

# 2014 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

<sup>C</sup> Calculated using 1/2 of the 0.25 mg/L detection limit of TKN (0.25 mg/L)

## 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
04/04/2014	11:55	12.53	91.0	5.37	0.53	67.6	2.1	
05/09/2014	11:30	8.16	78.8	5.75	0.57	116.1	13.8	
06/13/2014	10:10	6.80	68.2	5.87	1.63	147.7	15.6	
07/11/2014	10:40	5.54	61.5	5.57	1.74	131.8	20.3	
07/17/2014	09:43							80
08/15/2014	10:25	6.41	67.2	5.39	0.87	79.0	17.7	
08/21/2014	09:55							210
09/12/2014	10:54	6.52	65.9	5.85	2.79	162.2	15.5	
10/17/2014	10:48	4.92	49.5	5.70	0.88	118.0	15.7	

**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 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<153
04/04/2014	11:35	12.91	91.7	4.70	1.20	60.1	1.3	
05/09/2014	11:15	10.10	92.6	5.07	0.28	109.3	11.4	
06/13/2014	10:20	8.32	83.3	5.07	0.53	108.0	15.5	
07/11/2014	10:25	8.18	88.0	4.79	0.35	121.2	19.1	
07/17/2014	09:38							50
08/15/2014	10:12	7.96	81.6	4.41	0.85	86.3	16.6	
08/21/2014	09:48							30
09/12/2014	10:38	7.94	79.9	5.05	2.32	77.4	15.3	
10/17/2014	10:35	7.00	70.5	5.11	0.45	86.0	15.3	

**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 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<153
04/04/2014	10:50	14.16	101.2	5.28	0.73	66.8	1.60	
05/09/2014	10:30	7.35	70.1	5.63	0.92	128.2	13.2	
06/13/2014	09:40	3.74	39.4	5.77	3.69	160.2	17.4	
07/11/2014	09:45	3.04	34.7	5.44	2.73	146.5	21.5	
07/17/2014	09:20							220
08/15/2014	09:38	6.05	63.6	5.33	1.43	87.6	17.8	
08/21/2014	09:40							70
09/12/2014	09:55	2.59	26.5	5.56	2.86	138.1	16.5	
10/17/2014	10:00	3.60	36.8	5.77	3.30	187.0	16.3	

**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
04/05/2014	10:30	9.07	69.2	6.20	1.56	78.8	4.0	
05/10/2014	10:45	8.45	83.0	6.58	0.96	120.3	14.6	
06/14/2014	11:25	6.02	65.5	6.38	1.31	126.6	19.6	
07/12/2014	10:30	5.26	62.8	6.24	1.13	129.4	24.8	
07/17/2014	09:15							80
08/21/2014	09:34							60
09/13/2014	10:57	5.46	54.2	6.17	1.16	131.6	14.5	
10/18/2014	11:15	1.87	18.5	6.24	0.73	152.4	15.1	

**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 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<153
04/04/2014	10:40	12.65	90.6	6.00	0.82	71.1	1.5	
05/09/2014	10:12	7.12	67.5	6.17	1.10	126.9	13.1	
06/13/2014	09:30	3.95	41.2	6.02	2.64	145.7	17.3	
07/11/2014	09:31	2.73	31.1	5.79	2.82	150.4	21.8	
07/17/2014	09:05							50
08/15/2014	09:25	5.36	56.2	5.63	1.78	96.2	17.8	
08/21/2014	09:14							180
09/12/2014	09:40	3.77	39.3	6.17	3.03	137.9	17	
10/17/2014	09:48	2.91	30.0	5.87	2.74	172.0	16.6	

**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/cm <sup>A</sup>	NA	<153
04/04/2014	11:10	12.50	93.2	5.87	0.77	95.6	3.2	
05/09/2014	10:50	8.94	81.8	6.00	0.98	304	11.3	
06/13/2014	09:55	7.09	68.8	6.22	6.07	631	14.2	
07/11/2014	10:02	7.00	73.8	6.19	3.24	480.5	18.1	
07/17/2014	09:28							380
08/15/2014	09:57	7.20	73.6	6.19	4.08	221.1	16.4	
08/21/2014	09:25							50
09/12/2014	10:20	6.19	62.1	6.43	4.04	680	15.5	
10/17/2014	10:14	6.15	62.0	6.27	4.01	258	15.6	

**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
04/05/2014	10:15	12.65	96.5	6.10	2.26	133.8	3.6	
05/10/2014	10:30	9.29	83.8	6.39	3.50	577	11.0	
06/14/2014	11:05	8.43	84.9	6.56	6.18	745	15.7	
07/12/2014	10:20	6.85	70.2	6.45	6.70	1047	18.2	
07/17/2014	09:09							13100
08/16/2014	12:20	8.58	89.5	6.54	6.56	605	17.4	
08/21/2014	09:18							800
09/13/2014	10:44	7.79	74.5	6.42	3.13	1677	13.3	
10/18/2014	11:03	6.83	67.3	6.50	3.46	883	14.4	

**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/cm <sup>A</sup>	NA	<153
04/05/2014	10:00	12.66	89.9	6.23	3.43	41.1	1.4	
05/10/2014	10:10	9.77	89.2	6.69	5.06	104.8	11.3	
06/14/2014	10:35	8.31	84.8	6.62	9.35	105.5	16.3	
07/12/2014	09:50	6.19	64.9	6.42	12.22	119.4	17.9	
07/17/2014	08:46							410
08/16/2014	11:35	6.91	72.3	6.36	9.16	79.7	17.1	
08/21/2014	08:55							140
09/13/2014	10:18	4.38	42.0	6.27	10.06	105.2	14.4	
10/18/2014	10:40	6.17	60.4	6.47	6.35	143.3	13.8	



**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
04/04/2014	10:15	12.91	91.4	6.26	2.62	71.6	1.2	
05/09/2014	09:56	8.56	82.3	6.50	1.66	137.4	13.6	
06/13/2014	09:15	7.69	79.7	6.61	3.72	163.2	16.8	
07/11/2014	09:15	7.31	82.2	6.36	3.64	181.1	21.0	
07/17/2014	08:55							150
08/15/2014	09:13	8.36	88.0	6.10	2.32	111.2	17.6	
08/21/2014	09:05							90
09/12/2014	09:22	7.36	75.8	6.79	4.23	178.2	16.3	
10/17/2014	09:32	7.35	74.0	6.37	2.82	201.0	15.4	

**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)	<i>E. coli</i> (CTS/100mL)	<i>E. coli</i> Geometric Mean	Chloride (mg/L)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 µS/cm <sup>A</sup>	NA	<153	<47	230 <sup>B</sup>
01/28/2014	12:05	14.01	96.1	6.19	1.74	161.3	0.1			25
04/04/2014	09:50	13.56	96.9	6.21	3.69	76.2	1.5			
05/09/2014	09:25	8.52	80.2	6.52	2.24	156.0	13.3			
06/13/2014	09:00	7.06	72.9	6.42	6.64	200.1	17.1			
06/30/2014	10:35	6.51	73.5	6.50	5.70	215.8	21.5	70		44
07/11/2014	09:01	6.24	70.0	6.22	6.58	183.5	21.0			
07/17/2014	08:35							410		
07/18/2014	12:00	6.77	75.4	6.65	6.02	263.8	21.2	140		59
08/15/2014	08:57	7.48	78.6	6.07	3.94	102.0	17.6			
08/21/2014	08:44							70		
08/22/2014	09:30	7.58	80.3	6.23	4.17	156.0	18.1	340	157	29
09/12/2014	09:09	5.67	57.9	6.26	4.91	194.8	16.4			
10/17/2014	09:13	6.67	66.7	6.39	5.02	289.0	15.1			

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

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
01/28/2014	12:05	0.0159	ND	0.160	0.285 <sup>C</sup>
06/30/2014	10:35	0.0346	0.470	0.100	0.570
07/18/2014	12:00	0.0350	0.580	0.095	0.675
08/22/2014	09:30	0.0382	0.420	0.130	0.550

**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)	<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
04/04/2014	09:10	11.83	87.1	6.22	5.05	81.4	1.1	
05/09/2014	09:05	8.58	81.1	6.57	2.53	173.2	12.8	
06/13/2014	08:45	7.65	76.5	6.61	5.83	221.8	15.9	
07/11/2014	08:50	6.43	70.9	6.33	5.33	207.7	20.2	
07/17/2014	08:28							410
08/15/2014	08:40	7.94	83.1	6.19	5.31	130.6	17.7	
08/21/2014	08:35							200
09/12/2014	08:53	6.21	62.2	6.39	4.38	232.7	15.5	
10/17/2014	08:53	5.04	49.8	6.31	2.59	266.0	14.9	

**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 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<153
04/05/2014	10:40	11.47	84.1	6.35	6.71	73.2	2.7	
05/10/2014	11:05	8.93	82.6	6.68	1.55	228.0	11.2	
06/14/2014	12:00	7.39	74.2	6.56	2.06	232.0	15.2	
07/12/2014	10:45	8.16	80.4	6.36	2.02	241.8	14.9	
07/17/2014	08:25							90
08/21/2014	08:32							60
09/13/2014	11:16	8.84	80.4	6.40	1.09	254.0	11.3	
10/18/2014	11:30	8.20	76.6	6.60	1.38	258.8	12.3	

**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
04/04/2014	08:30	12.36	87.1	6.21	5.47	59.6	1.1	
05/09/2014	08:35	8.76	82.6	6.63	3.16	176.5	12.9	
06/13/2014	08:30	7.97	80.4	6.61	5.35	107.7	16.1	
07/11/2014	08:25	6.17	68.0	6.31	6.06	218.2	20.2	
07/17/2014	08:12							210
08/15/2014	08:15	7.61	79.2	6.35	5.69	137.7	17.4	
08/21/2014	08:08							80
09/12/2014	08:25	6.38	63.9	6.40	4.10	240.6	15.6	
10/17/2014	08:20	6.15	60.0	6.45	3.21	261.0	14.0	

**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	>5.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 µS/cm <sup>A</sup>	NA	<406
04/05/2014	08:40	10.53	77.3	6.28	5.17	110.4	2.4	
05/10/2014	08:38	6.85	63.2	6.72	2.34	317.0	10.9	
06/14/2014	08:45	6.22	62.2	6.52	8.77	121.3	15.5	
07/12/2014	08:40	4.66	50.2	6.55	4.61	277.3	18.3	
07/17/2014	07:22							950
08/16/2014	09:10	4.29	44.5	6.19	2.60	153.4	17.0	
08/21/2014	07:19							780
09/13/2014	08:45	3.50	34.5	6.39	10.23	394.3	14.0	
10/18/2014	09:07	2.83	27.2	6.63	3.57	387.6	13.6	

**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)
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5 - 8.0</b>	<b>&lt;10 NTU above background</b>	<b>&lt;835 µS/cm<sup>A</sup></b>	<b>NA</b>	<b>&lt;406</b>
04/05/2014	08:20	12.19	92.4	6.66	8.09	394.4	3.4	
05/10/2014	08:15	8.20	77.5	6.99	1.84	1267	11.3	
06/14/2014	08:15	7.74	78.0	7.09	3.92	928.0	15.5	
07/12/2014	08:15	7.12	75.0	7.26	2.94	1529	17.8	
07/17/2014	07:15							650
08/16/2014	08:30	8.19	83.4	7.28	3.42	1176	17.1	
08/21/2014	07:12							1000
09/13/2014	08:15	7.07	68.4	6.89	2.54	1522	13.6	
10/18/2014	08:45	6.03	56.2	7.01	1.74	1059	14.4	



**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	>5.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 µS/cm <sup>A</sup>	NA	<406
04/05/2014	08:55	12.6	94.9	6.59	4.69	168.8	3.4	
05/10/2014	09:02	9.72	90.1	6.98	1.30	317	11.7	
06/14/2014	09:10	8.44	84.4	7.11	4.15	892	15.5	
07/12/2014	08:50	7.41	78.1	7.26	2.74	1079	18.1	
07/17/2014	07:30							200
08/16/2014	10:00	7.94	85.3	7.11	2.41	487	19.1	
08/21/2014	07:27							150
09/13/2014	09:00	7.98	78.9	7.25	1.92	1312	13.8	
10/18/2014	09:40	6.94	67.3	7.27	1.55	958	14.4	

**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)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>5.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 µS/cm <sup>A</sup>	NA	<406
04/05/2014	09:15	13.2	98.3	6.63	14.9	111.2	2.7	
05/10/2014	09:26	9.67	88.3	7.06	5.58	366.4	11.6	
06/14/2014	09:25	8.46	85.4	7.20	7.10	372.7	15.9	
07/12/2014	09:10	7.80	83.9	7.10	4.02	335.5	18.6	
07/17/2014	07:37							150
08/16/2014	10:25	8.09	84.4	6.83	5.15	222.8	17.4	
08/21/2014	07:34							180
09/13/2014	09:30	8.43	79.5	6.91	1.43	416.8	12.9	
10/18/2014	09:55	7.12	71.2	6.97	1.71	379.5	14.0	

**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	>5.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 µS/cm <sup>A</sup>	NA	<406
04/05/2014	09:35	13.14	95.7	6.35	8.55	156.0	2.2	
05/10/2014	09:45	9.16	83.1	6.94	3.76	357.8	11.0	
06/14/2014	10:05	8.45	84.4	6.86	11.0	312.4	15.4	
07/12/2014	09:30	6.93	74.8	6.75	7.44	349.7	19.0	
07/17/2014	07:50							200
08/16/2014	11:00	8.09	84.9	6.61	9.03	240.8	18.1	
08/21/2014	07:48							60
10/18/2014	10:20	6.74	66.2	6.60	5.97	379.4	14.7	