

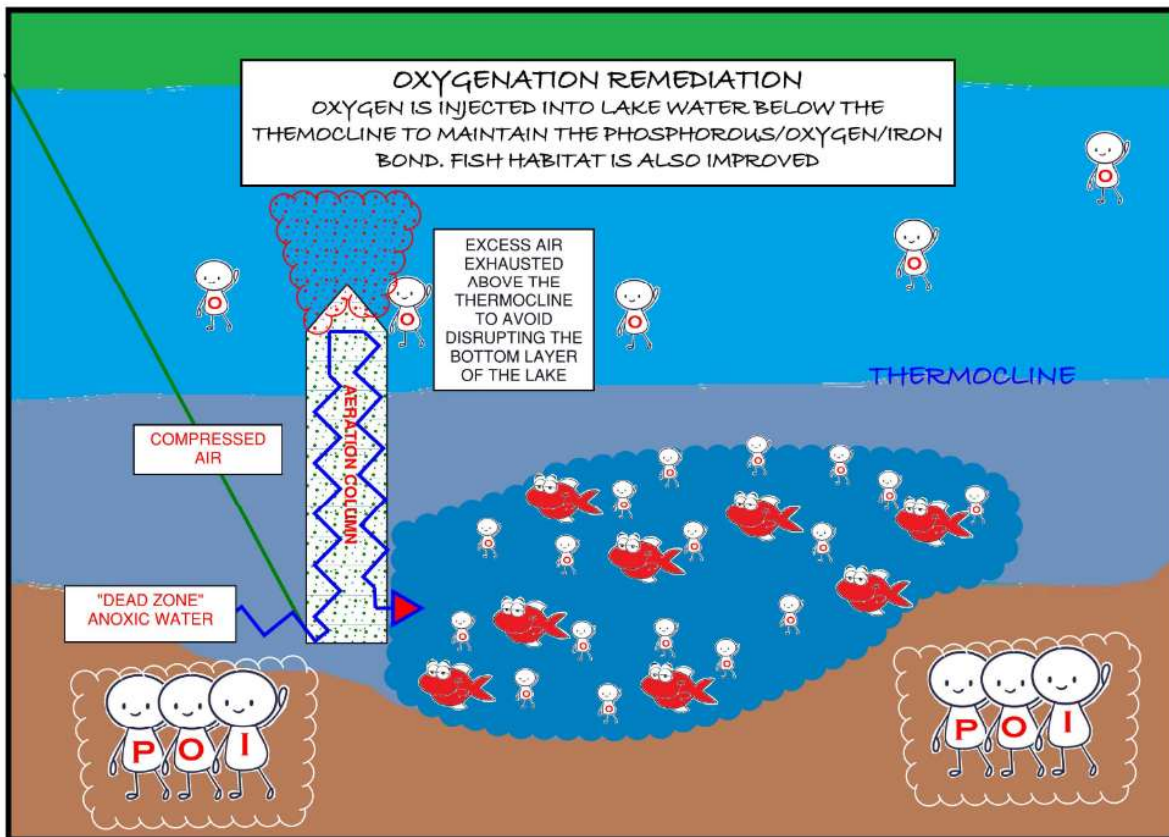
FRIENDS OF LAKE EUGENIA

2026 SEASON-END REPORT

Thank you for your support in 2026. This has been a year of great accomplishment.

INSTALLATION OF THE HYPOLIMNETIC AERATION COLUMN (HAC)

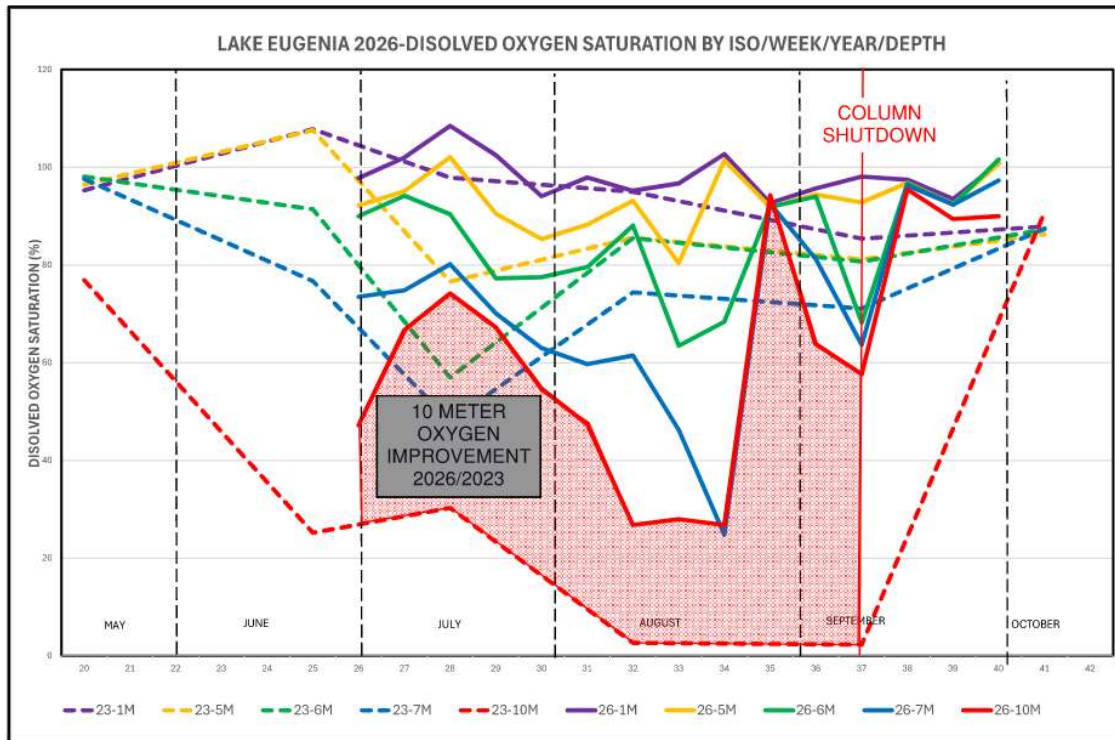
Here is a graphic recap of the aeration process that has been implemented:



The HAC was installed at the end of May 2026. *Friends* has sampled temperature and oxygen levels weekly.

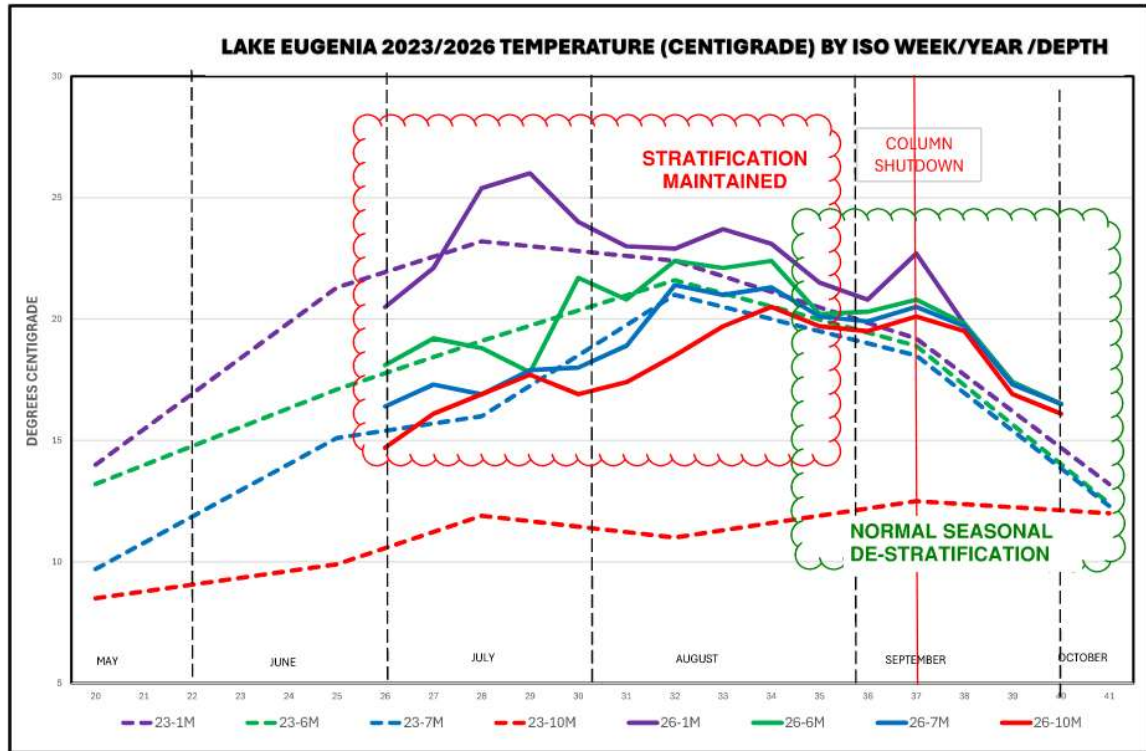
QUANTITATIVE GOALS

Oxygen Saturation-significant gains were achieved:



Oxygen Dispersion-Multiple testing locations confirmed that oxygen was evenly dispersed throughout the deepest part of the lake.

Maintain temperature stratification: Avoiding detrimental non-seasonal “mixing” of the lake was achieved:



Maintain tested blue-green algae levels at the public beach below recreational limits: Municipal testing confirmed this was accomplished. The beach was closed in the first week of July 2023. The beach stayed open for all of 2026, reaching a one-time peak of 19% of the blue green algae limit, while most readings were below 10%

Eugenia Laboratory Analysis													
Sample Date		FS1				FS2				FS3			
		T.C (cfu/100mL)	E.Coli (cfu/100mL)	Phosphorous (mg/L)	Microcystin (ug/L)	T.C (cfu/100mL)	E.Coli (cfu/100mL)	Phosphorous (mg/L)	Microcystin (ug/L)	T.C (cfu/100mL)	E.Coli (cfu/100mL)	Phosphorous (mg/L)	Microcystin (ug/L)
May	5	16	0	0.03	-	145	0	0.03	-	19	0	0.03	-
	11	37	0	0.03	-	70	2	0.03	-	16	0	0.03	-
	19	192	126	0.03	-	44	5	0.03	-	210	24	0.03	-
	25	88	8	0.03	-	56	5	0.03	-	70	2	0.03	-
Monthly Average		83.3	33.5	0.03	-	78.8	3.0	0.03	-	78.8	6.5	0.03	-
June	1	17	0	0.030	-	166	0	0.030	-	119	0	0.030	-
	8	722	4	0.010	-	1553	2	0.015	-	1553	1	0.009	-
	15	980	1	0.003	0.1	4430	58	0.003	0.1	2880	19	0.003	0.1
	22	1460	12	0.012	0.1	2420	64	0.007	0.1	1320	34	0.010	0.1
	29	3790	2	0.012	0.1	2130	0	0.011	0.1	2920	0	0.012	0.1
Monthly Average		1393.8	3.8	0.013	0.1	2139.8	24.8	0.013	0.10	1758.4	10.8	0.013	0.1
July	6	2420	5	0.013	0.10	630	5	0.007	0.10	2420	5	0.005	0.1
	13	2430	6	0.005	0.3	1850	4	0.006	0.10	2430	5	0.004	0.4
	21	4410	6	0.007	0.2	3230	11	0.004	0.20	3550	8	0.010	0.7
	27	1120	3	0.003	0.6	1553	3	0.005	0.20	613	2	0.003	0.4
Monthly Average		2595.0	5.0	0.007	0.3	1815.8	5.8	0.006	0.15	2253.3	5.0	0.006	0.4
August	4	613	8	0.010	0.4	1553	12	0.018	0.70	1733	5	0.012	0.2
	10	816	9	0.003	0.5	816	4	0.003	0.60	1120	4	0.003	0.4
	17	1300	18	0.010	0.5	1850	25	0.022	0.20	2980	7	0.010	0.4
	28	1610	7	0.007	0.3	816	12	0.008	0.20	980	3	0.006	0.4
Monthly Average		1084.8	10.5	0.008	0.4	1258.8	13.3	0.013	0.43	1703.3	4.8	0.008	0.4
September	1	1203	8	0.011	0.4	1986	9	0.009	0.10	1733	6	0.008	0.2
	8	649	1	0.010	0.4	770	2	0.010	0.70	1203	2	0.005	0.80
	14	517	14	0.010	0.4	548	20	0.010	0.40	866	12	0.010	0.30
	22	649	31	0.026	0.2	31	23	0.013	1.90	488	25	0.013	0.20

ALLOWABLE RECREATIONAL LIMIT IS 10 ug/L

QUALITATIVE GOALS

Diminish toxic blue green algae blooms: Reports of blue-green algae blooms for the 2026 season were greatly diminished. Some blooms in July could be associated with a rainfall event and subsequent drainage to the lake. More significant blooms were reported over Labour Day weekend. These could be associated with strong southwest winds and the natural lake destratification; however, this is purely speculative.

The successful reduction in toxic blue-green algae blooms can be correlated with the installation of the HAC. True success will be achieved if this trend continues in future years.

Improve the trout fishery: Fishermen report that trout are gathering at the 30-foot level due to improved aeration of the cold water.

2026 OPERATIONS

The system operated with no downtime for the season. A 500-hour oil change was completed in July, with a season-end change scheduled the week of 2026-09-26

FINANCIAL RESULTS

HAC Cost: The column was installed at a cost of approximately \$400,000, \$50,000 below the budgeted cost.

Annual Operating Costs: Annual operating costs (in 2026 dollars) are estimated at approximately \$20,000. This is approximately \$80.00 per year for the 250 cottage owners that have contributed to the project.

Friends Financial Position: Friends has approximately \$80,000 in the bank due to lower HAC installation costs and successful fundraising. It is expected that the column can be operated for three years with no additional solicitation of funds.

If you have any questions, please contact us at
helplakeeugenia.com.

THANK YOU FOR YOUR CONTINUED SUPPORT!

Morgan Anderon and Doug Hill

FRIENDS OF LAKE EUGENIA

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