.28	0.63	125.7	9.8	
05/19/2017	10:30	6.45	72.6	5.53	0.71	112.2	21.2	
06/23/2017	10:50	5.48	60.5	5.77	1.32	137.9	20.0	144
07/21/2017	10:40	5.51	61.8	5.94	1.90	160.9	21.3	
08/22/2017	9:00							46
08/25/2017	10:20	6.04	64.3	5.93	1.23	151.2	18.3	
09/22/2017	10:30	6.06	61.6	6.00	1.98	180.2	16.2	
10/20/2017	10:55	6.35	58.8	5.86	1.47	190.9	11.8	

### 15C-OYS, Oyster River, Emerald Drive, 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 $\mu\text{S}/\text{cm}$ <sup>A</sup>	NA	<153
04/21/2017	10:20	10.75	91.2	4.65	0.70	104.9	8.1	
05/19/2017	10:45	7.73	84.3	4.58	0.51	109.8	19.9	
06/23/2017	11:10	7.43	80.2	4.73	0.95	110.1	19.2	199
07/21/2017	11:00	7.58	85.7	4.73	0.62	148.2	21.6	
08/22/2017	9:01							79
08/25/2017	10:40	7.83	81.8	4.70	0.16	108.4	17.5	
09/22/2017	11:00	7.83	79.9	5.01	0.58	108.6	16.0	
10/20/2017	11:18	9.20	84.3	5.08	0.48	99.3	11.4	

**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/cm <sup>A</sup>	NA	<153
04/21/2017	9:56	8.45	74.0	5.21	0.88	157.4	9.5	
05/19/2017	10:15	6.67	77.9	5.43	1.04	121.8	22.0	
06/23/2017	10:28	3.03	34.4	5.57	1.43	155.9	21.3	249
07/21/2017	10:20	2.67	31.0	5.48	1.36	161.1	22.6	
08/22/2017	8:52							105
08/25/2017	10:00	3.78	41.1	5.44	1.20	140.5	18.8	
09/22/2017	10:15	2.20	24.3	5.67	1.30	186.1	17.6	
10/20/2017	10:39	5.10	46.2	5.78	2.23	214.5	10.8	

**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/cm <sup>A</sup>	NA	<153
04/22/2017	10:45	7.38	55.9	6.05	0.56	137.3	10.3	
05/21/2017	10:05	7.47	81.1	6.10	0.64	138.3	19.2	
06/23/2017	9:16							282
06/24/2017	10:22	4.42	51.8	6.55	1.76	153.5	23.3	
07/22/2017	11:10	5.93	67.8	6.89	1.21	174.2	21.9	
08/22/2017	8:44							51
08/26/2017	11:03	5.17	55.5	6.54	0.36	149.1	19.2	
09/23/2017	10:00	3.82	39.7	6.38	1.41	160.4	17.1	
10/21/2017	10:15	1.41	12.6	6.45	3.08	170.0	9.0	

**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/cm <sup>A</sup>	NA	<153
04/21/2017	9:32	6.92	60.9	5.45	0.84	100.5	9.4	
05/19/2017	9:45	5.34	59.6	5.81	0.80	131.8	20.9	
06/23/2017	9:55	3.67	41.4	6.12	1.50	157.2	21.6	309
07/21/2017	9:30	2.56	30.3	5.77	1.64	160.0	23.8	
08/22/2017	8:34							228
08/25/2017	9:30	2.85	30.7	5.64	1.36	149.0	18.8	
09/22/2017	9:40	1.39	14.4	5.88	2.49	203.8	17.6	
10/20/2017	10:02	2.85	25.9	5.70	2.31	224.4	10.4	

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

Date	Time of Sample	<i>E. coli</i> (CTS/100mL)
Standard	NA	<153
09/25/2017	14:05	330

**04-WDY, Wendy's Brook, Rte. 125, Market Basket Parking Lot, Lee - Class A**

Date	Time of Sample	<i>E. coli</i> (CTS/100mL)
Standard	NA	<153
09/25/2017	13:55	810

**02-WDY, Wendy's Brook, Outlet of Culvert Behind Wendy's, Lee - Class A**

Date	Time of Sample	<i>E. coli</i> (CTS/100mL)
Standard	NA	<153
09/25/2017	13:50	150

**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)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<153
04/21/2017	9:43	9.71	83.2	6.58	1.88	1190.0	8.2	
05/19/2017	10:00	8.24	88.4	6.09	1.94	448.6	19.2	
06/23/2017	10:12	7.18	75.8	6.63	2.65	1133.0	18.1	301
07/21/2017	9:45	6.73	74.8	6.83	7.72	1396.0	19.8	
08/22/2017	8:34							1986
08/25/2017	9:40	7.13	73.4	6.73	7.13	1070.0	16.8	
09/22/2017	9:55	6.99	71.2	6.72	4.63	1349.0	16.0	
09/25/2017	13:40							160
10/21/2017	10:12	5.89	56.2	6.45	2.12	1597.0	12.0	

**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/cm <sup>A</sup>	NA	<153
04/22/2017	10:10	9.47	77.6	5.88	3.83	77.0	6.8	
05/21/2017	9:45	9.28	85.7	6.21	4.00	109.5	11.7	
06/23/2017	8:45							605
06/24/2017	9:55	7.09	78.6	6.70	13.80	129.7	20.7	
07/22/2017	10:30	6.23	68.7	6.95	14.80	160.1	20.1	
08/22/2017	8:18							980
08/26/2017	10:28	8.53	85.4	7.01	11.40	140.3	13.7	
09/23/2017	9:42	7.09	71.7	6.76	7.78	148.6	15.9	
10/21/2017	10:48	8.63	73.8	6.81	6.59	120.0	8.4	

**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/cm <sup>A</sup>	NA	<153
04/21/2017	9:16	8.75	77.8	5.77	3.80	150.2	9.9	
05/19/2017	9:25	8.10	91.1	6.02	2.19	138.5	21.2	
06/23/2017	9:35	7.05	78.6	6.73	3.77	179.2	20.9	110
07/21/2017	9:20	7.13	82.9	6.58	3.56	200.0	23.4	
08/22/2017	8:06							921
08/25/2017	9:15	6.92	75.5	6.54	2.66	183.6	19.2	
09/22/2017	9:20	6.65	69.6	6.62	3.76	202.2	17.2	
10/20/2017	9:36	8.02	72.8	6.65	3.71	279.5	10.9	

**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 <sup>A</sup>	NA	230 <sup>B</sup>	<153	<47
02/14/2017	12:40	13.22	90.4	6.15	3.36	215.0	0.0	42		
04/21/2017	8:58	9.03	80.3	5.80	4.07	175.7	10.1			
05/19/2017	9:00	7.11	80.1	6.12	3.42	149.0	21.0			
06/22/2017	12:15	7.35	82.3	6.90	7.01	208.2	20.9	50	40	
06/23/2017	9:10	6.04	67.2	6.48	5.85	200.1	20.6		359	
07/20/2017	11:30	5.15	62.0	6.50	7.20	210.6	24.2	43	120	120
07/21/2017	9:00	4.83	55.7	6.45	6.21	204.0	22.8			
08/17/2017	11:45	6.58	71.7	6.45	5.73	259.9	19.5	65	80	151
08/22/2017	8:00								291	141
08/25/2017	9:00	5.14	65.6	6.44	4.77	181.0	19.0			
09/22/2017	8:50	5.64	58.8	6.39	3.66	227.9	17.6			
10/20/2017	9:07	6.58	59.9	6.52	4.64	300.4	11.4			

Date	Time of Sample	Total Phosphorus (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrite (NO <sub>2</sub> ) + Nitrate(NO <sub>3</sub> ) (mg/L)	Total Nitrogen (mg/L)
Standard	NA	Narrative	Narrative	Narrative	Narrative
02/14/2017	12:40	0.013	0.27	0.17	0.44
06/22/2017	12:15	0.049	0.55	0.11	0.66
07/20/2017	9:00	0.042	0.91	0.12	1.03
08/17/2017	11:45	0.037	0.39	0.07	0.46

**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/cm <sup>A</sup>	NA	<153
04/22/2017	11:05	8.30	70.2	6.15	1.52	166.6	7.2	
05/21/2017	10:20	8.78	81.1	6.22	1.65	242.2	11.9	
06/23/2017	8:26							41
06/24/2017	10:40	7.96	80.6	6.72	1.61	224.2	15.8	
07/22/2017	11:30	8.81	85.5	6.80	0.65	268.1	14.7	
08/22/2017	7:52							105
08/26/2017	11:20	8.91	84.2	6.70	0.64	263.4	12.4	
09/23/2017	10:18	8.04	76.0	6.63	0.13	268.7	12.5	
10/21/2017	10:27	8.50	75.9	6.57	0.66	270.0	10.1	

**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/cm <sup>A</sup>	NA	<153
04/21/2017	8:20	9.15	79.7	5.86	4.28	191.2	9.5	
05/19/2017	8:20	6.29	71.2	6.16	3.90	77.8	20.1	
06/23/2017	8:25	8.35	90.2	6.74	4.31	225.5	19.3	145
07/21/2017	8:30	6.29	70.3	6.80	4.50	231.2	21.0	
08/22/2017	7:30							105
08/25/2017	8:30	6.60	69.5	6.72	3.29	211.4	18.2	
09/22/2017	8:25	6.30	64.6	6.74	4.14	252.1	17.0	
10/20/2017	8:30	6.49	60.3	6.72	5.49	284.7	10.4	

**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/cm <sup>A</sup>	NA	<153
04/22/2017	8:45	6.14	53.5	5.96	2.75	241.0	8.8	
05/21/2017	8:34	8.06	76.2	6.33	3.19	323.6	12.8	
06/23/2017	7:23							295
06/24/2017	8:30	5.29	57.6	6.84	3.31	397.8	19.6	
07/22/2017	8:50	4.58	49.9	6.95	5.35	454.2	19.6	
08/22/2017	6:50							130
08/26/2017	8:53	5.88	57.8	6.95	5.12	513.0	14.7	
09/23/2017	8:35	2.97	30.5	6.76	6.32	420.6	16.5	
10/21/2017	8:33	4.18	37.1	6.86	2.56	480.0	10.1	

**05-OYS, Oyster River, Route 108 Bridge, Mill Pond, Durham, NH - 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/cm <sup>A</sup>	NA	<153
04/22/2017	9:00	8.32	71.6	6.33	3.60	237.0	9.0	
05/21/2017	8:47	7.04	74.0	6.32	3.28	222.2	17.7	
06/23/2017	7:17							< 10
06/24/2017	8:43	6.24	72.5	6.80	1.35	2600.0	22.7	
07/22/2017	9:10	5.77	67.8	6.84	2.09	264.2	23.7	
08/22/2017	6:45							65
08/26/2017	9:14	4.77	51.8	6.64	2.14	255.5	19.6	
09/23/2017	8:47	4.93	53.1	6.73	2.08	277.8	18.4	
10/21/2017	8:45	4.45	41.4	6.62	3.00	350.0	12.1	

**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/cm <sup>A</sup>	NA	<153
04/22/2017	8:20	8.44	71.0	6.40	7.05	355.0	7.5	
05/21/2017	8:12	8.96	83.7	6.87	2.41	1151.0	12.2	
06/23/2017	7:10							368
06/24/2017	8:15	8.53	93.6	7.36	2.07	1357.0	19.5	
07/22/2017	8:30	6.88	76.8	7.45	2.88	1618.0	20.27	
08/22/2017	6:40							> 2420
08/26/2017	8:22	8.46	84.4	7.41	2.74	1398.0	14.9	
09/23/2017	8:18	6.91	71.4	7.48	3.60	1522.0	16.6	
10/21/2017	8:15	7.32	55.9	7.36	1.42	1565.0	10.5	

**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/cm <sup>A</sup>	NA	<153
04/22/2017	9:10	8.83	77.1	6.46	5.21	564.0	8.9	
05/21/2017	9:01	8.59	82.1	6.79	2.70	777.0	13.3	
06/23/2017	7:31							1050
06/24/2017	9:00	7.47	83.3	7.20	3.72	948.0	20.7	
07/22/2017	9:30	6.62	74.7	7.56	4.31	1397.0	21.0	
08/22/2017	6:59							179
08/26/2017	9:38	7.52	76.7	7.75	2.97	1392.0	15.6	
09/23/2017	8:58	7.31	75.6	7.57	2.09	1330.0	16.9	
10/21/2017	9:00	8.15	75.4	7.47	1.93	1060.0	11.7	

**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/cm <sup>A</sup>	NA	<153
04/22/2017	9:40	8.88	74.3	6.32	4.90	303.0	7.1	
05/21/2017	9:15	8.36	81.4	6.48	7.45	323.2	14.3	
06/23/2017	7:45							134
06/24/2017	9:32	7.98	89.4	7.10	5.23	405.0	20.7	
07/22/2017	10:02	7.76	87.0	7.38	5.34	366.7	20.9	
08/22/2017	7:14							152
08/26/2017	10:04	8.43	83.5	7.08	4.82	281.5	14.9	
09/23/2017	9:19	7.43	76.5	7.08	3.81	360.3	16.6	
10/21/2017	9:25	8.35	73.8	6.86	9.69	410.0	9.7	