

Table 5. Laboratory 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 (averages) are presented for laboratory parameters.

Data preceded by a less than symbol (<) were divided by 2 before mean values (averages) were computed.

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 sample collection.

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.

Sample ID	Date	Sample Type (Dry / Wet)	Fecal coliform (Col/100 ml)	Total Alkalinity (mg/L)	Ammonia Nitrogen (mg/L)	Nitrate Nitrogen (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Iron (mg/L)	Total Phosphorus (mg/L)	Dissolved Phosphorus (mg/L)
LL-1S	8/27/2002	Dry	<10	126	<0.01	<0.01	0.60	N/A	0.02	0.02
LL-1S	9/26/2002	Dry	<10	126	<0.01	<0.01	0.90	N/A	0.01	<0.01
Mean			5.0	126	0.01	0.01	0.75	N/A	0.02	0.01
LL-1M	8/27/2002	Dry	N/A	138	<0.01	<0.01	0.40	N/A	0.02	0.02
LL-1M	9/26/2002	Dry	N/A	122	<0.01	<0.01	0.80	N/A	0.02	<0.01
Mean			N/A	130	0.01	0.01	0.60	N/A	0.02	0.01
LL-1B	8/27/2002	Dry	N/A	176	1.2	<0.01	2.10	3.1	0.38	0.04
LL-1B	9/26/2002	Dry	N/A	162	<0.01	<0.01	0.90	N/A	0.02	0.01
Mean			N/A	169	0.6	0.01	1.50	3.1	0.20	0.02
LL-2	8/27/2002	Dry	60	241	0.02	0.06	<0.1	N/A	0.03	0.02
LL-2	9/15/2002	Wet	N/A	N/A	0.01	0.05	0.30	N/A	0.03	0.03
LL-2	10/11/2002	Wet	N/A	N/A	<0.01	0.04	0.30	N/A	0.01	0.01
Mean			60.0	241	0.0	0.05	0.22	N/A	0.02	0.02
LL-3	8/27/2002	Dry								No flow
LL-3	9/15/2002	Wet	N/A	N/A	0.02	0.03	<0.1	N/A	0.02	0.02
LL-3	10/11/2002	Wet	N/A	N/A	0.01	0.01	0.50	N/A	0.05	0.02
Mean			N/A	N/A	0.02	0.02	0.28	N/A	0.04	0.02
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										
LL-5	10/11/2002	Wet	N/A	N/A	0.02	<0.01	0.30	N/A	0.01	0.01
Mean					0.02	0.01	0.30	N/A	0.01	0.01