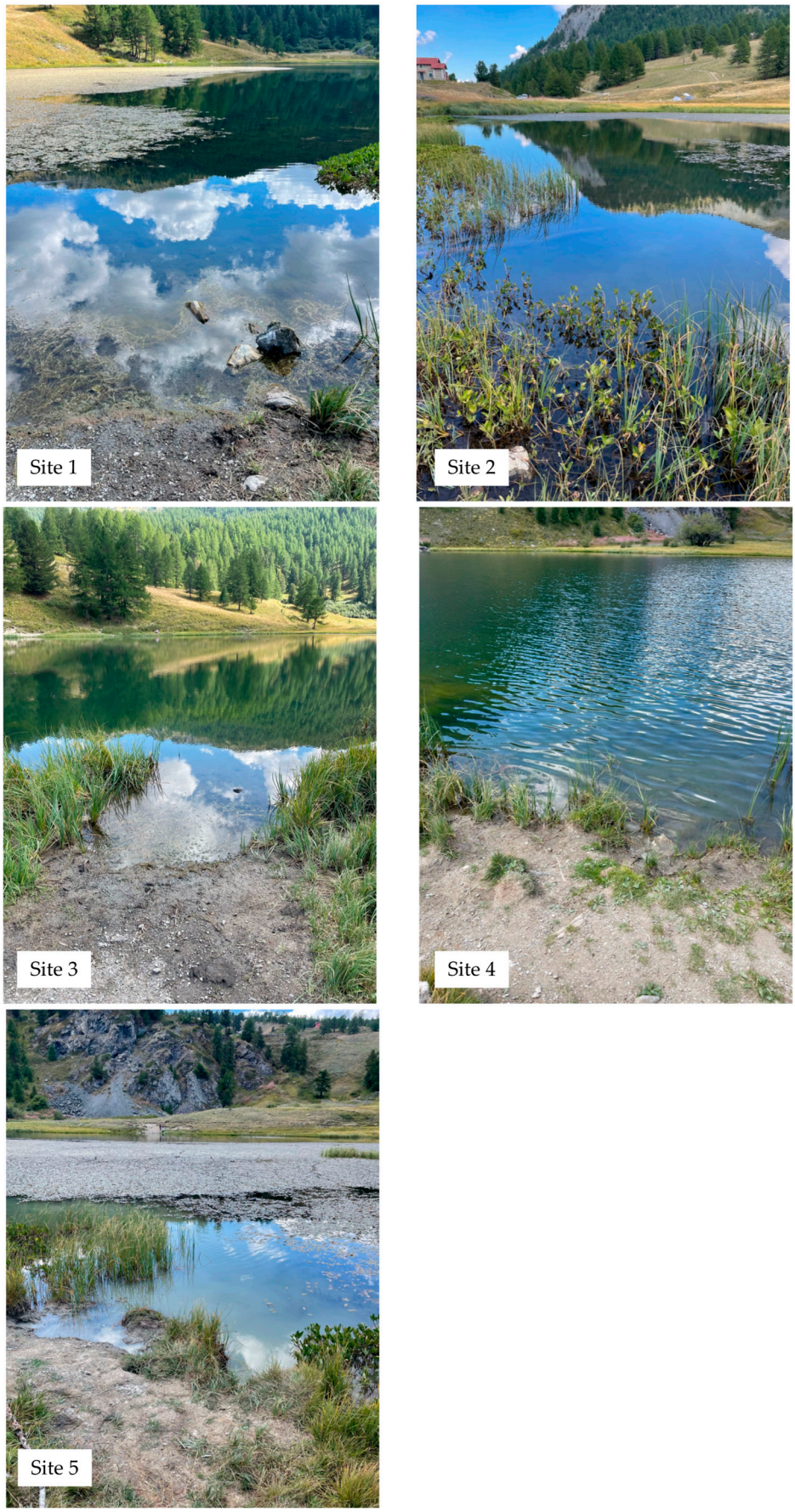

Figure S1. Photos of the five sampling sites selected on Nero Lake (Western Alps) in July 2022 and July 2023.

Table S1. Densities (ind./m²) of identified taxa in July 2022 (Nero Lake, Western Alps).

Identified Taxa		Sampling sites				
		Site 1	**Site 2**	**Site 3**	**Site 4**	**Site 5**
Ephemeroptera	*Baetis* sp.	40	0	20	0	0
	Cloeon gr. dipterum	0	0	50	0	0
	Procloeon cfr. bifidum	0	0	20	0	0
Coleoptera	Dytiscidae	10	0	10	0	0
	Haliplidae	0	0	10	10	0
Odonata	f. Coenagrionidae	0	0	0	0	0
	Enallagma cyathigerum	40	0	80	40	0
	Aeshnidae	0	0	0	10	0
Diptera	Ephydridae	0	0	10	0	0
	Tabanidae gen. Chrysops	0	0	10	0	20
Diptera f. Chirnomidae	sf. Chironominae tr. Chironomini	140	110	610	50	90
	sf. Chironominae tr. Tanytarsini	10	40	40	0	10
	sf. Tanypodinae	720	590	580	180	320
	sf. Orthocladiinae	20	0	90	20	0
	sf. Corynoneurinae *Corynoneura* sp.	40	20	20	0	10
Megaloptera	*Sialis* sp.	200	40	40	230	240
Crustacea	*Gammarus* sp.	1480	20	210	190	0
Gastropoda	*Valvata piscinalis*	1910	10	350	1450	410
Bivalvia	*Pisidium* sp.	0	0	0	60	80
Oligochaeta	not identifiable	550	40	30	0	240
	f. Lumbriculidae	110	0	0	0	0
Hirudidae	*Glossiphonia* sp.	90	10	0	40	40
	Helobdella stagnalis	30	0	0	10	0
	Batracobdella sp.	0	0	0	0	10
Hydracarina		30	0	0	0	10

Table S2. Densities (ind./m²) of identified taxa in July 2023 (Nero Lake, Western Alps).

Identified Taxa		Sampling sites				
		Site 1	**Site 2**	**Site 3**	**Site 4**	**Site 5**
Ephemeroptera	*Baetis* sp.	20	0	0	20	10
Coleoptera	Dytiscidae	90	30	0	40	30
	Hygrobidae	10	10	0	0	0
	Elmidae	10	0	0	0	0
Odonata	f. Coenagrionidae	50	30	0	0	0
	Enallagma cyathigerum	300	80	0	180	130
Diptera	Limonidae	10	0	0	0	0
Diptera f. Chirnomidae	sf. Chironominae tr. Chironomini	1760	280	570	220	170
	sf. Chironominae tr. Tanytarsini	110	30	0	20	30
	sf. Diamesinae	10	0	0	0	790
	sf. Tanypodinae	750	370	110	610	0
	sf. Orthocladiinae	30	40	10	0	0
	sf. Corynoneurinae *Corynoneura* sp.	0	0	10	0	0
Megaloptera	*Sialis* sp.	310	110	40	130	90
Crustacea	*Gammarus* sp.	350	240	0	170	90
Gastropoda	*Valvata piscinalis*	2860	1680	290	2260	340
	Lymnaea sp.	0	0	10	0	0
Bivalvia	*Pisidium* sp.	0	10	10	0	0
Oligochaeta	not identifiable	130	20	80	340	120
	f. Lumbriculidae	150	70	40	730	980
	f. Enchytraeidae	0	10	0	0	0
Hirudidae	*Glossiphonia* sp.	10	110	50	20	30
	Helobdella stagnalis	0	0	20	0	20
Hydracarina		0	10	0	0	0

Table S3. Results of the post hoc Conover-Iman test performed on Hirudinea data (July 2022, Nero Lake, Western Alps).

Hirudinea 2022				
Comparison of x by group (No adjustment)				
Col Mean **Row Mean**	1	2	3	4
2	3.419 0.003*			
3	4.179 0.001*	0.760 0.232		
4	0.836 0.211	-2.584 0.014*	-3.343 0.004*	
5	1.064 0.156	-2.356 0.020*	-3.115 0.006*	0.228 0.412

Table S4. Results of the post hoc Conover-Iman test performed on Crustacea data (July 2023, Nero Lake, Western Alps).

Crustacea 2023				
Comparison of x by group (No adjustment)				
Col Mean **Row Mean**	1	2	3	4
2	2.037 0.035			
3	7.130 0.000*	5.093 0.000*		
4	3.361 0.004*	1.324 0.108	-3.768 0.002*	
5	4.787 0.000*	2.750 0.010*	-2.343 0.021*	1.426 0.092

Table S5. Results of the post hoc Conover-Iman test performed on Mollusca data (July 2023, Nero Lake, Western Alps).

Mollusca 2023				
Comparison of x by group (No adjustment)				
Col Mean **Row Mean**	1	2	3	4
2	1.189 0.131			
3	4.359 0.001*	3.170 0.005*		
4	0.713 0.246	-0.476 0.322	-3.646 0.002*	
5	4.042 0.001*	2.853 0.009*	-0.317 0.379	3.329 0.004*

Table S6. Results of the post hoc Conover-Iman test performed on Chironomini data (July 2023, Nero Lake, Western Al ps).

Chironomini 2023				
Comparison of x by group (No adjustment)				
Col Mean **Row Mean**	1	2	3	4
2	3.196 0.005*			
3	1.670 0.063	-1.525 0.079		
4	3.849 0.002*	0.654 0.264	2.179 0.027	
5	4.357 0.001*	1.162 0.136	2.687 0.011*	0.508 0.311