NELHA Water Quality Laboratory

Coastal Site C24

10/6/1989 - 12/31/2025

Site	Date	Time	Tide		PO_4^{3-}		$NO_3^- \& NO_2^-$		$NH_4^+ \& NH_3$		Si		TDP		TDN		Turbidity	Salinity	Chloride	Temp.	pH	DO	Chl a	ORP
	(M/D/Y)	-2400	(m)	(cycle)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(mg/L)	(˚C)	(unit)	(ppm)	(µg/L)	(mV)
C24	10/6/89	825	1.7	Ebb	1.87	58	4.43	62	0.28	3.9	327	9184						22.80	12623	26.1	8.20	7.10		
C24	11/7/89	1330	0.8	Ebb	3.68	114	88.8	1244	0.16	2.2	651	18284	3.75	116	92.4	1294		11.92	6599	22.5	8.15	6.89		
C24	12/4/89	1057	0.9	Ebb	3.30	102	89.3	1251	0.07	1.0	663	18621	3.49	108	22.2	311	0.56	9.75	5396	22.4	8.11	7.97		
C24	1/29/90	1115	0.3	Ebb	3.40	105	76.3	1069	0.16	2.2	687	19295	3.50	108	79.3	1111	12.57	9.97	5519	21.2	8.09	7.40		
C24	2/7/90	1305	0.4	Flood	3.40	105	80.8	1132	1.55	21.7	519	14576	3.55	110	83.1	1165	0.00	10.33	5717	21.1	8.12	7.39		
C24	3/12/90	1350	0.5	Flood	2.18	68	54.8	768	0.07	1.0	187	5244	2.39	74	57.1	800	1.33	17.48	9676	22.0	8.18	7.75		
C24	4/3/90	1115	0.5	Flood	3.45	107	93.8	1314	0.07	1.0	660	18536	3.53	109	100	1401	1.06	8.58	4751	21.0	8.01	7.52		
C24	5/8/90	1045	0.3	Flood	2.82	87	86.7	1214	0.07	1.0	629	17666	3.03	94	94.7	1326	1.00	10.13	5607	22.3	8.02	7.29		
C24	5/30/90	1415	0.7	Low	2.89	90	84.2	1179	0.07	1.0	635	17834	3.12	97	92.9	1301	0.02	10.46	5791	21.1	8.01	7.12		
C24	7/9/90	930	0.6	Ebb	2.88	89	76.0	1065	0.07	1.0	365	10251	4.44	138	96.0	1345	0.11	10.03	5554	21.4	8.03	7.27		
C24	8/1/90	1045	1.4	Flood	2.49	77	59.5	833	0.07	1.0	512	14380	2.49	77	63.3	887	0.62	16.87	9339	24.2	8.29	7.80		
C24	9/11/90	1045	2.0	High	0.27	8	1.06	15	0.37	5.2	16.2	455	0.93	29	6.35	89	1.96	34.25	18960	27.9	8.34	6.89		
C24	10/2/90	1120	0.8	Flood	2.30	71	58.5	819	0.07	1.0	620	17415	2.76	85	66.0	925	0.82	16.55	9161	24.1	8.28	7.23		
C24	11/7/90	935	1.8	Ebb	0.72	22	30.9	433	0.20	2.8	242	6805	1.38	43	41.5	581	1.14	25.02	13851	25.5	8.24	6.61		
C24	12/4/90	1130	0.6	Ebb	2.47	77	70.5	987	0.22	3.1	924	25951	2.85	88	72.7	1018	0.61	14.11	7808	21.3	8.02	6.60		
C24	1/8/91	1015	0.9	Ebb	2.91	90	95.1	1332	0.05	0.7	631	17722	3.16	98	99.2	1389	1.26	8.81	4874	21.0	8.04	7.50		
C24	2/12/91	1045	0.2	Low	2.00	62	82.0	1149	0.07	1.0	367	10293	2.05	63	84.5	1184	0.97	9.48	5245	21.6	8.16	7.44		
C24	3/12/91	1049	0.4	Flood	0.77	24	13.7	192	0.33	4.6	124	3485	0.96	30	17.3	242	0.73	30.21	16722	24.5	8.28	7.69	0.08	
C24	4/9/91	1114	0.6	Flood	3.09	96	77.8	1090	0.07	1.0	765	21485	3.13	97	82.4	1154	0.00	10.63	5881	20.9	7.97	7.02		
C24	5/14/91	1023	-0.4	Low	2.63	81	74.6	1045	0.07	1.0	534	14998	3.09	96	83.8	1174	0.20	10.10	5591	21.1	8.03	7.45	0.04	
C24	6/3/91	1252	0.4	Low	2.79	86	81.6	1143	0.07	1.0	641	18008	3.18	98	90.1	1262	0.27	9.13	5053	21.5	8.07	7.39	0.03	
C24	7/8/91	1059	1.2	Flood	0.80	25	23.3	326	0.40	5.6	98.0	2752	1.01	31	26.0	364	0.40	27.28	15100	25.6	8.36	8.53	0.03	
C24	8/7/91	919	0.2	Flood	2.40	74	49.0	686	0.07	1.0	440	12358	2.48	77	54.7	766	0.11	9.90	5481	21.3	7.99	6.92	0.06	
C24	9/4/91	1046	1.5	Flood	0.92	28	24.7	346	0.93	13.0	233	6544	1.13	35	29.3	410	0.22	26.73	14798	26.0	8.32	8.55	0.09	
C24	10/7/91	1151	0.5	Low	2.80	87	89.2	1249	0.02	0.3	579	16262	2.84	88	91.7	1284	0.14	11.77	6517	21.4	7.95	7.15	0.06	
C24	11/5/91	1006	0.5	Low	2.12	66	83.6	1171	0.07	1.0	535	15026	2.14	66	84.7	1186	0.71	13.26	7341	22.4	8.12	7.39	0.03	
C24	12/2/91	1020	0.6	Low	1.82	56	77.1	1080	0.07	1.0	481	13509	1.95	60	80.4	1126	0.71	14.81	8196	22.7	8.16	7.54	0.29	
C24	1/6/92	1017	0.6	Ebb	2.39	74	95.1	1332	0.07	1.0	451	12667	2.39	74	99.2	1389	0.28	12.62	6987	21.2	8.04	7.12	0.07	
C24	2/24/92	1232	0.3	Ebb	0.53	16	34.7	486	0.17	2.4	216	6066	0.68	21	38.1	534	1.01	25.61	14174	24.4	8.32	7.49	0.19	
C24	3/23/92	1100	0.2	Ebb	3.12	97	73.4	1028	0.04	0.6	742	20839	3.31	103	97.7	1369	0.23	9.69	5365	21.1	8.05	7.68	0.20	
C24	4/20/92	1022	-0.1	Low	2.69	83	45.8	642	0.11	1.5	864	24266	2.79	86	101	1421	0.42	10.04	5556	21.3	8.05	7.66	0.07	
C24	5/18/92	1206	0.2	Flood	2.74	85	87.5	1225	0.23	3.2	779	21879	2.78	86	88.5	1240	0.50	12.21	6759	22.4	8.11	8.09	0.19	
C24	6/16/92	1231	0.4	Flood	2.68	83	93.5	1310	0.02	0.3	648	18199	2.78	86	94.0	1316	0.22	10.74	5945	22.0	8.08	7.93	0.16	
C24	7/22/92	1102	1.5	High	1.55	48	48.6	680	0.84	11.8	393	11038	1.72	53	53.5	749	2.47	21.99	12174	25.4	8.28	8.05	0.13	
C24	8/17/92	940	1.1	Ebb	3.09	96	44.8	628	0.07	1.0	190	5336	3.09	96	76.3	1068	0.20	10.74	5944	21.8	8.00	7.66	0.03	
C24	9/8/92	1059	1.0	Flood	0.66	20	1.08	15	0.66	9.2	11.0	309	0.75	23	7.49	105	0.24	18.51	10246	24.3	8.25	8.44	0.21	
C24	10/19/92	1057	2.0	High	1.98	61	63.3	886	0.62	8.7	73.7	2070	2.35	73	63.6	891	2.60	34.32	18995	28.8	8.31	7.47	0.08	

NELHA Water Quality Laboratory

Coastal Site C24

10/6/1989 - 12/31/2025

Site	Date	Time	Tide		PO_4^{3-}		$NO_3^- \& NO_2^-$		$NH_4^+ \& NH_3$		Si		TDP		TDN		Turbidity	Salinity	Chloride	Temp.	pH	DO	Chl a	ORP
	(M/D/Y)	-2400	(m)	(cycle)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(mg/L)	(˚C)	(unit)	(ppm)	(µg/L)	(mV)
C24	11/23/92	1124	0.4	Low	1.88	58	22.2	312	0.38	5.3	35.4	995	2.56	79	65.9	923	0.94	18.37	10166	23.7	8.24	7.86	0.06	
C24	12/21/92	1055	0.4	Low	2.17	67	63.2	885	0.34	4.8	649	18227	3.28	102	72.0	1008	1.02	15.89	8793	22.5	8.23	8.02	0.10	
C24	1/19/93	1016	0.3	Low	2.47	77	94.7	1327	0.54	7.6	221	6204	2.61	81	105	1466	1.02	11.16	6175	21.4	8.13	7.73	0.00	
C24	2/17/93	1041	0.3	Low	0.63	20	39.4	552	0.33	4.6	435	12217	0.63	20	41.0	575	0.19	24.36	13486	23.5	8.33	7.89	0.08	
C24	3/22/93	952	0.0	Low	2.16	67	96.8	1356	0.03	0.4	631	17719	2.17	67	217	3044	0.50	10.36	5733	21.3	8.16	7.81	0.13	
C24	4/19/93	1040	0.3	Flood	1.62	50	71.1	995	0.25	3.5	566	15888	1.86	58	72.7	1019	0.33	16.10	8913	22.7	8.30	8.70	0.20	
C24	5/17/93	939	0.3	Flood	1.83	57	74.5	1043	0.31	4.3	593	16649	2.13	66	81.4	1141	0.22	14.75	8164	22.0	8.22	8.22	0.08	
C24	6/14/93	1013	1.0	Flood	0.69	21	15.6	219	0.60	8.4	109	3050	0.81	25	18.7	262		30.09	16656	25.9	8.33	7.97	0.36	
C24	8/17/93	1040	0.2	Flood	2.78	86	92.2	1291	0.15	2.1	237	6659	2.78	86	98.4	1379	0.54	11.37	6296	22.0	8.10	7.76	0.15	
C24	12/21/93	1102	1.0	Ebb	0.46	14	33.7	471	0.44	6.2	204	5734	0.62	19	39.6	554	0.12	25.96	14367	24.0	8.24	7.70	0.11	
C24	2/23/94	1117	0.3	Flood	1.73	54	55.4	776	0.33	4.6	389	10925	1.93	60	85.9	1204	0.51	18.72	10361	22.9	8.26	7.88	0.09	
C24	5/24/94	1028	-0.2	Flood	2.02	63	69.7	976	0.33	4.6	460	12917	2.05	63	73.9	1035	0.29	17.08	9453	23.1	8.26	8.64	0.27	
C24	7/25/94	1120	0.3	Low	2.74	85	51.4	719	0.43	6.0	105	2939	2.66	82	103	1439	0.29	11.74	6500	22.5	8.11	7.92	0.00	
C24	10/18/94	1116	0.6	Low	2.78	86	90.2	1264	0.09	1.3	593	16649	2.75	85	88.9	1245	0.50	11.86	6567	22.3	8.13	8.29	0.18	
C24	2/21/95	1137	0.5	Ebb	2.68	83	91.7	1284	0.20	2.8	712	19988	2.68	83	97.7	1369	0.10	10.97	6069	21.5	8.13	7.96	0.11	
C24	4/19/95	1125	0.1	Low	2.67	83	93.3	1307	0.49	6.9	707	19856	2.66	82	100	1403	0.24	10.93	6052	22.0	8.15	8.02	0.13	
C24	8/8/95	1146	1.1	Flood	0.42	13	4.60	64	0.92	12.9	53.7	1507	0.63	20	11.6	162	0.66	32.63	18059	27.4	8.35	8.04	0.22	
C24	10/23/95	1027	0.3	Low	2.86	89	90.0	1260	0.64	9.0	58.6	1646	2.87	89	99.6	1395	0.19	11.81	6534	21.9	8.08	7.80	0.29	
C24	3/6/96	1115	0.0	Low	1.84	57	95.1	1332	0.36	5.0	600	16851	2.00	62	93.3	1307	0.20	10.13	5605	22.0	8.17	7.61	0.05	
C24	5/7/96	1129	0.0	Low	3.13	97	95.9	1343	0.23	3.2	614	17250	3.10	96	102	1426	0.64	10.52	5821	22.4	8.01	7.56	0.05	
C24	8/21/96	1110	1.6	Ebb	1.03	32	36.5	511	1.27	17.8	225	6313	1.18	37	39.7	556	0.34	25.56	14150	27.6	8.30	7.93	0.17	
C24	10/7/96	1116	1.6	Flood	0.15	5	0.80	11	1.00	14.0	22.5	633	0.37	11	7.29	102	0.22	34.24	18955	29.0	8.34	7.43	0.24	
C24	1/8/97	1045	0.1	Low	2.15	67	70.0	980	0.22	3.1	469	13178	2.19	68	76.0	1064	0.54	13.40	7416	22.6	8.21	7.78	0.42	
C24	4/29/97	1051	0.6	High	2.55	79	42.1	590	0.78	10.9	307	8619	2.70	84	39.9	559	0.22	23.62	13076	24.8	8.35	7.90	0.10	
C24	8/20/97	1147	0.2	Low	2.67	83	93.7	1313	0.75	10.5	552	15503	2.70	84	104	1460	1.21	11.78	6518	22.5	8.29	7.82	0.16	
C24	10/8/97	1028	1.8	Ebb	0.92	28	30.4	426	0.72	10.1	193	5421	1.11	34	33.3	466	0.15	27.08	14992	26.9	8.50	7.54	0.26	
C24	3/2/98	1131	0.3	Ebb	2.84	88	103	1447	0.29	4.1	643	18051	3.02	94	110	1535	0.27	10.40	5756	21.5	8.26	7.75	0.00	
C24	5/6/98	1118	0.6	Flood	2.52	78	83.6	1171	0.51	7.1	489	13742	2.59	80	87.7	1228	0.14	14.95	8274	21.7	8.21	8.30	0.10	
C24	7/8/98	1141	0.9	Flood	2.21	68	69.8	978	0.82	11.5	442	12411	2.22	69	78.6	1101	0.25	17.49	9682	23.7	8.28	8.91	0.14	
C24	10/7/98	1045	0.4	Ebb	2.81	87	99.7	1397	0.42	5.9	559	15711	2.92	90	104	1453	0.15	12.88	7127	22.8	8.04	7.87	0.11	
C24	1/20/99	1110	0.6	Ebb	1.80	56	86.9	1217	0.26	3.6	462	12978	1.89	59	87.4	1224	0.31	15.98	8844	22.5	8.16	7.80	0.12	
C24	4/7/99	1142	0.4	Ebb	1.36	42	75.8	1062	0.31	4.3	378	10628	1.46	45	78.3	1097	0.29	18.26	10110	23.1	8.30	8.54	0.24	
C24	7/12/99	1035	0.2	Flood	2.94	91	105	1476	0.46	6.4	598	16781	3.01	93	110	1534	0.31	11.15	6172	21.9	8.05	7.83	0.24	
C24	10/11/99	1103	0.5	Low	2.28	71	96.6	1353	0.43	6.0	557	15644	2.46	76	103	1443	0.27	12.32	6817	22.2	8.17	8.02	0.20	
C24	3/20/00	1130	0.0	Flood	2.54	79	22.0	308	0.33	4.6	547	15368	2.30	71	112	1572	0.27	11.29	6252	21.5	8.13	7.97	0.30	
C24	4/18/00	1127	0.2	Flood	2.86	89	98.6	1381	0.43	6.0	559	15694	2.30	71	105	1466	0.23	12.44	6888	23.4	8.17	8.22	0.20	
C24	8/2/00	1048	0.2	Low	2.83	88	81.8	1146	0.24	3.4	560	15731	2.95	91	90.8	1272	0.27	13.00	7197	21.6	7.97	7.08	0.13	

NELHA Water Quality Laboratory

Coastal Site C24

10/6/1989 - 12/31/2025

Site	Date	Time	Tide		PO_4^{3-}		$NO_3^- \& NO_2^-$		$NH_4^+ \& NH_3$		Si		TDP		TDN		Turbidity	Salinity	Chloride	Temp.	pH	DO	Chl a	ORP
	(M/D/Y)	-2400	(m)	(cycle)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(mg/L)	(˚C)	(unit)	(ppm)	(µg/L)	(mV)
C24	10/23/00	1126	1.7	Flood	0.21	7	0.77	11	0.52	7.3	37.6	1056	0.48	15	7.04	99	0.20	34.54	19119	26.9	8.36	7.54	0.26	
C24	1/23/01	1118	0.3	Low	2.43	75	95.7	1340	0.32	4.5	572	16073	2.45	76	101	1408	0.26	12.39	6858	25.2	8.13	7.47	0.13	
C24	4/16/01	1105	0.5	Flood	2.25	70	50.3	705	0.33	4.6	503	14119	2.48	77	89.1	1248	0.09	14.97	8286	22.9	8.20	8.54	0.18	
C24	9/12/01	1125	2.1	Flood	0.14	4	0.38	5	0.35	4.9	14.6	411	0.30	9	6.25	88	0.25	34.76	19240	28.2	8.30	7.65	0.42	
C24	10/23/01	1135	1.7	Ebb	1.53	47	56.6	793	0.58	8.1	334	9383	1.63	50	58.3	817	0.11	22.07	12216	25.0	8.23	8.08	0.32	
C24	1/14/02	1153	0.2	Low	2.46	76	96.7	1354	0.20	2.8	587	16492	2.28	71	88.2	1236	0.23	11.97	6626	21.8	8.05	6.40	0.06	
C24	5/20/02	1150	0.9	High	1.74	54	67.3	943	0.70	9.8	412	11580	1.88	58	60.2	843	0.13	18.95	10489	24.1	8.25	8.66	0.16	
C24	8/19/02	1153	1.7	Flood	0.28	9	2.63	37	0.47	6.6	29.2	820	0.52	16	8.68	122	0.14	33.75	18679	27.9	8.32	7.76	0.10	
C24	10/10/02	1134	1.1	Ebb	2.20	68	77.9	1091	0.77	10.8	475	13327	2.39	74	78.0	1093	0.36	16.24	8989	23.8	8.15	7.52	0.13	
C24	3/17/03	1112	-0.1	Flood	2.12	66	93.6	1311	0.60	8.4	562	15778	2.24	69	109	1527	0.60	12.34	6831	22.6	8.18	8.17	0.50	
C24	4/24/03	1142	0.5	Flood	2.16	67	92.6	1297	0.75	10.5	517	14520	2.28	71	99.7	1396	0.18	14.61	8089	23.2	8.30	8.54	0.09	
C24	8/25/03	1050	0.9	Flood	2.05	63	78.3	1097	0.75	10.5	467	13102	2.15	67	107	1496	0.20	17.02	9420	24.0	8.25	8.77	0.41	
C24	10/27/03	1208	0.4	Ebb	2.41	75	50.4	706	0.54	7.6	278	7819	2.71	84	72.7	1018	0.23	13.68	7571	23.3	8.10		0.14	
C24	12/5/03	1052	0.8	Flood																		8.12		
C24	2/9/04	1155	0.0	Ebb	2.52	78	108	1511	0.24	3.4	584	16405	2.49	77	115	1611	0.52	12.08	6686	22.1	8.05	7.84	0.13	
C24	6/3/04	1145	0.1	Flood	1.67	52	65.6	919	0.94	13.2	367	10296	1.77	55	81.7	1145	0.54	19.45	10766	25.1	8.31	8.64	0.02	
C24	8/31/04	1106	0.2	Low	1.88	58	79.9	1119	0.58	8.1	423	11891	1.82	56	80.6	1129	0.19	17.30	9576	24.3	8.26	8.00	0.16	
C24	12/1/04	1032	1.6	Ebb	0.86	27	36.3	508	0.68	9.5	180	5044	1.08	33	43.7	612	0.26	26.98	14934	25.6	8.32	7.40	0.21	
C24	3/17/05	1112	0.3	Ebb	2.11	65	105	1468	0.53	7.4	566	15899	2.24	69	111	1548	0.14	11.33	6270	24.7	8.35	8.82	0.18	
C24	4/14/05	1154	0.2	Ebb	0.88	27	27.6	386	0.78	10.9	162	4553	1.08	33	33.1	463	0.31	28.20	15609	25.7	8.42	8.18	0.25	
C24	7/26/05	1132	1.1	Ebb	1.51	47	60.6	849	0.50	7.0	298	8375	1.59	49	76.4	1070	0.22	22.89	12669	25.6	8.34	7.93	0.06	
C24	8/8/05	926	0.7	Ebb														16.13	8927	22.7				
C24	10/31/05	1043	0.6	Flood	2.31	72	98.2	1375	0.93	13.0	454	12742	2.42	75	105	1471	0.25	13.37	7400	23.5	8.25	8.14	0.27	
C24	1/25/06	1126	0.4	Flood	2.51	78	115	1615	0.52	7.3	545	15307	2.53	78	110	1539	0.22			22.4	8.23	8.44	0.27	
C24	4/17/06	1115	-0.2	Low	2.73	85	124	1737	0.33	4.6	561	15756	2.94	91	121	1688	0.35	12.59	6969	24.9	8.13	8.37	0.30	
C24	7/26/06	1233	0.6	Flood	2.35	73	78.7	1102	0.88	12.3	430	12077	2.40	74	72.6	1016	0.97	18.43	10199	23.8	8.24	9.17	0.22	
C24	11/21/06	1123	0.4	Low	2.94	91	122	1709	0.44	6.2	543	15250	2.95	91	108	1517	0.22	13.48	7462	22.4	8.06	7.82	0.27	
C24	1/18/07	1201	0.2	Flood	1.56	48	80.0	1121	0.78	10.9	368	10335	1.64	51	81.6	1143	0.39	20.12	11136	23.8	8.32	8.64	0.26	
C24	6/25/07	1127	1.5	Flood	0.93	29	29.45	413	0.92	12.9	140	3931	1.95	60	31.01	434	0.29	28.73	15901	26.7	8.44	9.71	0.31	
C24	2/1/08	1334	0.5	High	3.0	93	107	1497	0.48	6.7	605	16989	2.5	77	102	1425	0.41	10.76	5956	21.7	7.99	8.30		
C24	2/20/09	1105	0.3	Flood	2.1	66	55.3	775	0.45	6.3	222	6239	2.4	74	131	1832	0.19	14.96	8281	22.5	8.00	7.63	0.02	
C24	3/30/09	1000	0.3	Ebb	2.0	63	93	1297	1.22	17.1	321	9028	3.4	104	97	1353	0.65	13.79	7633	22.4	7.78	6.62	0.05	
C24	4/27/09	1356	0.3	Flood	1.3	41	55	777	3.15	44.1	221	6199	1.9	58	80	1117	0.48	25.09	13888	25.0	8.42	6.21	0.05	
C24	5/14/09	946	0.4	Ebb	3.4	106	125	1747	1.02	14.3	504	14154	3.2	100	119	1671	0.34	13.45	7445	22.7	7.94	6.75	0.13	
C24	6/12/09	816	0.6	High	1.7	53	108	1513	0.99	13.9	408	11447	2.1	66	122	1705	0.34	15.76	8724	23.3	8.06	6.48	0.18	
C24	7/10/09	901	0.3	Ebb	2.5	76	84	1182	0.72	10.1	375	10536	6.3	196	87	1222	1.35	12.61	6980	22.3	8.01	6.54	0.09	
C24	8/27/09	822	1.8	High	3.2	100	139	1951	0.48	6.7	493	13854	3.2	98	140	1966	0.22	11.06	6122	22.3	8.16	6.11	0.08	

NELHA Water Quality Laboratory

Coastal Site C24

10/6/1989 - 12/31/2025

Site	Date	Time	Tide		PO_4^{3-}		$NO_3^- \& NO_2^-$		$NH_4^+ \& NH_3$		Si		TDP		TDN		Turbidity	Salinity	Chloride	Temp.	pH	DO	Chl a	ORP
	(M/D/Y)	-2400	(m)	(cycle)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(mg/L)	(˚C)	(unit)	(ppm)	(µg/L)	(mV)
C24	9/17/09	906	0.2	Flood	3.0	92	111	1559	0.49	6.8	384	10788	2.8	86	115	1615	0.29	12.24	6775	22.5	8.32	6.03	0.23	
C24	10/22/09	908	1.9	Ebb	1.6	50	63	885	2.41	33.7	120	3368	1.8	56	66	924	0.54	23.48	12997	23.8	7.96	6.42	1.57	
C24	11/19/09	1010	1.7	Ebb	3.0	94	115	1608	0.79	11.0	410	11515	2.9	91	116	1630	0.21	15.01	8308	22.4	7.89	5.62	0.51	
C24	12/7/09	754	2.0	High	0.3	8	1	10	1.07	15.0	24	688	0.5	15	9	133	0.24	34.89	19313	24.8	8.19	6.52	0.76	
C24	1/4/10	1343	0.0	Low	2.9	90	126	1768	0.49	6.9	505	14189	2.8	87	127	1784	0.50	13.38	7406	21.9	7.70	7.18	1.26	
C24	2/2/10	1329	-0.2	Low	2.5	78	130	1814	1.39	19.4	524	14707	2.4	75	130	1827	0.55	12.75	7057	21.9	7.79	6.91	0.55	
C24	3/10/10	1245	0.7	High	3.4	105	124	1736	0.19	2.7	417	11703	3.2	98	124	1740	0.44	12.51	6925	21.8	7.99	6.50	0.64	
C24	4/5/10	947	0.4	High	3.4	105	112.0	1568	0.69	9.6	564	15850	3.2	98	113	1578	0.11	13.18	7295	21.8	8.10	7.53	0.06	
C24	5/12/10	1224	1.5	Flood	1.1	34	37.7	528	2.82	39.5	200	5605	1.3	40	39	553	0.17	28.18	15598	26.1	8.20	6.40	0.07	
C24	6/21/10	959	1.3	Flood	0.6	18	13.0	182	0.89	12.4	84	2369	1.0	30	19	268	0.25	32.37	17918	25.7	8.29	7.58	0.45	
C24	7/12/10	951	-0.1	Low	3.9	119	157.2	2201	2.13	29.8	622	17471	3.6	113	158	2207	0.42	12.34	6831	22.6	7.94	6.07	0.08	
C24	8/2/10	1205	1.3	Ebb	1.7	53	69.1	967	0.84	11.7	326	9160	1.8	57	74	1041	0.91	22.24	12310	26.3	8.20	7.40	0.26	
C24	9/1/10	1038	1.8	Flood	0.4	12	8.4	117	0.88	12.3	68	1910	0.7	21	19	272	0.16	32.51	17995	27.2	8.31	8.25	0.18	
C24	10/19/10	1100	1.1	Flood	1.4	44	61.4	860	0.91	12.7	303	8510	1.6	49	64	896	0.20	22.71	12571	24.6	8.28	8.22	0.18	
C24	11/3/10	935	0.5	Low	2.2	69	100.7	1411	0.76	10.6	472	13259	2.3	71	107	1497	0.64	18.27	10113	23.4	8.16	7.45	0.12	
C24	12/6/10	918	0.8	Ebb	3.1	95	122.9	1722	0.64	8.9	587	16477	3.0	92	125	1758	0.06	13.57	7511	21.9	7.94	6.68	0.09	
C24	1/26/11	953	0.8	Ebb	0.2	6	0.9	13	0.31	4.3	11	313	0.6	19	7	99	0.46	34.53	19113	25.3	8.23	6.36	0.17	
C24	4/13/11	936	0.3	Flood	3.1	97	127.2	1781	0.40	5.6	587	16493	3.2	101	128	1791	0.48	12.30	6808	22.1	8.07	7.60	0.17	
C24	7/18/11	900	0.7	Ebb	3.2	99	116.2	1627	0.57	8.0	545	15293	3.2	99	120	1686	0.27	14.21	7866	21.9	7.89	7.23	0.12	
C24	10/5/11	936	1.4	Flood	0.1	4	0.6	9	1.57	22.0	9	248	0.5	15	5	68	0.07	35.02	19384	27.0	8.17	6.82	0.21	
C24	1/17/12	810	0.7	Flood	2.4	74	102.3	1433	0.49	6.9	455	12771	2.4	74	107	1494	0.23	18.18	10063	21.8	7.94	7.09	0.06	
C24	4/19/12	1028	0.3	Flood	3.2	100	133.2	1866	0.69	9.7	587	16487	3.2	99	136	1900	0.07	12.59	6969	21.7	7.97	7.23	0.02	
C24	7/1/12	1058	1.2	Ebb	2.9	88	122.6	1718	0.78	10.9	516	14484	2.8	87	122	1706	0.10	14.41	7976	22.4	8.03	8.01	0.03	
C24	10/8/12	1026	1.8	High	0.9	27	32.4	454	1.35	18.9	139	3917	1.3	39	39	542	0.20	30.33	16788	26.7	8.24	7.64	0.10	
C24	1/1/13	1028	1.2	Ebb	0.6	18	34.8	488	1.66	23.2	125	3498	0.9	28	40	563	0.09	29.65	16412	24.8	8.24	6.63	0.17	
C24	4/1/13	1008	0.4	Ebb	2.7	83	107.1	1500	0.69	9.6	421	11837	2.7	83	107	1501	1.26	16.97	9393	22.4	8.11	8.12	0.11	
C24	7/8/13	937	-0.1	Low	4.0	123	156.3	2189	1.27	17.8	575	16139	3.8	116	158	2212	0.84	12.82	7096	21.9	7.83	6.63	0.02	
C24	10/10/13	1036	1.8	Ebb	3.1	95	99.0	1386	0.74	10.4	433	12161	3.1	95	101	1411	0.13	19.78	10949	23.8	8.08	7.47	0.07	
C24	1/22/14	845	0.7	High	0.9	28	39.1	548	0.71	10.0	142	3989	1.1	35	45	624	0.02	29.72	16451	23.9	8.02	6.35	0.12	
C24	4/9/14	1024	0.7	Flood	3.1	96	133.9	1876	1.02	14.3	534	15012	2.9	91	142	1985	0.40	11.58	6410	22.6	7.92	7.25	0.06	
C24	7/16/14	1042	0.5	Ebb	2.2	69	107.1	1501	1.50	21.0	388	10899	2.2	68	105	1466	0.17	18.44	10207	24.5	8.05	7.29	0.25	
C24	10/15/14	1213	1.5	Ebb	2.1	66	86.6	1213	0.93	13.0	371	10431	2.2	68	91	1271	0.10	17.09	9460	25.0	8.17	7.49	0.06	
C24	2/3/15	900	0.5	Ebb	2.7	83	138.5	1940	1.01	14.2	549	15422	3.3	102	148	2079	0.35	12.29	6803	22.2	8.13	7.30	0.09	
C24	5/5/15	1552	2.0	High	0.3	10	0.7	10	1.78	24.9	6	177	1.0	32	10	134	0.35	34.37	19025	26.5	8.16	7.10	0.26	
C24	7/10/15	1035	1.4	Flood	0.8	24	7.8	109	1.41	19.8	60	1695	1.2	37	28	397	0.36	32.19	17818	27.8	8.16	8.00	0.18	
C24	11/5/15	946	1.3	Flood	0.6	20	25.1	351	0.48	6.7	99	2784	1.1	34	37	520	0.16	29.97	16589	27.3	8.24	7.55	0.37	
C24	1/19/16	1007	-0.2	Low	1.9	58	101.7	1424	0.49	6.9	335	9395	2.0	61	100	1400	0.28	20.07	11109	23.8	8.19	7.17	0.14	

NELHA Water Quality Laboratory

Coastal Site C24

10/6/1989 - 12/31/2025

Site	Date	Time	Tide		PO_4^{3-}		$NO_3^- \& NO_2^-$		$NH_4^+ \& NH_3$		Si		TDP		TDN		Turbidity	Salinity	Chloride	Temp.	pH	DO	Chl a	ORP
	(M/D/Y)	-2400	(m)	(cycle)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(mg/L)	(˚C)	(unit)	(ppm)	(µg/L)	(mV)
C24	4/12/16	1147	0.2	Ebb	3.4	104	112.6	1577	0.22	3.1	427	12001	3.3	103	111	1549	0.49	13.97	7733	22.7	8.06	6.94	0.25	
C24	7/14/16	1118	1.5	Flood	0.5	15	8.8	123	1.76	24.7	40	1110	0.7	21	17	234	0.41	32.98	18255	27.6	8.43	8.60	0.70	
C24	10/20/16	1037	1.1	Ebb	4.3	132	141.4	1981	1.01	14.1	575	16140	4.4	137	145	2033	0.16	21.92	12133	25.1	8.29	7.05	0.44	
C24	2/23/17	1045	0.5	Flood	2.8	86	108.5	1520	0.17	2.4	478	13420	2.9	89	120	1681	0.46	16.10	8912	22.6	8.00	7.50	0.01	
C24	4/10/17	1023	0.0	Flood	3.6	113	140.3	1966	0.24	3.4	558	15684	3.7	115	140	1963	0.18	12.04	6664	22.2	7.90	6.82	0.07	
C24	7/13/17	1049	0.2	Low	3.5	109	124.2	1740	0.31	4.3	534	14991	3.3	103	111	1557	0.69	13.80	7639	22.1	7.96	5.61	0.11	
C24	10/12/17	1026	2.0	High	0.2	7	0.5	7	1.03	14.4	7	203	0.5	14	3	49	0.29	34.75	19235	28.6	8.23	6.39	0.38	
C24	1/11/18	1016	1.0	Flood	0.1	3	1.9	26	0.46	6.4	15	433	0.4	12	5	70	0.18	34.27	18969	25.1	8.21	6.89	0.20	
C24	4/24/18	1027	0.8	Flood	1.1	34	36.7	513	2.33	32.7	175	4926	1.4	44	42	591	0.39	27.66	15311	24.7	8.22	7.34	0.32	
C24	7/12/18	954	-0.3	Low	2.6	80	100.7	1411	0.39	5.4	382	10739	2.7	83	106	1478	0.15	24.86	13761	24.7	8.20	7.73	0.34	
C24	10/11/18	948	0.6	Ebb	1.1	34	50.9	714	1.43	20.0	200	5604	1.3	39	54	750	0.37	26.30	14558	26.4	8.16	5.04	0.42	
C24	1/15/19	946	1.3	High	0.2	5	0.9	13	0.43	6.0	11	319	0.3	11	5	71	0.47	34.48	19086	24.3	8.15	6.18	0.39	
C24	4/25/19	924	0.5	Ebb	1.8	57	70.8	991	0.27	3.8	274	7699	1.9	60	75	1045	0.20	25.54	14137	24.8	8.15	7.89	0.42	
C24	7/17/19	937	-0.1	Low	2.2	67	97.9	1372	0.66	9.3	351	9869	2.2	68	95	1331	0.21	19.84	10982	25.1	8.16	6.61	0.31	
C24	10/8/19	1014	1.2	Flood	1.1	34	54.4	762	0.76	10.6	179	5035	1.3	40	57	792	0.28	27.91	15449	27.0	8.18	8.58	0.42	
C24	1/9/20	957	0.4	Low	3.2	100	132.3	1853	0.45	6.3	459	12884	3.0	92	132	1856	0.30	19.50	10794	23.0	7.98	6.55	0.13	
C24	5/21/20	1114	0.5	Flood	2.8	88	109.2	1530	0.57	8.0	423	11882	2.4	75	114	1594	0.28	18.64	10318	23.8	8.14	8.68	0.64	
C24	7/14/20	1022	0.4	Flood	1.8	56	52.7	738	0.56	7.9	219	6139	1.8	55	54	753	0.25	24.80	13727	25.5	8.19	9.29	0.55	
C24	10/14/20	952	0.2	Flood	3.2	99	109.1	1529	0.71	10.0	421	11827	2.8	88	109	1526	0.27	16.98	9399	23.1	8.06	8.39	0.80	
C24	1/14/21	927	0.9	Ebb	1.0	31	55.1	771	0.34	4.7	170	4767	1.2	38	58	811	0.59	29.74	16462	25.3	8.13	7.42	0.46	
C24	4/13/21	1001	-0.2	Low	2.5	76	113.3	1588	0.24	3.3	393	11024	2.5	79	111	1560	0.48	18.65	10323	23.9	8.13	9.74	0.46	
C24	7/1/21	1421	0.6	Low	0.2	6	1.3	19	0.74	10.4	12	338	0.2	6	10	142	1.06	34.33	19003	27.6	8.24	8.47	0.36	
C24	10/19/21	1320	1.5	Flood	2.3	71	91.8	1285	1.27	17.8	317	8890	2.4	74	92	1294	0.72	22.03	12194	25.0	8.14	9.78	1.51	
C24	2/3/22	1001	0.7	Ebb	1.3	40	81.3	1139	0.53	7.4	276	7756	1.3	41	91	1270	0.28	22.66	12543	24.1	8.11	7.95	0.44	
C24	4/12/22	1044	0.7	Flood	2.7	84	128.9	1805	0.61	8.5	441	12389	2.8	88	139	1948	0.31	16.46	9111	23.7	8.15	10.12	1.32	
C24	7/21/22	1045	1.5	High	1.1	35	71.5	1001	0.91	12.8	246	6913	1.2	36	75	1054	0.63	24.34	13473	25.3	8.19	8.95	0.84	
C24	10/12/22	946	0.2	Low	1.7	53	90.2	1263	0.50	7.0	302	8470	1.9	58	88	1233	0.41	21.67	11995	25.5	8.12	8.29	1.49	
C24	1/17/23	1001	1.0	High	0.2	7	6.5	91	0.90	12.6	34	967	0.3	9	13	181	0.27	33.43	18504	25.3	8.22	8.72	0.35	
C24	4/21/23	1015	-0.2	Flood	3.0	92	150.3	2106	0.31	4.3	503	14140	3.0	93	153	2140	1.26	12.96	7174	23.3	8.17	9.50	1.50	
C24	7/12/23	1548	1.4	Ebb	0.5	15	23.3	326	0.74	10.3	76	2148	0.6	18	35	490	1.35	31.38	17370	27.3	8.21	7.62	0.30	
C24	10/24/23	1537	1.5	Ebb	0.6	19	29.9	419	0.97	13.6	98	2753	0.8	24	37	525	0.75	30.49	16877	27.6	8.19	7.25	0.34	
C24	1/11/24	1432	1.0	High	1.0	30	84.6	1184	0.68	9.5	251	7036	1.0	31	89	1240	0.45	24.29	13445	24.6	8.26	8.66	0.43	136.2
C24	4/2/24	1458	0.1	Low	1.4	42	92.9	1301	0.55	7.7	299	8398	1.4	42	98	1374	0.95	20.97	11607	24.4	8.29	9.21	0.35	220.3
C24	7/24/24	955	0.1	Low	2.2	67	129.8	1818	0.39	5.4	411	11536	2.2	68	125	1755	0.31	15.72	8701	23.6	8.11	8.18	0.26	200.4
C24	10/4/24	1003	0.4	Low	2.9	88	137.0	1919	0.57	8.0	436	12254	2.8	86	139	1940	0.95	15.57	8618	23.3	8.03	8.01	0.65	298.9
C24	1/7/25	928	1.4	High	0.1	4	0.9	13	0.23	3.2	14	390	0.4	13	8	117	0.83	34.76	19241	25.7	7.10	7.01	0.32	246.2
C24	4/1/25	1046	-0.3	Low	3.2	98	164.4	2303	0.51	7.1	497	13970	2.9	88	163	2278	0.62	12.19	6747	23.4	8.04	8.34	0.54	240.3

NELHA Water Quality Laboratory

Coastal Site C24

10/6/1989 - 12/31/2025

Site	Date	Time	Tide		PO_4^{3-}		$NO_3^- \& NO_2^-$		$NH_4^+ \& NH_3$		Si		TDP		TDN		Turbidity	Salinity	Chloride	Temp.	pH	DO	Chl a	ORP
	(M/D/Y)	-2400	(m)	(cycle)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(mg/L)	(˚C)	(unit)	(ppm)	(µg/L)	(mV)
C24	7/23/25	1515	0.8	High	0.2	5	1.0	14	1.17	16.4	7	183	0.4	12	11	156	1.19	34.65	19180	27.8	8.21	7.70	0.63	152.9
C24	10/13/25	908	2.0	High	0.1	3	3.4	47	1.58	22.2	4	125	0.2	6	3	36	0.62	34.81	19268	27.1	8.05	7.27	0.48	212.9
Mean					2.01	62	72.7	1018	0.62	8.7	376	10557	2.2	67	80	1118	0.51	19.12	10582	23.8	8.15	7.65	0.26	213.5
Std. Dev.					1.02	32	41.0	575	0.51	7.1	215	6050	1.0	31	41	570	0.98	8.05	4458	2.0	0.16	0.82	0.29	52.0
Maximum					4.27	132	164.4	2303	3.15	44.1	924	25951	6.3	196	217	3044	12.57	35.02	19384	29.0	8.50	10.12	1.57	298.9
Minimum					0.09	3	0.38	5	0.02	0.3	4	125	0.2	6	3	35.6	0.00	8.58	4751	20.9	7.10	5.04	0.00	136.2
n					185	185	185	185	185	185	185	185	184	184	184	184	182	185	185	186	185	185	166	8