

NELHA Water Quality Laboratory

Anchialine Pond A1

8/31/1993 - 6/30/2025

Site ID	Date (M/D/Y)	Time (2400)	Tide (ft) (cycle)	PO ₄ ³⁻ (µM) (µg P/L)	NO ₃ ⁻ & NO ₂ ⁻ (µM) (µg N/L)	NH ₄ ⁺ & NH ₃ (µM) (µg N/L)	Si (µM) (µg Si/L)	TDP (µM) (µg P/L)	TP (µM) (µg N/L)	TDN (µM) (µg N/L)	TOC (mgC/L)	Turbidity (NTU)	Salinity (PSU)	Chloride (mg/L)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)	ORP (mV)
A1	8/31/93	1017	0.4 Low	1.7 53	28.5 399	9.6 134.0	717 20,137	2.8 86.4	2.9 90	63 887.7	1.84	0.77	12.74	7051	23.9	7.41	2.11	1.93	
A1	10/26/93	1013	0.8 Flood	3.2 98	107.9 1,511	1.9 27.2	666 18,705	3.5 107.5	3.4 105	132 1,842.9	2.93	0.31	10.29	5698	22.7	7.55	6.13	0.11	
A1	2/8/94	919	0.2 Low	1.9 57	24.1 338	4.3 59.7	533 14,970	2.0 61.0	2.1 64	47 652.6	2.04	0.28	15.70	8688	22.0	8.07	10.94	1.07	
A1	6/27/94	844	0.8 High	2.6 80	52.6 737	2.2 30.8	666 18,705	2.6 79.9	2.6 81	62 874.0	0.71	0.42	11.42	6323	23.2	7.65	7.53	0.63	
A1	7/26/94	1017	0.7 Ebb	2.3 72	52.7 738	1.1 15.0	569 15,982	2.5 78.4	2.6 80	61 856.2	0.71	0.21	12.51	6926	23.9	7.68	7.35	0.34	
A1	10/17/94	1101	0.7 Ebb	2.6 79	50.4 706	2.0 27.7	634 17,817	2.7 82.1	2.8 86	57 796.5	0.74	0.34	10.95	6063	23.0	7.51	6.85	0.89	
A1	3/29/95	1019	0.0 Low	2.7 83	51.1 716	2.1 29.7	618 17,354	2.7 84.9	2.9 90	55 766.4	0.87	2.70	11.49	6361	22.5	7.46	5.58	21.8	
A1	4/26/95	1155	0.7 Flood	2.5 77	83.9 1,175	2.0 28.3	619 17,371	2.7 83.0	2.8 87	95 1,337.0	2.05	0.74	10.46	5790	26.6	7.92	10.25	1.39	
A1	8/23/95	1129	1.1 Flood	2.4 75	47.1 660	2.2 31.4	629 17,655	2.7 83.6	2.7 84	54 762.9	0.84	0.56	11.37	6292	25.4	7.82	10.17	1.36	
A1	10/17/95	1128	1.7 High	2.7 83	60.9 853	2.5 35.3	645 18,126	2.7 84.2	2.8 85	58 809.0	1.08	0.59	10.13	5609	24.2	7.90	6.23	2.06	
A1	2/27/96	1144	0.8 High	3.4 106	82.9 1,161	3.4 47.9	610 17,121	3.4 105.9	3.5 107	79 1,102.5	1.35	0.69	10.68	5910	24.3	7.65	6.80	1.89	
A1	5/8/96	1040	0.4 Ebb	3.3 102	52.8 740	11.8 165.1	575 16,160	3.6 110.9	4.3 132	71 998.1	1.67	1.94	11.02	6097	26.8	7.73	9.30	8.57	
A1	7/17/96	1212	0.5 Flood	2.8 86	30.3 424	1.0 14.4	582 16,342	3.3 102.5	3.5 108	49 693.0	2.15	1.62	12.41	6866	31.6	8.17	13.72	2.71	
A1	10/9/96	1111	1.2 Flood	2.8 86	33.3 467	1.2 16.2	619 17,391	3.4 106.2	3.9 122	53 736.6	1.62	1.96	11.09	6140	26.5	8.19	13.26	9.97	
A1	1/15/97	1030	1.2 Ebb	2.6 80	80.7 1,130	1.6 22.4	578 16,233	2.6 80.5	2.7 83	90 1,266.5	1.02	0.35	10.42	5766	24.2	8.22	11.77	1.41	
A1	4/30/97	854	0.4 Flood	5.6 172	100.7 1,410	4.5 63.3	502 14,098	5.7 177.8	5.8 178	104 1,459.4	1.25	0.90	10.44	5777	23.0	7.57	5.78	0.57	
A1	7/14/97	1022	1.2 Flood	2.9 88	89.7 1,256	2.0 27.7	590 16,570	3.2 99.4	3.2 100	95 1,327.7	0.52	1.30	10.26	5680	25.4	7.91	9.02	0.44	
A1	10/13/97	1238	1.7 Flood	2.9 89	94.0 1,317	2.5 35.3	594 16,694	3.0 94.2	3.1 96	98 1,374.5	1.23	0.38	10.64	5888	26.0	7.97	8.54	0.49	
A1	3/11/98	1246	0.8 Flood	3.0 94	72.3 1,013	2.6 36.8	597 16,775	3.2 99.7	3.4 104	79 1,102.2	0.77	0.40	11.81	6534	25.4	7.63	7.36	0.63	
A1	6/3/98	1120	1.0 Flood	2.8 86	58.3 817	3.3 46.2	607 17,042	2.9 90.4	3.0 92	67 944.1	0.86	0.32	11.26	6231	24.8	7.94	10.55	1.70	
A1	7/15/98	926	1.2 High	3.0 93	58.8 824	2.1 29.7	594 16,682	3.1 97.3	3.2 99	65 909.4	0.80	0.56	13.03	7210	23.6	7.87	9.54	0.79	
A1	10/14/98	1006	1.7 Flood	3.3 103	62.0 868	0.1 0.7	611 17,160	3.7 114.3	3.8 119	75 1,044.4	0.91	0.50	12.43	6881	23.7	7.57	6.18	1.03	
A1	3/3/99	925	0.4 Ebb	2.8 86	34.7 486	7.8 109.3	510 14,324	3.1 95.1	3.1 97	52 732.9	1.21	0.55	15.75	8720	22.9	7.76	7.77	0.74	
A1	4/14/99	1138	0.5 Flood	2.8 86	49.9 699	0.8 11.2	585 16,430	2.8 86.4	2.8 88	52 729.2	0.84	0.21	13.16	7286	23.1	7.87	9.43	1.32	
A1	8/24/99	1004	0.7 Flood	2.6 79	42.2 591	19.0 265.4	732 20,556	2.8 86.7	3.0 94	59 829.4	0.96	1.36	12.18	6744	23.2	7.37	3.00	2.00	
A1	10/12/99	945	1.0 Ebb	2.7 83	51.6 723	3.0 41.6	565 15,868	2.9 90.1	2.9 91	58 806.0	0.80	0.20	13.27	7348	23.0	7.78	7.18	0.27	
A1	3/1/00	948	0.4 Flood	3.6 112	20.1 282	6.2 86.3	615 17,267	4.4 137.2	4.4 135	37 512.8	2.00	0.56	13.14	7275	23.0	7.44	3.70	0.21	
A1	4/24/00	1020	0.3 Ebb	3.3 103	23.4 328	8.4 118.1	584 16,413	3.5 108.7	3.8 116	41 570.0	1.47	0.96	13.24	7329	26.4	8.06	14.59	0.88	
A1	9/6/00	953	1.7 Flood	2.7 83	57.4 804	1.5 20.7	610 17,124	3.0 92.0	3.0 93	60 840.0	0.87	0.20	12.46	6895	24.0	7.77	7.82	0.37	
A1	12/20/00	924	0.8 Flood	3.0 93	61.9 867	2.6 36.6	622 17,466	3.2 99.1	3.2 98	66 929.4	1.13	0.20	11.21	6203	22.0	7.59	6.05	0.23	
A1	2/27/01	935	0.7 Ebb	2.7 84	60.6 849	1.6 23.0	588 16,526	2.8 88.0	2.8 87	64 897.2	0.90	0.18	12.65	6999	22.1	7.58	5.52	0.13	
A1	5/14/01	1107	0.5 High	3.7 114	37.8 529	3.0 41.7	599 16,823	3.9 119.2	3.9 119	46 641.9	1.35	0.61	12.16	6729	27.2	8.03	13.35	2.58	
A1	9/11/01	1025	2.1 High	2.6 81	63.5 889	0.7 9.4	596 16,731	2.8 86.7	2.9 90	72 1,013.2	0.92	0.24	12.42	6875	23.9	7.73	6.21	0.27	
A1	10/31/01	930	0.4 Low	3.2 99	43.2 605	5.4 76.2	565 15,857	3.5 109.6	3.7 115	54 762.5	1.59	0.34	13.86	7672	23.1	7.62	4.93	0.87	
A1	1/15/02	935	0.9 Ebb	2.6 81	62.5 875	1.9 27.2	538 15,096	2.8 86.1	2.8 85	68 954.7	1.62	0.22	14.28	7907	22.0	7.65	5.41	0.37	
A1	5/28/02	1355	0.8 Flood	2.8 88	57.5 805	3.7 52.4	604 16,964	3.1 97.3	3.1 97	63 889.1	1.26	0.85	12.26	6785	25.3	7.76	8.62	1.15	
A1	9/17/02	1040	1.3 Flood	2.7 84	64.4 903	2.2 30.1	626 17,567	3.0 93.2	3.0 94	64 892.3	1.10	0.52	11.29	6251	23.8	7.77	8.71	0.52	
A1	12/16/02	1040	0.6 Flood	2.9 90	47.8 670	0.1 1.0	582 16,349	3.0 93.5	3.1 95	57 793.1	0.97	0.28	13.27	7347	23.3	7.68	7.73	0.35	
A1	1/30/03	1350	0.5 Flood	2.7 84	72.5 1,015	6.4 89.5	571 16,042	3.0 93.5	3.0 94	99 1,381.1	1.57	0.54	13.96	7727	25.6	7.74	6.66	1.83	
A1	5/28/03	1105	0.6 Flood	3.2 100	60.7 850	1.9 26.1	598 16,784	3.5 107.8	3.5 108	76 1,061.7		0.22	11.66	6451	24.2	7.59	6.82	0.68	
A1	6/4/03																		
A1	9/18/03	949	1.7 Flood	2.8 87	65.9 923	1.3 17.6	611 17,157	3.2 98.2	3.2 98	71 999.5	2.15	0.17	11.91	6590	23.7	7.73	7.26	1.51	
A1	11/6/03	1008	0.6 Flood	3.7 113	46.2 647	4.9 69.2	619 17,379	3.9 121.7	4.1 126	59 832.3	1.59	0.22	12.23	6771	22.9	7.55		0.58	

NELHA Water Quality Laboratory

Anchialine Pond A1

8/31/1993 - 6/30/2025

Site ID	Date (M/D/Y)	Time (2400)	Tide (ft) (cycle)	PO ₄ ³⁻ (μM) (μg P/L)	NO ₃ ⁻ & NO ₂ ⁻ (μM) (μg N/L)	NH ₄ ⁺ & NH ₃ (μM) (μg N/L)	Si (μM) (μg Si/L)	TDP (μM) (μg P/L)	TP (μM) (μg N/L)	TDN (μM) (μg N/L)	TOC (mgC/L)	Turbidity (NTU)	Salinity (PSU)	Chloride (mg/L)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)	ORP (mV)
A1	11/14/03	1026	1.6 Ebb												23.9		6.10		
A1	1/29/04	945	0.9 Ebb	3.0 93	80.7 1,131	3.3 46.6	591 16,584	3.2 97.9	3.2 98	84 1,180.8	1.38	0.21	11.52	6376	22.0	7.66	5.69	0.53	
A1	6/1/04	1021	0.2 Flood	3.3 103	74.5 1,043	2.0 28.6	595 16,697	3.6 110.3	3.9 120	83 1,158.1	1.92	0.50	11.20	6199	24.0	7.66	6.45	0.17	
A1	9/29/04	849	0.7 Ebb	2.9 90	57.4 803	1.7 23.4	563 15,804	3.2 99.7	3.3 103	60 833.4	0.95	0.21	12.95	7168	23.2	7.76	7.68	0.73	
A1	12/2/04	850	1.9 Ebb	3.2 99	101.4 1,420	1.0 14.6	593 16,643	3.3 103.5	3.3 103	135 1,888.1	0.83	0.20	11.91	6592	22.4	7.86	6.23	0.10	

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Anchialine Pond A1

8/31/1993 - 6/30/2025

Site ID	Date (M/D/Y)	Time (2400)	Tide (ft) (cycle)	PO ₄ ³⁻ (µM) (µg P/L)	NO ₃ ⁻ & NO ₂ ⁻ (µM) (µg N/L)	NH ₄ ⁺ & NH ₃ (µM) (µg N/L)	Si (µM) (µg Si/L)	TDP (µM) (µg P/L)	TP (µM) (µg N/L)	TDN (µM) (µg N/L)	TOC (mgC/L)	Turbidity (NTU)	Salinity (PSU)	Chloride (mg/L)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)	ORP (mV)
A1	1/19/05	900	0.5 Low	3.5 107	106.5 1,492	2.4 33.1	585 16,424	3.7 113.4	3.6 112	118 1,647.2	1.34	0.18	12.63	6993	23.0	7.69	5.54	0.26	
A1	5/31/05	854	0.5 Flood	3.4 107	69.6 975	2.8 39.1	602 16,902	3.6 111.5	3.7 115	75 1,045.7	1.22	0.25	11.18	6187	22.0	7.73	6.70	0.45	
A1	8/2/05	1029	0.7 Flood	4.7 144	1.7 24	69.1 968.0	430 12,071	5.6 174.1	5.8 180	88 1,237.8	4.66	1.27	10.86	6010	23.9	8.60	3.86	4.39	
A1	8/8/05	854													23.5				
A1	11/1/05	817	0.8 Ebb	6.8 209	56.2 787	4.7 65.3	538 15,116	7.2 222.4	7.3 227	67 943.8	1.49	0.34	12.72	7042	22.9	7.87	3.17	0.93	
A1	1/30/06	832	1.0 Ebb	4.5 139	64.5 903	1.0 13.7	479 13,453	4.7 145.0	4.7 147	72 1,014.4	1.13	0.37	15.82	8756	22.2	7.84	4.65	0.08	
A1	5/25/06	1107	0.5 Flood	4.3 134	70.3 985	3.6 51.0	591 16,599	4.6 143.1	4.7 146	68 949.5	0.81	1.09	11.84	6555	22.5	7.70	3.97	1.51	
A1	7/27/06	949	0.3 Ebb	4.1 126	36.8 515	3.3 46.2	567 15,924	4.4 136.0	4.4 136	41 572.3	1.32	0.38	13.39	7414	23.0	7.82	5.58	0.42	
A1	10/31/06	1015	1.7 Flood	6.5 201	97.3 1,363	0.5 7.6	531 14,913	6.8 209.1	7.0 218	103 1,444.7	0.94	0.25	11.86	6567	23.2	7.86	3.59	0.30	
A1	1/17/07	957	0.2 Low	5.2 162	81.3 1,139	4.5 63.6	515 14,464	5.6 172.8	5.6 173	84 1,169.6	1.45	0.41	13.84	7662	21.8	7.74	4.12	0.57	
A1	6/26/07	1004	0.8 Flood	4.1 126	78.2 1,096	1.1 14.8	364 10,236	4.9 151.9		86 1,209.6		0.20	12.46	6897	23.1	7.62	7.81	0.15	
A1	9/24/07	1403	2.0 Flood	4.2 131	84.8 1,188	1.5 21.1	657 18,466	4.1 126.8		90 1,261.4		0.11	16.27	9006	24.6	8.25	6.91	0.15	
A1	12/11/07	1038	0.8 Ebb	39.2 1,215	611.4 8,563	73.9 1,034.6	361 10,151	42.1 #####		942 13,199.4		2.27	8.57	4744	22.8	9.25	2.46	7.56	
A1	1/29/08	1049	0.6 Ebb	6.4 197	48.2 676	3.0 42.2	329 9,246	7.3 227.4		63 889.4		n/a	11.52	6377	20.4	8.01	8.30	3.26	
A1	2/28/08	1005	0.4 Ebb	3.1 98	42.5 596	3.0 41.6	298 8,377	4.9 152.3		80 1,119.8		3.81	11.31	6260	21.6	8.08	4.76	4.69	
A1	2/28/08	2312	1.6 High	5.7 177	102.5 1,436	1.4 19.6	559 15,711	5.2 161.1		104 1,451.3		0.31	10.83	5995	21.7	7.97	4.21	0.85	
A1	4/2/08	1010	0.2 Flood	4.3 133	58.0 812	2.3 32.3	577 16,201	2.6 79.7		125 1,752.0		0.98	11.93	6604	22.0	6.75	3.91	1.61	
A1	4/16/08	1340	1.3 Flood	4.1 127	73.8 1,033	0.2 2.5	565 15,867	3.5 109.6		80 1,117.5		0.33	12.95	7168	22.5	7.75	5.86	1.97	
A1	5/23/08	1012	No Water																
A1	6/12/08	1009	0.9 Flood	2.8 87	83.4 1,168	0.7 10.2	762 21,400	2.8 86.0		87 1,223.7			11.07	6128	22.5	7.41	6.22	0.67	
A1	7/18/08	1002	-0.1 Low	3.0 93	68.6 961	2.8 39.8	606 17,024	3.6 112.2		97 1,356.6			11.67	6460	22.1	7.36	2.15		
A1	8/13/08	1039	0.8 Flood	2.9 90	64.4 902	1.8 25.8	531 14,903					0.80	11.46	6343	23.0	7.48	6.06	2.48	
A1	9/4/08	1119	1.1 Ebb	2.4 76	61.1 856	1.7 23.6	499 14,013	3.2 99.3		91 1,277.3		2.59	12.89	7135	23.7	7.69	4.56	3.69	
A1	10/20/08	955	2.2 High	4.3 132	124.6 1,746	0.3 3.9	496 13,934					0.21	13.36	7395	22.7	7.58		10.71	
A1	11/6/08	1022	1.8 High	4.5 139	120.7 1,690	1.8 25.0	523 14,696	4.8 148.9		132 1,852.1		0.74	11.38	6299	22.4	7.86	4.16	1.13	
A1	1/2/09	1032	1.0 Ebb	3.9 120	119.2 1,669	2.9 40.2	524 14,718	4.4 135.4		108 1,518.2		0.21	12.91	7146	22.9	7.94	6.85	2.38	
A1	1/12/09	1013	0.6 Ebb	4.3 134	158.8 2,224	2.5 34.8	566 15,896	0.6 18.4		160 2,244.6		2.17	12.59	6969	21.7	7.80	4.07	1.99	
A1	2/20/09	921	0.3 Low	3.9 122	79.9 1,120	5.5 76.4	539 15,127	2.9 90.2		95 1,329.5		2.95	12.29	6803	21.4	7.35	2.64	1.28	
A1	3/30/09	1428	0.3 Flood	2.8 86	92.4 1,294	0.4 5.9	424 11,910	4.0 123.4		102 1,424.3		0.49	11.70	6476	22.7	7.78	6.13	0.48	
A1	4/27/09	1504	1.0 Flood	3.4 107	95.7 1,340	1.0 13.5	539 15,127	4.3 134.1		92 1,295.3		0.54	13.58	7517	23.0	7.87	5.96	0.05	
A1	5/14/09	1401	0.6 Flood	3.8 117	70.6 989	4.1 58.1	538 15,120	4.0 124.5		71 997.4		2.19	12.02	6653	27.8	8.30	9.03	1.10	
A1	6/10/09	808	0.3 Ebb	2.6 81	31.5 441	6.2 86.8	471 13,238	2.8 86.6		51 718.5		3.30	13.28	7351	23.3	7.50	7.48	0.31	
A1	7/10/09	749	0.6 Ebb	1.2 39	21.6 303	3.8 53.9	266 7,477	2.3 70.9		31 431.3		3.93	12.69	7024	22.6	7.41	8.84	0.64	
A1	8/27/09	923	1.7 Flood	2.3 73	52.4 734	0.9 13.3	282 7,913	3.0 93.0		52 731.3		0.10	12.94	7163	22.9	7.88	5.20	0.29	
A1	9/17/09	1102	1.0 Flood	3.7 113	95.5 1,338	1.3 17.9	370 10,393	3.4 106.5		101 1,415.3		0.46	11.94	6609	22.8	7.35	5.25	1.05	
A1	10/22/09	840	2.0 Ebb	2.9 89	55.3 775	0.7 10.2	106 2,975	2.7 83.2		58 807.3		5.10	13.25	7334	22.8	7.76	5.37	1.04	
A1	11/19/09	829	1.7 Ebb	4.0 125	92.2 1,292	1.7 24.0	406 11,407	3.8 118.0		97 1,362.0		0.96	14.20	7860	22.3	7.54	5.25	0.72	
A1	12/7/09	842	2.0 High	4.0 123	104.0 1,456	0.9 12.0	435 12,210	3.8 118.0		107 1,502.0		0.14	13.13	7268	22.1	7.95	6.31	0.60	
A1	1/4/10	1451	0.0 Low	4.7 147	107.9 1,512	0.8 11.9	525 14,745	4.3 134.4		114 1,590.3		0.24	14.27	7899	22.8	8.20	8.21	0.15	
A1	2/2/10	1407	-0.2 Low	4.4 136	129.5 1,814	1.5 21.4	469 13,172	4.7 146.6		131 1,827.9		0.27	15.83	8762	22.3	8.29	5.53	0.28	
A1	3/10/10	1325	0.7 High	4.1 126	100.3 1,405	0.6 8.5	375 10,534	4.0 123.6		104 1,460.5		0.26	12.41	6869	22.6	8.11	8.10	0.48	
A1	4/5/10	1010	0.4 High	4.5 139	99.4 1,393	0.9 13.3	598 16,807	4.2 129.4		102 1,423.3		0.13	12.42	6875	23.1	8.24	7.10	0.11	
A1	5/12/10	1309	1.5 Flood	4.1 128	95.7 1,340	0.4 5.1	578 16,222	3.7 116.0		93 1,306.5		0.24	14.22	7871	26.5	8.44	7.40	0.04	

NELHA Water Quality Laboratory

Anchialine Pond A1

8/31/1993 - 6/30/2025

Site ID	Date (M/D/Y)	Time (2400)	Tide (ft) (cycle)	PO ₄ ³⁻ (μM) (μg P/L)	NO ₃ ⁻ & NO ₂ ⁻ (μM) (μg N/L)	NH ₄ ⁺ & NH ₃ (μM) (μg N/L)	Si (μM) (μg Si/L)	TDP (μM) (μg P/L)	TP (μM) (μg N/L)	TDN (μM) (μg N/L)	TOC (mgC/L)	Turbidity (NTU)	Salinity (PSU)	Chloride (mg/L)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)	ORP (mV)
A1	6/21/10	1032	1.3 Flood	3.7 114	97.4 1,365	1.5 21.4	605 16,988	4.0 123.0		104 1,458.6		0.18	12.36	6842	24.9	8.23	7.50	0.23	
A1	7/12/10	1023	-0.1 Low	4.0 124	111.6 1,563	0.9 12.5	575 16,147	3.9 121.7		117 1,636.1		0.31	15.57	8618	24.2	8.01	5.93	0.22	
A1	8/2/10	1231	1.3 Ebb	3.8 117	105.7 1,481	2.0 27.4	605 16,985	3.7 116.0		113 1,578.6		0.54	12.78	7074	26.5	8.17	7.50	0.21	
A1	9/2/10	1158	1.9 Flood	3.7 116	108.0 1,512	1.7 23.2	574 16,126	3.6 111.4		114 1,597.7		0.25	12.69	7024	27.0	8.30	7.28	0.12	
A1	10/19/10	1132	1.2 Flood	3.8 118	119.9 1,679	1.1 15.4	593 16,661	3.8 118.5		121 1,692.8		0.27	12.56	6952	25.3	8.31	7.01	0.10	

NELHA Water Quality Laboratory

Anchialine Pond A1

8/31/1993 - 6/30/2025

Site ID	Date (M/D/Y)	Time (2400)	Tide (ft) (cycle)	PO ₄ ³⁻ (µM) (µg P/L)	NO ₃ ⁻ & NO ₂ ⁻ (µM) (µg N/L)	NH ₄ ⁺ & NH ₃ (µM) (µg N/L)	Si (µM) (µg Si/L)	TDP (µM) (µg P/L)	TP (µM) (µg N/L)	TDN (µM) (µg N/L)	TOC (mgC/L)	Turbidity (NTU)	Salinity (PSU)	Chloride (mg/L)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)	ORP (mV)
A1	11/3/10	1011	0.7 Flood	4.0 123	118.0 1,653	1.2 17.5	555 15,577	4.0 124.2		127 1,778.2		0.39	13.66	7561	24.1	8.36	6.97	0.34	
A1	12/6/10	953	0.3 Ebb	4.1 126	100.9 1,413	1.2 17.5	563 15,806	3.8 118.5		107 1,503.0		0.18	15.79	8740	22.3	8.01	5.48	0.17	
A1	1/26/11	1028	0.8 Ebb	5.1 157	137.3 1,923	1.5 20.8	551 15,462	4.8 148.7		140 1,954.9		0.14	12.33	6825	22.4	8.15	6.11	0.25	
A1	4/13/11	1030	0.4 Flood	3.7 116	104.0 1,457	1.0 13.7	612 17,177	3.7 115.2		106 1,487.7		0.43	12.43	6880	24.4	8.45	7.55	0.27	
A1	7/18/11	952	0.5 Ebb	4.2 129	94.7 1,327	0.7 9.7	584 16,413	4.5 140.8		99 1,386.7		0.11	13.85	7666	22.7	7.76	6.69	0.02	
A1	10/5/11	1003	1.6 Flood	3.6 112	89.7 1,256	1.0 14.6	585 16,429	3.7 114.6		92 1,288.5		0.09	12.31	6814	23.6	8.04	6.70	0.10	
A1	1/17/12	838	0.7 Flood	3.9 120	97.0 1,359	0.8 10.9	602 16,905	3.7 114.0		100 1,404.2		0.20	12.84	7107	22.4	7.95	6.88	0.10	
A1	4/19/12	1053	0.3 Flood	3.6 110	81.9 1,147	1.1 16.1	605 16,994	3.7 114.7		89 1,248.5		0.13	13.30	7362	23.6	8.20	7.51	0.10	
A1	7/9/12	1128	1.1 Ebb	4.0 123	97.1 1,360	0.7 10.2	575 16,152	3.8 118.5		99 1,392.4		0.05	13.71	7589	23.2	7.91	7.84	0.01	
A1	10/8/12	1055	1.8 High	3.9 122	94.9 1,329	1.0 14.0	600 16,841	4.0 123.0		100 1,401.9		0.18	11.99	6637	24.6	8.00	7.60	0.14	
A1	1/3/13	1051	1.0 Ebb	4.2 130	97.0 1,358	1.5 21.6	576 16,173	4.2 131.2		104 1,460.9		0.13	13.33	7379	22.4	8.07	6.05	0.06	
A1	4/1/13	1039	0.4 Ebb	3.8 118	85.4 1,196	1.0 14.3	557 15,649	3.8 117.1		89 1,240.9		0.27	12.28	6797	22.8	8.12	7.65	0.05	
A1	7/8/13	1004	-0.1 low	3.5 108	88.2 1,236	2.5 35.7	579 16,255	3.5 108.6		103 1,441.1		0.17	13.67	7567	23.7	8.25	9.05	0.03	
A1	10/10/13	1126	1.6 Ebb	3.5 108	77.8 1,090	1.0 14.7	559 15,695	3.2 98.7		74 1,034.8		0.12	13.20	7307	25.2	8.15	9.61	0.10	
A1	1/22/14	916	0.7 High	3.8 117	95.3 1,335	1.4 19.5	596 16,746	3.6 113.0		99 1,380.2		0.02	12.02	6653	22.0	8.01	6.23	0.62	
A1	4/9/14	1126	0.7 Flood	3.2 100	86.7 1,214	2.3 32.0	511 14,352	3.3 103.4		99 1,389.8		0.47	11.24	6222	24.5	8.59	9.92	0.90	
A1	7/16/14	1118	0.5 Ebb	3.4 104	80.6 1,129	0.9 13.3	504 14,160	3.3 102.2		83 1,158.4		0.53	13.72	7594	23.7	8.10	7.75	0.41	
A1	10/15/14	1134	1.5 Ebb	3.3 101	84.7 1,187	0.9 13.2	529 14,856	2.1 64.3		94 1,311.0		0.30	12.96	7174	25.3	8.04	6.85	0.12	
A1	2/3/15	826	0.5 Ebb	4.6 144	116.9 1,638	1.4 19.9	593 16,661	5.2 160.4		117 1,640.7		0.33	13.86	7672	22.5	8.06	5.68	0.18	
A1	5/5/15	1646	2.0 High	4.0 123	97.0 1,358	0.8 11.0	429 12,052	2.4 75.7		96 1,351.5		0.37	14.81	8198	23.9	8.25	8.26	0.19	
A1	7/10/15	1007	1.4 Flood	3.2 100	72.6 1,017	0.7 9.4	520 14,605	1.8 54.6		80 1,123.7		0.32	12.68	7019	23.6	8.10	8.19	0.23	
A1	11/5/15	1100	1.6 High	4.3 133	134.5 1,884	1.1 16.1	521 14,633	4.5 139.1		111 1,551.4		0.51	12.07	6681	23.9	8.44	10.72	0.20	
A1	1/19/16	900	-0.2 Low	4.8 148	114.8 1,608	0.8 11.2	511 14,363	4.5 139.4		108 1,516.5		0.26	12.04	6664	22.4	8.03	6.35	0.30	
A1	4/12/16	1039	0.4 Ebb	4.7 146	89.0 1,247	0.6 8.2	511 14,344	5.0 154.1		80 1,126.6		0.10	13.57	7511	23.9	8.22	8.61	0.12	
A1	7/14/16	1034	1.4 Flood	3.7 113	78.0 1,093	1.4 20.1	523 14,690	3.8 116.8		95 1,333.2		0.56	12.07	6681	24.3	8.42	10.10	0.36	
A1	10/20/16	924	1.5 Ebb	7.3 225	162.1 2,271	1.6 22.2	899 25,256	7.7 239.0		171 2,391.0		0.32	14.07	7788	23.5	8.05	4.63	0.24	
A1	2/23/17	1118	0.6 Flood	4.6 142	104.5 1,463	1.0 13.6	528 14,824	4.7 145.6		107 1,494.8		0.31	13.70	7583	24.6	8.09	13.16	0.31	
A1	4/10/17	1123	0.2 Flood	3.9 122	93.7 1,312	0.6 8.6	549 15,431	4.1 127.9		97 1,365.4		0.32	12.67	7013	26.3	8.21	7.45	0.44	
A1	7/13/17	945	0.4 Ebb	3.9 119	89.5 1,254	0.4 6.1	551 15,470	3.7 115.0		92 1,286.0		0.09	13.46	7450	23.7	7.99	6.45	0.02	
A1	10/12/17	932	2.0 High	4.2 129	104.3 1,461	1.0 14.5	558 15,670	4.0 125.2		107 1,505.1		0.17	16.12	8923	23.5	7.97	7.24	0.01	
A1	1/11/18	950	1.0 Flood	4.0 123	102.7 1,438	0.7 9.2	530 14,875	4.3 132.2		104 1,460.6		0.12	13.18	7295	22.5	8.16	6.21	0.02	
A1	4/24/18	955	0.7 Flood	4.5 139	119.6 1,676	0.9 13.1	541 15,195	4.6 142.4		122 1,714.9		0.21	12.52	6930	23.8	8.45	9.30	0.24	
A1	7/12/18	1133	0.5 Flood	5.4 166	112.6 1,578	1.0 13.4	450 12,646	5.7 178.0		124 1,732.0		0.13	14.44	7993	24.2	8.27	8.93	1.90	
A1	10/11/18	1100	0.4 Low	3.9 119	92.7 1,299	0.4 6.3	477 13,402	4.0 123.1		97 1,356.9		0.10	15.46	8558	23.9	8.00	5.90	0.10	
A1	1/15/19	1107	1.2 High	4.3 132	96.7 1,354	0.8 11.7	538 15,097	4.3 134.3		96 1,346.8		0.13	12.47	6902	22.9	8.15	7.69	0.15	
A1	4/25/19	1030	0.3 Ebb	4.7 145	117.6 1,648	0.1 1.7	557 15,632	4.4 136.5		110 1,547.3		0.09	14.23	7877	24.0	8.06	7.24	0.05	
A1	7/17/19	1107	0.1 Flood	4.6 142	95.1 1,332	0.4 5.6	518 14,553	4.2 130.6		96 1,350.4		0.14	15.90	8801	25.0	8.40	11.90	0.14	
A1	10/8/19	1409	1.9 High	4.4 136	130.9 1,833	1.1 15.3	562 15,782	4.1 126.6		138 1,928.4		0.34	16.19	8962	22.9	8.39	8.67	0.09	
A1	1/9/20	1115	0.5 Low	4.3 133	106.8 1,496	1.3 18.1	488 13,716	4.2 130.9		111 1,552.4		0.16	18.87	10445	23.8	7.99	8.82	0.04	
A1	5/21/20	1209	0.7 Flood	3.9 121	91.6 1,283	0.48 6.7	525 14,750	4.00 124.0		97.8 1,369.2		0.17	13.99	7744	23.9	8.06	8.87	0.08	
A1	7/14/20	1140	0.4 High	4.6 142	102.9 1,441	0.9 13.2	546 15,340	4.0 124.4		102 1,426.8		0.22	13.00	7196	24.8	8.11	10.95	0.13	
A1	10/14/20	1140	0.5 Flood	4.4 135	98.4 1,378	0.9 12.7	530 14,879	3.9 122.2		99 1,393.6		0.19	14.33	7932	23.8	7.94	7.10	0.17	
A1	1/14/21	1123	0.3 Low	4.6 143	89.4 1,252	0.5 7.2	452 12,707	3.7 114.4		95 1,329.2		0.14	17.19	9515	23.8	8.08	8.36	0.11	

NELHA Water Quality Laboratory

Anchialine Pond A1

8/31/1993 - 6/30/2025

Site ID	Date (M/D/Y)	Time (2400)	Tide (ft) (cycle)	PO ₄ ³⁻ (μM) (μg P/L)	NO ₃ ⁻ & NO ₂ ⁻ (μM) (μg N/L)	NH ₄ ⁺ & NH ₃ (μM) (μg N/L)	Si (μM) (μg Si/L)	TDP (μM) (μg P/L)	TP (μM) (μg N/L)	TDN (μM) (μg N/L)	TOC (mgC/L)	Turbidity (NTU)	Salinity (PSU)	Chloride (mg/L)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)	ORP (mV)
A1	4/13/21	1144	0.0 Flood	4.71 146	111.3 1,559	0.33 4.6	499 14,001	4.40 136.4		111.3 1,558.8		0.16	12.40	6864	24.2	8.26	9.91	0.09	
A1	7/1/21	1536	0.7 Low	4.6 144	117.7 1,649	0.6 8.3	564 15,838	4.6 143.8		112 1,573.2		0.18	12.09	6692	28.3	8.11	7.93	0.05	
A1	10/19/21	1437	1.8 High	4.5 139	101.5 1,422	1.3 17.6	529 14,864	3.8 119.2		97 1,360.4		0.20	13.60	7528	24.2	8.23	10.42	0.04	
A1	2/3/22	1043	0.3 Ebb	4.2 130	106.4 1,490	0.3 4.4	498 13,979	4.4 136.8		112 1,570.0		0.11	15.07	8342	23.5	8.20	9.87	0.09	
A1	4/12/22	1128	0.8 Flood	3.90 121	91.7 1,284	1.27 17.8	578 16,230	3.8 118.9		91.4 1,280.4		0.49	12.81	7091	26.3	8.31	11.60	0.37	

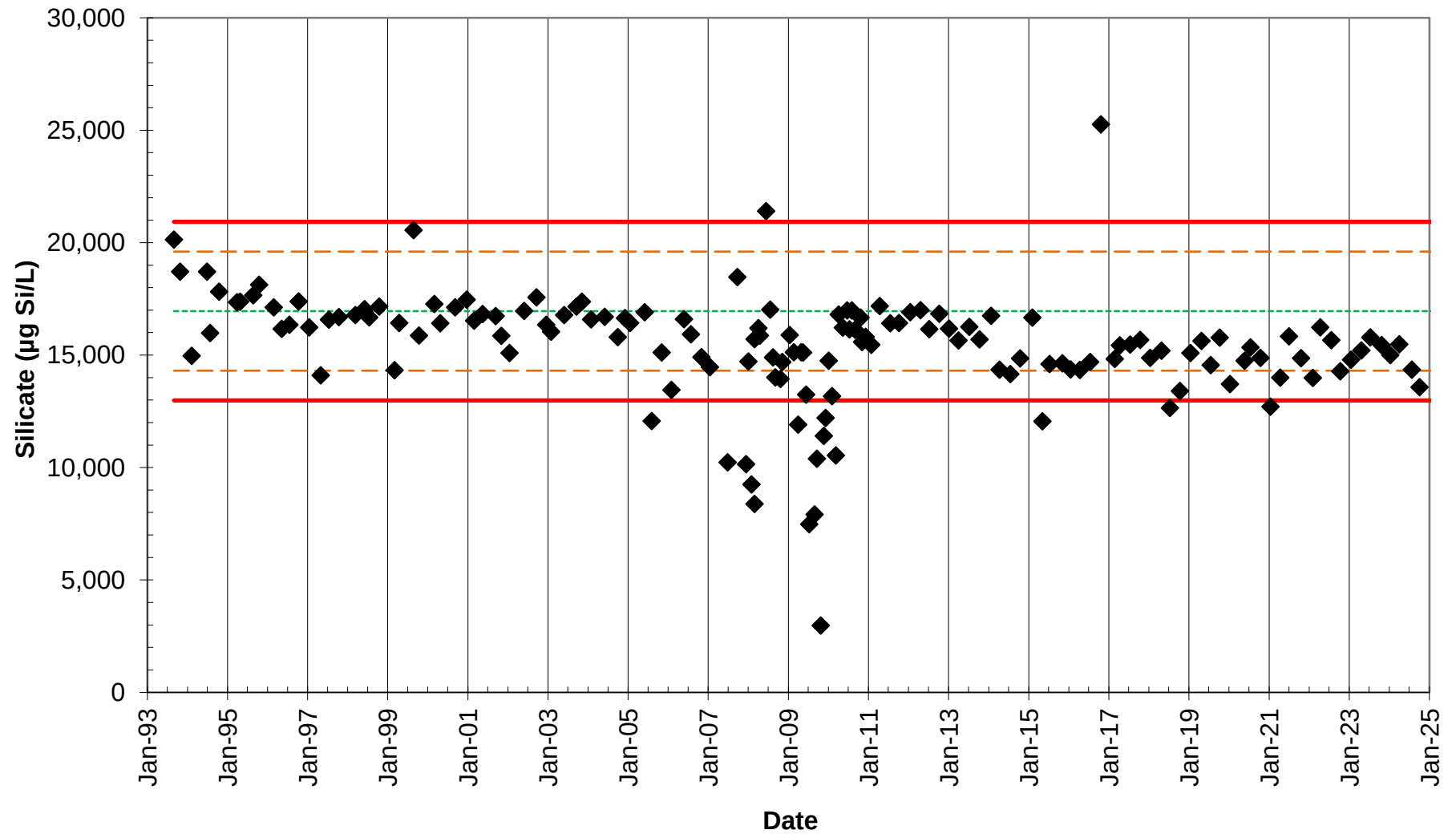
NELHA Water Quality Laboratory

Anchialine Pond A1

8/31/1993 - 6/30/2025

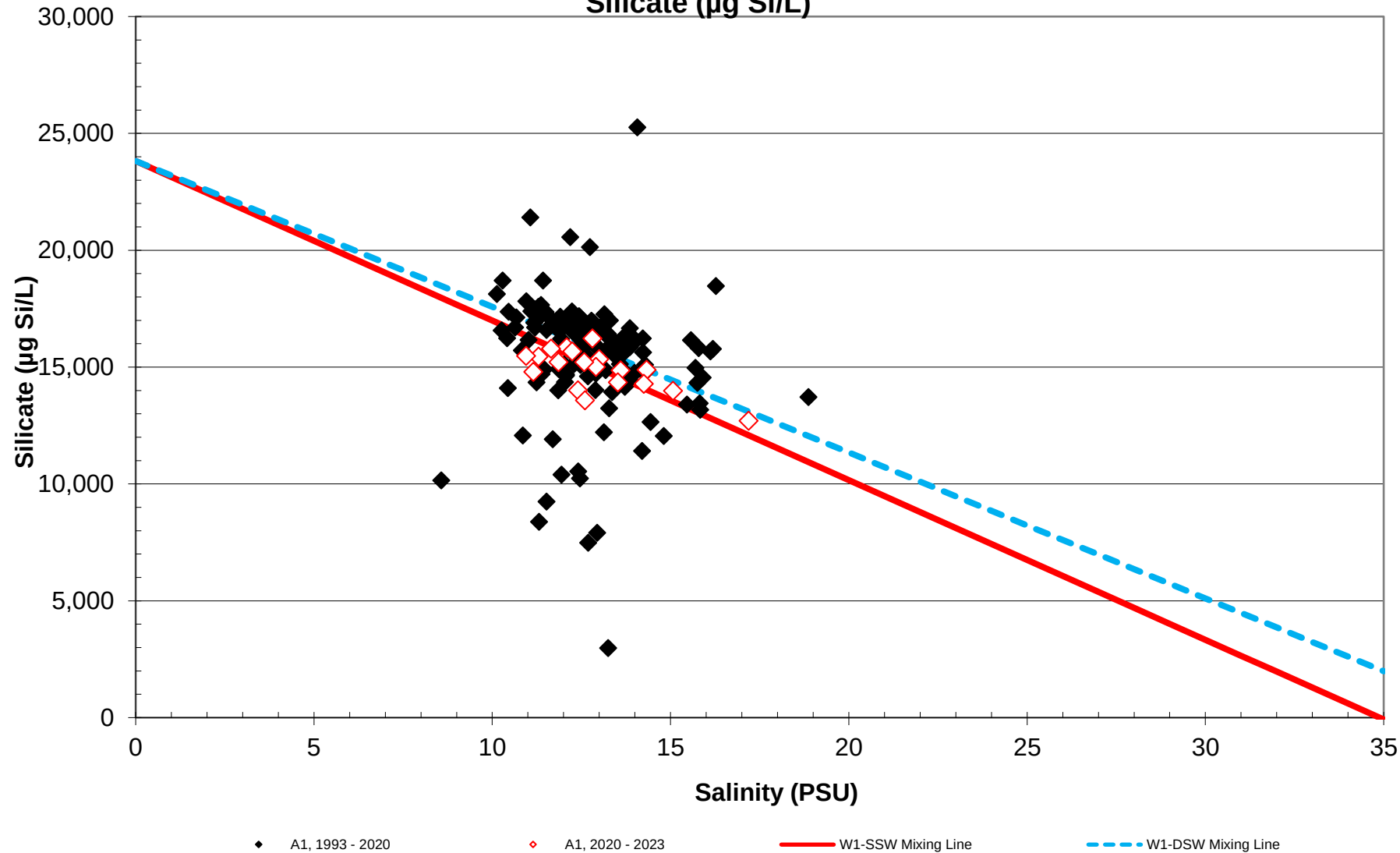
Site ID	Date (M/D/Y)	Time (2400)	Tide (ft) (cycle)	PO ₄ ³⁻ (μM) (μg P/L)	NO ₃ ⁻ & NO ₂ ⁻ (μM) (μg N/L)	NH ₄ ⁺ & NH ₃ (μM) (μg N/L)	Si (μM) (μg Si/L)	TDP (μM) (μg P/L)	TP (μM) (μg N/L)	TDN (μM) (μg N/L)	TOC (mgC/L)	Turbidity (NTU)	Salinity (PSU)	Chloride (mg/L)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)	ORP (mV)
A1	7/21/22	1142	1.5 High	3.1 96	98.4 1,378	1.1 16.1	558 15,666	3.6 110.6		100 1,400.8		0.26	12.24	6775	23.9	8.14	8.74	0.09	
A1	10/12/22	1037	0.2 Low	4.3 133	100.7 1,410	0.4 5.5	509 14,285	4.3 132.2		101 1,420.4		0.08	14.25	7888	23.8	8.08	8.35	0.04	
A1	1/17/23	1049	1.0 High	4.4 136	100.8 1,411	1.1 15.4	527 14,792	4.3 132.4		107 1,498.0		0.15	11.15	6172	23.4	8.20	8.76	0.12	
A1	4/21/23	1122	-0.1 Flood	3.11 96	87.6 1,226	0.63 8.8	541 15,207	3.1 96.6		91.6 1,283.2		0.20	11.86	6565	23.9	8.20	9.03	0.22	
A1	7/12/23	1625	1.4 Ebb	3.0 93	86.9 1,217	0.6 7.9	562 15,792	3.0 94.3		92 1,289.6		0.56	11.65	6449	29.4	8.20	9.50	0.16	
A1	10/24/23	1631	1.0 Ebb	2.9 88	76.8 1,076	1.0 14.3	550 15,444	2.9 89.2		84 1,171.2		0.58	11.30	6255	28.1	8.23	9.28	0.18	
A1	1/11/24	1517	1.0 High	3.4 104	104.6 1,466	0.8 10.9	534 15,006	3.7 114.0		105 1,468.4		0.33	12.91	7146	23.8	8.41	11.92	0.16	122.5
A1	4/2/24	1557	0.1 Low	3.1 96	97.1 1,360	0.76 10.7	551 15,477	3.44 106.4		95.1 1,331.6		0.27	10.95	6061	23.4	8.11	8.83	0.10	147.1
A1	7/24/24	1054	0.1 Low	4.2 130	112.9 1,582	1.1 15.7	511 14,345	3.9 122.0		112 1,574.0		0.15	13.52	7484	24.2	8.11	8.72	0.08	179.9
A1	10/4/24	1042	0.5 Low	6.1 189	119.0 1,667	0.8 11.3	483 13,573	5.7 178.0		121 1,700.0		0.36	12.60	6974	24.2	8.33	9.62	0.12	191.0
A1	1/7/25	1034	1.4 High	4.2 129	116.1 1,626	0.9 12.2	542 15,212	4.0 122.4		117 1,638.0		0.35	12.58	6963	23.8	8.02	6.99	0.14	149.2
A1	4/1/25	1117	-0.3 Low	3.95 122	111.1 1,556	0.79 11.1	499 14,005	4.02 124.5		109.4 1,532.0		0.90	11.85	6559	24.3	8.34	9.50	0.36	195.5
Mean			0.8	3.9 122.0	86.4 1,209.8	2.9 40.9	547.5 15,378.0	4.0 124.7	3.6 110.7	95.6 1,339.1	1.3	0.6	12.8	7,065.7	23.8	8.0	7.4	1.0	164.2
Std. Dev.			0.6	3.0 93.9	51.5 722.0	8.3 115.8	88.4 2,482.9	3.3 101.8	1.1 32.5	74.0 1,035.8	0.7	0.8	1.5	840.5	1.6	0.3	2.3	2.3	29.0
Maximum			2.2	39.2 1,214.5	611.4 8,563.4	73.9 1,034.6	899.2 25,255.6	42.1 1,304.6	7.3 226.7	942.4 13,199.4	4.7	5.1	18.9	10,445.0	31.6	9.3	14.6	21.8	195.5
Minimum			-0.3	1.2 38.7	1.7 23.5	0.1 0.7	105.9 2,974.6	0.6 18.4	2.1 64.1	30.8 431.3	0.5	0.0	8.6	4,743.7	20.4	6.8	2.1	0.0	122.5
n			153	152 152	152 152	152 152	152 152	150 150	55 55	150 150	54	149	152	152	154	152	151	151	6

Anchialine Pond A1 Silicate ($\mu\text{g Si/L}$)

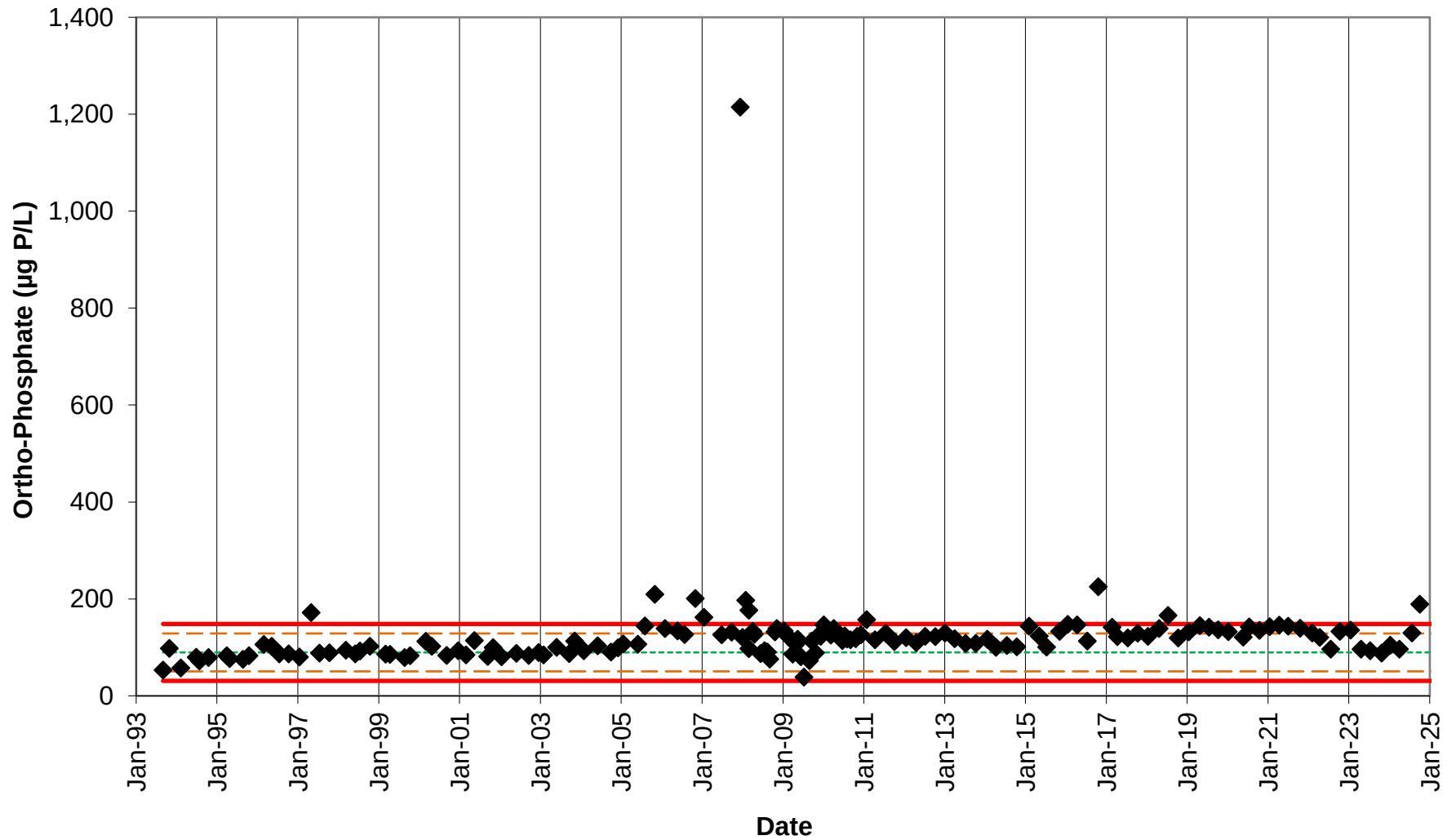


◆ A1 (n=152, Control Chart 1993 - 2001) — +3s (20927 $\mu\text{g Si/L}$) - - +2s (19603 $\mu\text{g Si/L}$) - - - Mean (16955 $\mu\text{g Si/L}$) - - -2s (14307 $\mu\text{g Si/L}$) — -3s (12983 $\mu\text{g Si/L}$)

Anchialine Pond A1
Conservative Mixing Model
Silicate ($\mu\text{g Si/L}$)

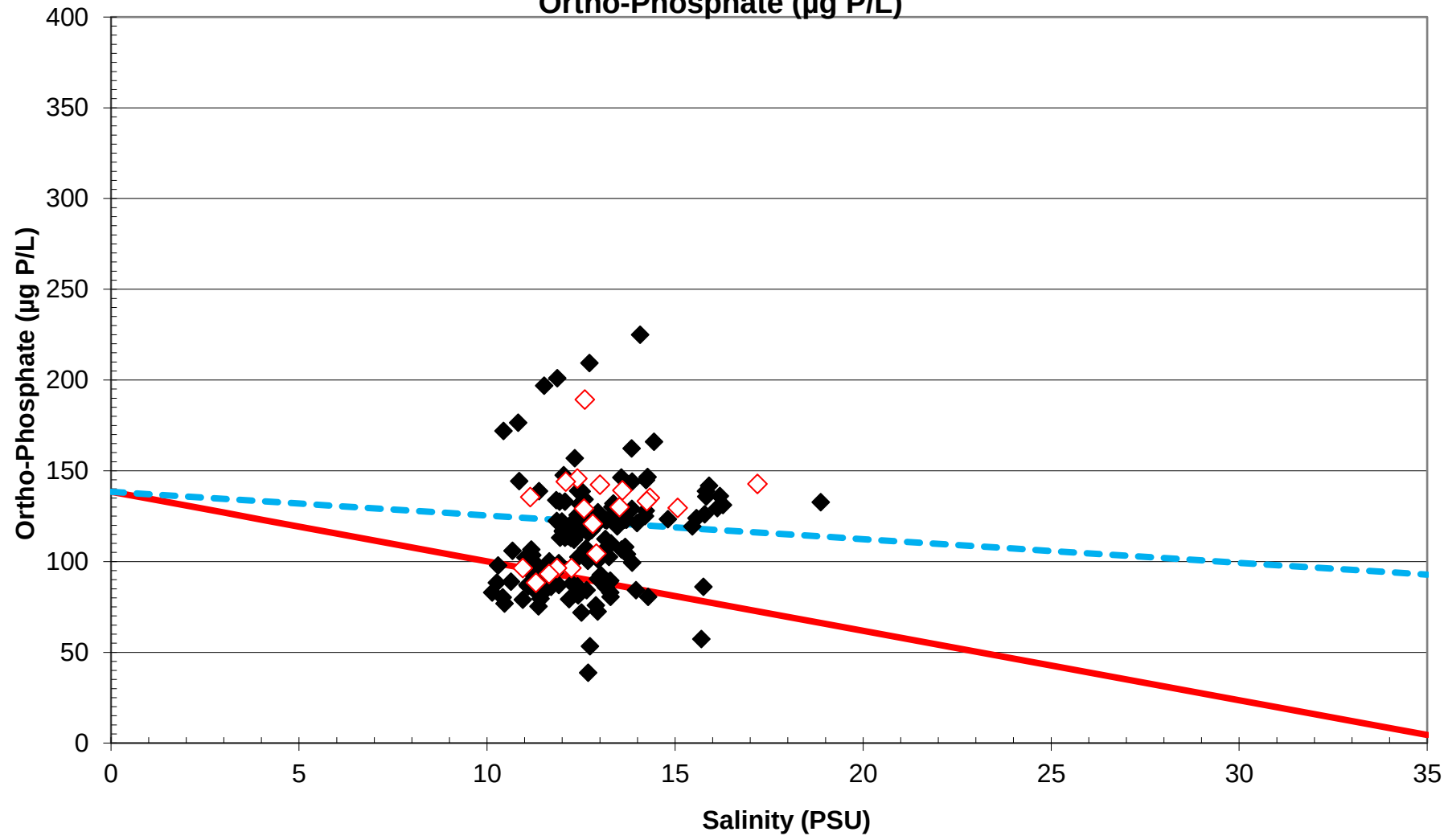


Anchialine Pond A1 Ortho-Phosphate



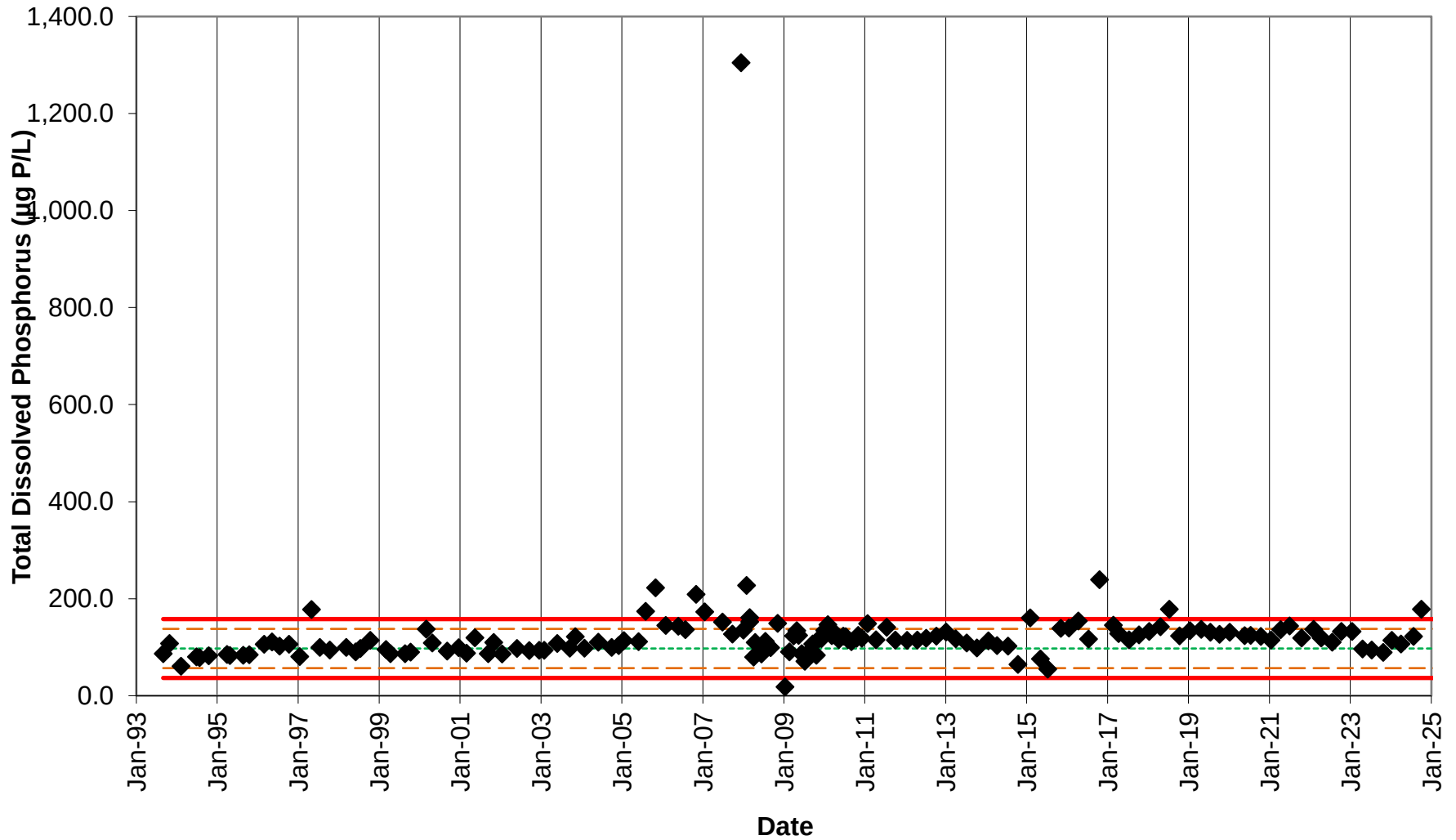
◆ A1 (n=152, Control Chart 1993 - 2001) — +3s (148 $\mu\text{g P/L}$) - - +2s (129 $\mu\text{g P/L}$) - - - - Mean (90 $\mu\text{g P/L}$) - - -2s (51 $\mu\text{g P/L}$) — -3s (31 $\mu\text{g P/L}$)

Anchialine Pond A1
Conservative Mixing Model
Ortho-Phosphate ($\mu\text{g P/L}$)



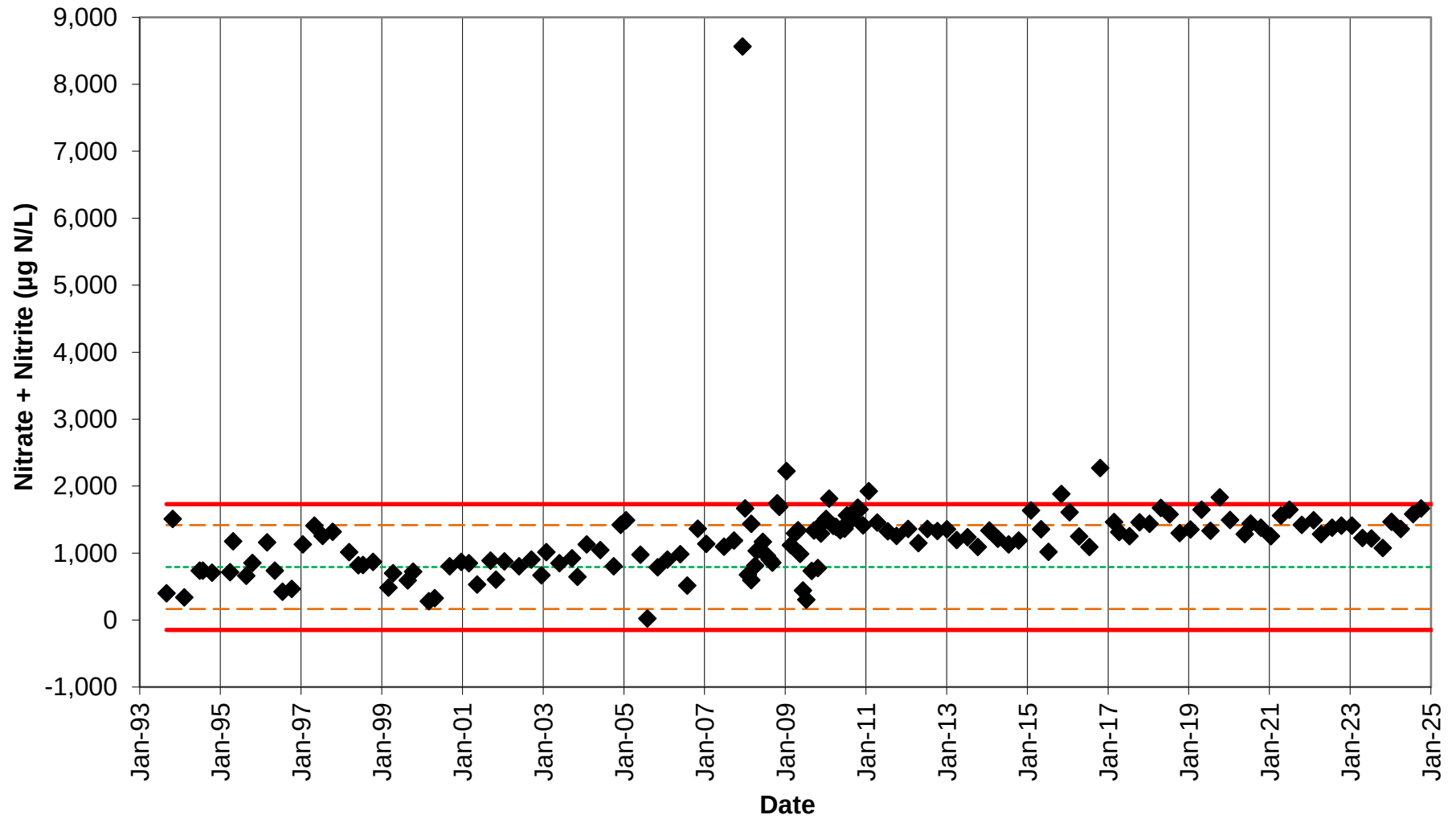
◆ A1, 1993 - 2020 ◆ A1, 2020 - 2023 — W1-SSW Mixing Line - - - W1-DSW Mixing Line

Anchialine Pond A1
Total Dissolved Phosphorus ($\mu\text{g P/L}$)



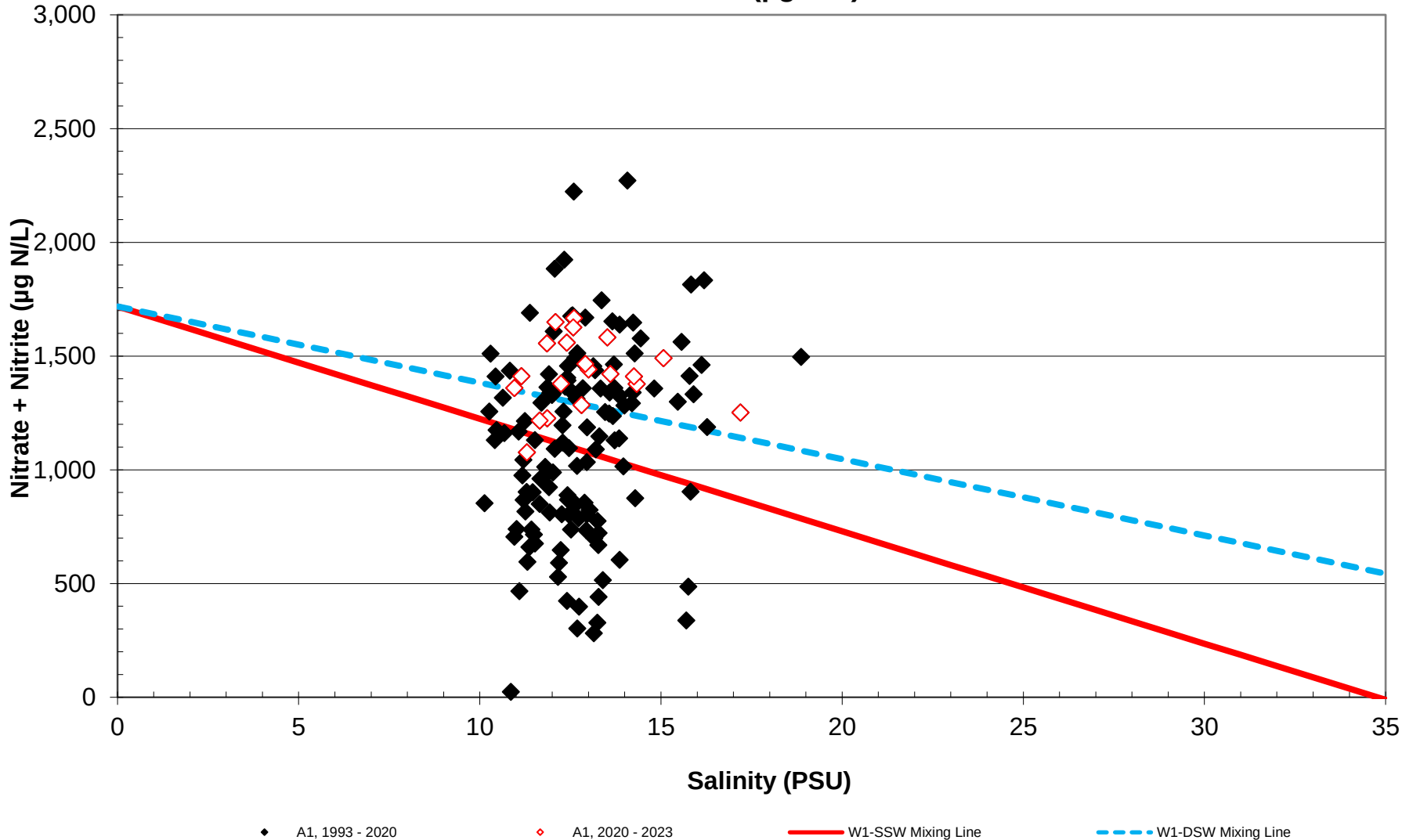
◆ A1 (n=150, Control Chart 1993 - 2001) — +3s (158 $\mu\text{g P/L}$) - - - +2s (138 $\mu\text{g P/L}$) - - - Mean (97 $\mu\text{g P/L}$) - - - -2s (57 $\mu\text{g P/L}$) — -3s (37 $\mu\text{g P/L}$)

Anchialine Pond A1
Nitrate + Nitrite ($\mu\text{g N/L}$)

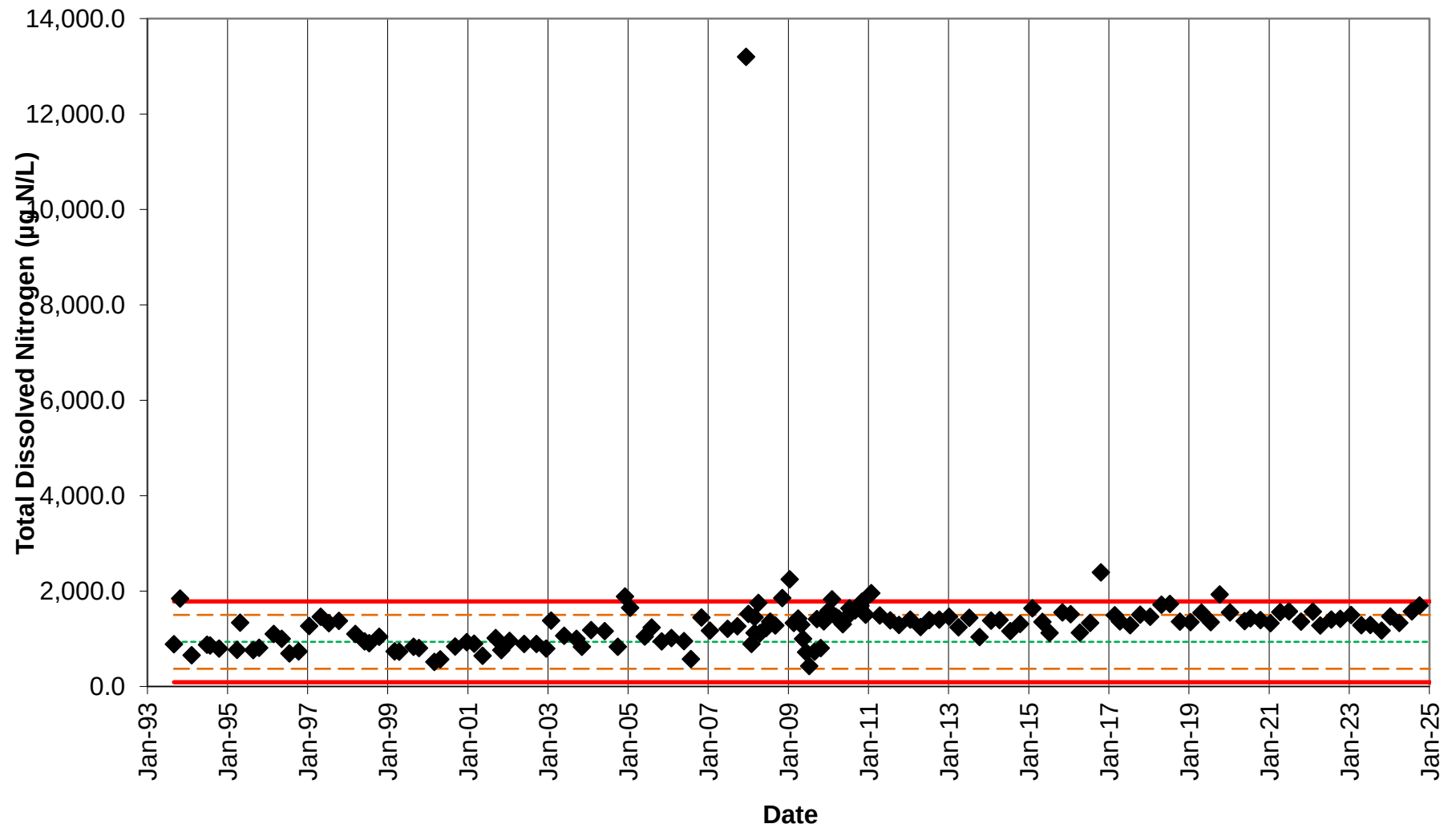


◆ A1 (n=152, Control Chart 1993 - 2001) — $+3s$ (1731 $\mu\text{g N/L}$) - - $+2s$ (1418 $\mu\text{g N/L}$) - - - - Mean (791 $\mu\text{g N/L}$) - - - - $-2s$ (165 $\mu\text{g N/L}$) — $-3s$ (-148 $\mu\text{g N/L}$)

Anchialine Pond A1
Conservative Mixing Model
Nitrate + Nitrite ($\mu\text{g N/L}$)

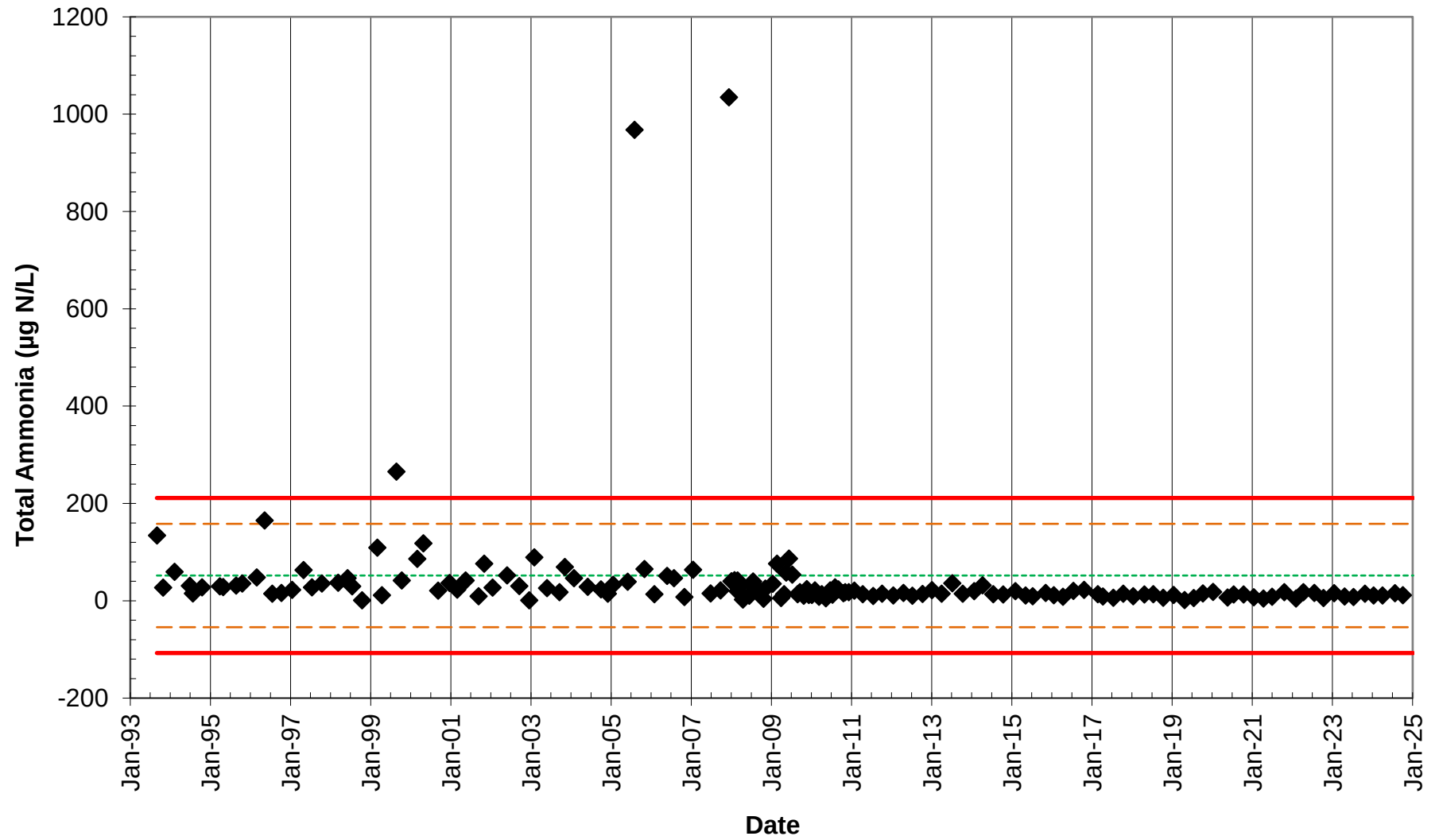


Anchialine Pond A1 Total Dissolved Nitrogen ($\mu\text{g N/L}$)



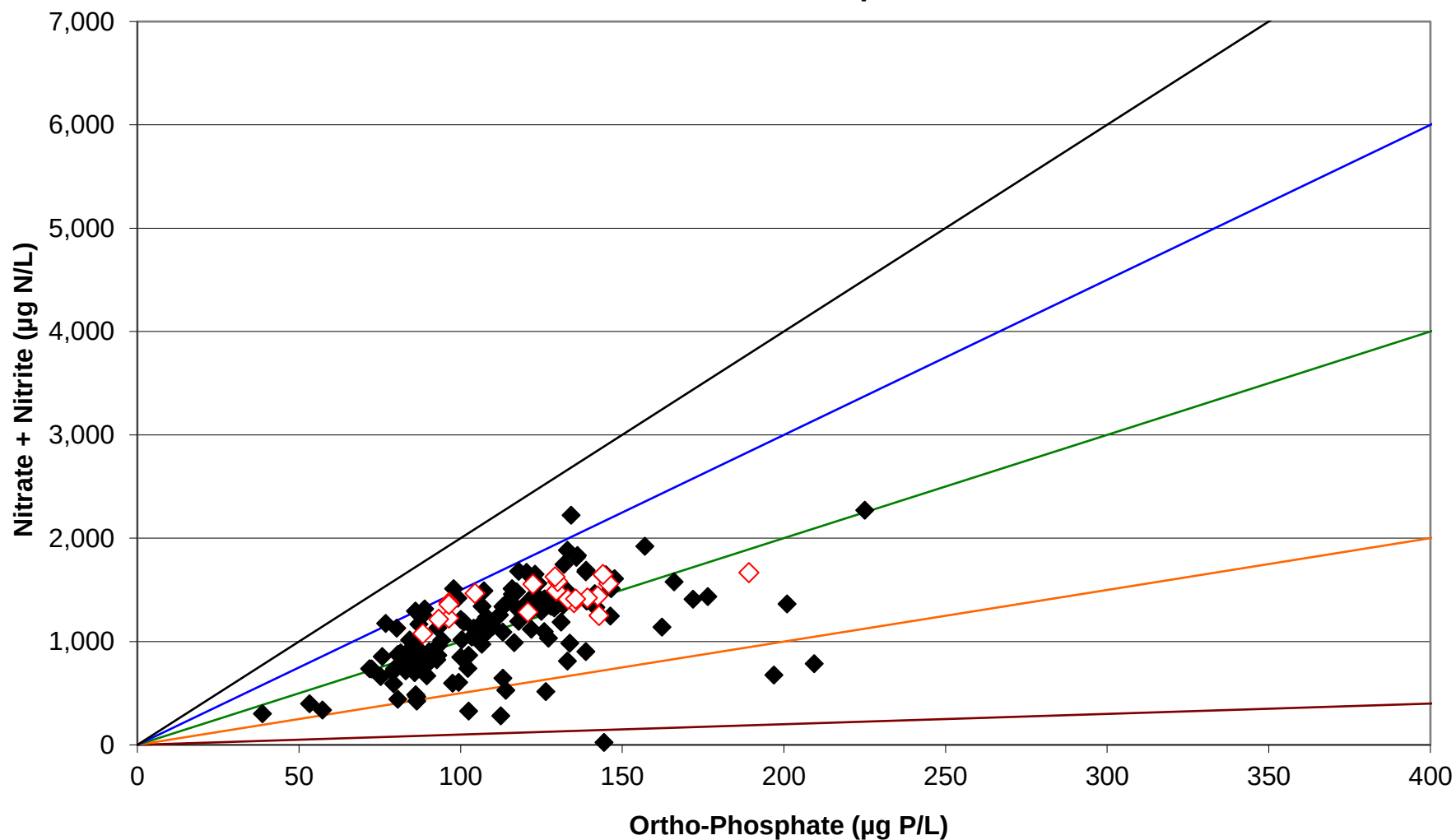
◆ A1 (n=150, Control Chart 1993 - 2001) +3s (1782.2 $\mu\text{g N/L}$) +2s (1500.0 $\mu\text{g N/L}$) --- Mean (935.5 $\mu\text{g N/L}$) -2s (371.1 $\mu\text{g N/L}$) -3s (88.9 $\mu\text{g N/L}$)

Anchialine Pond A1 Total Ammonia ($\mu\text{g N/L}$)



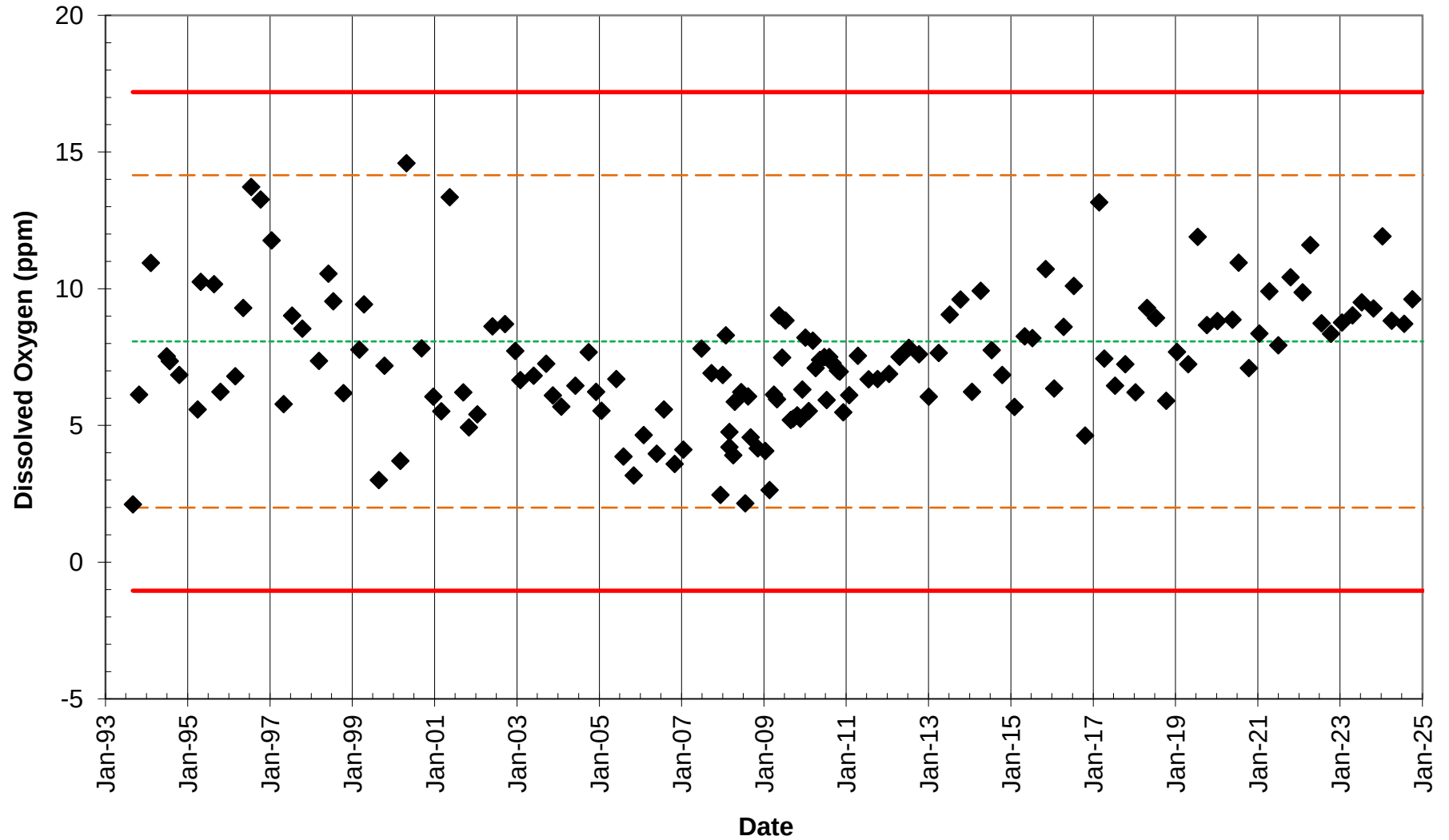
◆ A1 (n=152, Control Chart 1993 - 2001) — +3s (211.2 $\mu\text{g N/L}$) - - +2s (158.1 $\mu\text{g N/L}$) - - - Mean (51.9 $\mu\text{g N/L}$) - - -2s (-54.3 $\mu\text{g N/L}$) — -3s (-107.4 $\mu\text{g N/L}$)

Anchialine Pond A1
Nitrate + Nitrite to Ortho-Phosphate Ratio



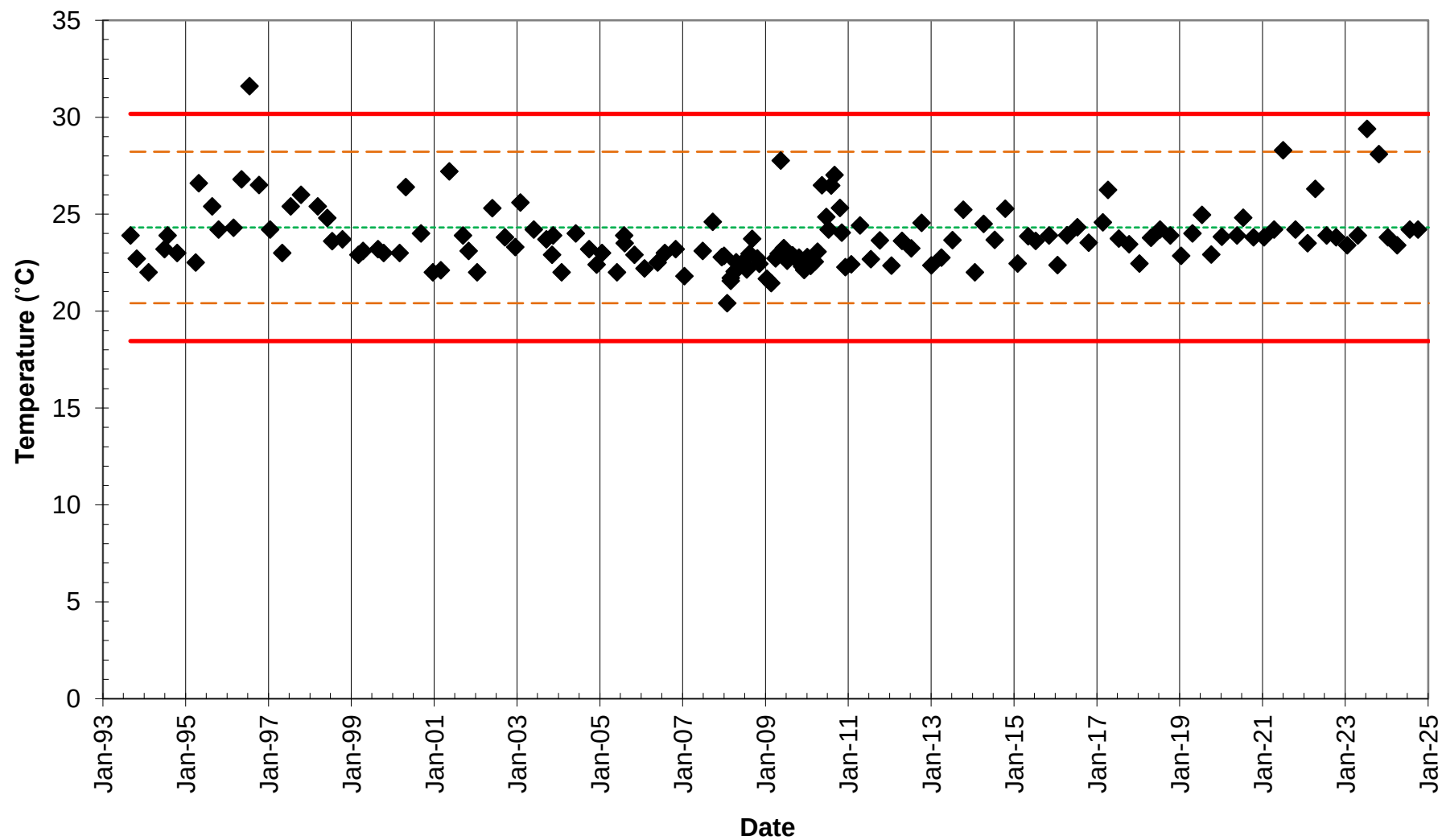
◆ A1, 1993 - 2020 ◆ A1, 2020 - 2023 — 1:1 — 5:1 — 10:1 — 15:1 — 20:01

Anchialine Pond A1 Dissolved Oxygen (ppm)



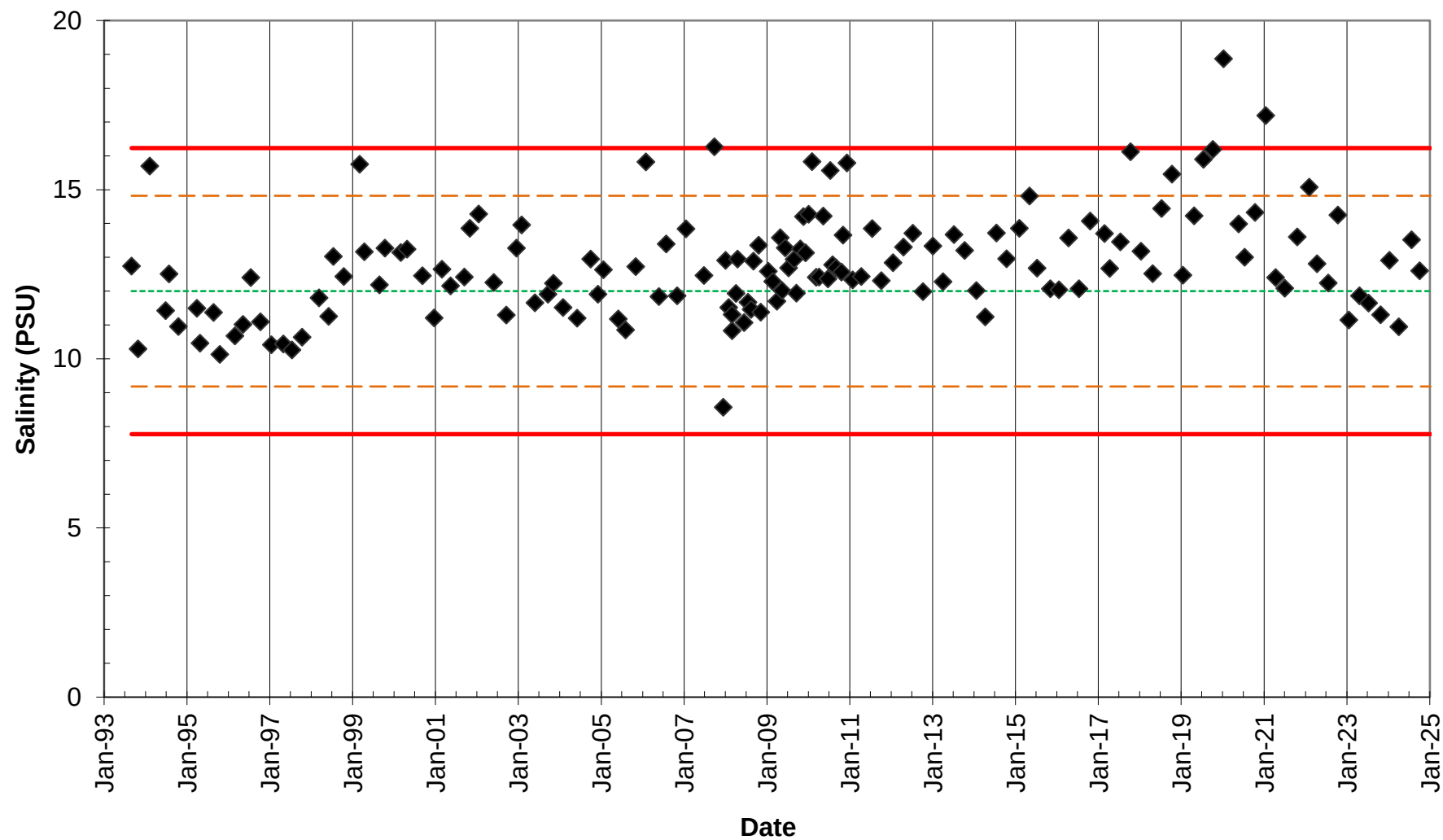
◆ A1 (n=151, Control Chart 1993 - 2001) +3s (17.2 mg DO/L) +2s (14.2 mg DO/L) - - - - Mean (8.1 mg DO/L) - - - - -2s (2.0 mg DO/L) - - - - -3s (-1.0 mg DO/L)

Anchialine Pond A1 Temperature (°C)



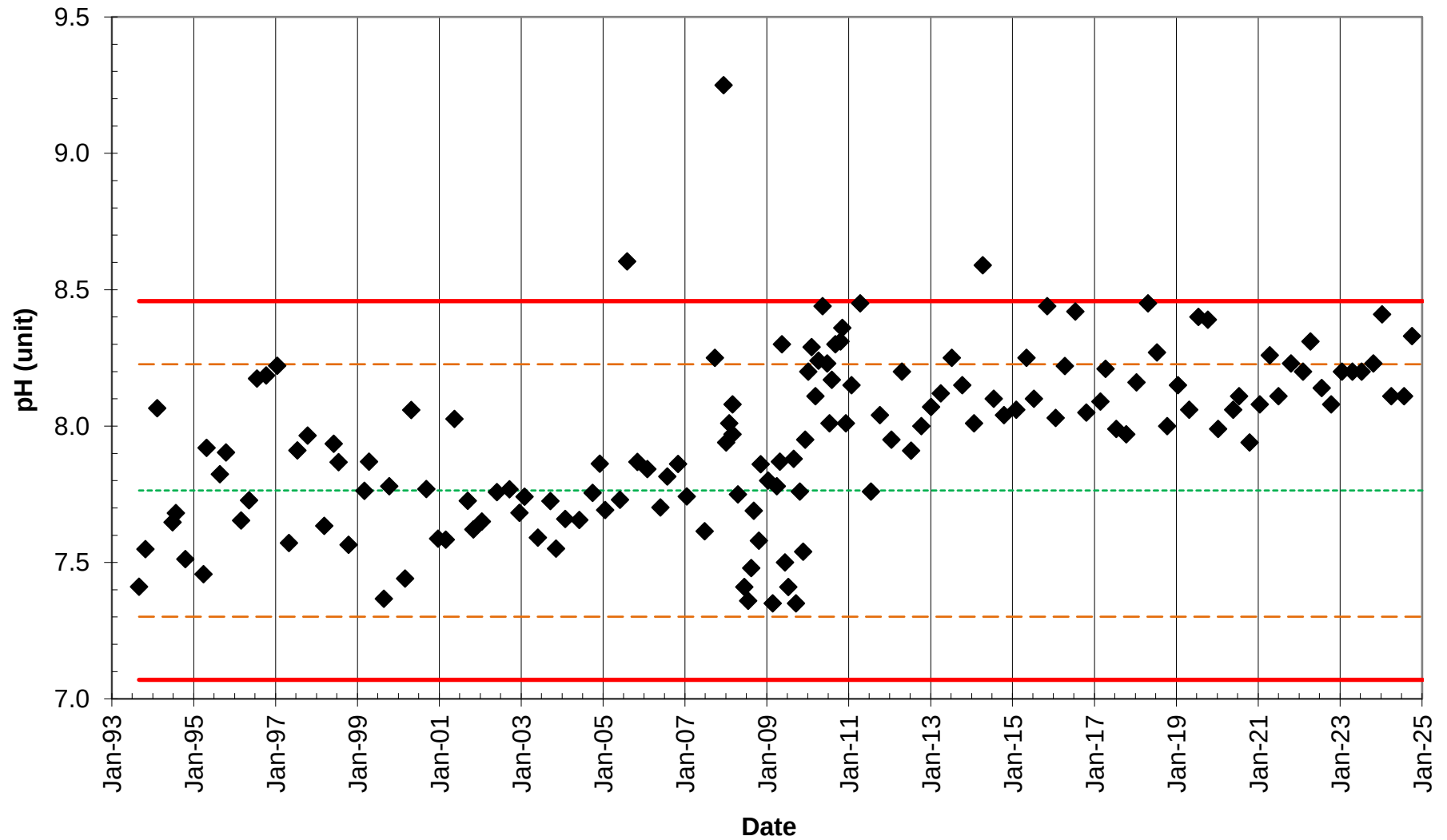
◆ A1 (n=154, Control Chart 1993 - 2001) —+3s (30.2 °C) - -+2s (28.2 °C) - - -Mean (24.3 °C) - - -2s (20.4 °C) —-3s (18.5 °C)

Anchialine Pond A1 Salinity (PSU)



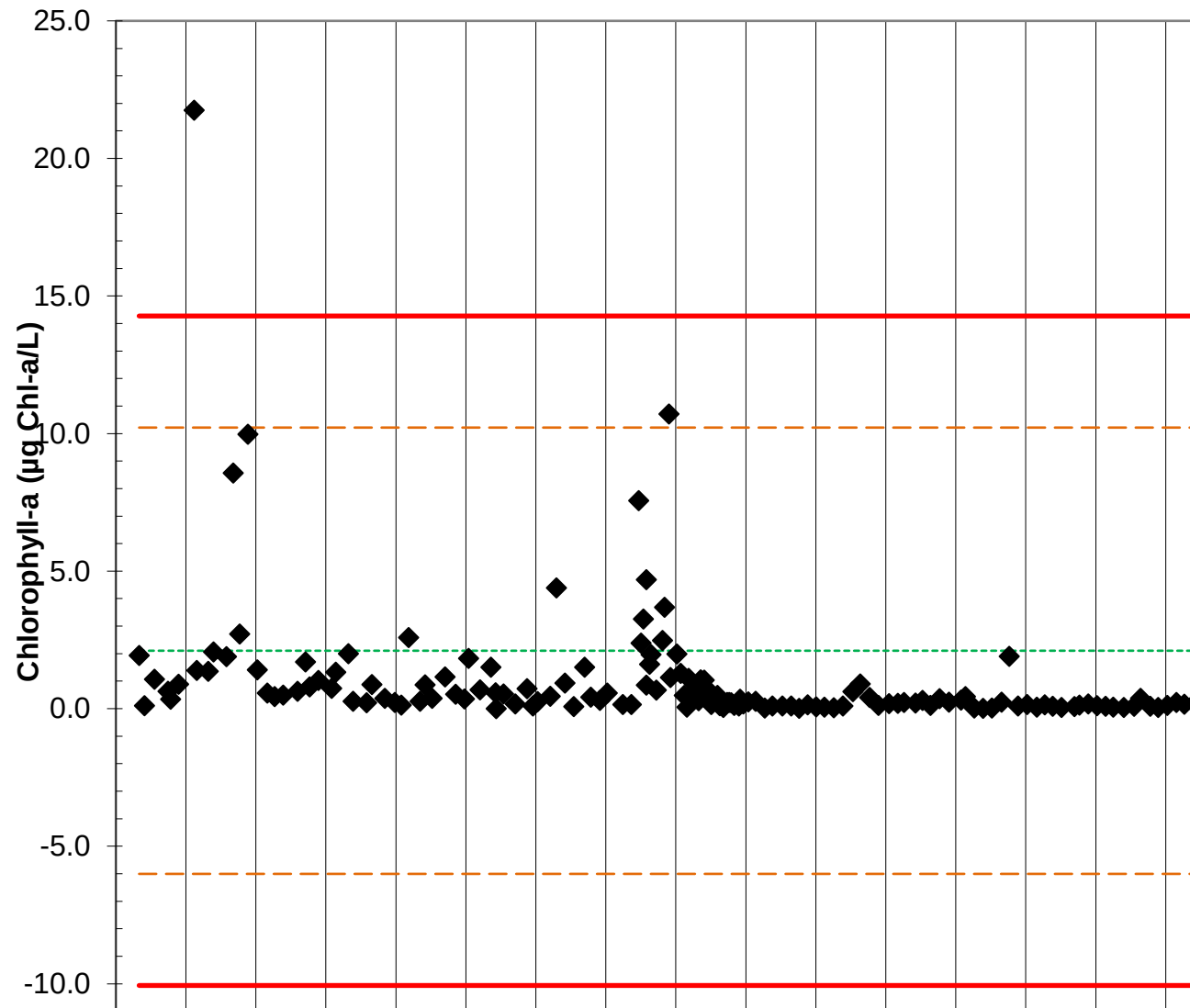
◆ A1 (n=152, Control Chart 1993 - 2001) —+3s (16.2 PSU) - -+2s (14.8 PSU) - - - Mean (12.0 PSU) - - -2s (9.2 PSU) —-3s (7.8 PSU)

Anchialine Pond A1 pH (unit)

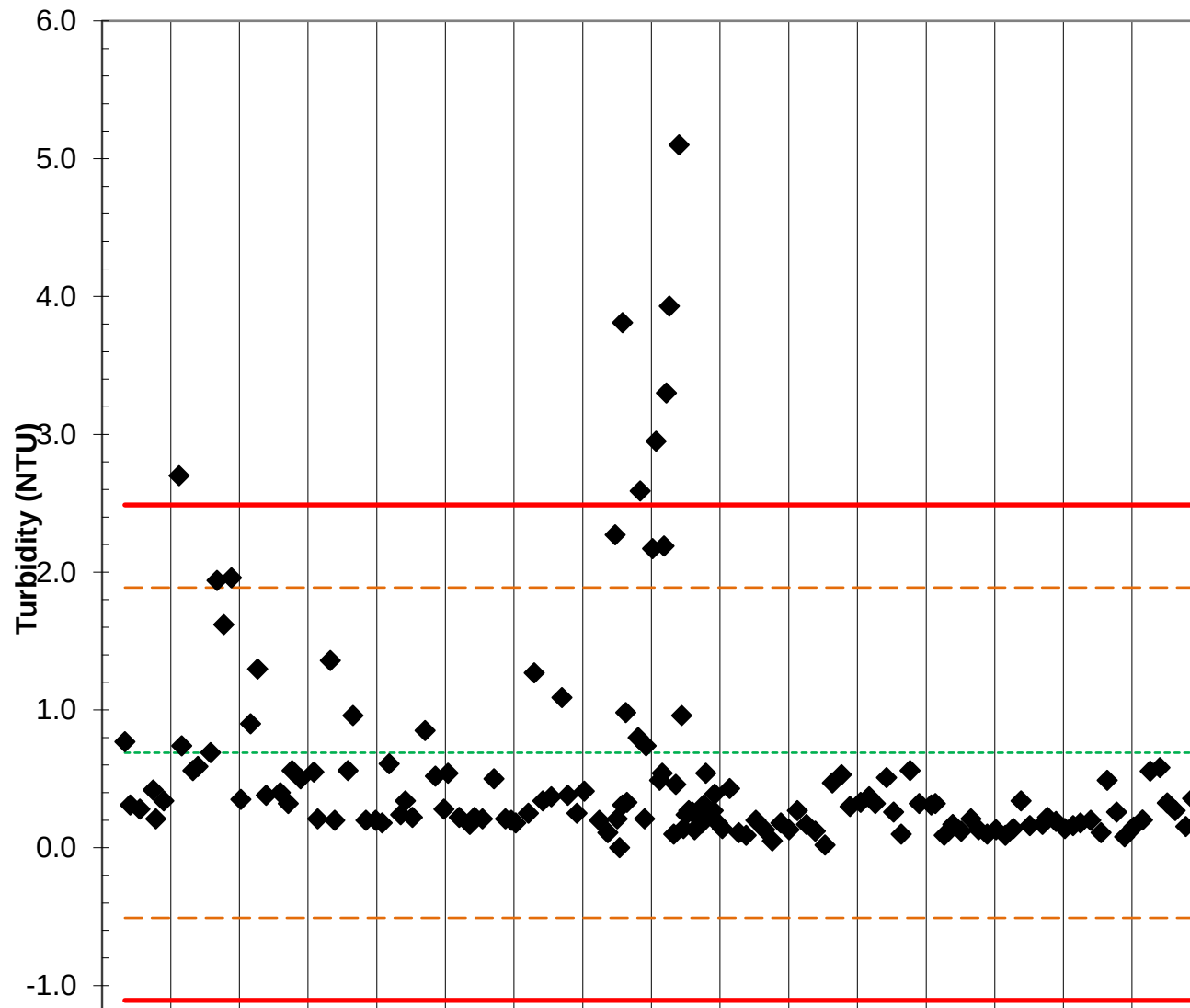


◆ A1 (n=152, Control Chart 1993 - 2001) — +3s (8.46 unit) - - - +2s (8.23 unit) - - - Mean (7.76 unit) - - - -2s (7.30 unit) — -3s (7.07 unit)

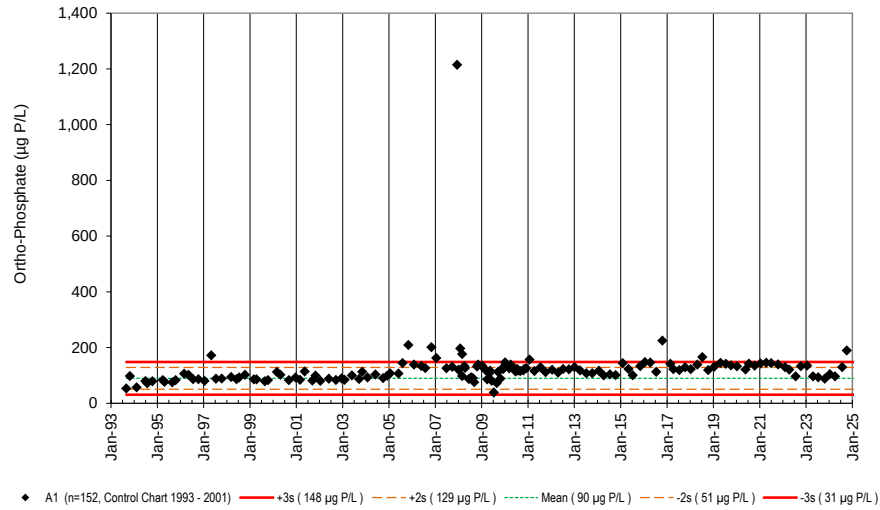
Anchialine Pond A1
Chlorophyll-a ($\mu\text{g Chl-a/L}$)



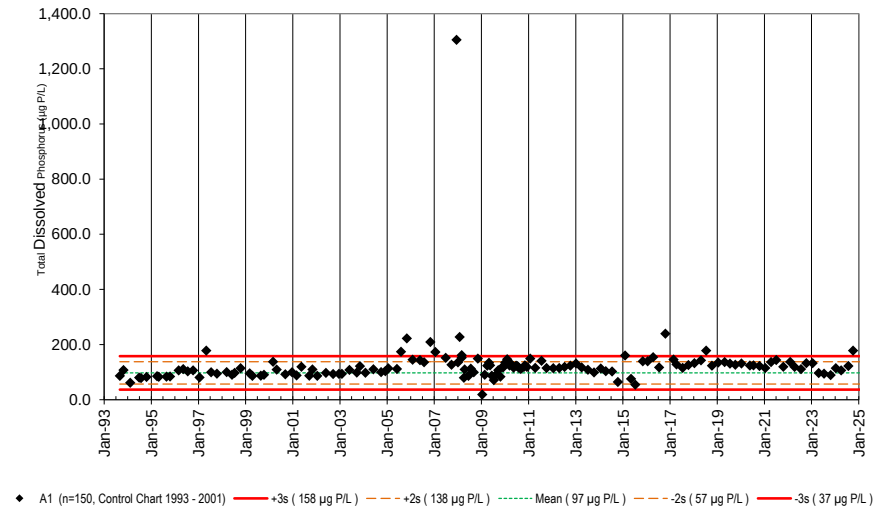
Anchialine Pond A1
Turbidity (NTU)



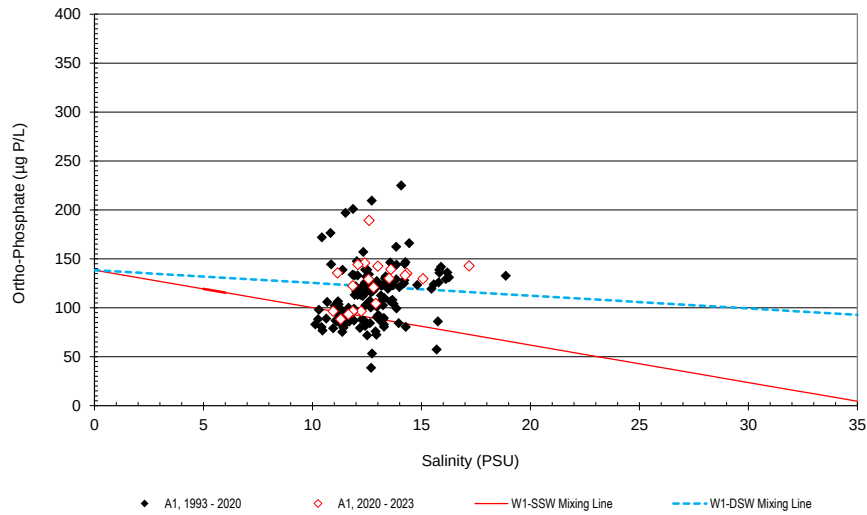
**Anchialine Pond A1
 Ortho-Phosphate**



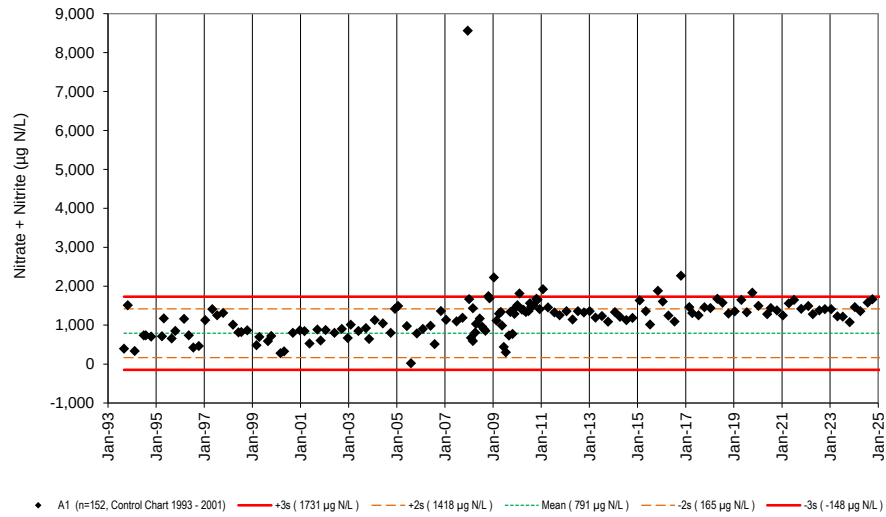
**Anchialine Pond A1
 Total Dissolved Phosphorus (µg P/L)**



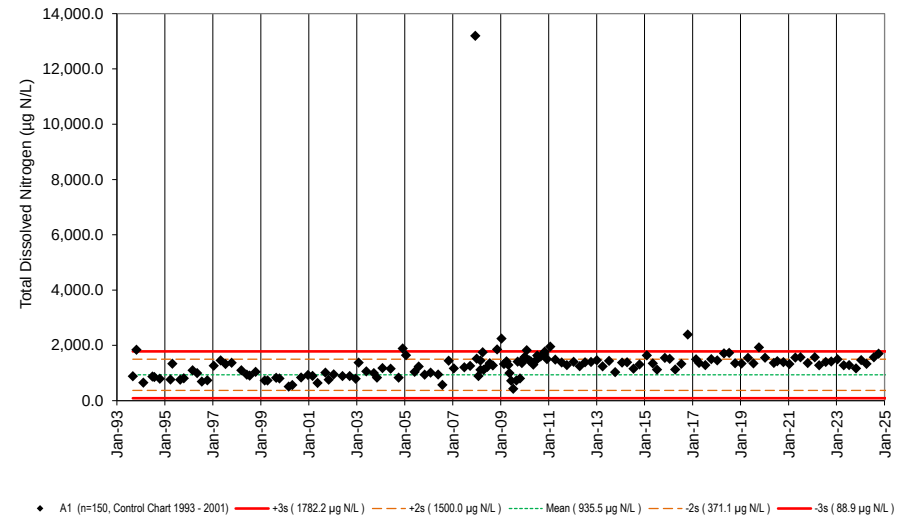
**Anchialine Pond A1
 Conservative Mixing Model
 Ortho-Phosphate (µg P/L)**



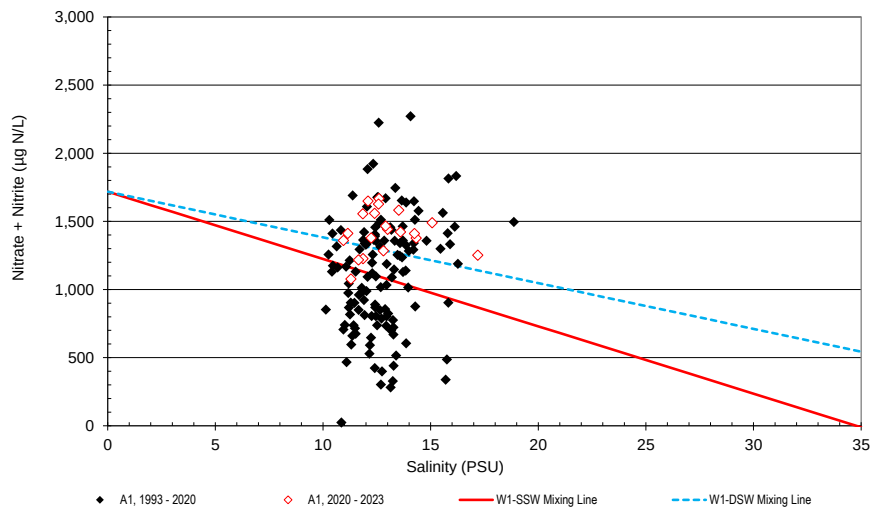
**Anchialine Pond A1
 Nitrate + Nitrite ($\mu\text{g N/L}$)**

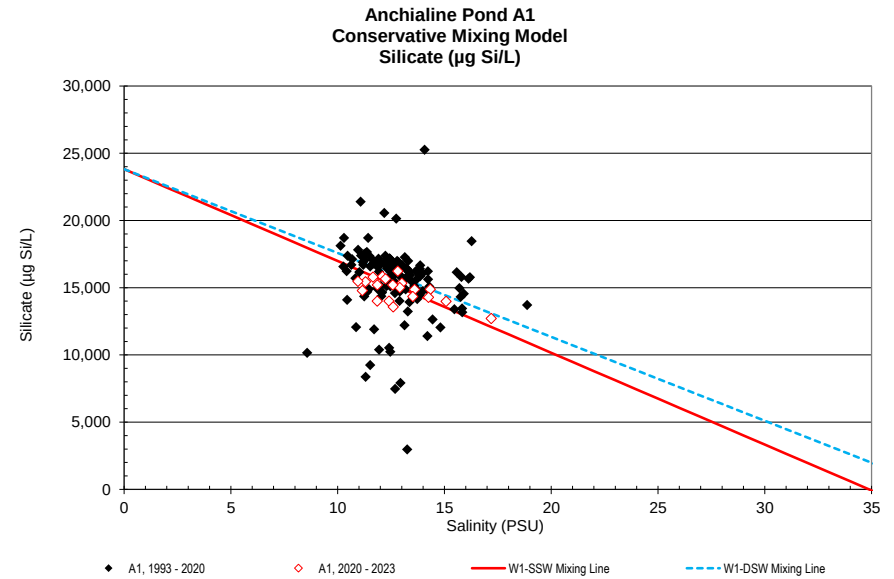
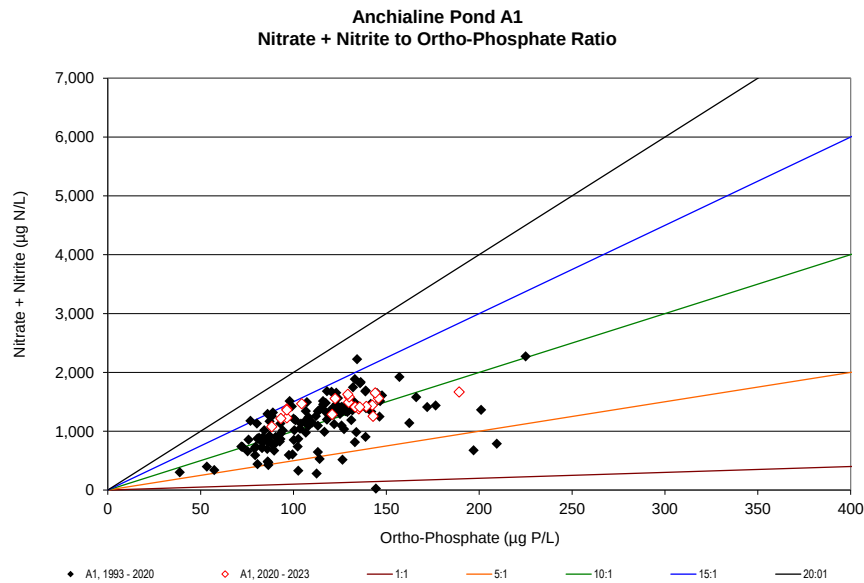
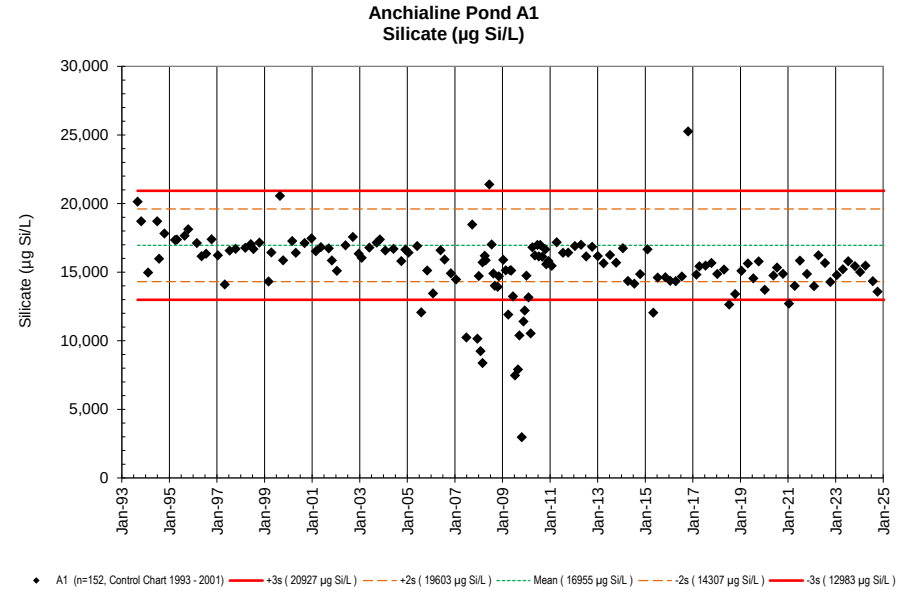
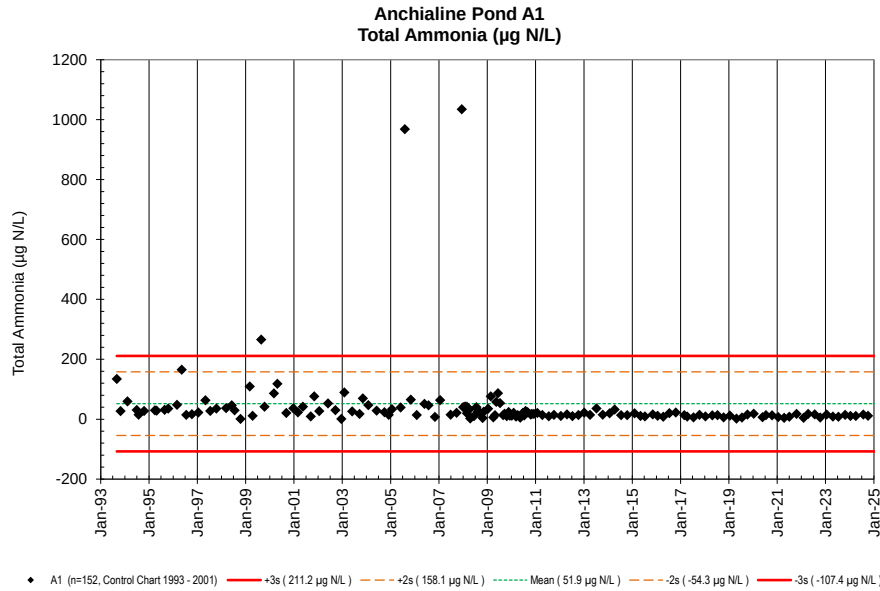


**Anchialine Pond A1
 Total Dissolved Nitrogen ($\mu\text{g N/L}$)**



**Anchialine Pond A1
 Conservative Mixing Model
 Nitrate + Nitrite ($\mu\text{g N/L}$)**





NELHA Water Quality Laboratory
Anchialine Pond A1 Charts
8/31/1993 - 6/30/2024

