

NELHA Water Quality Laboratory

Well 9B Data Table

1/23/2009 - 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)
W9B	-13.72	1/23/09	1115	-9.24	0.09 Low	3.20 99	123.0 1723	0.28 3.9	560 15730	21.9	8.03	8.54	4,727	7.44	1.62	
W9B	-13.72	2/23/09	1328	-9.15	0.09 Ebb	2.71 84	103.3 1447	0.15 2.1	560 15726	21.9	7.78	11.70	6,476	7.30	0.16	
W9B	-13.72	3/13/09	1313	-9.33	0.09 Flood	2.12 66	66.4 931	0.13 1.8	423 11887	23.0	7.91	8.50	4,705	7.54	0.40	
W9B	-13.72	4/20/09	1131	-9.22	0.21 Flood	3.85 119	112.9 1582	0.32 4.5	525 14757	21.7	7.85	8.92	4,937	7.06	1.93	
W9B	-13.72	5/21/09	1033	-9.26	0.55 Flood	3.18 99	98.7 1382	0.18 2.5	381 10712	22.4	7.98	11.09	6,139	6.97	0.16	
W9B	-13.72	6/16/09	1001	-9.14	0.40 Flood	3.12 97	97.9 1371	0.44 6.2	300 8415	20.0	7.98	9.24		7.71	0.04	
W9B	-13.72	7/13/09	1307	-9.17	0.21 Low	2.77 86	68.7 962	0.40 5.6	259 7270	19.7	7.95	15.56	8,613	6.40	0.12	
W9B	-13.72	8/18/09	1302	-8.93	0.61 Flood	1.82 56	46.2 648	0.32 4.5	366 10266	20.3	7.87	15.66	8,668	6.21	0.06	
W9B	-13.72	9/21/09	1101	-9.11	0.15 Low	3.02 94	99.6 1395	0.46 6.4	238 6674	20.3	8.44	12.02	6,653	7.14	0.07	
W9B	-13.72	10/19/09	1346	-9.21	0.21 Flood	3.27 101	61.8 865	4.98 69.8	255 7152	20.9	8.19	11.30	6,255	7.50	0.16	
W9B	-13.72	11/16/09	1105	-9.29	0.09 Low	2.71 84	69.6 975	0.81 11.4	608 17071	21.5	7.89	16.89	9,349	4.85	0.21	
W9B	-13.72	12/7/09	1128	-9.02	0.46 Ebb	3.36 104	106.4 1491	0.54 7.6	582 16342	20.3	7.88	12.27	6,792	7.47	0.02	
W9B	-13.72	1/5/10	902	-8.96	0.49 High	2.74 85	91.6 1283	1.29 18.0	467 13104	20.3	7.95	12.70	7,030	6.80	0.65	
W9B	-13.72	2/1/10	1029	-9.03	0.12 Ebb	3.20 99	115.5 1618	0.43 6.0	461 12938	19.5	8.00	10.54	5,834	7.52	0.10	
W9B	-13.72	3/9/10	940	-9.30	0.12 Flood	3.33 103	104.2 1459	0.14 2.0	558 15660	19.9	7.95	11.31	6,260	6.79	0.03	
W9B	-13.72	4/6/10	927	-9.29	0.12 Flood	2.81 87	69.5 974	0.43 6.0	525 14739	18.9	7.87	17.89	9,903	6.49	0.09	
W9B	-13.72	5/11/10	946	-9.33	0.00 Flood	3.07 95	94.0 1317	2.28 32.0	683 19181	19.8	8.05	10.51	5,818	7.70	0.02	
W9B	-13.72	6/15/10	1026	-9.28	0.06 Ebb	3.20 99	101.5 1421	0.43 6.0	610 17139	19.7	8.00	12.32	6,819	7.39	0.02	
W9B	-13.72	7/13/10	956	-9.27	0.03 Ebb	3.13 97	101.2 1417	0.50 7.0	613 17228	19.9	7.95	9.90	5,480	7.55	0.09	
W9B	-13.72	8/3/10	945	-8.97	0.49 Flood	2.84 88	71.2 997	3.34 46.8	525 14756	19.4	7.92	16.78	9,288	6.54	0.13	
W9B	-13.72	9/14/10	1000	-8.90	0.58 High	2.84 88	78.3 1097	0.44 6.1	558 15685	19.6	7.91	15.66	8,668	6.86	0.11	
W9B	-13.72	10/12/10	1010	-8.80	0.58 Ebb	2.94 91	82.0 1149	0.36 5.1	577 16194	19.5	7.90	14.80	8,192	6.79	0.11	
W9B	-13.72	11/16/10	929	-9.06	0.24 Flood	3.00 93	92.3 1293	0.25 3.5	588 16524	19.5	7.91	13.33	7,379	7.05	0.05	
W9B	-13.72	12/14/10	1009	-8.99	0.34 High	2.97 92	87.3 1223	0.34 4.8	574 16113	19.4	7.90	14.06	7,783	6.92	0.11	
W9B	-13.72	1/4/11	958	-9.04	0.12 Ebb	3.10 96	100.2 1404	0.21 3.0	576 16176	19.6	7.90	10.44	5,779	7.37	0.05	
W9B	-13.72	4/5/11	1032	-9.22	-0.06 Low	2.84 88	93.0 1303	0.12 1.7	525 14744	19.6	7.89	9.84	5,447	6.56	0.08	
W9B	-13.72	7/12/11	957	-9.37	0.37 Flood	3.23 100	98.7 1383	0.19 2.6	605 16998	19.6	7.95	11.28	6,244	7.28	0.05	
W9B	-13.72	10/11/11	1015	-9.11	0.12 Low	2.87 89	79.2 1109	0.15 2.1	542 15234	19.5	7.85	14.03	7,766	6.90	0.03	
W9B	-13.72	1/10/12	1007	-9.07	0.15 Ebb	2.68 83	80.1 1122	0.96 13.4	529 14857	19.6	7.86	13.50	7,473	6.96	0.07	
W9B	-13.72	5/1/12	1022	-9.17	0.18 Flood	3.16 98	80.7 1130	0.46 6.4	585 16440	19.6	7.96	14.04	7,772	6.86	0.04	
W9B	-13.72	7/18/12	927	-9.28	0.00 Low	2.97 92	80.5 1128	0.45 6.3	545 15302	19.2	7.99	14.91	8,253	7.00	0.30	
W9B	-13.72	10/16/12	1016	-9.11	0.18 Ebb	2.97 92	85.9 1203	0.39 5.5	556 15616	19.5	7.92	13.69	7,578	6.87	0.23	
W9B	-13.72	1/8/13	1036	-9.15	0.12 Flood	3.39 105	99.5 1393	0.50 7.0	620 17409	19.5	7.89	12.07	6,681	7.22	0.35	
W9B	-13.72	4/9/13	1003	-9.32	-0.09 Low	3.75 116	112.6 1577	1.16 16.3	652 18302	19.9	7.98	8.68	4,805	8.42	0.04	
W9B	-13.72	7/17/13	1028	-9.14	0.49 Flood	3.16 98	104.9 1469	0.50 7.0	566 15889	19.8	7.92	10.12	5,602	7.58	0.08	

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W9B	-13.72	10/15/13	1001	-9.16	0.27 Flood	2.84 88	82.1 1150	0.56 7.9	530 14872	19.5	7.86	14.97	8,286	7.08	0.06	
W9B	-13.72	1/15/14	938	-9.09	0.15 Ebb	3.42 106	93.4 1308	0.53 7.4	516 14506	19.6	7.91	12.59	6,969	7.90	1.27	
W9B	-13.72	4/29/14	1052	-9.38	0.00 Flood	2.87 89	83.7 1173	0.44 6.1	490 13775	19.8	7.85	15.00	8,303	7.34	0.04	
W9B	-13.72	7/29/14	1031	-9.17	0.12 Ebb	3.29 102	93.2 1305	0.43 6.0	542 15222	19.4	7.82	13.47	7,456	7.53	0.06	
W9B	-13.72	11/5/14	1031	-9.12	0.12 Low	3.36 104	90.6 1269	0.12 1.7	500 14029	19.7	7.88	14.43	7,987	7.57	0.05	
W9B	-13.72	2/11/15	937	-9.03	0.24 Low	4.29 133	80.0 1120	0.59 8.2	439 12321	19.3	7.85	14.42	7,982	7.28	0.11	
W9B	-13.72	5/19/15	1416	-9.20	0.48 Flood	3.19 99	84.7 1186	0.31 4.3	458 12873	19.1	7.96	15.78	8,735	7.49	0.02	
W9B	-13.72	7/21/15	1100	-10.02	0.24 Ebb	3.45 107	90.7 1271	0.09 1.3	499 14026	21.8	7.88	14.34	7,938	7.22	0.03	
W9B	-13.72	11/9/15	909	-9.03	0.12 Low	3.88 120	116.3 1628	0.02 0.3	585 16442	19.1	7.83	12.75	7,057	8.35	0.14	
W9B	-13.72	1/26/16	1522	-9.18	0.35 Flood	3.73 116	117.2 1642	0.16 2.3	525 14753	19.3	7.90	13.12	7,262	7.00	0.08	
W9B	-13.72	4/21/16	942	-9.24	0.00 Flood	3.57 111	90.4 1266	0.40 5.6	503 14139	19.7	7.77	12.78	7,074	7.82	0.08	
W9B	-13.72	7/20/16	1510	-9.30	0.35 Flood	3.02 94	81.4 1140	0.13 1.8	384 10789	18.9	7.86	16.26	9,000	6.99	0.04	
W9B	-13.72	11/7/16	1316	-8.91	0.30 Ebb	3.52 109	97.0 1358	0.28 3.9	495 13910	19.0	7.40	14.31	7,921	8.18	0.02	
W9B	-13.72	3/22/17	1335	-9.05	0.15 Ebb	3.64 113	100.3 1404	0.11 1.6	540 15165	18.9	7.80	14.22	7,871	7.70	0.05	
W9B	-13.72	4/13/17	947	-9.15	-0.05 Low	3.55 110	103.0 1443	0.71 9.9	553 15532	18.9	7.87	13.51	7,478	6.36	0.02	
W9B	-13.72	8/4/17	925	-9.12	0.10 Flood	3.23 100	75.8 1062	0.00 0.0	542 15209	19.1	7.89	14.74	8,159	7.76	0.05	
W9B	-13.72	10/18/17	1530	-8.86	0.50 Ebb	3.31 102	94.2 1319	0.55 7.7	505 14179	18.9	7.87	14.80	8,192	7.44	0.02	
W9B	-13.72	1/17/18	1015	-9.03	0.16 Ebb	3.36 104	106.7 1495	0.15 2.1	547 15362	19.0	7.82	13.47	7,456	7.68	0.04	
W9B	-13.72	5/9/18	1100	-9.14	0.30 High	3.25 101	99.4 1392	0.39 5.5	527 14794	19.1	7.83	14.35	7,943	7.14	0.05	
W9B	-13.72	8/13/18	1710	-8.96	0.64 Flood	3.15 98	89.8 1258	0.30 4.2	548 15402	19.9	7.83	15.55	8,607	7.03	0.07	
W9B	-13.72	10/24/18	1015	-9.09	0.20 Flood	3.15 98	97.5 1366	0.01 0.1	489 13724	19.9	7.82	13.93	7,711	6.05	0.05	
W9B	-13.72	2/7/19	1158	-9.06	0.07 Low	3.64 113	149.5 2094	0.19 2.6	553 15542	19.3	7.66	12.44	6,886	7.96	0.05	
W9B	-13.72	5/15/19	1220	-9.15	0.45 Flood	3.58 111	103.7 1452	0.10 1.4	531 14906	18.9	7.74	14.03	7,766	7.21	0.03	
W9B	-13.72	8/28/19	956	-9.18	0.15 Flood	3.73 116	99.2 1390	0.21 3.0	521 14630	19.0	7.90	13.77	7,622	7.34	0.06	
W9B	-13.72	10/10/19	1424	-8.84	0.58 High	3.46 107	76.9 1077	0.36 5.0	486 13648	19.4	7.90	15.52	8,591	7.77	0.07	
W9B	-13.72	1/31/20	1340	-9.16	0.07 Low	3.86 120	110.3 1546	-0.78 -10.9	511 14361	19.4	7.90	14.31	7,921	7.55	0.02	
W9B	-13.72	6/2/20	1451	-8.76	0.55 High	2.75 85	93.5 1310	0.04 0.5	488 13696	20.2	7.89	14.24	7,882	6.36	0.07	
W9B	-13.72	8/18/20	1300	-9.12	0.50 Flood	3.44 107	109.0 1527	-0.11 -1.6	535 15015	19.7	7.90	13.00	7,196	6.75	0.04	
W9B	-13.72	12/9/20	1059	-8.85	0.50 High	3.42 106	102.6 1436	0.06 0.9	491 13780	19.8	7.85	13.71	7,589	7.17	0.08	
W9B	-13.72	2/17/21	1331	-9.12	0.02 Low	3.57 111	118.7 1663	0.14 1.9	541 15202	19.8	7.86	11.56	6,399	7.67	0.08	
W9B	-13.72	4/14/21	903	-9.14	-0.02 Low	3.21 99	119.1 1668	0.13 1.8	529 14863	20.4	7.79	11.63	6,438	7.77	0.04	
W9B	-13.72	7/6/21	1055	-9.17	0.35 Flood	3.10 96	107.7 1508	0.01 0.1	502 14106	21.7	7.76	13.72	7,594	7.11	0.11	
W9B	-13.72	11/5/21	1233	-9.12	0.25 Flood	3.29 102	109.9 1540	0.13 1.8	552 15512	21.3	7.69	11.95	6,615	7.49	0.19	
W9B	-13.72	2/4/22	1133	-9.06	0.03 Low	3.27 101	148.6 2082	0.08 1.1	643 18069	20.0	7.87	10.53	5,829	7.83	0.05	
W9B	-13.72	4/20/22	909	-9.24	0.02 Low	3.10 96	125.0 1751	0.00 -0.1	574 16130	19.9	7.84	10.09	5,585	7.88	0.04	

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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)
W9B	-13.72	7/12/22	918	-9.39	-0.10 Low	3.53 109	132.4 1855	-0.44 -6.2	601 16881	20.0	7.87	9.36	5,181	8.05	0.03	
W9B	-13.72	11/21/22	1328	-9.00	0.47 High	3.27 101	118.5 1660	0.09 1.2	527 14802	19.9	7.85	11.86	6,565	7.60	0.19	
W9B	-13.72	1/25/23	1113	-9.06	0.15 Ebb	3.29 102	131.0 1835	0.04 0.5	568 15962	19.9	7.75	10.26	5,679	7.94	0.06	
W9B	-13.72	4/25/23	1101	-9.30	0.02 Low	3.69 114	136.5 1912	0.06 0.9	556 15624	20.0	7.89	8.65	4,788	8.16	0.16	
W9B	-13.72	8/14/23	1119	-9.13	0.20 Flood	3.00 93	125.5 1757	0.06 0.8	582 16352	19.9	7.85	9.92	5,491	7.91	0.44	
W9B	-13.72	11/15/23	943	-8.86	0.30 Ebb	3.05 94	125.9 1764	0.01 0.1	600 16862	19.8	7.88	10.66	5,901	7.83	0.12	217.3
W9B	-13.72	1/23/24	1327	-9.08	0.87 High	2.79 86	118.9 1665	0.03 0.4	548 15389	19.7	7.88	10.56	5,845	7.79	0.11	223.1
W9B	-13.72	5/3/24	917	-9.19	0.13 Flood	2.90 90	128.5 1800	-0.12 -1.7	565 15861	20.1	7.85	9.73	5,386	7.87	0.45	217.0
W9B	-13.72	7/30/24	1249	-8.95	0.63 High	2.73 85	99.3 1391	0.09 1.3	492 13813	20.5	7.87	13.71	7,589	7.18	0.09	147.5
W9B	-13.72	12/10/24	1220	-8.91	0.47 High	3.04 94	107.3 1503	0.31 4.3	505 14197	21.0	7.81	13.36	7,395	7.38	0.07	242.4
W9B	-13.72	1/9/25	1018	-9.03	0.30 High	3.14 97	123.7 1733	0.25 3.5	520 14592	20.8	7.90	12.03	6,659	7.66	0.15	165.8
W9B	-13.72	5/13/25	958	-9.18	-0.08 Low	3.07 95	123.5 1730	0.06 0.9	547 15350	21.2	7.59	10.94	6,056	7.61	0.27	210.9
Mean				-9.13	0.24	3.19 99	99.64 1396	0.39 5.4	523 14688	19.9	7.88	12.74	7,074	7.30	0.16	203.4
Std. Dev.				0.17	0.21	0.38 12	19.57 274	0.72 10.0	81 2281	0.9	0.12	2.21	1,210	0.57	0.31	33.9
Maximum				-8.76	0.87	4.29 133	149.53 2094	4.98 69.8	683 19181	23.0	8.44	17.89	9,903	8.42	1.93	242.4
Minimum				-10.02	-0.10	1.82 56	46.23 648	-0.78 -10.9	238 6674	18.9	7.40	8.50	4,705	4.85	0.02	147.5
n				82	82	82 82	82 82	82 82	82 82	82	82	82	81	82	82	7