Site C0014, Table T8. Composition of interstitial pore water, Site C0014.

Core, section, Interval (cm)	Depth (mbsf)	Volume (mL)	Refractive index	pH	Alkalinity (mM)	Cl (mM)	Phosphate (μM)	NH_4 (mM)	Si (mM)*	Br (mM)	SO_4 (mM)	Na (mM)	Na_{charge}	Difference (%)	Na/Cl	K (mM)	Mg (mM)	Ca (mM)	Zn (μM)	Rb (μM)	Mo (nM)	Cs (nM)	U (nM)	DIC (mM)	Boron (μM)	Ba (μM)	Fe (μM)	Li (μM)	Mn (μM)	Si (μM)†	Sr (μM)
331-C0014B-																															
1H-1, 25–35	0.25	44.5	1.33936	7.43	2.329	544.8	2.6	0.01	0.56	0.856	29.09	470	469	0.11	0.863	11.7	51.7	10.4	0.324	1.87	398	7	17	2.5	461	0.46	1.0	46.8	4.1	DNU	84.8
1H-1, 112–122	1.12	43.5	1.33939	7.40	3.305	548.1	2.9	0.02	0.44	1.084	31.80	473	480	1.39	0.864	11.3	51.3	10.5	0.313	1.45	218	4	17	3.8	550	0.62	0.9	49.7	7.2	DNU	86.2
1H-2, 100–110	2.42	48.5	1.33951	7.02	32.681	534.7	26.4	0.05	1.58	0.896	16.37	460	460	0.07	0.861	11.8	51.3	12.8	0.154	2.49	3	5	6	30.8	525	1.20	0.7	61.6	18.4	DNU	92.8
1H-3, 92–105	3.73	47.5	1.33952	6.97	45.355	552.6	23.5	0.13	0.91	0.881	8.88	464	470	1.29	0.840	13.9	52.7	13.1	0.132	4.21	3	24	32	40.9	505	1.37	1.0	91.8	13.2	0.90	95.7
1H-4, 100–110	5.23	51.5	1.33949	7.18	43.348	552.2	18.7	0.24	1.03	0.883	8.79	462	464	0.37	0.837	17.0	50.7	15.5	0.415	6.08	4	87	28	41.4	550	1.25	1.0	151.9	8.5	1.04	97.8
1H-5, 65–75	6.29	51.5	1.33946	6.82	40.210	554.2	14.2	0.30	1.11	0.895	9.41	458	465	1.40	0.827	18.2	48.3	16.8	0.180	8.17	5	147	19	—	597	1.51	0.9	187.3	9.4	1.09	97.7
2H-3, 10–20	8.67	51.5	—	6.77	8.978	545.1	3.6	0.09	1.71	0.877	25.48	466	467	0.21	0.854	12.3	51.0	12.0	0.202	6.77	166	294	87	9.1	459	0.79	4.1	91.8	14.0	DNU	85.3
2H-7, 40–50	12.79	21.5	1.33896	6.54	11.538	556.6	2.4	1.37	2.11	0.925	3.15	441	445	0.96	0.792	53.8	17.7	20.2	0.092	80.27	1	2783	14	12.7	1413	4.34	3.3	1280.6	187.3	2.04	89.6
2H-10, 20–30	15.13	25.5	1.33897	6.94	11.958	554.4	2.3	1.43	2.35	0.970	1.31	436	437	0.22	0.787	55.4	16.8	21.3	0.047	75.41	3	2324	4	12.3	1407	8.17	15.6	1287.3	196.8	2.31	90.0
3H-2, 52–62	17.36	18.5	1.33896	6.85	10.830	553.7	1.3	1.47	1.97	0.956	2.10	436	434	0.49	0.788	54.0	17.4	23.0	0.099	77.15	BD	3086	15	10.7	1505	9.54	11.5	1365.8	211.6	1.90	95.3
3H-5, 20–30	20.06	21.0	1.33896	7.00	10.566	553.6	1.6	1.47	2.12	0.953	1.10	430	433	0.55	0.777	54.2	16.2	23.6	1.356	69.99	BD	2262	1	10.2	1542	16.90	14.3	1392.3	229.8	2.07	98.0
3H-7, 88–99	22.77	22.5	1.33898	6.67	11.149	556.9	1.9	1.54	1.86	0.946	0.98	437	436	0.33	0.785	57.0	14.9	23.6	0.178	61.06	9	903	4	11.4	1391	18.91	15.5	1372.6	238.7	1.80	92.8
3H-9, 67.5–77.5	24.96	43.0	1.33896	6.59	10.569	555.2	5.5	1.55	1.68	0.988	0.90	436	434	0.32	0.785	57.5	14.3	23.6	0.138	53.20	21	470	2	11.7	1420	21.20	10.8	1347.6	220.5	1.67	91.5
4H-2, 35–45	26.42	27.0	1.33906	6.87	14.217	558.3	—	1.50	1.97	0.980	1.67	433	432	0.23	0.776	58.2	17.4	25.2	0.067	62.04	10	496	2	—	1496	24.61	10.8	1322.6	100.5	1.85	94.5
4H-3, 37–47	27.84	29.0	1.33901	6.67	11.939	551.2	6.7	1.48	2.37	0.982	1.33	434	429	1.23	0.788	57.9	15.0	24.5	0.109	60.08	14	438	2	—	1610	25.85	7.6	1323.7	119.9	2.29	92.8
4H-4, 35–45	29.23	39.0	1.33901	7.26	16.979	551.3	3.1	1.59	1.97	0.963	0.81	432	425	1.65	0.783	60.5	16.3	26.0	0.383	75.26	4	1173	2	—	1470	24.61	0.6	1324.1	89.2	1.87	91.5
4H-6, 103–113	31.57	39.0	1.33877	6.82	16.456	529.5	1.7	1.72	2.39	0.941	<1	404	403	0.40	0.763	63.3	13.3	26.7	0.036	73.04	19	671	1	—	1584	35.96	9.2	1344.9	112.8	2.34	90.4
4H-7, 111–121	33.04	32.0	1.33873	7.36	15.313	529.2	2.9	1.75	2.35	0.951	<1	408	407	0.02	0.770	62.0	10.7	26.9	0.177	75.22	31	821	1	—	1532	36.21	0.6	1363.7	124.0	2.22	88.5
4H-8, 115–125	34.49	31.0	1.33852	7.08	16.784	506.8	1.9	1.87	2.70	0.934	<1	384	384	0.15	0.757	61.4	11.0	28.0	0.033	87.79	4	1548	1	—	1577	39.51	0.6	1279.2	155.1	2.73	90.2
5H-12, 59–69	41.18	26.0	1.33810	6.73	8.541	474.5	4.0	1.43	3.39	0.851	0.16	366	376	2.74	0.771	57.4	3.7	21.3	0.036	72.91	13	848	4	—	1430	25.03	1.5	1228.3	577.3	3.21	75.0
5H-13, 53–65	42.02	47.5	1.33888	7.13	7.685	549.4	6.9	1.45	2.31	1.019	0.58	430	429	0.19	0.782	64.8	5.4	26.8	1.753	59.44	247	387	7	—	1462	25.86	0.5	1357.8	325.8	2.25	88.7
5H-14, 48–58	43.07	40.0	1.33881	6.68	7.393	538.4	4.0	1.41	2.70	0.929	2.71	424	421	0.62	0.787	63.8	5.1	28.0	0.321	61.34	236	442	6	—	1510	6.23	1.0	1348.0	375.0	2.61	88.7
5H-15, 80–91	44.66	40.0	1.33906	6.57	6.008	567.3	2.5	1.56	2.51	1.002	1.30	444	440	0.88	0.782	68.8	4.2	29.5	0.138	69.19	336	582	3	—	1572	9.09	22.2	1438.2	418.2	2.48	91.1
331-C0014D-																															
1H-1, 38–50	0.38	36.5	1.33942	7.38	57.470	557.2	6.76	0.08	1.01	0.942	<1	466	481	3.15	0.836	11.7	50.8	10.3	0.390	1.78	19	10	42	51.9	480	25.69	0.3	52.4	0.3	DNU	80.1
1H-2, 77–89	2.17	39.0	1.33937	7.22	24.687	554.3	5.20	0.07	1.85	0.902	14.43	469	471	0.34	0.847	12.4	51.4	10.9	0.110	4.56	774	135	299	—	435	1.64	0.9	71.8	36.3	DNU	85.2
1H-3, 42–54	3.23	50.5	1.33937	6.89	4.002	546.4	0.66	0.08	1.11	0.921	27.77	471	468	0.53	0.862	11.0	52.5	10.7	0.457	3.08	4600	79	256	3.9	398	0.82	206.3	54.7	23.0	DNU	84.1
1H-4, 10–22	4.33	59.5	1.33937	6.94	2.985	546.3	0.49	0.04	0.82	0.890	28.65	460	472	2.60	0.842	10.2	51.7	10.6	0.536	2.12	9425	70	1011	3.0	378	0.62	15.6	42.8	15.1	DNU	85.6
2H-1, 32–43	6.82	7.0	1.33933	7.51	7.340	541.9	4.84	0.24	1.31	0.860	28.74	459	467	1.75	0.848	10.9	51.9	12.3	1.433	3.27	80349	103	892	—	372	1.10	0.5	43.8	14.5	DNU	87.9
2H-2, 95–110	8.83	59.5	1.33937	6.64	4.986	551.6	8.12	0.07	0.09	0.667	20.79	465	463	0.53	0.843	10.3	51.9	10.8	1.324	2.26	23193	44	814	5.4	425	0.32	9.2	42.2	5.6	DNU‡	87.9
2H-3, 73–88	10.02	47.5	1.33914	7.01	20.417	546.8	3.17	0.39	1.18	0.912	9.45	460	459	0.34	0.842	19.2	41.1	13.0	0.743	21.95	233	891	228	19.8	745	1.18	0.7	367.3	48.9	1.10	84.9
2H-4, 81–96	11.53	51.5	1.33883	6.43	11.644	541.2	2.73	1.21	1.58	0.923	1.14	432	434	0.49	0.797	43.5	19.9	19.1	0.043	64.44	281	2327	227	12.2	875	2.96	3.4	995.6	139.6	1.46	86.0
2H-6, 9–19	12.70	19.0	1.33894	6.91	11.369	551.0	9.70	1.49	1.69	0.927	1.96	438	434	0.87	0.795	51.6	17.6	22.7	0.475	69.63	746	2062	59	11.7	—	—	—	—	—	—	—
331-C0014E-																															
1H-3, 110–120	18.67	36.5	1.33894	6.62	8.817	506.8	2.25	1.39	1.40	0.928	3.15	432	395	8.56	0.852	53.7	14.4	22.2	0.045	50.06	35	421	2	9.8	—	—	—	—	—	—	—
1H-4, 90–110	19.87	8.5	1.33907	6.85	15.026	552.2	2.97	1.36	1.64	0.932	2.78	430	431	0.19	0.778	46.4	17.6	30.3	0.811	54.14	108	1415	7	15.4	—	—	—	—	—	—	—
1H-5, 46–61	20.84	27.5	1.33901	6.79	11.160	561.7	1.93	1.45	1.38	0.937	2.38	441	443	0.46	0.784	50.7	15.5	26.7	0.369	50.97	128	645	8	11.9	—	—	—	—	—	—	—
1H-6, 85–100	22.21	10.0	1.33899	6.84	9.660	561.0	2.19	1.42	1.27	0.942	2.30	437	444	1.60	0.778	47.6	15.8	26.2	0.163	48.22	120	587	16	—	—	—	—	—	—	—	—
1H-9, 47–62	24.54	33.5	1.33896	6.53	8.356	552.2	1.16	1.45	1.08	0.959	2.34	443	434	2.14	0.802	55.9	14.5	23.3	0.035	49.77	30	350	3	9.5	—	—	—	—	—	—	—
2H-4, 10–25	27.25	17.0	1.33880	7.07	11.048	543.6	ND	1.64	2.85	0.904	1.57	417	422	1.21	0.767	56.3	15.0	24.9	0.509	59.32	306	652	35	11.1	—	—	—	—	—	—	—
2H-5, 45–60	29.00	18.0	1.33879	7.21	13.551	536.1	2.72	1.60	2.83	0.930	1.31	415	416	0.16	0.774	58.9	11.3	27.6	0.207	61.11	277	567	4	13.7	—	—	—	—	—	—	—
2H-6, 70–85	30.66	9.0	1.33832	7.12	8.393	501.0	2.96	1.61	2.08	0.840	0.81	390	393	0.62	0.779	47.9	7.6	27.5	0.141	38.73	81	359	31	—	—	—	—	—	—	—	—
2H-7, 80–95	32.17	40.0	1.33821	7.08	11.618	484.8	3.72	2.13	3.02	0.833	0.40	374	376	0.54	0.771	59.8	7.1	23.8	0.106	75.57	356	919	90	—	—	—	—	—	—	—	—
2H-8, 40–55	33.18	44.0	1.33824	6.97	11.138	484.4	5.61	2.05	2.98	0.847	0.38	388	372	4.06	0.800	60.8	7.4	24.4	0.009	89.30	6	1322	1	—	—	—	—	—	—	—	—
331-C0014G-																															
1H-1, 18–28	0.18	38.5	1.33936	7.57	3.278	540.1	4.1	0.05	0.32	0.904	29.39	468	470	0.49	0.866	11.9	49.8	10.3	0.191	1.39	174	5	18	3.1	—	—	—	—	—	—	—
1H-2, 35–45	1.77	34.5	1.33935	7.28	3.415	547.3	5.4	0.07	0.44	0.861	29.15	467	475	1.61	0.854	11.4	51.0	10.4	0.461	1.79	288	15	42	3.3	—	—	—	—	—	—	—
1H-3, 90–100	3.73	46.5	1.33939	7.00	6.902	550.6	5.8	0.05	0.78	0.855	28.12	471	473	0.56	0.855	11.9	51.9	12.4	0.133	2.80	322	69	9	7.5	—	—	—	—	—	—	—
1H-4, 20–30	4.43	36.5	1.33937	7.04	6.423	545.2	1.1	0.05	0.71	0.859	27.68	465	469	0.90	0.853	11.7	51.0	12.0	0.204	3.62	4067	95	82	6.9	—	—	—	—	—	—	—
1H-5, 32–42	5.96	40.5	1.33936	6.57	4.315	552.3	2.2	0.05	0.69	0.878	28.61	466	477	2.42	0.844	11.1	51.7	11.0	0.111	3.47	283	93	51	5.0	—	—	—	—	—	—	—
1H-6, 95–105	8.00	30.5	1.33953	7.15	3.148	544.0	3.1	0.03	0.35	0.874	28.90	468	468	0.06	0.860	10.7	52.2	10.8	0.482	2.65	19247	73	620	3.5	—	—	—	—	—	—	—
2H-5, 117–127	15.97	32.5	1.33936	6.75	13.799	550.8	9.3	0.18	1.39	0.915	21.19	459	462	0.75	0.833	13.5	52.1	13.5	0.114	9.13	972	119	11	16.6	—	—	—	—	—	—	—
2H-7, 18–29	17.84	25.5	1.33937	6.62	16.289	560.5	10.7	0.44	0.79	0.905	19.32	443	470	5.94	0.791	23.6	44.0	17.2	0.115	19.03	47	200	4	19.1	520	1.72	8.2	364.5	52.3	0.80	100.9
3H-2, 50–65	19.84	32.5	1.33959	6.4	12.730	567.6	7.6	0.65	1.11	0.915	24.85	447	465	4.03	0.787	29.1	47.0	21.0	0.106	31.54	577	1039	12	14.9	573	1.69	2.9	522.1	50.4	1.11	118.2
3H-5, 32–47	22.90	17.5	1.33947	6.87	13.575	569.4	4.0	0.91	1.00	0.958	15.50	435	455	4.67	0.764	34.0	34.1	28.2	0.562	36.28	315	949	10	13.6	988	3.80	0.6	980.0	141.9	0.98	128.9
3H-8, 55–68	25.75	32.0	1.33926	6.8	13.639	569.5	6.1	1.19	1.00	0.948	7.47	435	446	2.60	0.763	44.0	31.6	22.5	0.244	55.12	70	1226	35	—	1180	8.13	2.6	1191.2	36.8	1.04	107.0
4H-2, 40–55	29.29	38.0	1.33860	6.94	14.300	518.0	3.1	1.72	2.75	0.895	1.67	386	408	5.92	0.745	58.8	10.6	23.6	0.099	79.50	37	676	2	—	1545	22.80	1.3	1253.4	134.4	2.81	83.8
4H-5, 45–60	30.86	40.0	1.33862	6.96	16.960	521.8	2.2	1.81	2.56	0.896	0.87	390	410	5.06	0.747	59.4	10.2	25.5	0.107	81.70	75	655	3	—	1520	36.67	1.5	1325.5	168.5	2.47	87.8
4H-7, 0–15	32.43	32.0	1.33849	7.21	16.759	503.7	3.7	1.62	2.53	0.873	3.23	380	393	3.57	0.754	58.0	10.4	27.4	0.727	64.66	216	347	4	—	1325	8.75	8.2	1198.1	317.9	2.52	82.9
4H-9, 35–50	34.80	42.0	1.33879	7.19	13.890	531.3	1.9	1.67	2.71	0.914	2.90	405	422	4.17	0.762	60.5	7.3	26.9	0.228	69.73	594	631	2	—	1440	8.49	1.8	1295.3	486.2	2.75	85.6
4H-10, 0–15	35.45	49.5	1.33859	6.82	10.603	522.0	5.2	1.64	3.31	0.878	3.47	396	421	6.28	0.758	56.6	8.4	22.8	0.034	74.31	97	495	49	—	1480	7.67	4.5	1218.8	576.4	3.43	81.6
4H-11, 80–95	37.26	59.5	1.33789	7.02	10.963	447.8	2.4	1.67	3.15	0.756	3.78	340	357	4.99	0.758	50.3	8.1	21.6	0.336	82.75	144	1382	5	—	1370	6.09	1.0	1006.2	462.9	3.16	60.8
5H-3, 26–41	38.30	47.5	1.33563	6.86	10.389	227.3	2.0	1.40	3.65	0.375	4.05	177	183	3.27	0.780	23.2	6.4	13.3	0.040	26.24	63	163	2	—	947	2.43	1.4	419.1	265.1	3.54	28.5
6H-2, 55–70	47.89	32.0	1.33918	6.54	6.077	563.0	3.0	1.24	3.48	0.959	9.24	445	452	1.74	0.790	60.8	9.6	27.5	0.043	63.38	7	465	1	—	1476	3.00	17.8	1250.5	404.9	3.46	95.9
6H-3, 47–59	48.81	48.0	1.33908	6.2	7.940	562.5	4.3	1.24	3.44	0.955	5.39	437	451	3.04	0.777	62.0	7.8	26.6	0.038	61.18	33	401	5	—	1529	6.17	15.4	1212.1	374.1	3.50	87.6
9X-2, 25–40	55.86	22.5	1.33935	6.73	13.262	589.0	2.2	1.29	3.28	1.006	4.38	453	468	3.36	0.769	69.4	5.8	31.1	0.165	72.22	120	486	2	13.7	1573	7.25	2.7	1357.3	284.7	3.22	90.6
12H-3, 15–25	65.30	16.5	1.33979	6.76	14.843	620.1	2.4	1.25	2.68	1.109	8.21	488	499	2.29	0.786	69.3	3.2	38.5	0.409	67.35	550	435	54	—	1664	5.15	2.1	1562.9	221.1	2.67	120.2
13T-1, 60–75	67.30	19.5	1.33989	6.53	11.197	612.5	2.7	0.97	2.70	0.991	17.14	492	504	2.52	0.803	57.4	11.6	36.6	0.238	61.07	66	391	3	—	1321	2.89	12.3	1300.6	388.3	2.67	123.0
14T-2, 15–30	71.83	33.0	1.33954	6.49	9.462	603.5	7.2	1.14	4.03	1.014	8.26	481	489	1.68	0.797	62.0	8.2	31.0	0.069	68.48	40	438	9	—	1593	3.59	32.2	1368.5	418.9	4.09	102.7
16T-1, 52–62	76.42	22.5	1.33988	7.29	17.414	616.8	2.0	1.07	2.43	1.045	7.60	500	515	2.96	0.811	52.6	7.2	33.8	0.470	49.14	60	295	3	—	1384	3.57	1.1	1376.8	296.9	2.37	112.4
17T-2, 73–88	81.34	34.0	1.33958	6.37	14.147	602.6	3.9	1.18	3.03	1.009	7.12	596	486	18.39	0.989	58.8	8.8	34.1	0.144	49.13	62	255	11	—	1534	4.64	24.1	1372.3	307.2	2.90	109.7
18T-4, 20–35	87.22	41.0	1.33922	6.26	12.24	568.5	4.2	1.43	4.77	1.021	3.75	458	451	1.65	0.806	69.9	5.9	27.9	0.047	109.50	9	1758	3	—	1736	8.45	26.7	1364.4	368.8	4.80	89.4
20T-1, 43–63	94.13	45.0	1.33934	6.14	5.923	585.8	3.9	1.52	5.37	1.028	6.95	466	476	2.22	0.795	64.9	5.1	27.3	0.286	102.57	26	1865	1	8.9	1810	4.31	51.0	1421.6	389.7	5.44	91.3
21H-3, 15–25	99.26	9.0	1.33946	7.11	19.33	589.1	3.1	1.40	4.40	1.006	4.52	443	436	1.48	0.752	62.9	5.4	53.8	0.300	98.34	45	1682	2	—	1631	8.85	0.6	1409.5	373.3	DNU	92.6
23X-1, 12–22	104.82	0.5	ND	ND	ND	601.3	—	—	—	1.011	20.55	478	465	2.71	0.795	61.8	12.1	45.5	—	—	—	—	—	—	—	—	—	—	—	—	—
24T-2, 54–66	110.24	26.5	1.33932	6.45	7.099	578.9	4.4	1.37	4.59	0.952	7.03	472	465	1.39	0.815	57.2	8.5	30.3	0.108	90.68	105	1373	1	9.9	1609	3.11	33.1	1284.5	438.6	4.41	88.8
24T-4, 95–110.5	112.64	24.5	1.33930	6.24	5.407	588.5	6.2	1.23	4.29	0.992	7.21	470	487	3.63	0.798	55.0	11.0	22.3	0.091	85.77	7	1494	0	8.6	1446	2.83	115.6	1196.2	617.2	4.05	83.8
25T-1, 35–45	114.05	27.0	1.33926	6.39	7.077	565.2	5.1	1.42	4.23	0.977	5.50	471	472	0.38	0.833	53.4	6.1	22.6	0.209	90.23	103	1508	27	—	1574	5.28	43.6	1302.5	600.6	3.97	88.0

Notes: * = value was determined colorimetrically aboard ship, † = value was determined postcruise via ICP-OES. ‡ = This value was higher than the colorimetric analyses but consistent in concentration with other suspect values and was not used. Volumes are crude approximates only. SO_4 samples indicated as <1 are below the detection limit. Na_{charge} is the Na value that we calculate from charge balance based on Cl, Br, sulfate, alkalinity, Mg, K, and Ca balance. DNU = silicon data for ICP-OES not used because of disagreement with colorimetric analyses as described in Expedition 331 Scientists (2011b). — = no data, BD = below detection limit, ND = not determined.