

NELHA Water Quality Laboratory

Well 11B Data Table

1/22/2009 - 6/20/2025

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)
W11B	-4.57	1/22/09	1014	-3.39	0.09 Low	4.88 151	126.0 1764	0.97 13.6	330 9255	25.8	7.60	17.94	9,930	4.28	0.50	
W11B	-4.57	2/24/09	927	-3.44	0.06 Ebb	4.89 152	105.3 1475	0.15 2.1	391 10995	24.4	7.50	18.59	10,290	4.11	0.29	
W11B	-4.57	3/16/09	1017	-3.39	0.09 Ebb	3.68 114	84.0 1177	0.13 1.8	260 7290	24.7	7.41	19.11	10,578	4.64	0.25	
W11B	-4.57	4/22/09	1235	-3.25	0.34 Flood	5.56 172	111.2 1557	0.66 9.3	271 7613	24.6	7.51	18.90	10,462	4.13	79.6	
W11B	-4.57	5/27/09	934	-3.40	0.09 Ebb	4.65 144	97.3 1363	0.27 3.8	444 12468	22.8	7.71	23.47	12,991	3.79	4.98	
W11B	-4.57	6/16/09	1335	-3.03	0.40 Ebb	6.72 208	87.1 1220	0.36 5.0	205 5761	23.5	7.44	24.05	13,312	3.79	0.11	
W11B	-4.57	7/14/09	1233	-3.18	0.40 Ebb	3.81 118	101.7 1425	0.60 8.4	128 3587	23.9	7.62	24.63	13,633	3.93	0.98	
W11B	-4.57	8/19/09	1304	-2.90	0.52 Flood	4.25 132	133.8 1874	1.15 16.1	253 7104	25.2	7.58	24.45	13,534	4.69	0.83	
W11B	-4.57	9/21/09	1441	-3.27	0.24 Flood	3.48 108	118.8 1665	0.47 6.6	164 4615	24.9	8.10	25.25	13,977	4.74	0.06	
W11B	-4.57	10/22/09	1517	-3.35	0.15 Low	3.88 120	115.5 1618	0.77 10.8	128 3586	25.3	7.60	25.02	13,849	4.77	0.15	
W11B	-4.57	11/17/09	744	-3.12	0.40 Ebb	4.36 135	127.6 1787	0.86 12.1	317 8896	25.1	7.59	24.28	13,440	4.73	0.06	
W11B	-4.57	12/8/09	823	-3.06	0.49 Flood	4.75 147	123.5 1730	0.89 12.5	338 9488	25.4	7.61	22.38	12,388	4.61	1.09	
W11B	-4.57	1/5/10	1444	-3.49	-0.03 Low	4.36 135	118.2 1655	0.71 10.0	315 8848	25.4	7.68	21.79	12,061	5.07	1.28	
W11B	-4.57	2/1/10	1520	-3.31	0.15 Flood	4.49 139	126.4 1771	0.50 7.0	281 7890	24.2	7.70	22.01	12,183	4.10	5.38	
W11B	-4.57	3/9/10	1512	-3.43	0.12 Ebb	5.46 169	99.4 1392	0.36 5.0	361 10146	23.6	7.64	20.80	11,513	4.49	1.39	
W11B	-4.57	4/6/10	1342	-3.46	0.12 Ebb	4.94 153	100.8 1412	0.57 8.0	338 9490	23.0	7.65	21.60	11,956	4.80	0.50	
W11B	-4.57	5/11/10	1407	-2.93	0.52 Flood	4.46 138	62.5 875	1.43 20.0	296 8307	23.1	7.70	23.38	12,941	3.78	0.23	
W11B	-4.57	6/16/10	900	-3.25	0.09 Ebb	4.23 131	71.0 994	0.43 6.0	309 8691	23.2	7.63	24.32	13,462	3.53	0.06	
W11B	-4.57	7/13/10	1417	-3.21	0.24 Flood	4.16 129	82.0 1149	0.14 2.0	332 9324	23.4	7.61	24.33	13,467	4.23	0.17	
W11B	-4.57	8/3/10	1412	-3.00	0.43 Ebb	4.68 145	92.3 1293	0.43 6.0	321 9017	23.9	7.62	25.10	13,894	3.98	0.04	
W11B	-4.57	9/14/10	1443	-3.06	0.34 Ebb	4.71 146	87.7 1229	0.49 6.9	343 9634	24.2	7.58	24.45	13,534	4.56	0.37	
W11B	-4.57	10/12/10	1500	-3.28	0.18 Low	4.75 147	95.2 1333	0.32 4.5	330 9258	24.1	7.65	24.47	13,545	4.61	0.14	
W11B	-4.57	11/16/10	1347	-3.01	0.37 Ebb	4.75 147	102.8 1440	0.11 1.6	327 9185	24.2	7.62	24.49	13,556	3.95	0.24	
W11B	-4.57	12/14/10	1418	-3.21	0.18 Ebb	5.23 162	87.2 1221	0.21 3.0	385 10806	24.2	7.67	21.72	12,023	4.26	0.10	
W11B	-4.57	1/4/11	1342	-3.33	0.12 Flood	4.84 150	67.5 945	0.17 2.4	361 10151	24.2	7.49	19.82	10,971	3.85	0.09	
W11B	-4.57	4/5/11	1422	-3.17	0.21 Flood	5.75 178	53.3 747	0.13 1.8	372 10441	23.3	7.52	19.62	10,860	2.16	0.28	
W11B	-4.57	7/12/11	1407	-2.88	0.73 Flood	4.23 131	53.3 747	0.14 1.9	341 9590	23.5	7.46	23.56	13,041	2.79	0.50	
W11B	-4.57	10/11/11	1255	-3.18	0.24 Flood	4.10 127	66.0 924	0.08 1.1	334 9384	23.6	7.45	23.45	12,980	3.76	0.17	
W11B	-4.57	1/10/12	1447	-3.37	0.09 Flood	4.62 143	108.7 1522	0.18 2.5	392 10998	23.2	7.40	20.25	11,209	3.08	0.16	
W11B	-4.57	5/1/12	1506	-3.15	0.40 Ebb	5.26 163	115.5 1618	0.26 3.7	371 10424	22.6	7.41	23.79	13,168	1.98	0.08	
W11B	-4.57	7/18/12	1418	-2.96	0.52 Flood	4.10 127	91.8 1286	1.18 16.5	340 9549	23.0	7.39	24.39	13,500	2.43	0.15	
W11B	-4.57	10/16/12	1346	-3.25	0.24 Flood	3.78 117	75.7 1061	0.39 5.4	329 9248	23.9	7.30	24.93	13,799	2.51	0.38	
W11B	-4.57	1/8/13	1504	-3.22	0.15 Ebb	4.68 145	72.7 1018	0.37 5.2	386 10834	23.6	7.32	21.35	11,818	2.82	6.99	
W11B	-4.57	4/9/13	1442	-3.07	0.46 Flood	5.33 165	74.7 1046	0.50 7.0	350 9840	22.4	7.43	23.08	12,775	1.91	2.87	
W11B	-4.57	7/17/13	1556	-3.09	0.46 Ebb	4.71 146	76.0 1064	0.44 6.2	345 9703	23.6	7.41	24.42	13,517	3.96	0.10	

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W11B	-4.57	10/15/13	1439	-2.91	0.52 Ebb	4.49 139	74.1 1038	0.36 5.0	325 9114	24.2	7.44	24.91	13,788	3.62	2.07	
W11B	-4.57	1/15/14	1430	-3.30	0.15 Flood	5.46 169	129.7 1817	0.54 7.5	343 9637	24.0	7.54	21.65	11,984	4.02	1.81	
W11B	-4.57	4/29/14	1626	-2.88	0.58 High	4.75 147	145.1 2032	0.36 5.0	319 8955	22.6	7.43	22.97	12,714	3.34	1.77	
W11B	-4.57	7/29/14	1516	-3.07	0.40 Flood	5.23 162	125.0 1751	0.21 3.0	328 9219	22.8	7.75	24.69	13,667	4.43	0.26	
W11B	-4.57	11/5/14	1500	-2.93	0.40 High	4.97 154	90.1 1262	0.29 4.1	296 8301	24.9	7.50	22.92	12,687	3.59	1.38	
W11B	-4.57	2/10/15	1149	-3.19	0.24 High	4.64 144	147.3 2063	0.96 13.4	377 10589	24.3	7.40	21.61	11,962	3.45	0.10	
W11B	-4.57	5/19/15	1116	-3.51	0.00 Flood	5.87 182	134.8 1888	0.25 3.5	334 9380	22.8	7.57	21.98	12,167	3.88	0.23	
W11B	-4.57	7/21/15	1358	-3.35	0.15 Flood	6.26 194	118.9 1665	0.01 0.2	345 9700	23.8	7.48	22.16	12,266	3.58	0.02	
W11B	-4.57	11/9/15	1225	-3.06	0.40 Flood	5.73 178	147.2 2062	0.11 1.5	311 8740	26.1	7.47	23.82	13,185	3.02	0.05	
W11B	-4.57	1/26/16	1132	-3.41	0.08 Low	8.49 263	93.0 1303	0.51 7.2	320 8992	25.8	7.45	22.75	12,593	3.29	0.12	
W11B	-4.57	4/21/16	1335	-3.08	0.40 Flood	11.27 349	48.4 677	0.46 6.4	293 8221	24.5	7.54	24.00	13,285	2.33	0.04	
W11B	-4.57	7/26/16	1022	-3.03	0.30 Flood	6.63 205	34.8 488	0.46 6.4	250 7012	24.6	7.74	23.34	12,919	2.64	4.05	
W11B	-4.57	11/10/16	1306	-2.91	0.30 Ebb	5.12 159	70.5 987	1.39 19.4	315 8840	26.5	7.42	23.39	12,947	2.90	0.02	
W11B	-4.57	3/21/17	1556	-3.18	0.07 Low	4.47 138	87.1 1220	0.34 4.8	323 9079	24.8	7.62	23.27	12,881	2.61	0.05	
W11B	-4.57	4/13/17	1341	-3.26	0.30 Flood	4.29 133	76.2 1068	0.25 3.5	329 9238	24.9	7.64	23.20	12,842	2.73	0.03	
W11B	-4.57	8/4/17	1324	-2.76	0.62 Flood	3.86 120	41.8 586	0.04 0.6	294 8255	25.0	7.72	25.64	14,192	4.79	0.03	
W11B	-4.57	10/19/17	1006	-3.28	0.09 Low	4.06 126	70.2 983	0.41 5.7	322 9030	25.8	7.68	22.56	12,488	3.78	0.03	
W11B	-4.57	1/17/18	1356	-3.29	0.25 Flood	4.02 124	72.8 1019	0.11 1.5	312 8751	25.5	7.61	24.16	13,373	2.31	0.02	
W11B	-4.57	5/10/18	1336	-2.97	0.35 Ebb	5.42 168	86.0 1205	0.09 1.2	286 8032	24.1	7.99	25.19	13,943	0.71	0.07	
W11B	-4.57	8/20/18	1204	-2.92	0.61 Flood	4.95 153	52.8 740	0.29 4.1	302 8489	25.1	7.70	23.31	12,903	3.36	0.05	
W11B	-4.57	10/25/18	1403	-3.12	0.40 Flood	4.08 126	60.9 853	0.03 0.4	276 7740	26.2	7.77	24.39	13,500	2.99	0.13	
W11B	-4.57	2/7/19	1416	-3.45	0.20 Flood	5.85 181	72.7 1018	0.04 0.5	289 8104	25.2	7.76	24.65	13,644	3.69	0.04	
W11B	-4.57	5/16/19	1341	-2.97	0.50 Flood	4.59 142	69.9 979	0.16 2.2	270 7573	24.2	7.74	23.60	13,063	4.63	0.05	
W11B	-4.57	8/29/19	945	-3.37	0.00 Flood	4.79 148	84.8 1188	0.17 2.4	322 9037	25.6	7.76	21.91	12,128	4.58	0.55	
W11B	-4.57	10/10/19	1138	-3.03	0.45 Flood	4.34 134	84.7 1187	0.15 2.1	286 8037	26.0	7.82	24.02	13,296	3.33	0.05	
W11B	-4.57	2/4/20	1440	-3.26	0.15 Ebb	5.51 171	106.8 1496	0.09 1.3	303 8515	26.0	7.77	21.38	11,834	3.46	0.03	
W11B	-4.57	6/2/20	1047	-3.05	0.35 Flood	4.52 140	87.4 1225	0.21 3.0	290 8146	24.5	7.75	24.01	13,290	2.99	0.02	
W11B	-4.57	8/19/20	948	-3.32	0.00 Flood	3.67 114	91.8 1286	0.37 5.2	294 8262	24.7	7.80	22.30	12,344	3.94	0.03	
W11B	-4.57	12/9/20	930	-2.93	0.45 Flood	5.24 162	95.4 1336	0.57 8.0	324 9112	25.7	7.72	22.95	12,703	4.37	0.13	
W11B	-4.57	2/17/21	1032	-3.14	0.10 Ebb	4.98 154	99.5 1394	0.10 1.4	295 8289	25.5	7.66	21.86	12,100	3.90	0.03	
W11B	-4.57	4/14/21	1113	-3.40	-0.02 Low	6.95 215	108.5 1520	0.48 6.7	338 9495	25.2	7.64	19.39	10,733	3.59	0.07	
W11B	-4.57	7/7/21	1030	-3.35	0.35 Flood	6.01 186	90.9 1273	0.06 0.9	308 8659	25.1	7.57	21.30	11,790	4.25	0.09	
W11B	-4.57	11/8/21	1143	-3.17	0.25 Ebb	5.91 183	100.8 1412	0.55 7.7	366 10271	25.4	7.59	19.76	10,938	4.24	0.05	
W11B	-4.57	2/4/22	1405	-3.41	0.17 Flood	6.59 204	130.8 1832	0.06 0.8	418 11732	24.3	7.63	16.68	9,233	4.48	0.09	
W11B	-4.57	4/20/22	1110	-3.57	-0.03 Low	4.77 148	149.3 2091	0.01 0.1	374 10502	24.1	7.63	19.79	10,954	4.73	0.05	

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1/22/2000 - 6/20/2025

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)
W11B	-4.57	7/12/22	1335	-3.19	0.80 High	5.88 182	91.6 1283	-0.29 -4.1	331 9300	24.5	7.72	22.70	12,565	3.91	0.02	
W11B	-4.57	11/22/22	1016	-3.31	0.20 Flood	5.06 157	102.4 1434	-0.12 -1.7	328 9206	25.7	7.77	20.58	11,392	4.86	1.81	
W11B	-4.57	1/26/23	931	-3.01	0.35 Ebb	4.39 136	91.1 1276	0.12 1.7	302 8470	24.5	7.75	21.23	11,751	4.64	0.05	
W11B	-4.57	4/25/23	1418	-3.42	0.10 Flood	4.67 145	90.4 1266	0.10 1.4	355 9963	23.8	7.65	20.98	11,613	4.89	0.09	
W11B	-4.57	8/15/23	956	-3.39	0.10 Flood	3.65 113	84.9 1189	0.09 1.2	333 9344	24.5	7.69	22.27	12,327	5.44	1.45	
W11B	-4.57	11/15/23	1410	-3.18	0.30 High	3.27 101	80.5 1128	0.10 1.4	300 8432	25.9	7.71	22.49	12,449	5.54	0.23	152.4
W11B	-4.57	1/23/24	1025	-3.30	0.50 Flood	3.45 107	74.9 1049	0.01 0.2	294 8270	24.8	7.72	22.89	12,670	5.34	0.17	159.6
W11B	-4.57	5/7/24	1124	-3.31	0.15 Flood	4.03 125	84.3 1181	-0.01 -0.2	325 9136	23.6	7.72	20.09	11,120	5.40	0.10	221.9
W11B	-4.57	7/31/24	1123	-2.94	0.55 Flood	3.95 122	73.4 1028	0.04 0.5	294 8261	23.8	7.68	22.75	12,593	4.77	0.11	137.4
W11B	-4.57	12/10/24	1454	-3.17	0.20 Ebb	5.05 156	88.8 1243	0.24 3.3	351 9854	24.6	7.69	19.63	10,866	4.78	0.15	155.8
W11B	-4.57	1/9/25	1424	-3.18	0.05 Ebb	4.70 146	76.2 1067	0.66 9.3	312 8751	24.1	7.64	21.67	11,995	4.23	0.17	179.4
W11B	-4.57	5/14/25	1105	-3.36	0.00 Flood	5.85 181	80.3 1125	0.14 1.9	333 9351	23.5	7.69	21.16	11,713	4.30	0.15	169.5
Mean				-3.19	0.27	4.93 153	92.82 1300	0.35 4.8	317 8912	24.4	7.61	22.55	12,482	3.86	1.57	168.0
Std. Dev.				0.18	0.19	1.14 35	25.08 351	0.33 4.6	51 1441	1.0	0.14	1.92	1,065	0.92	8.81	27.2
Maximum				-2.76	0.80	11.27 349	149.30 2091	1.43 20.0	444 12468	26.5	8.10	25.64	14,192	5.54	79.60	221.9
Minimum				-3.57	-0.03	3.27 101	34.84 488	-0.29 -4.1	128 3586	22.4	7.30	16.68	9,233	0.71	0.02	137.4
n				82	82	82 82	82 82	82 82	82 82	82	82	82	82	82	82	7