

2016 BAKER 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 µS/cm indicate exceedance of chronic chloride standard of 230 mg/L

^B Chronic water quality standard

^C Calculated using 1/2 of the 0.25 mg/L detection limit of Total Kjeldahl Nitrogen (0.125 mg/L) and/or 1/2 of the 0.05 mg/L detection limit for nitrate (NO₃) + nitrite (NO₂) (0.025 mg/L)

11-BKR, Baker River, Mooselauke Bridge, Warren

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	Chloride (mg/L)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm ^A	NA	<230 mg/L ^B	<406
06/19/2016	12:15	9.31	93.2	6.58	0.40	27.4	15.3		
07/11/2016	07:35							3	
07/14/2016	16:01	6.95	78.6	6.68	0.60	30.2	18.2		
08/15/2016	07:30							4	10
08/24/2016	16:53	9.84	105.8	6.33	0.25	29.9	18.3		
09/08/2016	17:25	9.78	98.9	6.53	0.50	34.5	18.3		
09/12/2016	07:00							3	30

10-BKR, Baker River, Batchelder Bridge Warren

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	Chloride (mg/L)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm ^A	NA	<230 mg/L ^B	<406
06/20/2016	07:45							7	< 10
07/11/2016	07:42							4	
07/14/2016	13:57	6.68	85.2	6.82	0.12	37.7	20.3		
08/15/2016	07:40							5	10
08/24/2016	15:10	9.68	80.6	6.46	0.15	36.9	20.0		
09/08/2016	15:31	9.81	98.1	6.58	0.10	39.3	20.6		
09/12/2016	07:28							4	< 10

06A-BKR, Baker River, Silver Bridge, Saunders Hill Road, Wentworth

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)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm ^A	NA	<230 mg/L ^B	<406
07/11/2016	08:30							11	
07/14/2016	15:26	6.90	78.6		0.30	78.3	21.4		
08/24/2016	16:27	9.52	98.1	6.51	0.30	70.9	21.1		
09/08/2016	16:55	9.51	91.3	6.51	0.45	91.4	21.8		
09/12/2016	08:30							11	160

06-SBR, South Branch Baker River, North Dorchester Road Bridge, Wentworth - 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	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm ^A	NA	<230 mg/L ^B	<406	<126
06/23/2016	10:00	8.23	83.0	7.24	4.49	157.3	15.8	24	10	
07/12/2016	08:45	9.05	96.5	7.29	1.91	61.8	18.4	6	50	
08/15/2016	09:50	8.57	97.3	7.32	3.54	55.3	21.6	7	350	56
10/18/2016	10:00	11.29	100.6	6.71	0.37	74.9	10.3	9		

Date	Time of Sample	Total Phosphorus	Nitrite (NO ₂) + Nitrate (NO ₃) (mg/L)	Total Kjeldahl Nitrogen (TKN) (mg/L)	Total Nitrogen (mg/L)
Standard	NA	NA	NA	NA	NA
06/23/2016	10:00	0.0303	< 0.05	0.43	0.455 ^C
07/12/2016	08:45	0.0116	0.07	< 0.25	0.195 ^C
08/15/2016	09:50	0.0163	< 0.05	0.39	0.415 ^C

03-BKR, Baker River, Route 25 D/S of School Street & Gravel Pit, Rumney

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)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm ^A	NA	<230 mg/L ^B	<406
06/18/2016	14:25	9.09	101.6	6.28	0.74	63.5	20.8		
06/20/2016	09:55							10	30
07/10/2016	12:10	9.08	91.1	5.74	1.58	6.4	16.6		
07/11/2016	08:15							9	
08/19/2016	08:55							12	60
08/21/2016	12:40	8.15	95.1	6.48	0.60	74.5	23.1		
09/16/2016	13:50	9.46	100.3	6.45	0.83	84.9	18.2		
10/31/2016	09:55							5	50

02-BKR, Baker River, Covered Bridge/Smith Bridge Road, Plymouth

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	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm ^A	NA	<230 mg/L ^B	<406	<126
06/18/2016	12:35	8.40	92.6	6.16	0.23	70.0	20.1			
06/20/2016	08:45							12	20	
07/10/2016	10:40	8.98	93.3	6.57	1.53	72.1	17.0			
07/11/2016	08:00							10		
08/19/2016	08:35							12	90	
08/21/2016	11:14	8.09	93.0	6.39	1.59	78.8	22.4			
09/12/2016	08:40							15	380	
09/16/2016	12:30	9.33	95.7	6.48	0.88	89.9	16.7			
10/31/2016	10:15							5	150	172

01A-BKR, Baker River, Tenney Mountain Highway Bridge, Plymouth

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	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm ^A	NA	<230 mg/L ^B	<406	<126
06/18/2016	11:54	8.33	90.7	6.04	0.90	75.5	19.5			
06/20/2016	08:45							13	110	
07/10/2016	09:55	7.46	77.7	6.56	1.55	81.6	17.1			
07/11/2016	09:20							11		
08/19/2016	08:25							13	80	
08/21/2016	10:54	8.04	92.7	6.46	1.20	84.6	22.5			
09/12/2016	11:30								240	
09/16/2016	12:15	9.07	92.6	6.46	1.13	96.9	16.4			
10/31/2016	08:36							6	160	145

01-BKR, Baker River, Green Bridge (Route 3/25 Bridge), Plymouth

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	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm ^A	NA	<230 mg/L ^B	<406	<126
06/18/2016	11:00	8.20	92.0	6.19	0.73	80.7	21.0			
06/20/2016	8:15							14	20	
07/10/2016	9:20	8.30	85.7	6.45	1.56	87.4	17.1			
07/11/2016	7:45							11		
08/19/2016	8:15							14	60	
08/21/2016	10:20	8.03	94.0	6.48	1.12	90.1	23.3			
09/12/2016	8:30							18	270	
09/16/2016	11:51	9.12	93.7	6.40	1.14	103.1	16.8			
10/31/2016	8:15							5	230	155