

Table 2 Mean concentrations (ppm) of metals in sediments of Akliman of Sinop Peninsula in the Black Sea

| Depths<br>(cm) | Metals |       |      |       |       |       |      |       |       |       |       |        |      |      |      |       |
|----------------|--------|-------|------|-------|-------|-------|------|-------|-------|-------|-------|--------|------|------|------|-------|
|                | Mo     | Cu    | Pb   | Zn    | Ag    | Ni    | Co   | Mn    | Fe(%) | As    | U     | Au     | Th   | Sr   | Cd   | Hg    |
| 0-2            | 0.18   | 6.65  | 5.30 | 18.9  | 44    | 21.1  | 7.0  | 445   | 1.29  | 16.1  | 0.5   | <0.1   | 2.1  | 291  | 0.05 | 0.02  |
| 2-4            | 0.19   | 6.13  | 5.08 | 22.6  | 32    | 19.9  | 7.1  | 455   | 1.26  | 16.1  | 0.5   | <0.1   | 2.0  | 307  | 0.08 | <0.01 |
| 4-6            | 0.18   | 5.87  | 6.62 | 20.3  | 27    | 18.4  | 6.4  | 461   | 1.25  | 16.6  | 0.5   | <0.1   | 1.8  | 308  | 0.06 | 0.02  |
| 6-8            | 0.20   | 5.92  | 5.28 | 20.2  | <20   | 20.1  | 6.7  | 460   | 1.26  | 15.6  | 0.5   | <0.1   | 1.8  | 311  | 0.05 | <0.01 |
| 8-10           | 0.17   | 5.21  | 5.19 | 18.6  | 45    | 20.5  | 7.0  | 444   | 1.24  | 16.2  | 0.5   | <0.1   | 1.9  | 318  | 0.05 | 0.02  |
| Depths<br>(cm) | Metals |       |      |       |       |       |      |       |       |       |       |        |      |      |      |       |
|                | Sb     | Bi    | V    | Ca(%) | P (%) | La    | Cr   | Mg(%) | Ba    | Ti(%) | Al(%) | Na (%) | K(%) | W    | Zr   |       |
| 0-2            | 0.29   | 0.04  | 31   | 7.55  | 0.019 | 9.3   | 22   | 0.44  | 127   | 0.091 | 2.16  | 0.966  | 0.56 | 0.3  | 22.4 |       |
| 2-4            | 0.31   | <0.04 | 28   | 7.81  | 0.018 | 9.2   | 26   | 0.42  | 123   | 0.090 | 2.07  | 0.893  | 0.55 | 0.4  | 17.2 |       |
| 4-6            | 0.36   | 0.04  | 27   | 7.99  | 0.017 | 8.7   | 26   | 0.40  | 129   | 0.082 | 2.04  | 0.861  | 0.54 | 0.3  | 16.6 |       |
| 6-8            | 0.28   | <0.04 | 27   | 8.02  | 0.018 | 9.3   | 23   | 0.39  | 116   | 0.082 | 2.01  | 0.878  | 0.54 | 0.3  | 15.8 |       |
| 8-10           | 0.30   | <0.04 | 26   | 7.69  | 0.018 | 8.8   | 23   | 0.40  | 128   | 0.083 | 2.03  | 0.875  | 0.54 | 0.3  | 17.7 |       |
| 0-2            | 0.5    | <1    | 3.5  | <0.04 | 8.4   | 18.25 | 2.1  | 9.5   | 1.8   | 0.4   | 2.0   | 0.2    | 1.5  | 0.3  | 0.7  |       |
| 2-4            | 0.4    | <1    | 3.7  | <0.04 | 8.5   | 17.78 | 2.4  | 8.5   | 2.0   | 0.5   | 1.4   | 0.2    | 1.5  | 0.3  | 0.8  |       |
| 4-6            | 0.6    | <1    | 3.4  | <0.04 | 8.1   | 15.97 | 2.0  | 8.5   | 1.7   | 0.4   | 1.4   | 0.2    | 1.5  | 0.3  | 0.8  |       |
| 6-8            | 0.5    | <1    | 3.3  | <0.04 | 8.2   | 16.54 | 2.2  | 8.3   | 1.8   | 0.5   | 1.4   | 0.2    | 1.4  | 0.3  | 0.8  |       |
| 8-10           | 0.5    | <1    | 3.4  | <0.04 | 8.3   | 16.27 | 2.2  | 8.3   | 1.7   | 0.4   | 1.7   | 0.2    | 1.5  | 0.3  | 0.8  |       |
| Depths<br>(cm) | Metals |       |      |       |       |       |      |       |       |       |       |        |      |      |      |       |
|                | Tm     | Yb    | Lu   | Hf    | Li    | Rb    | Ta   | Nb    | Cs    | Ga    | In    | Re     | Se   | Te   | Tl   |       |
| 0-2            | 0.1    | 0.7   | 0.1  | 0.63  | 14.7  | 22.0  | <0.1 | 1.65  | 0.7   | 3.27  | 0.03  | <0.002 | <0.3 | 0.31 | 0.10 |       |
| 2-4            | <0.1   | 0.6   | <0.1 | 0.51  | 14.0  | 22.3  | 0.1  | 1.72  | 0.7   | 3.36  | <0.01 | <0.002 | <0.3 | 0.25 | 0.10 |       |
| 4-6            | 0.1    | 0.7   | <0.1 | 0.48  | 14.8  | 22.5  | <0.1 | 1.48  | 0.7   | 3.07  | <0.01 | <0.002 | <0.3 | 0.31 | 0.11 |       |
| 6-8            | 0.1    | 0.7   | 0.1  | 0.57  | 14.3  | 22.1  | <0.1 | 1.56  | 0.7   | 3.21  | 0.02  | <0.002 | <0.3 | 0.43 | 0.11 |       |
| 8-10           | <0.1   | 0.7   | <0.1 | 0.56  | 14.4  | 23.4  | <0.1 | 1.65  | 0.7   | 3.03  | 0.01  | <0.002 | <0.3 | 0.33 | 0.11 |       |