

Claesson, p.1

Table DR1

Table showing average absolute concentrations of elements analyzed at Site HU-01 before (pre-EQ) and after (post-EQ) the earthquake on Sep 16, 2002. Detection limits are shown for each element. Pre-/post-earthquake baseline averages and peak concentrations and dates are shown for Cu, Cr, Fe, Mn and Zn. Elements analyzed but generally below background are listed.

Elements with pre-earthquake concentration peaks

<i>Element</i>	<i>Detection limit</i>	<i>Pre-EQ (ppb)</i>	<i>Post-EQ (ppb)</i>	<i>Baseline</i>	<i>Peak/Date</i>
Cu	0.34	1.7 ± 1.6	0.8 ± 0.3	0.90 ± 0.37	6.28/11-Sep-02
Cr	0.48	2.4 ± 1.9	0.7 ± 0.1	0.7 ± 0.1	6.62/3-Jul-02
Fe	0.80	11.5 ± 7.5	2.8 ± 2.2	2.8 ± 2.2	28.6/3-Jul-02
Mn	0.12	2.1 ± 1.7	1.2 ± 0.1	1.25 ± 0.35	6.76/14-Aug-02
Zn	1.1	67 ± 106	22 ± 20	26 ± 23	381/4-Sep-02

Elements showing post-earthquake concentration change (used to compile Fig. 2C)

<i>Element</i>	<i>Detection limit</i>	<i>Pre-EQ (ppb)</i>	<i>Post-EQ (ppb)</i>	<i>% shift</i>
B	60	113 ± 3	134 ± 3	+18.8%
Ca	0.46	200874 ± 5102	228238 ± 2762	+13.1%
K	0.92	35159 ± 915	40747 ± 491	+15.3%
Li	3.8	283 ± 7	320 ± 6	+12.6%
Mo	1.8	9.9 ± 0.4	11.3 ± 0.4	+13.0%
Na	0.21	668095 ± 15709	758535 ± 6360	+13.1%
Rb	7.5	269 ± 9	316 ± 5	+16.7%
S	36	24121 ± 678	27223 ± 300	+12.1%
Si	5.1	36199 ± 666	41256 ± 462	+13.5%
Sr	0.022	575 ± 11	650 ± 6	+12.6%
Cl		149509 ± 3253	173523 ± 4600	+11.9%
SO ₄		7131 ± 171	8297 ± 199	+11.9%

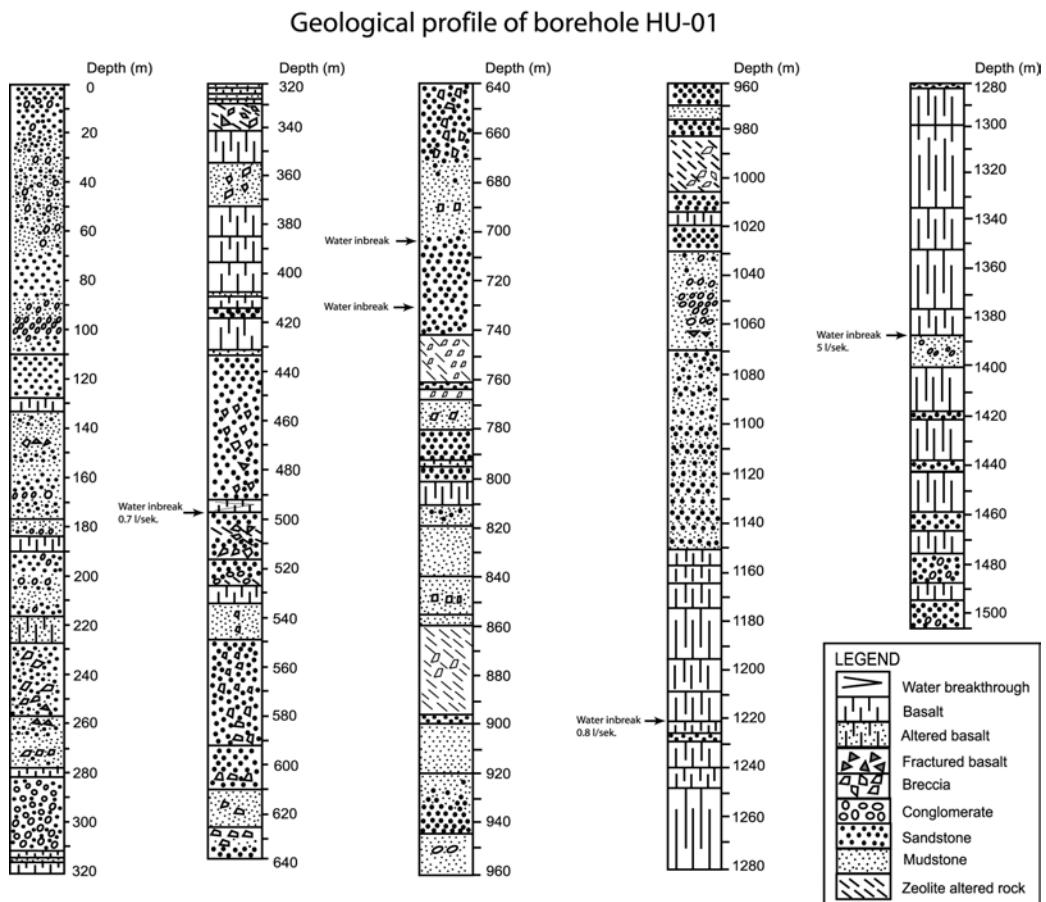
Elements unaffected by earthquake

<i>Element</i>	<i>Detection limit</i>	<i>Pre-EQ (ppb)</i>	<i>Post-EQ (ppb)</i>
Al	5.1	54 ± 4	55 ± 5
Ba	0.47	1.7 ± 0.6	1.8 ± 0.7
Ce	0.81	3.6 ± 1.4	4.6 ± 1.9
Mg	0.067	13.8 ± 1.6	13.1 ± 1.2
Nd	1.5	5.0 ± 1.5	5.2 ± 1.4
Yb	0.17	0.38 ± 0.03	0.42 ± 0.03

Elements generally below background

As, Be, Co, Dy, Er, Eu, Ga, Gd, Ge, La, Nb, Ni, P, Pb, Sc, Sm, Ta, Tb, Ti, U, V, W, Yb, Zr

Figure DR1. Geological profile of borehole HU-01.



Geological profile of borehole HU-01

