

APPENDIX 2

Representative EMPA analyses (wt.%) in polished sections of gold grains from the valley-fill sediments of the Zimnik Creek

| Sample | Analysis no. | Au | Ag | Pd | Hg | Pt | Cu | Bi | Te | As | Total |
|--------|--------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|---------|
| Z4/3 | 1 | 86.698 | 12.842 | 0.000 | 0.327 | 0.000 | 0.000 | 0.000 | 0.019 | 0.002 | 99.894 |
| | 2* | 81.263 | 17.720 | 0.781 | 0.883 | 0.000 | 0.000 | 0.071 | 0.041 | 0.014 | 100.773 |
| | 3 | 97.888 | 0.151 | 0.950 | 0.963 | 0.000 | 0.000 | 0.000 | 0.048 | 0.000 | 100.000 |
| | 4 | 80.935 | 19.442 | 0.000 | 0.000 | 0.010 | 0.000 | 0.008 | 0.028 | 0.000 | 100.423 |
| | 5 | 80.569 | 19.271 | 0.000 | 0.000 | 0.019 | 0.000 | 0.027 | 0.019 | 0.000 | 99.905 |
| | 6* | 99.910 | 0.610 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.028 | 0.000 | 100.548 |
| | 7 | 84.592 | 15.781 | 0.972 | 0.761 | 0.013 | 0.000 | 0.015 | 0.041 | 0.000 | 102.176 |
| | 8 | 77.950 | 23.179 | 0.652 | 0.090 | 0.024 | 0.000 | 0.006 | 0.022 | 0.000 | 101.923 |
| | 9* | 97.633 | 1.927 | 0.011 | 0.364 | 0.000 | 0.000 | 0.000 | 0.065 | 0.001 | 100.000 |
| Z4/4 | 10 | 98.706 | 2.655 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.045 | 0.001 | 101.409 |
| | 11* | 99.934 | 0.032 | 0.000 | 0.000 | 0.004 | 0.000 | 0.000 | 0.030 | 0.000 | 100.000 |
| | 12 | 99.776 | 0.153 | 0.000 | 0.000 | 0.000 | 0.000 | 0.027 | 0.038 | 0.006 | 100.000 |
| | 13 | 99.774 | 0.190 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.033 | 0.003 | 100.000 |
| | 14 | 88.476 | 11.866 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.028 | 0.001 | 100.371 |
| | 15* | 91.408 | 8.906 | 0.762 | 0.924 | 0.000 | 0.000 | 0.013 | 0.043 | 0.000 | 102.056 |
| | 16* | 86.450 | 14.369 | 0.768 | 0.654 | 0.000 | 0.005 | 0.000 | 0.045 | 0.015 | 102.310 |
| | 17* | 99.931 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.026 | 0.035 | 100.000 |
| | 18* | 91.324 | 8.946 | 0.561 | 0.773 | 0.000 | 0.000 | 0.015 | 0.034 | 0.000 | 101.653 |
| | 19* | 99.325 | 0.620 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.052 | 0.000 | 100.000 |
| | 20* | 99.673 | 0.232 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.033 | 0.056 | 100.000 |
| Z5/3 | 21 | 88.361 | 11.851 | 0.891 | 0.832 | 0.000 | 0.000 | 0.002 | 0.035 | 0.006 | 101.978 |
| | 22 | 88.080 | 11.990 | 0.775 | 0.020 | 0.003 | 0.000 | 0.000 | 0.024 | 0.000 | 100.892 |
| | 23 | 99.858 | 0.080 | 0.000 | 0.000 | 0.000 | 0.000 | 0.028 | 0.026 | 0.009 | 100.000 |
| | 24 | 99.830 | 0.148 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.045 | 0.001 | 100.024 |
| | 25 | 99.818 | 0.120 | 0.000 | 0.000 | 0.016 | 0.000 | 0.015 | 0.029 | 0.002 | 100.000 |
| | 26 | 88.612 | 11.904 | 0.632 | 0.095 | 0.000 | 0.000 | 0.000 | 0.030 | 0.000 | 101.273 |
| | 27 | 99.245 | 1.646 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.067 | 0.012 | 100.970 |
| | 28 | 99.269 | 0.675 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.047 | 0.000 | 100.000 |
| | 29 | 79.178 | 21.120 | 0.770 | 0.086 | 0.000 | 0.000 | 0.016 | 0.033 | 0.000 | 101.203 |
| | 30 | 99.650 | 0.311 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.036 | 0.000 | 100.000 |
| A1/3 | 31 | 95.095 | 0.962 | 0.000 | 0.000 | 0.000 | 0.000 | 0.036 | 0.020 | 0.003 | 96.119 |
| | 32 | 74.799 | 25.685 | 0.089 | 0.086 | 0.000 | 0.000 | 0.000 | 0.033 | 0.004 | 100.696 |
| | 33 | 78.652 | 22.650 | 0.000 | 0.000 | 0.008 | 0.000 | 0.021 | 0.036 | 0.001 | 101.368 |
| | 34 | 99.168 | 0.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.020 | 0.000 | 100.000 |
| | 35 | 99.775 | 0.196 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.029 | 0.000 | 100.000 |
| | 36 | 99.690 | 0.049 | 0.011 | 0.000 | 0.000 | 0.000 | 0.000 | 0.035 | 0.002 | 99.787 |
| | 37 | 98.603 | 2.305 | 0.000 | 0.000 | 0.034 | 0.000 | 0.009 | 0.031 | 0.000 | 100.982 |
| | 38 | 81.802 | 17.283 | 0.876 | 0.000 | 0.002 | 0.000 | 0.000 | 0.036 | 0.000 | 100.000 |
| | 39 | 99.106 | 0.739 | 0.089 | 0.000 | 0.000 | 0.000 | 0.000 | 0.021 | 0.042 | 100.000 |

*– analyses for spots shown in Figure 10