

Table 4. Field Water Quality Data for Laurel Lake, 2002.

Sampling locations are illustrated in Figure 5.

Sites selected for sampling include in-lake (LL-1) surface (S), middle (M), and bottom (B) stations, the Sargent Brook tributary (LL-2), the unnamed tributary on Laurel Lake Crossroads (LL-3), the outlet (LL-4), and a storm drain at the boat launch (LL-5).

Arithmetic Means are presented for field parameters.

Low Flow: In some cases, flow rates were below detection levels for field instrumentation and are recorded as <0.01 cfs.

N/A: Not applicable, sampling of parameter not required at this location or time per Quality Assurance Project Plan.

No flow: Non-flowing conditions at sampling locations prevented some or all of field measurements.

Orange coloration indicates that field parameter exceeds Massachusetts Water Quality Standards (DEP 1998) and/or the Best Professional Judgment (BPJ) of ESS Water Resource Scientists.

Refer to Section 3.2.2 for a more detailed explanation of water quality standards employed for this analysis.

Site	Date	Sample Type (Dry vs Wet)	Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (% Saturation)	Turbidity (NTU)	pH (SU)	Conductivity (µmhos/cm)	Secchi (meters)	Flow (mgd)
LL-1S	8/27/2002	Dry	23.9	8.90	106.0	0.00	8.8	552	3.4	N/A
LL-1S	9/26/2002	Dry	20.5	9.00	100.0	4.01	9.0	524	3.2	N/A
Mean			22.2	8.95	103.0	2.01	8.9	538	3.30	N/A
LL-1M	8/27/2002	Dry	20.3	10.90	118.0	0.00	8.5	591	N/A	N/A
LL-1M	9/26/2002	Dry	20.1	8.57	94.0	3.40	8.9	529	N/A	N/A
Mean			20.2	9.74	106.0	1.70	8.7	560	N/A	N/A
LL-1B	8/27/2002	Dry	6.7	0.30	2.6	0.00	7.5	634	N/A	N/A
LL-1B	9/26/2002	Dry	6.9	0.08	0.7	9.16	7.9	639	N/A	N/A
Mean			6.8	0.19	1.7	4.58	7.7	637	N/A	N/A
LL-2	8/27/2002	Dry	17.7	7.60	79.0	-	8.1	988	N/A	0.16
LL-2	9/15/2002	Wet	18.5	6.00	65.0	0	8.1	887	N/A	0.13
LL-2	10/11/2002	Wet	12.9	7.30	69.5	3	8.2	892	N/A	0.35
Mean			15.7	6.65	67.3	1.65	8.2	890	N/A	0.22
LL-3	8/27/2002	Dry								No flow
LL-3	9/15/2002	Wet	20.8	7.52	81.4	3.0	8.8	525	N/A	<0.01
LL-3	10/11/2002	Wet	13.4	7.30	70.7	5.7	8.3	577	N/A	<0.01
Mean			17.1	7.41	76.1	4.35	8.6	551	N/A	N/A
LL-4	8/27/2002	Dry								No flow
LL-4	9/15/2002	Dry								No flow
LL-4	10/11/2002	Wet								No flow
Mean										N/A
LL-5	10/11/2002	Wet	16.4	7.80	80.0	0.75	8.7	533	N/A	<0.01
Mean			16.4	7.80	80.0	0.75	8.7	533	N/A	N/A