

Table VII-7. The concentrations of elements in the Hanging Garden hydrothermal vent at 21° N (C_{HG} , in mg/l) and comparisons with those in seawater (C_{SW} , Table VII-1), the mid oceanic ridge basalts (X_{MORB} , Table V-5), and river water (C_R , Table VI-9).

	C_{HG} (mg/l)	$\frac{C_{HG}}{C_{SW}}$	$\frac{X_{MORB}}{C_{HG}}$	$\frac{C_{HG} - C_{SW}}{C_R}$		C_{HG} (mg/l)	$\frac{C_{HG}}{C_{SW}}$	$\frac{X_{MORB}}{C_{HG}}$	$\frac{C_{HG} - C_{SW}}{C_R}$
Ag	0.004	1600	8	13	P	0.018	0.28		-2
Al	0.12	400	680000	2.4	Pb	0.075	27000	6.5	750
As	0.035	20		20	Rb	2.8	23	0.46	1800
B	6	1.3		83	S ⁺⁶	13	0.014		
Ba	>1.5	>100	<9.3	25	S ⁻²	270		3	-170
Be	120E-6	570	13000	13	Se	0.0048	33	42	23
Br	69	1		100	Si	450	180	530	90
C	71	2.5		3.7	Sr	5.8	0.74	19	-33
Ca	480	1	170	2.3	Th	0.3E-6	6	620000	0.006
Cd	0.02	260	7	1000	U	~ 0	~ 0		-13
Cl	18000	0.96		-100	Zn	6.9	21000	12	9900
Co	0.013	11000	3600	65	REE				
Cs	0.028	90	0.89	790	Ce	1640E-6	1000	7400	20
Cu	2.8	13000	26	1900	Nd	500E-6	120	22000	13
F	0.14	0.11		-12	Sm	137E-6	160	28000	17
Fe	139	540000	600	3500	Eu	275E-6	1300	4700	270
K	950	1.4	0.94	370	Gd	92E-6	70	56000	11
Li	9.4	52	0.96	770	Dy	69E-6	46	91000	8.4
Mg	0	0		-420	Er	35E-6	27	120000	
Mn	49	680000	28	6000	Yb	33E-6	22	120000	7.9
Na	10400	0.96	2	-75	pH	3.3			

Data Sources: HG vent (Von Damm et al., 1985), except for Th and U (Chen et al., 1986) and REE (Michard and Albarebe, 1986).