

NELHA Water Quality Laboratory

Well 12B Data Table

1/27/2009 - 6/30/2025

Site	Pump Depth (m)	Date (M/D/Y)	Time (2400)	Depth to H ₂ O (m)	Tide (m) (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)	Temp. (°C)	pH (unit)	Salinity (PSU)	Chloride (mg/L)	DO (ppm)	Turbidity (NTU)	ORP (mV)
W12B	-6.096	1/27/09	943	-5.42	0.09 Ebb	3.77 117	56.8 796	0.33 4.6	668 18752	24.1	8.09	9.28	5137	6.54	21.60	
W12B	-6.096	2/24/09	1408	-5.38	0.24 Flood	3.59 111	59.4 832	0.15 2.1	727 20425	23.6	7.92	9.51	5264	6.53	1.71	
W12B	-6.096	3/16/09	1410	-5.59	0.06 Flood	2.08 64	24.6 344	0.24 3.3	395 11107	25.4	7.81	10.27	5685	6.45	15.50	
W12B	-6.096	4/22/09	1010	-5.58	0.00 Flood	4.36 135	50.1 701	0.35 4.9	628 17634	23.7	7.89	9.40	5203	6.91	20.10	
W12B	-6.096	5/29/09	1255	-5.52	0.12 Low	4.06 126	51.2 717	0.27 3.8	756 21236	23.1	7.97	10.89	6028	6.84	3.83	
W12B	-6.096	6/19/09	1314	-4.96	0.70 High	3.41 106	42.1 590	0.16 2.2	323 9066	22.6	8.09	9.46	5236	6.96	0.17	
W12B	-6.096	7/31/09	1332	-4.98	0.64 High	3.81 118	53.9 756	0.31 4.3	385 10809	23.2	7.97	10.21	5652	6.62	0.10	
W12B	-6.096	8/20/09	1412	-4.98	0.61 Flood	3.78 117	59.9 839	0.52 7.3	498 13983	22.8	8.02	9.72	5380	6.39	0.24	
W12B	-6.096	9/24/09	1338	-5.34	0.30 Ebb	3.75 116	56.5 791	0.44 6.1	389 10928	23.1	7.92	10.16	5624	6.69	0.10	
W12B	-6.096	10/23/09	1513	-5.48	0.15 Low	3.71 115	51.1 715	0.27 3.8	307 8622	23.3	7.97	10.19	5640	7.14	0.27	
W12B	-6.096	11/17/09	1445	-5.52	0.21 Flood	3.15 98	37.7 528	0.72 10.1	722 20264	22.7	8.00	10.37	5740	7.19	0.04	
W12B	-6.096	12/8/09	1158	-5.27	0.37 Ebb	3.81 118	59.1 828	0.59 8.3	664 18642	22.8	7.94	10.55	5840	6.11	1.33	
W12B	-6.096	1/6/10	1115	-5.32	0.21 Ebb	3.71 115	52.1 730	0.43 6.0	605 17002	24.4	8.03	10.76	5956	5.70	0.23	
W12B	-6.096	2/1/10	1050	-5.41	0.00 Ebb	3.71 115	59.1 828	0.36 5.0	662 18594	25.2	8.04	10.39	5751	7.57	7.45	
W12B	-6.096	3/9/10	1033	-5.65	0.15 Flood	4.46 138	55.5 778	0.14 2.0	660 18535	22.7	7.96	10.12	5602	6.72	0.04	
W12B	-6.096	4/7/10	817	-5.59	0.09 Flood	4.00 124	54.7 766	0.86 12.0	572 16063	22.1	8.02	10.46	5790	6.93	0.23	
W12B	-6.096	5/12/10	1016	-5.60	0.06 Flood	3.97 123	50.4 706	2.21 31.0	730 20506	22.3	8.08	10.42	5768	7.16	0.15	
W12B	-6.096	6/15/10	1558	-5.31	0.46 Flood	3.33 103	47.8 670	0.79 11.0	603 16933	22.2	8.05	10.18	5635	7.46	0.15	
W12B	-6.096	7/13/10	1509	-5.02	0.46 Flood	3.94 122	52.5 736	0.93 13.0	720 20218	22.5	8.02	10.33	5718	6.79	0.25	
W12B	-6.096	8/3/10	1637	-5.23	0.30 Ebb	4.36 135	56.3 788	0.69 9.7	763 21425	22.5	8.05	9.96	5513	6.85	0.18	
W12B	-6.096	9/14/10	1642	-5.32	0.24 Low	4.07 126	56.4 790	0.86 12.0	768 21577	22.3	8.01	10.64	5890	7.04	0.30	
W12B	-6.096	10/12/10	1708	-5.34	0.18 Low	4.07 126	52.0 728	0.49 6.9	804 22592	22.3	8.03	10.60	5867	6.79	0.15	
W12B	-6.096	11/16/10	1547	-5.26	0.24 Ebb	4.07 126	56.6 793	0.25 3.5	795 22328	22.4	8.00	9.89	5474	6.92	0.32	
W12B	-6.096	12/14/10	1614	-5.43	0.06 Ebb	4.10 127	56.8 795	0.38 5.3	801 22486	22.4	8.00	9.95	5508	6.79	0.80	
W12B	-6.096	1/4/11	1554	-5.37	0.21 Flood	4.00 124	53.8 753	0.29 4.0	735 20638	22.3	7.93	9.92	5491	6.80	0.10	
W12B	-6.096	4/5/11	1604	-5.10	0.46 Flood	3.68 114	48.3 677	0.29 4.0	633 17766	22.2	7.98	9.65	5342	5.99	0.14	
W12B	-6.096	7/12/11	1540	-4.98	0.73 Ebb	4.04 125	53.3 746	0.29 4.0	718 20155	22.5	8.03	10.05	5563	6.66	0.07	
W12B	-6.096	10/11/11	1542	-5.16	0.43 High	4.13 128	54.0 756	0.23 3.2	733 20595	22.6	8.00	9.54	5281	7.20	0.04	
W12B	-6.096	1/10/12	1628	-5.37	0.24 Flood	3.81 118	52.5 735	0.39 5.4	687 19286	22.7	7.96	10.42	5768	6.68	0.27	
W12B	-6.096	5/1/12	1620	-5.22	0.30 Ebb	4.55 141	56.3 789	0.39 5.4	794 22296	22.3	8.02	10.23	5663	6.74	0.09	
W12B	-6.096	7/18/12	1504	-4.94	0.64 Flood	4.29 133	54.1 758	1.14 16.0	725 20374	22.4	8.03	10.48	5801	7.12	0.16	
W12B	-6.096	10/16/12	1431	-5.32	0.30 Flood	4.10 127	55.5 777	0.42 5.9	703 19738	22.6	8.04	10.15	5618	7.09	0.09	
W12B	-6.096	1/8/13	1552	-5.42	-0.03 Ebb	4.49 139	58.0 812	1.42 19.9	798 22410	22.4	7.92	10.47	5795	6.87	0.12	
W12B	-6.096	4/9/13	1542	-5.09	0.55 High	4.46 138	53.5 749	0.39 5.4	774 21733	22.4	7.99	10.30	5701	5.75	0.06	
W12B	-6.096	7/17/13	1701	-5.30	0.30 Ebb	3.87 120	52.0 728	2.96 41.4	720 20217	23.0	7.95	10.36	5735	6.67	0.58	
W12B	-6.096	10/15/13	1526	-5.14	0.49 Ebb	4.04 125	56.7 794	0.76 10.7	742 20848	22.7	7.90	10.51	5818	6.84	0.02	

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1/27/2009 - 6/30/2025

Site	Pump Depth (m)	Date (M/D/Y)	Time (2400)	Depth to H ₂ O (m)	Tide (m) (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)	Temp. (°C)	pH (unit)	Salinity (PSU)	Chloride (mg/L)	DO (ppm)	Turbidity (NTU)	ORP (mV)
W12B	-6.096	1/15/14	1529	-5.38	0.15 Flood	4.36 135	54.3 760	0.59 8.3	697 19569	22.9	8.00	10.20	5646	7.06	0.02	
W12B	-6.096	4/29/14	1720	-5.05	0.61 High	3.97 123	54.3 760	0.75 10.5	714 20055	22.4	7.98	10.10	5591	7.37	0.09	
W12B	-6.096	7/29/14	1614	-5.19	0.46 Flood	3.97 123	51.8 726	0.29 4.0	704 19770	23.0	7.93	10.52	5823	6.97	0.09	
W12B	-6.096	11/5/14	1558	-5.09	0.36 Ebb	4.52 140	57.7 808	0.41 5.8	729 20474	23.0	7.99	9.53	5275	7.33	0.11	
W12B	-6.096	2/10/15	1552	-5.43	0.24 High	4.57 142	109.9 1539	0.94 13.1	799 22441	22.5	7.96	10.07	5574	7.26	0.64	
W12B	-6.096	5/20/15	1015	-5.56	0.00 Ebb	4.28 133	58.0 812	0.19 2.7	667 18720	22.7	8.12	10.18	5635	7.04	0.02	
W12B	-6.096	8/6/15	1007	-5.15	0.43 Ebb	4.47 138	57.5 805	0.07 1.0	675 18948	23.3	7.95	10.49	5806	7.10	0.02	
W12B	-6.096	11/13/15	1400	-5.35	0.30 Flood	5.03 156	64.8 908	0.28 3.9	761 21372	23.2	8.08	8.66	4794	7.05	0.07	
W12B	-6.096	1/27/16	1444	-5.52	0.13 Flood	4.51 140	70.2 983	0.88 12.3	700 19671	22.7	8.02	9.85	5452	6.78	0.04	
W12B	-6.096	4/22/16	1210	-5.42	0.20 Flood	4.84 150	56.5 791	0.47 6.6	684 19217	23.2	7.99	9.22	5104	6.65	0.02	
W12B	-6.096	7/26/16	1429	-5.27	0.50 Ebb	4.41 137	54.3 761	0.08 1.1	526 14769	23.0	8.12	10.22	5657	6.30	0.02	
W12B	-6.096	11/7/16	1044	-5.02	0.50 Ebb	4.39 136	56.0 785	0.06 0.8	632 17743	22.9	7.86	9.47	5242	7.45	0.02	
W12B	-6.096	3/22/17	1027	-5.28	0.23 Flood	4.40 136	57.7 808	0.45 6.3	696 19546	23.8	7.96	9.22	5104	6.48	0.13	
W12B	-6.096	4/19/17	954	-5.32	0.21 High	4.28 133	59.3 831	0.27 3.8	756 21227	22.7	7.97	9.30	5148	5.73	0.02	
W12B	-6.096	8/9/17	948	-5.40	-0.01 Low	3.99 124	40.6 569	0.01 0.2	723 20319	23.0	8.01	9.81	5430	6.88	0.04	
W12B	-6.096	10/18/17	953	-5.39	0.10 Low	4.23 131	60.0 841	0.48 6.7	722 20284	23.0	8.01	9.22	5104	7.26	0.07	
W12B	-6.096	1/18/18	1103	-5.39	0.10 Low	4.13 128	59.2 829	0.13 1.8	743 20856	22.8	7.92	9.56	5292	6.79	0.02	
W12B	-6.096	5/10/18	1633	-5.25	0.16 Ebb	4.15 128	65.0 911	0.07 1.0	753 21138	23.0	8.01	11.24	6222	5.53	0.05	
W12B	-6.096	8/30/18	1042	-5.26	0.24 Ebb	4.42 137	58.6 820	0.29 4.1	800 22460	23.2	8.00	9.57	5297	6.87	0.04	
W12B	-6.096	10/24/18	1529	-5.06	0.53 High	3.96 123	57.8 810	0.01 0.2	711 19958	23.4	8.01	8.35	4622	6.36	0.07	
W12B	-6.096	2/8/19	1149	-5.53	0.06 Low	4.48 139	72.7 1019	0.05 0.7	749 21026	22.7	7.85	9.75	5397	7.32	0.05	
W12B	-6.096	5/15/19	1600	-5.12	0.40 Ebb	4.41 137	56.3 789	0.14 1.9	664 18635	22.9	7.88	9.06	5015	7.36	0.03	
W12B	-6.096	8/28/19	1446	-4.78	0.70 High	4.38 136	56.3 789	0.09 1.3	678 19031	23.0	8.01	9.51	5264	7.27	0.06	
W12B	-6.096	10/11/19	1349	-5.00	0.55 High	4.48 139	53.3 746	0.06 0.9	710 19932	23.3	8.04	9.68	5358	7.68	0.05	
W12B	-6.096	1/31/20	1113	-5.33	0.17 Ebb	4.67 145	60.9 853	-0.09 -1.2	676 18984	23.1	7.99	10.80	5978	7.42	0.02	
W12B	-6.096	6/3/20	1311	-4.86	0.50 Flood	2.84 88	57.0 798	0.07 1.0	687 19291	22.8	7.98	10.23	5663	7.11	0.03	
W12B	-6.096	8/19/20	1150	-5.38	0.15 Flood	2.71 84	59.1 828	0.15 2.1	655 18388	23.2	7.99	9.70	5369	7.16	0.02	
W12B	-6.096	12/9/20	1415	-5.10	0.20 Ebb	4.07 126	61.6 863	0.18 2.5	658 18467	23.0	7.92	10.13	5607	7.14	0.09	
W12B	-6.096	2/18/21	1118	-5.29	0.10 Low	4.11 127	61.1 856	0.15 2.1	685 19234	22.9	7.89	10.29	5696	7.13	0.03	
W12B	-6.096	4/14/21	1434	-5.31	0.40 Flood	2.24 69	28.4 398	0.09 1.3	453 12715	23.1	7.86	9.86	5458	7.11	0.04	
W12B	-6.096	7/6/21	1409	-4.99	0.60 High	3.95 122	62.6 878	0.27 3.8	670 18814	22.9	7.84	10.08	5580	7.13	0.05	
W12B	-6.096	11/5/21	1417	-5.34	0.43 High	4.02 124	60.6 849	0.37 5.2	690 19369	23.0	7.83	7.14	3952	10.13	0.05	
W12B	-6.096	2/8/22	1114	-5.31	1.30 Ebb	3.71 115	69.4 972	0.09 1.3	786 22076	22.6	7.89	10.60	5867	7.07	0.02	
W12B	-6.096	4/20/22	1510	-5.49	0.25 Flood	3.32 103	58.0 812	0.18 2.5	727 20428	22.6	7.85	10.86	6011	6.94	0.02	
W12B	-6.096	7/13/22	1001	-5.48	0.00 Flood	3.98 123	63.9 895	-0.35 -4.9	785 22058	22.7	7.87	10.04	5557	7.27	0.03	

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Site	Pump Depth (m)	Date (M/D/Y)	Time (2400)	Depth to H ₂ O (m)	Tide (m) (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)	Temp. (°C)	pH (unit)	Salinity (PSU)	Chloride (mg/L)	DO (ppm)	Turbidity (NTU)	ORP (mV)
W12B	-6.096	11/21/22	1000	-5.40	0.30 Flood	4.08 126	66.9 937	-0.05 -0.7	724 20340	22.7	7.86	9.52	5270	7.42	1.15	
W12B	-6.096	1/25/23	1540	-5.49	0.20 Flood	3.90 121	64.7 907	0.20 2.8	706 19842	22.6	7.93	10.16	5624	7.13	0.14	
W12B	-6.096	4/26/23	1043	-5.50	0.06 Low	4.09 127	68.4 958	0.07 1.0	761 21374	22.5	7.93	10.33	5718	7.11	0.14	
W12B	-6.096	8/14/23	1153	-5.02	0.60 High	3.58 111	65.4 916	-0.05 -0.7	774 21746	22.8	7.82	9.79	5419	7.29	2.10	
W12B	-6.096	11/15/23	1159	-5.30	0.18 Low	3.36 104	66.9 937	0.29 4.0	665 18665	22.8	7.95	9.34	5170	7.44	0.12	167.9
W12B	-6.096	1/24/24	944	-5.37	0.36 Low	3.65 113	66.9 937	0.01 0.2	741 20816	22.5	7.88	9.72	5380	7.33	0.11	243.5
W12B	-6.096	5/3/24	1436	-5.17	0.30 Ebb	3.67 114	66.3 928	-0.04 -0.6	718 20154	22.8	7.95	9.61	5319	7.25	0.41	276.8
W12B	-6.096	7/30/24	1420	-4.83	0.60 High	3.45 107	65.7 921	0.35 4.9	678 19054	22.8	8.03	10.17	5629	7.17	0.07	129.3
W12B	-6.096	12/11/24	932	-5.27	0.30 Flood	4.44 138	74.9 1049	0.21 3.0	674 18923	22.6	7.90	9.80	5425	7.21	0.07	261.2
W12B	-6.096	1/10/25	931	-5.34	0.20 Flood	4.20 130	73.8 1034	0.16 2.2	660 18533	22.6	7.89	9.91	5485	7.29	0.07	192.4
W12B	-6.096	5/13/25	1149	-5.41	0.20 Flood	4.08 126	72.8 1020	0.05 0.7	691 19410	22.6	7.97	9.50	5258	7.34	0.07	226.6
Mean				-5.28	0.31	3.99 124	57.78 809	0.38 5.3	682 19166	22.9	7.97	9.95	5509	6.96	1.02	214.0
Std. Dev.				0.20	0.22	0.50 16	10.26 144	0.46 6.5	105 2957	0.6	0.07	0.60	332	0.56	3.70	53.2
Maximum				-4.78	1.30	5.03 156	110 1539	2.96 41.4	804 22592	25.4	8.12	11.24	6222	10.13	21.60	276.8
Minimum				-5.65	-0.03	2.08 64	25 344	-0.35 -4.9	307 8622	22.1	7.81	7.14	3952	5.53	0.02	129.3
n				82	82	82 82	82 82	82 82	82 82	82	82	82	82	82	82	7