**Электронное приложение**

*Таблица ЭП1*

**Химический состав золота (мас. %)**

*Table ES1*

**Chemical composition of gold (wt. %)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| № п/п | Лаб.№ | Au | Ag | Cu | Сумма | Формула |
| Северный участок | | | | | | |
| 1 | 19525a | 95.23 | 4.30 | – | 99.53 | (Au0.92Ag0.08)1.0 |
| 2 | 19526a | 91.73 | 7.12 | – | 98.85 | (Au0.88Ag0.12)1.0 |
| 3 | 19526b | 92.20 | 6.97 | – | 99.17 | (Au0.88Ag0.12)1.0 |
| 4 | 19526d | 84.28 | 14.72 | – | 99.00 | (Au0.76Ag0.24)1.0 |
| 5 | 19526h | 77.92 | 21.28 | – | 99.20 | (Au0.67Ag0.33)1.0 |
| 6 | 19526l | 71.46 | 28.20 | – | 99.66 | (Au0.58Ag0.42)1.0 |
| 7 | 19526n | 92.84 | 7.34 | – | 100.18 | (Au0.87Ag0.13)1.0 |
| 8 | 19527e | 82.03 | 17.33 | – | 99.36 | (Au0.72Ag0.28)1.0 |
| 9 | 19527h | 86.35 | 13.38 | – | 99.73 | (Au0.78Ag0.22)1.0 |
| 10 | 19528a | 88.77 | 10.72 | – | 99.49 | (Au0.82Ag0.18)1.0 |
| 11 | 19528e | 80.08 | 19.92 | – | 100.00 | (Au0.69Ag0.31)1.0 |
| 12 | 19528g | 84.94 | 14.32 | – | 99.26 | (Au0.76Ag0.24)1.0 |
| 13 | 20282d | 94.15 | 6.72 | – | 100.86 | (Au0.88Ag0.12)1.0 |
| 14 | 20282e | 91.21 | 8.45 | – | 99.66 | (Au0.86Ag0.14)1.0 |
| 15 | 20282f | 92.49 | 7.79 | – | 100.28 | (Au0.87Ag0.13)1.0 |
| 16 | 20282g | 90.91 | 9.61 | – | 100.52 | (Au0.84Ag0.16)1.0 |
| 17 | 20282i | 92.87 | 7.14 | – | 100.00 | (Au0.88Ag0.12)1.0 |
| 18 | 20282j | 92.13 | 7.45 | – | 99.58 | (Au0.87Ag0.13)1.0 |
| 19 | 20282l | 91.71 | 8.86 | – | 100.56 | (Au0.85Ag0.15)1.0 |
| 20 | 20282m | 91.92 | 8.23 | – | 100.14 | (Au0.86Ag0.14)1.0 |
| 21 | 20282n | 93.06 | 6.63 | – | 99.69 | (Au0.88Ag0.12)1.0 |
| 22 | 20282o | 92.43 | 6.98 | – | 99.40 | (Au0.88Ag0.12)1.0 |
| 23 | 20282p | 92.34 | 7.60 | – | 99.94 | (Au0.87Ag0.13)1.0 |
| 24 | 20282t | 93.01 | 6.09 | – | 99.11 | (Au0.89Ag0.11)1.0 |
| 25 | 20282u | 93.20 | 6.01 | – | 99.19 | (Au0.89Ag0.11)1.0 |
| 26 | 20282v | 91.39 | 8.93 | – | 100.32 | (Au0.85Ag0.15)1.0 |
| 27 | 20282w | 91.38 | 8.40 | – | 99.78 | (Au0.86Ag0.14)1.0 |
| 28 | 21069a | 92.87 | 7.07 | – | 99.93 | (Au0.88Ag0.12)1.0 |
| 29 | 21069b | 91.83 | 8.17 | – | 100.00 | (Au0.86Ag0.14)1.0 |
| 30 | 21085a | 90.29 | 9.71 | – | 100.00 | (Au0.84Ag0.16)1.0 |
| 31 | 21085c | 92.53 | 7.47 | – | 100.00 | (Au0.87Ag0.13)1.0 |
| 32 | 21085e | 92.46 | 7.54 | – | 100.00 | (Au0.87Ag0.13)1.0 |
| 33 | 21350a | 92.10 | 7.59 | – | 99.69 | (Au0.87Ag0.13)1.0 |
| 34 | 21350b | 94.63 | 5.37 | – | 100.00 | (Au0.91Ag0.09)1.0 |
| 35 | 21352c | 94.56 | 5.44 | – | 100.00 | (Au0.9Ag0.1)1.0 |
| 36 | 21352i | 86.93 | 13.07 | – | 100.00 | (Au0.78Ag0.22)1.0 |
| 37 | 21357c | 85.16 | 14.20 | 0.42 | 99.78 | (Au0.76Ag0.23Cu0.01)1.0 |
| 38 | 21357d | 90.18 | 8.92 | – | 99.10 | (Au0.85Ag0.15)1.0 |
| 39 | 21357f | 90.76 | 8.03 | 0.68 | 99.47 | (Au0.84Ag0.14Cu0.02)1.0 |
| 40 | 21358b | 90.87 | 9.13 | – | 100.00 | (Au0.86Ag0.14)1.0 |
| 41 | 21359e | 93.59 | 5.79 | – | 99.38 | (Au0.90Ag0.10)1.0 |
| 42 | 21360a | 93.32 | 6.37 | – | 99.69 | (Au0.89Ag0.11)1.0 |
| 43 | 21360b | 86.73 | 13.27 | – | 100.00 | (Au0.78Ag0.22)1.0 |
| 44 | 21360i | 94.14 | 5.86 | – | 100.00 | (Au0.90Ag0.10)1.0 |
| 45 | 21361b | 93.06 | 6.46 | – | 99.52 | (Au0.81Ag0.19)1.0 |
| 46 | 21361c | 91.87 | 7.16 | – | 99.03 | (Au0.88Ag0.12)1.0 |
| 47 | 21362b | 93.96 | 5.52 | – | 99.48 | (Au0.90Ag0.10)1.0 |
| 48 | 21362c | 91.66 | 8.14 | – | 99.79 | (Au0.86Ag0.14)1.0 |
| 49 | 21362e | 91.08 | 8.63 | – | 99.71 | (Au0.85Ag0.15)1.0 |
| 50 | 21362g | 92.98 | 6.84 | – | 99.82 | (Au0.88Ag0.12)1.0 |
| 51 | 21779a | 58.43 | 41.57 | – | 100.00 | (Ag0.57Au0.43)1.0 |
| 52 | 21779b | 99.68 | 0.32 | – | 100.00 | (Au0.99Ag0.01)1.0 |
| 53 | 21782a | 91.16 | 7.96 | 0.53 | 99.65 | (Au0.85Ag0.14Cu0.02)1.01 |
| 54 | 21783a | 92.59 | 7.41 | – | 100.00 | (Au0.87Ag0.13)1.0 |
| 55 | 21783e | 94.76 | 5.24 | – | 100.00 | (Au0.91Ag0.09)1.0 |
| 56 | 21785a | 94.02 | 5.98 | – | 100.00 | (Au0.90Ag0.10)1.0 |
| 57 | 21785d | 92.24 | 7.03 | 0.72 | 100.00 | (Au0.86Ag0.12Cu0.02)1.0 |
| 58 | 21785f | 94.61 | 5.39 | – | 100.00 | (Au0.91Ag0.09)1.0 |
| 59 | 21786c | 93.92 | 6.08 | – | 100.00 | (Au0.89Ag0.11)1.0 |
| 60 | 21787a | 90.96 | 9.04 | – | 100.00 | (Au0.85Ag0.15)1.0 |
| 61 | 21787b | 91.80 | 8.20 | – | 100.00 | (Au0.86Ag0.14)1.0 |
| 62 | 21819a | 83.56 | 15.83 | – | 99.39 | (Au0.74Ag0.26)1.0 |
| 63 | 21818b | 92.73 | 7.08 | – | 99.81 | (Au0.88Ag0.12)1.0 |
| 64 | 21820b | 88.53 | 11.47 | – | 100.00 | (Au0.81Ag0.19)1.0 |
| 65 | 21820d | 92.16 | 7.84 | – | 100.00 | (Au0.87Ag0.13)1.0 |
| Южный участок | | | | | | |
| 1 | 21084a | 85.38 | 14.62 | – | 100.00 | (Au0.76Ag0.24)1.0 |
| 2 | 21084b | 87.63 | 12.37 | – | 100.00 | (Au0.8Ag0.2)1.0 |
| 3 | 21086a | 93.46 | 6.54 | – | 100.00 | (Au0.89Ag0.11)1.0 |
| 4 | 21087a | 91.45 | 8.55 | – | 100.00 | (Au0.85Ag0.15)1.0 |
| 5 | 21087b | 92.04 | 7.96 | – | 100.00 | (Au0.86Ag0.14)1.0 |
| 6 | 21087c | 91.98 | 8.02 | – | 100.00 | (Au0.86Ag0.14)1.0 |
| 7 | 21087d | 91.35 | 8.65 | – | 100.00 | (Au0.85Ag0.15)1.0 |
| 8 | 21095i | 89.49 | 10.51 | – | 100.00 | (Au0.82Ag0.18)1.0 |
| 9 | 21095j | 93.59 | 6.41 | – | 100.00 | (Au0.89Ag0.11)1.0 |
| 10 | 21096a | 90.73 | 9.27 | – | 100.00 | (Au0.84Ag0.16)1.0 |
| 11 | 21097a | 91.95 | 7.65 | 0.35 | 99.95 | (Au0.86Ag0.13Cu0.01)1.0 |
| 12 | 21097b | 90.02 | 9.98 | – | 100.00 | (Au0.83Ag0.17)1.0 |
| 13 | 21116a | 89.88 | 10.04 | – | 99.92 | (Au0.83Ag0.17)1.0 |
| 14 | 21116c | 87.67 | 12.15 | – | 99.82 | (Au0.80Ag0.20)1.0 |
| 15 | 21116e | 88.29 | 11.47 | – | 99.76 | (Au0.81Ag0.19)1.0 |
| 16 | 21117a | 94.12 | 5.76 | – | 99.88 | (Au0.90Ag0.10)1.0 |
| 17 | 21118a | 89.28 | 10.17 | – | 99.45 | (Au0.83Ag0.17)1.0 |
| 18 | 21118e | 90.04 | 9.96 | – | 100.00 | (Au0.83Ag0.17)1.0 |
| 19 | 21119a | 91.93 | 8.07 | – | 100.00 | (Au0.86Ag0.14)1.0 |
| 20 | 21119b | 88.13 | 11.87 | – | 100.00 | (Au0.80Ag0.20)1.0 |
| 21 | 21119d | 91.47 | 8.37 | – | 99.84 | (Au0.86Ag0.14)1.0 |
| 22 | 21119e | 89.25 | 9.97 | – | 99.22 | (Au0.83Ag0.17)1.0 |
| 23 | 21119f | 92.13 | 7.63 | – | 99.76 | (Au0.87Ag0.13)1.0 |
| 24 | 21784a | 88.63 | 11.37 | – | 100.00 | (Au0.81Ag0.19)1.0 |
| 25 | 21788a | 93.63 | 6.37 | – | 100.00 | (Au0.89Ag0.11)1.0 |
| 26 | 21788f | 93.41 | 6.59 | – | 100.00 | (Au0.89Ag0.11)1.0 |
| 27 | 21789a | 93.30 | 6.70 | – | 100.00 | (Au0.88Ag0.12)1.0 |
| 28 | 21790b | 84.47 | 14.73 | 0.80 | 100.00 | (Au0.74Ag0.24Cu0.02)1.0 |

*Примечание*. Формулы рассчитаны на сумму катионов (Au+Ag) = 1. Здесь и в табл. 2, прочерк – ниже предела обнаружения.

*Note*. The formulas are recalculated to cation sum (Au+Ag) = 1. Here and in Table 2, dash – below detection limit.

*Таблица ЭП2*

**Химический состав хлорита (мас. %)**

*Table ES2*

**Chemical composition of chlorite (wt. %)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| № п/п | № лаб. | MgO | Al2O3 | SiO2 | MnO | FeO | CaO | H2O\* | Сумма\*\* |
| 1 | 20430a | 14.71 | 20.73 | 26.29 | 0.25 | 28.45 | - | 11.57 | 102.00 |
| (Fe2.46Mg2.27Al1.25Mn0.02)6.00(Al1.28Si2.72)4.00O10.00(OH)8.00 | | | | | | | | | |
| 2 | 20430b | 15.05 | 20.49 | 26.15 | 0.16 | 27.44 | - | 11.47 | 100.76 |
| (Fe2.40Mg2.34Al1.25Mn0.01)6.00(Al1.27Si2.73)4.00O10.00(OH)8.00 | | | | | | | | | |
| 3 | 20430c | 14.07 | 21.97 | 24.88 | 0.25 | 28.04 | - | 11.40 | 100.62 |
| (Fe2.46Mg2.20Al1.34Mn0.02)6.02(Al1.39Si2.61)4.00O10.00(OH)8.00 | | | | | | | | | |
| 4 | 20430e | 13.32 | 21.55 | 24.96 | - | 29.52 | - | 11.35 | 100.70 |
| (Fe2.61Mg2.10Al1.32)6.03(Al1.36Si2.64)4.00O10.00(OH)8.00 | | | | | | | | | |
| 5 | 20430f | 15.11 | 20.43 | 25.98 | 0.17 | 27.84 | - | 11.47 | 101.00 |
| (Fe2.43Mg2.35Al1.23Mn0.02)6.03(Al1.29Si2.71)4.00O10.00(OH)8.00 | | | | | | | | | |
| 6 | 20430h | 14.25 | 21.60 | 24.85 | - | 29.02 | - | 11.42 | 101.15 |
| (Fe2.55Mg2.23Al1.28)6.06(Al1.39Si2.61)4.00O10.00(OH)8.00 | | | | | | | | | |
| 7 | 20430i | 14.75 | 21.30 | 25.58 | 0.27 | 27.27 | - | 11.46 | 100.63 |
| (Fe2.39Mg2.30Al1.30Mn0.02)6.01(Al1.32Si2.68)4.00O10.00(OH)8.00 | | | | | | | | | |
| 8 | 20430j | 16.99 | 20.88 | 26.53 | 0.18 | 25.54 | 0.23 | 11.73 | 102.08 |
| (Mg2.59Fe2.18Al1.22Ca0.03Mn0.02)6.04(Al1.29Si2.71)4.00O10.00(OH)8.00 | | | | | | | | | |
| 9 | 20430k | 14.47 | 21.91 | 25.31 | 0.29 | 28.37 | - | 11.55 | 101.90 |
| (Fe2.46Mg2.24Al1.31Mn0.03)6.04(Al1.37Si2.63)4.00O10.00(OH)8.00 | | | | | | | | | |
| 10 | 20430l | 14.34 | 21.42 | 25.69 | 0.23 | 29.1 | - | 11.57 | 102.36 |
| (Fe2.52Mg2.21Al1.28Mn0.02)6.03(Al1.34Si2.66)4.00O10.00(OH)8.00 | | | | | | | | | |
| 11 | 20430m | 17.00 | 20.23 | 26.86 | - | 25.83 | - | 11.68 | 101.60 |
| (Mg2.60Fe2.22Al1.20)6.02(Al1.24Si2.76)4.00O10.00(OH)8.00 | | | | | | | | | |
| 12 | 20430n | 17.57 | 20.39 | 26.91 | 0.22 | 24.19 | 0.28 | 11.71 | 101.26 |
| (Mg2.68Fe2.07Al1.21Ca0.03Mn0.02)6.01(Al1.25Si2.75)4.00O10.00(OH)8.00 | | | | | | | | | |

*Примечание.* \* – рассчитано по стехиометрии хлорита; \*\* – сумма анализа с учетом расчетной воды. Формулы рассчитаны на сумму зарядов равную 28.

*Note.* \* – calculated based on chlorite stoichiometry; \*\* – analytical total taking into account the calculated water. Formulas are recalculated to the charge sum of 28.