

M Kokkola/PAL

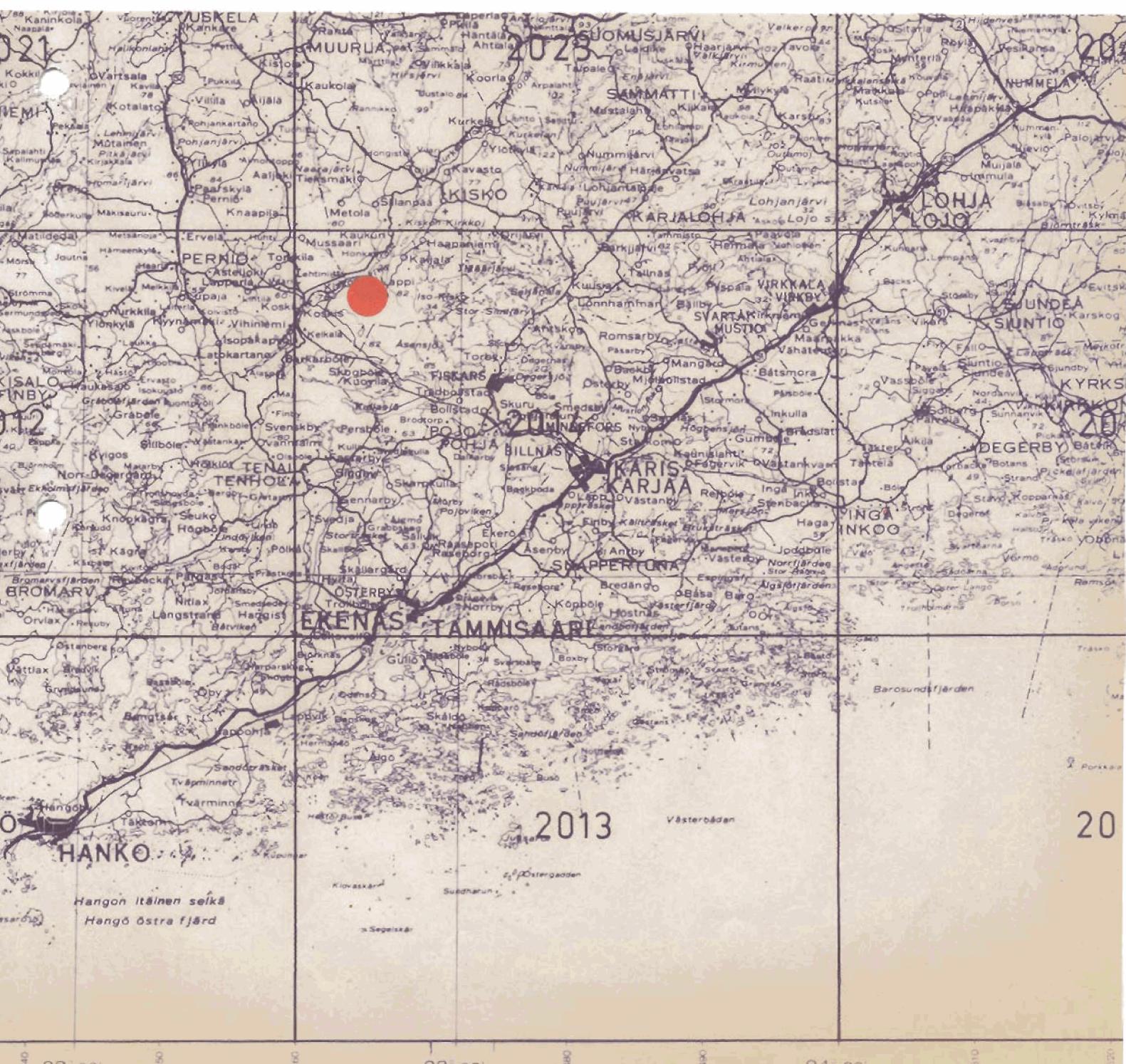
7.4.1982

1 (3)

ARKISTOKAPPALO

## JÄTEALUEEN SOIJATUTKIMUS KISKO, AIJALA

Sijainti: 1:400 000



### Tutkimusalueen sijainti

Tutkimusalue sijaitsee Aijalan kaivoksen välittömässä läheisyydessä. Tarkempi sijainti ilmenee raportin etulehtenä olevalta 1:40000 kartalta.

### Tutkimuksen tarkoitus

Tutkimuksella pyrittiin selvittämään jätealueen mahdollisesti sisältämät arvometallipitoisuudet.

Näytteenotto Näytteenotto tehtiin 13.-15.10. sekä 28.-30.10. välienä aikana Geotek Oy:n A-sondilla. Tällöin alueelta kerättiin 28 pistestä yhteensä 249 näytettä. OKME:sta näytteenottoon osallistuivat R Räsänen ja J Salo. Näytteenottoa vaikeutti sateinen syksy, joka lietti jätealueutta ja aiheutti mm. A-sondin uppoamisen. Jätteen keskipaksuus näytteenottopisteissä oli 8,7 m:ä ja maksimipaksuus 12,0 m:ää.

Näytteet kuivattiin Outokummussa Keretin laboratorion vetokaapissa ja analysoitiin Olarissa AAS-menetelmällä. Näytteistä analysoitiin Cu, Zn, Ni, Co, Pb, Mn, Ag ja Fe sekä valituista näytteistä myös Au. Tulokset on esitetty liitteenä olevalla atk-listalla sekä pylväsdiagrammeina liitekarttoilla.

### Tulosten tarkastelua

Cu Cu:n keskipitoisuus alueella on 1209 ppm maksimipitoisuuden ollessa yli 6 000 ppm. Korkeimmat pitoisuudet sijoittuvat jätealueen pohjoisosaan pisteisiin 17, 18 ja 21, niiden alaosien.

Zn Zn:n keskipitoisuus näyteissä oli 5070 ppm maksimipitoisuuden ollessa 1,9 %. Zn:n korkeimmat pitoisuudet alueelle sijoittuvat epätasaisesti eikä Zn näytä muodostavan Cu:n tavoin voimakkaampaa rikastumisaluetta.

Pb Pb:n keskipitoisuus alueella on 1077 ppm maksimipitoisuuden ollessa 5 890 ppm. Pb:n pitoisuudet ovat selvästi korkeampia jätekerroksen pintaosissa, mikä johtunee syötteen laadusta. Maksimipitoisuudet sijaitsevat Zn:n tavoin kuitenkin epätasaisesti alueella.

Ag Ag:n keskipitoisuudet jäteessä olivat 7,95 ppm maksimipitoisuuden olessa 23 ppm. Ag-pitoisuudet näyttävät seuraavan jossain määrin Pb:ää.

Ni ja Co Ni:n ja Co:n pitoisuudet jäteessä ovat muutamia pöikkeuksia lukuun ottamatta lähinnä tausta-arvoja.

Au Valituista 39 näytteestä analysoitiin myös Au. Pitoisuudet ovat yleensä melko alhaiset, keskiarvo ko.

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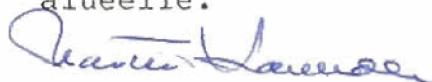
näytteissä on 0,69 ppm, maksimipitoisuus on kuitenkin 3,5 ppm.

Cu/Pb-suhde

Cu/Pb-suhde osoittaa alueella selvästi eri jätetyyppien levinneisyyttä. Jätealueen syvemmissä alueissa on vallalla voimakkaasti Cu-valtainen jätte, kun taas pintaosia dominoi Pb.

Yhdistelmä

Suoritetussa tutkimuksessa on todettu, että Aijalan jätealueella on selvästi anomaisista Cu-, Zn-, Pb- ja Ag-pitoisuutta. Lukun ottamatta Cu:n ja Pb:n selvästi erilaista konsestraatiota jätekerrosten eri osissa voitaneen jätettä pitää suhteellisen homogeenisena ja nyt suoritettua näytteenottoa kohtuullisen edustavana. Jätealueen lounaisosasta ei näytteenottoa voitu vetisyyden takia suorittaa, joten arviointi ei ulotu tälle alueelle.

  
Martti Kokkola

JAKELU

- 1 P Rouhunkoski - M Ketola - E Pehkonen - A Stenberg  
- Arkisto
- 2 ja 3 M Virtanen KTR
- 4 M Kokkola

LIITTEET

- 1 Näytepistekartta 1:4 000
- 2 Pylväsdiaigrammikartat; Cu, Zn, Pb, Ag ja Fe 1:2 000 Cu/Pb
- 3 Pistekohtaiset tulokset, atk-listaus



Kuva 1 Geotek Oy:n A-sondi näytteenotossa Aijalan jätealueella



Kuva 2

Jätettiä A-sondin  
spiraalikairassa. Jätteen  
yläosa on hapettunut, mikä  
näkyy selvästi värimuutoksena.

Kuva 3

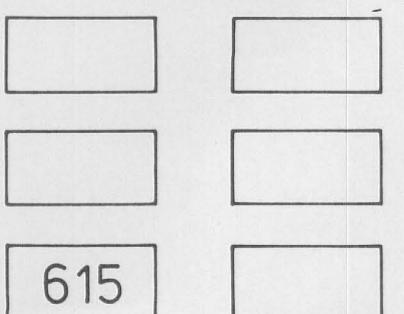
A-sondi uponneena jätealueelle.



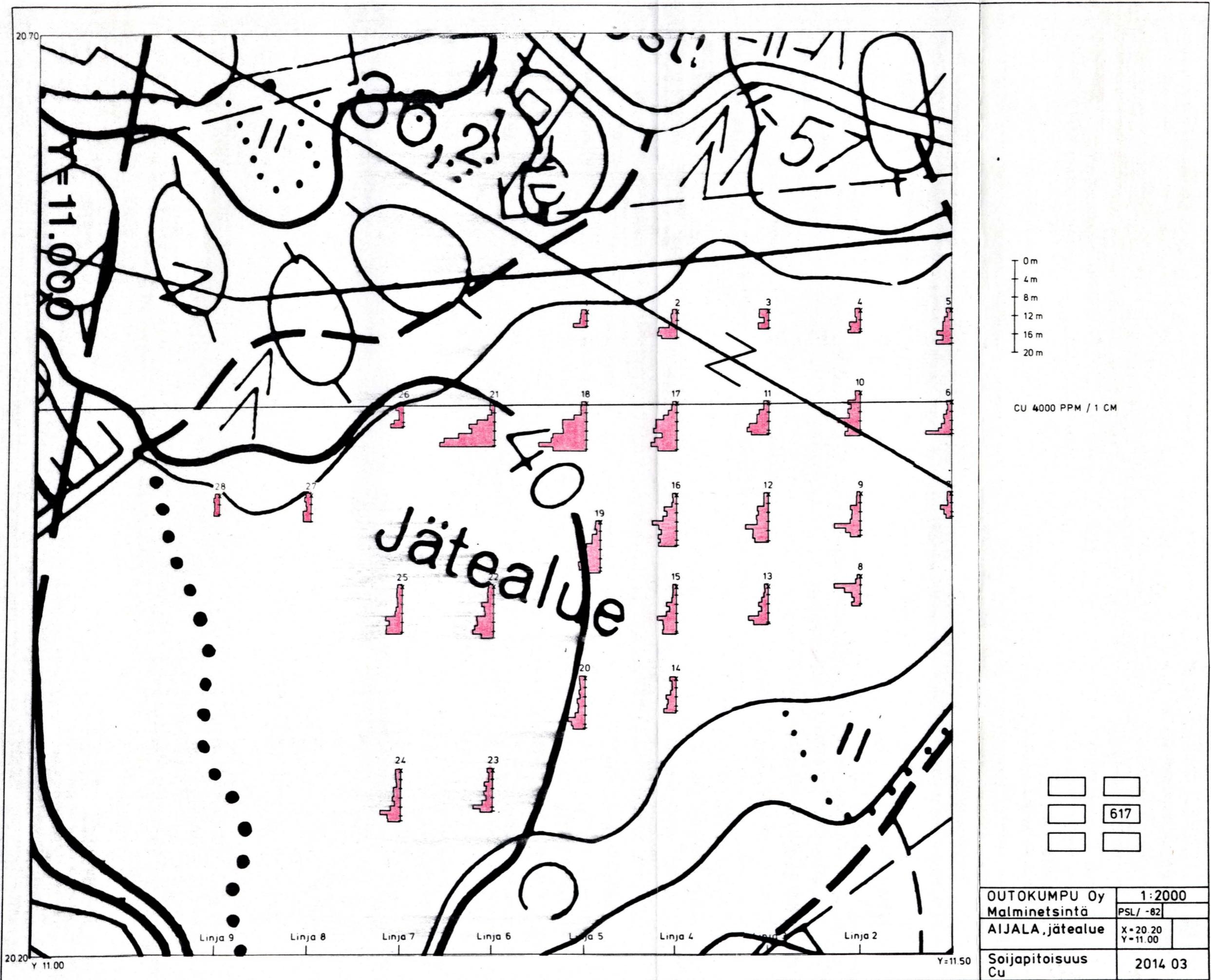
Kuva 4 A-sondin nostoyrityksiä traktorilla käyttäen apuna vanhoja kaivoksen hissivaijereita. Taustalla on sora-kerroksella peitettyä jätealuetta.

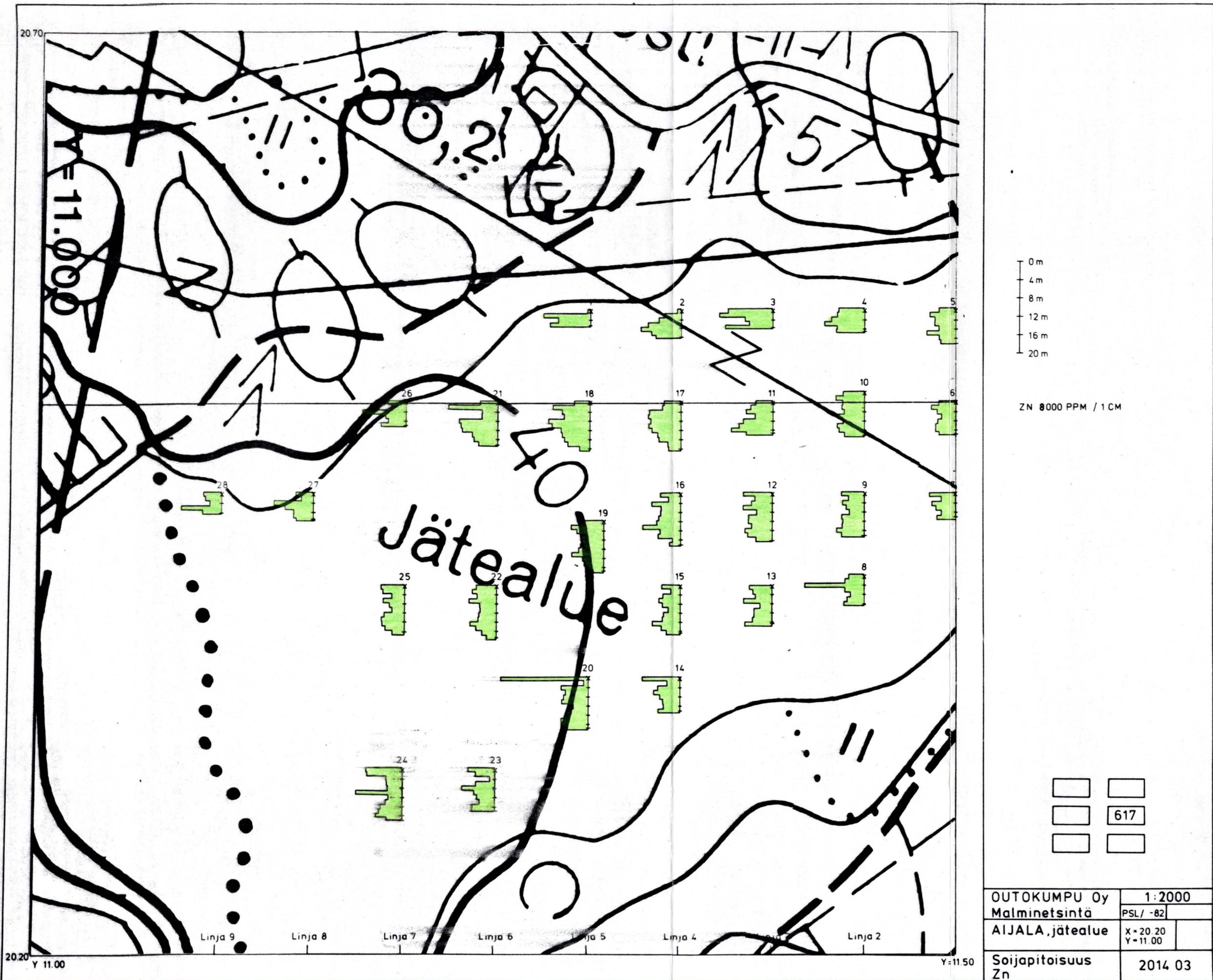


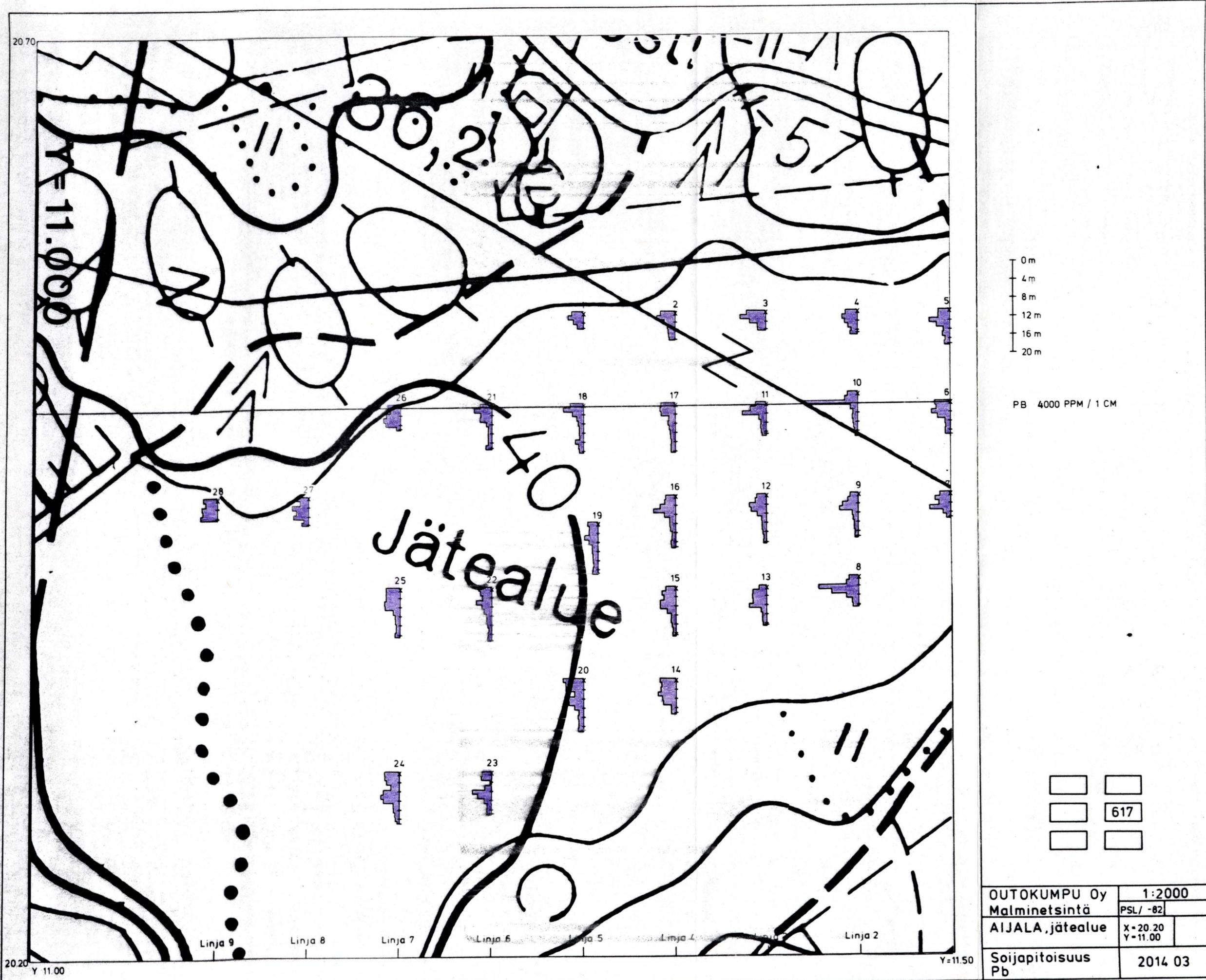
— NÄYTTEENOTTOLINJA  
● NÄYTEPISTENUMERO  
X=20500  
●/● JÄTEEN  
PAKSUUS M:NÄ

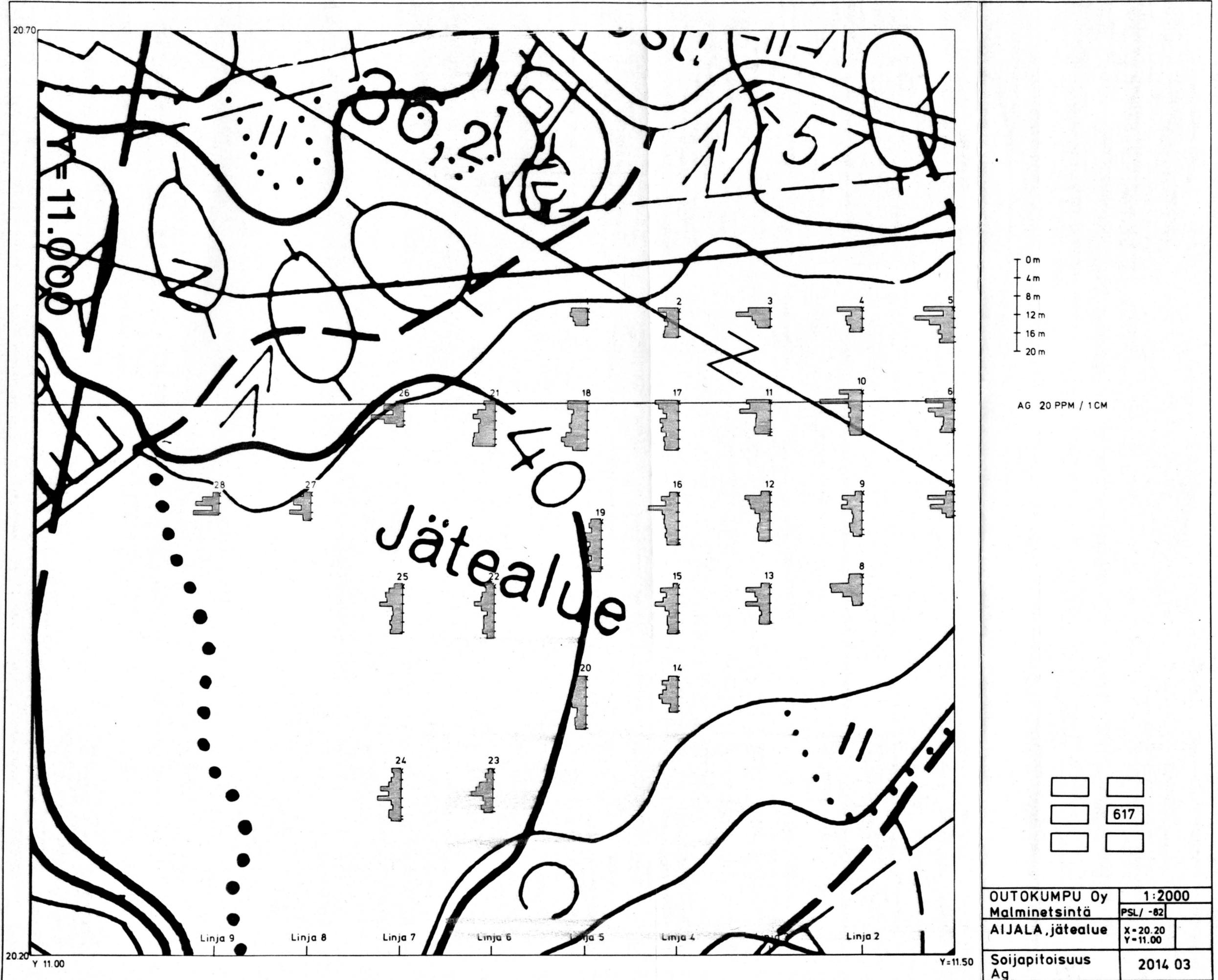


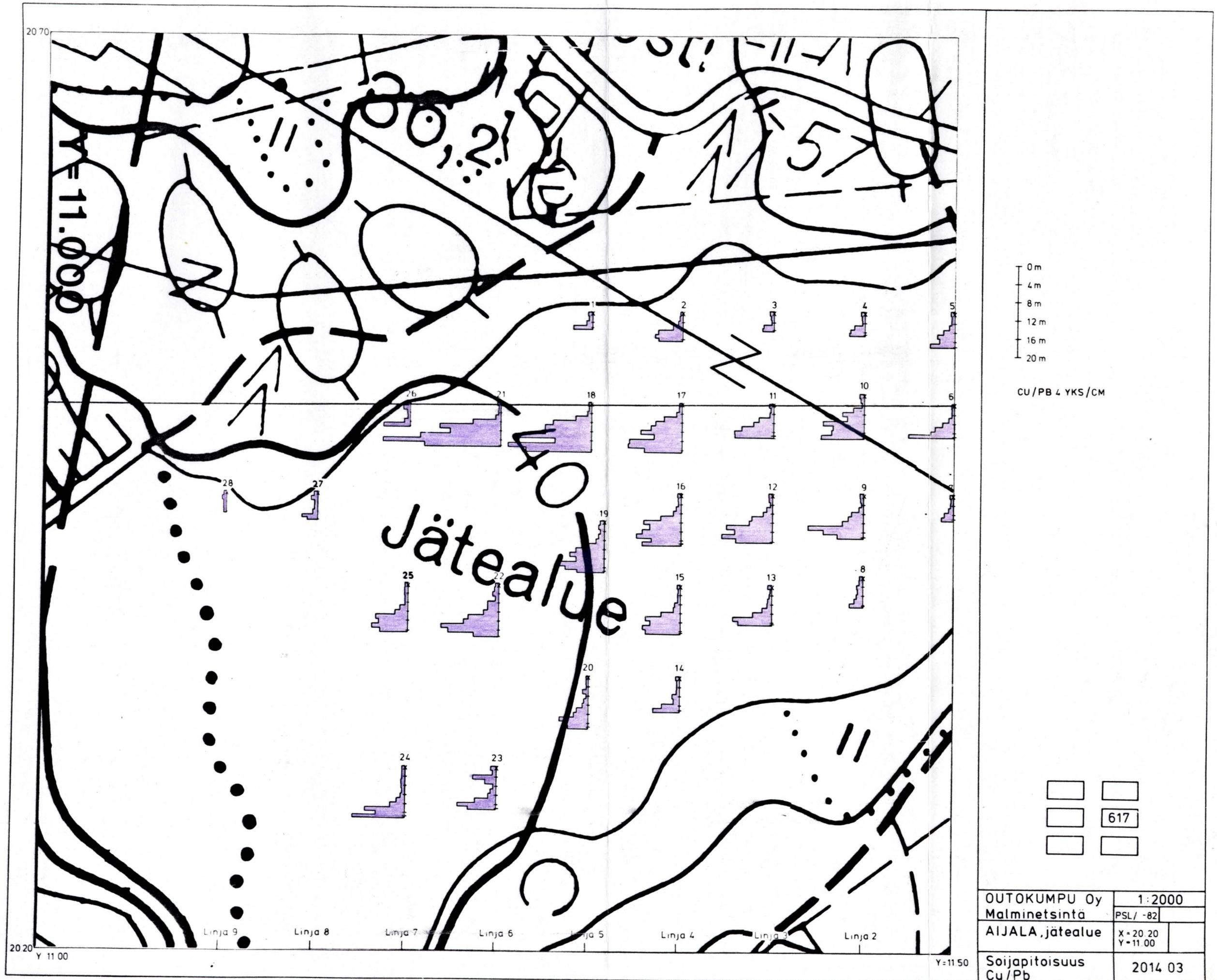
|               |            |
|---------------|------------|
| OUTOKUMPU Oy  | 1 : 4000   |
| Mälminetsintä |            |
| MK/MLK-81     |            |
| AIJALA        | 6674 / 464 |
| Jätealue      | 2014 03    |
| NÄYTEPISTE    | B.C.D.     |

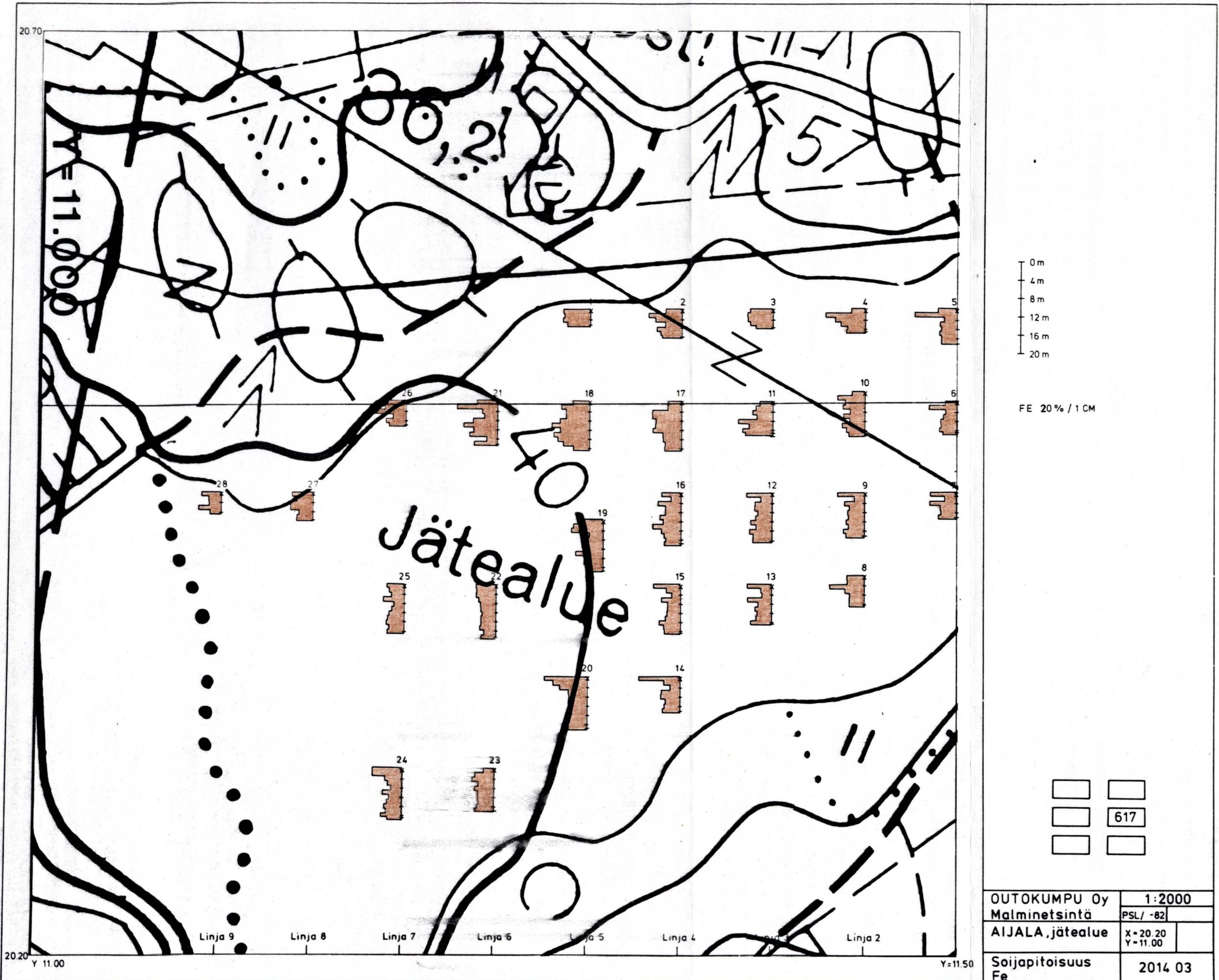












PSL

8165100-65348

01.02.82 SIVU 1

## LISTA/KALLIOMURSKE-SOIJANÄYTTEENOTTO AJALA -JÄTE

| ANRO    | KTL     | X      | Y      | LINJA | CU<br>PPM | ZN<br>PPM | NI<br>PPM | CO<br>PPM | PB<br>PPM | MN<br>PPM | Au<br>PPM | Ag<br>PPM | Mo<br>PPM | Mg<br>PPM | Al<br>PPM | Fe<br>% | LSY<br>DM |
|---------|---------|--------|--------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|
| 8165100 | 2014030 | 20.550 | 11.300 | 05    | 634       | 690       | 30        | 51        | 1304      | 531       | 9         | 10        |           |           | 14.70     | 10      |           |
| 8165101 | 2014030 | 20.550 | 11.300 | 05    | 659       | 10300     | 25        | 35        | 1698      | 552       | 108       |           |           |           | 14.21     | 20      |           |
| 8165102 | 2014030 | 20.550 | 11.300 | 05    | 768       | 7100      | 31        | 33        | 1111      | 696       | 77        |           |           | 14.88     | 30        |         |           |
| 8165103 | 2014030 | 20.550 | 11.300 | 05    | 1463      | 8900      | 29        | 30        | 679       | 781       |           |           |           | 12.00d    | 40        |         |           |
| 8165104 | 2014030 | 20.550 | 11.350 | 04    | 513       | 930       | 20        | 27        | 1604      | 358       | 11        |           |           | 9.18      | 10        |         |           |
| 8165105 | 2014030 | 20.550 | 11.350 | 04    | 577       | 3840      | 20        | 42        | 1493      | 547       | 7         |           |           | 10.42     | 20        |         |           |
| 8165106 | 2014030 | 20.550 | 11.350 | 04    | 609       | 5050      | 21        | 24        | 1183      | 634       | 8         |           |           | 14.72     | 30        |         |           |
| 8165107 | 2014030 | 20.550 | 11.350 | 04    | 682       | 7400      | 17        | 18        | 831       | 813       | 6         |           |           | 9.31      | 40        |         |           |
| 8165108 | 2014030 | 20.550 | 11.350 | 04    | 2030      | 9000      | 27        | 32        | 755       | 742       | 7         |           |           | 10.97     | 20        |         |           |
| 8165109 | 2014030 | 20.550 | 11.350 | 04    | 2167      | 6700      | 16        | 27        | 709       | 744       | 0.54      | 8         |           | 11.86     | 60        |         |           |
| 8165110 | 2014030 | 20.550 | 11.350 | 04    | 1722      | 5740      | 21        | 34        | 648       | 693       | 8         |           |           | 10.96     | 65        |         |           |
| 8165111 | 2014030 | 20.550 | 11.400 | 03    | 1025      | 9800      | 21        | 37        | 2113      | 446       | 12        |           |           | 12.59     | 10        |         |           |
| 8165112 | 2014030 | 20.550 | 11.400 | 03    | 1034      | 11700     | 23        | 31        | 2838      | 345       | 1.30      | 19        |           | 14.17     | 20        |         |           |
| 8165113 | 2014030 | 20.550 | 11.400 | 03    | 514       | 6120      | 24        | 24        | 1752      | 607       | 10        |           |           | 14.62     | 29        |         |           |
| 8165114 | 2014030 | 20.550 | 11.400 | 03    | 1149      | 5100      | 27        | 24        | 969       | 691       | 8         |           |           | 12.29     | 40        |         |           |
| 8165115 | 2014030 | 20.550 | 11.400 | 03    | 1151      | 10400     | 16        | 20        | 900       | 871       | 0.53      | 7         |           | 9.64      | 45        |         |           |
| 8165116 | 2014030 | 20.550 | 11.450 | 02    | 594       | 5730      | 13        | 30        | 1308      | 278       | 14        |           |           | 7.68      | 10        |         |           |
| 8165117 | 2014030 | 20.550 | 11.450 | 02    | 574       | 6000      | 26        | 30        | 1629      | 637       | 5         |           |           | 21.50     | 20        |         |           |
| 8165118 | 2014030 | 20.550 | 11.450 | 02    | 419       | 7300      | 24        | 27        | 1373      | 505       | 9         |           |           | 16.35     | 30        |         |           |
| 8165119 | 2014030 | 20.550 | 11.450 | 02    | 1192      | 8800      | 29        | 24        | 1008      | 628       | 8         |           |           | 13.30     | 40        |         |           |
| 8165120 | 2014030 | 20.550 | 11.450 | 02    | 1048      | 6020      | 21        | 23        | 653       | 833       | 6         |           |           | 9.65      | 50        |         |           |
| 8165121 | 2014030 | 20.550 | 11.450 | 02    | 1346      | 6210      | 20        | 23        | 773       | 708       | 7         |           |           | 10.39     | 55        |         |           |
| 8165122 | 2014030 | 20.550 | 11.500 | 01    | 538       | 3790      | 17        | 34        | 1274      | 422       | 10        |           |           | 10.28     | 10        |         |           |
| 8165123 | 2014030 | 20.550 | 11.500 | 01    | 413       | 5780      | 32        | 34        | 1295      | 677       | 5         |           |           | 23.08     | 20        |         |           |
| 8165124 | 2014030 | 20.550 | 11.500 | 01    | 732       | 4680      | 27        | 16        | 2254      | 270       | 1.30      | 21        |           | 6.72      | 30        |         |           |
| 8165125 | 2014030 | 20.550 | 11.500 | 01    | 874       | 4680      | 24        | 20        | 1469      | 486       | 13        |           |           | 9.04      | 40        |         |           |
| 8165126 | 2014030 | 20.550 | 11.500 | 01    | 883       | 3810      | 28        | 10        | 715       | 688       | 7         |           |           | 8.55      | 50        |         |           |
| 8165127 | 2014030 | 20.550 | 11.500 | 01    | 1559      | 6460      | 23        | 18        | 822       | 785       | 8         |           |           | 9.47      | 60        |         |           |
| 8165128 | 2014030 | 20.550 | 11.500 | 01    | 870       | 3720      | 28        | 17        | 519       | 781       | 6         |           |           | 8.38      | 70        |         |           |
| 8165129 | 2014030 | 20.550 | 11.500 | 01    | 1645      | 3340      | 22        | 21        | 500       | 783       | 8         |           |           | 8.36      | 80        |         |           |
| 8165130 | 2014030 | 20.550 | 11.500 | 01    | 534       | 3860      | 16        | 17        | 1683      | 376       | 15        |           |           | 6.34      | 10        |         |           |
| 8165131 | 2014030 | 20.550 | 11.500 | 01    | 414       | 5550      | 26        | 24        | 1502      | 721       | 6         |           |           | 15.08     | 20        |         |           |

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## LISTA/KALLIOMURSK-E-SOIJANÄYTTEENOTTO

01.02.82 SIVU 2

| ANRO    | KTL     | X      | Y      | LINJA | CU<br>PPM | ZN<br>PPM | NI<br>PPM | CO<br>PPM | PB<br>PPM | MN<br>PPM | Au<br>PPM | Ag<br>PPM | Mo<br>PPM | Mg<br>PPM | Al<br>PPM | Fe<br>% | L-SY<br>DM |
|---------|---------|--------|--------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|------------|
| 8165132 | 2014030 | 20.500 | 11.500 | 01    | 543       | 4220      | 21        | 14        | 2054      | 478       |           | 14        |           |           |           | 6.28    | 30         |
| 8165133 | 2014030 | 20.500 | 11.500 | 01    | 864       | 3210      | 21        | 14        | 1395      | 632       |           | 10        |           |           |           | 7.35    | 40         |
| 8165134 | 2014030 | 20.500 | 11.500 | 01    | 763       | 4130      | 24        | 10        | 590       | 748       |           | 5         |           |           |           | 8.79    | 50         |
| 8165135 | 2014030 | 20.500 | 11.500 | 01    | 1112      | 4600      | 23        | 19        | 522       | 775       |           | 6         |           |           |           | 9.72    | 60         |
| 8165136 | 2014030 | 20.500 | 11.500 | 01    | 1418      | 4570      | 26        | 25        | 535       | 670       |           | 7         |           |           |           | 9.54    | 70         |
| 8165137 | 2014030 | 20.500 | 11.500 | 01    | 2847      | 3810      | 21        | 16        | 557       | 818       | 0.40      | 4         |           |           |           | 7.71    | 75         |
| 8165138 | 2014030 | 20.450 | 11.500 | 01    | 460       | 5830      | 21        | 21        | 1146      | 478       |           | 14        |           |           |           | 14.16   | 10         |
| 8165139 | 2014030 | 20.450 | 11.500 | 01    | 481       | 3250      | 20        | 12        | 1053      | 377       |           | 5         |           |           |           | 6.19    | 20         |
| 8165140 | 2014030 | 20.450 | 11.500 | 01    | 410       | 5300      | 27        | 21        | 1274      | 757       |           | 5         |           |           |           | 14.45   | 30         |
| 8165141 | 2014030 | 20.450 | 11.500 | 01    | 1240      | 4430      | 24        | 21        | 2288      | 602       |           | 13        |           |           |           | 8.80    | 40         |
| 8165142 | 2014030 | 20.450 | 11.500 | 01    | 824       | 3200      | 23        | 18        | 823       | 808       |           | 6         |           |           |           | 8.40    | 50         |
| 8165143 | 2014030 | 20.450 | 11.500 | 01    | 623       | 4190      | 21        | 12        | 462       | 755       |           | 4         |           |           |           | 9.81    | 60         |
| 8165144 | 2014030 | 20.405 | 11.450 | 02    | 349       | 3430      | 22        | 14        | 1040      | 411       |           | 7         |           |           |           | 9.51    | 10         |
| 8165145 | 2014030 | 20.405 | 11.450 | 02    | 534       | 4210      | 23        | 17        | 1330      | 443       |           | 7         |           |           |           | 9.32    | 20         |
| 8165146 | 2014030 | 20.405 | 11.450 | 02    | 2896      | 13000     | 62        | 71        | 4327      | 576       | 0.76      | 17        |           |           |           | 18.83   | 30         |
| 8165147 | 2014030 | 20.405 | 11.450 | 02    | 1750      | 4270      | 216       | 33        | 2914      | 501       | 7.00      | 17        |           |           |           | 10.51   | 40         |
| 8165148 | 2014030 | 20.405 | 11.450 | 02    | 965       | 3040      | 36        | 25        | 1295      | 706       |           | 11        |           |           |           | 8.10    | 50         |
| 8165149 | 2014030 | 20.405 | 11.450 | 02    | 704       | 3780      | 29        | 21        | 998       | 712       |           | 5         |           |           |           | 8.28    | 60         |
| 8165150 | 2014030 | 20.405 | 11.450 | 02    | 970       | 4420      | 28        | 23        | 634       | 774       |           | 6         |           |           |           | 8.34    | 70         |
| 8165151 | 2014030 | 20.450 | 11.450 | 02    | 387       | 5070      | 23        | 31        | 918       | 403       |           | 4         |           |           |           | 14.74   | 10         |
| 8165152 | 2014030 | 20.450 | 11.450 | 02    | 437       | 3540      | 18        | 23        | 1162      | 305       |           | 11        |           |           |           | 5.74    | 20         |
| 8165153 | 2014030 | 20.450 | 11.450 | 02    | 438       | 4850      | 23        | 21        | 1732      | 632       |           | 8         |           |           |           | 11.00   | 30         |
| 8165154 | 2014030 | 20.450 | 11.450 | 02    | 1093      | 4020      | 120       | 30        | 2079      | 574       | 0.54      | 11        |           |           |           | 8.48    | 40         |
| 8165155 | 2014030 | 20.450 | 11.450 | 02    | 922       | 3360      | 27        | 22        | 700       | 801       |           | 6         |           |           |           | 9.37    | 50         |
| 8165156 | 2014030 | 20.450 | 11.450 | 02    | 972       | 5000      | 23        | 21        | 568       | 752       |           | 5         |           |           |           | 9.00    | 60         |
| 8165157 | 2014030 | 20.450 | 11.450 | 02    | 1130      | 4770      | 22        | 28        | 482       | 686       |           | 5         |           |           |           | 10.17   | 70         |
| 8165158 | 2014030 | 20.450 | 11.450 | 02    | 2851      | 4930      | 26        | 30        | 465       | 797       | 0.35      | 7         |           |           |           | 9.07    | 80         |
| 8165159 | 2014030 | 20.450 | 11.450 | 02    | 1632      | 6100      | 23        | 39        | 307       | 615       |           | 6         |           |           |           | 11.74   | 90         |
| 8165160 | 2014030 | 20.450 | 11.450 | 02    | 1129      | 5030      | 25        | 30        | 390       | 757       |           | 5         |           |           |           | 10.50   | 100        |
| 8165161 | 2014030 | 20.505 | 11.450 | 02    | 577       | 4630      | 16        | 37        | 1127      | 248       |           | 13        |           |           |           | 7.06    | 10         |
| 8165162 | 2014030 | 20.505 | 11.450 | 02    | 529       | 6210      | 31        | 24        | 1449      | 607       |           | 7         |           |           |           | 14.98   | 20         |
| 8165163 | 2014030 | 20.505 | 11.450 | 02    | 1374      | 4700      | 28        | 27        | 5890      | 596       | 0.92      | 23        |           |           |           | 10.83   | 30         |
| 8165164 | 2014030 | 20.505 | 11.450 | 02    | 1003      | 4920      | 27        | 29        | 831       | 787       |           | 8         |           |           |           | 11.92   | 40         |

## LISTA/KALLIOMURSK-E-SOIJANÄYTTEENUTTO

01-02-82 SIVU 3

| ANRO    | KTL     | X      | Y      | LINJA | CU<br>PPM | ZN<br>PPM | NI<br>PPM | CU<br>PPM | PB<br>PPM | MN<br>PPM | AU<br>PPM | AG<br>PPM | MO<br>PPM | MG<br>PPM | AL<br>PPM | FE<br>% | L-SY<br>UM |     |
|---------|---------|--------|--------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|------------|-----|
|         |         |        |        |       |           |           |           |           |           |           |           |           |           |           |           |         |            |     |
| 8165165 | 2014030 | 20.505 | 11.450 | 02    | 1388      | 4370      | 23        | 23        | 581       | 765       | 6         | 7         | 7         | 7         | 7         | 8.15    | 50         |     |
| 8165166 | 2014030 | 20.505 | 11.450 | 02    | 1206      | 5700      | 24        | 33        | 640       | 698       | 11-67     | 60        | 11-67     | 60        | 11-67     | 60      | 11-67      | 60  |
| 8165167 | 2014030 | 20.505 | 11.450 | 02    | 2477      | 4580      | 27        | 28        | 545       | 786       | 8         | 7         | 7         | 7         | 7         | 8.50    | 70         |     |
| 8165168 | 2014030 | 20.505 | 11.450 | 02    | 1653      | 5900      | 29        | 37        | 481       | 710       | 12-53     | 80        | 12-53     | 80        | 12-53     | 80      | 12-53      | 80  |
| 8165169 | 2014030 | 20.505 | 11.450 | 02    | 1363      | 5530      | 25        | 34        | 380       | 802       | 10-27     | 90        | 10-27     | 90        | 10-27     | 90      | 10-27      | 90  |
| 8165170 | 2014030 | 20.505 | 11.450 | 02    | 1689      | 4290      | 22        | 32        | 357       | 717       | 8.72      | 100       | 8.72      | 100       | 8.72      | 100     | 8.72       | 100 |
| 8165171 | 2014030 | 20.500 | 11.400 | 03    | 584       | 3690      | 17        | 29        | 1109      | 300       | 7.12      | 100       | 7.12      | 100       | 7.12      | 100     | 7.12       | 100 |
| 8165172 | 2014030 | 20.500 | 11.400 | 03    | 552       | 4810      | 28        | 20        | 17+0      | 508       | 9.41      | 20        | 9.41      | 20        | 9.41      | 20      | 9.41       | 20  |
| 8165173 | 2014030 | 20.500 | 11.400 | 03    | 1055      | 5730      | 27        | 27        | 2025      | 521       | 11-11     | 30        | 11-11     | 30        | 11-11     | 30      | 11-11      | 30  |
| 8165174 | 2014030 | 20.500 | 11.400 | 03    | 1311      | 3830      | 24        | 23        | 817       | 744       | 8.81      | 40        | 8.81      | 40        | 8.81      | 40      | 8.81       | 40  |
| 8165175 | 2014030 | 20.500 | 11.400 | 03    | 1303      | 6400      | 40        | 57        | 607       | 581       | 18-78     | 50        | 18-78     | 50        | 18-78     | 50      | 18-78      | 50  |
| 8165176 | 2014030 | 20.500 | 11.400 | 03    | 2153      | 7300      | 30        | 32        | 620       | 794       | 12-92     | 60        | 12-92     | 60        | 12-92     | 60      | 12-92      | 60  |
| 8165177 | 2014030 | 20.500 | 11.400 | 03    | 2359      | 9000      | 33        | 50        | 550       | 733       | 16-49     | 70        | 16-49     | 70        | 16-49     | 70      | 16-49      | 70  |
| 8165178 | 2014030 | 20.500 | 11.400 | 03    | 1895      | 5760      | 28        | 49        | 449       | 734       | 15-08     | 76        | 15-08     | 76        | 15-08     | 76      | 15-08      | 76  |
| 8165179 | 2014030 | 20.450 | 11.400 | 03    | 480       | 6380      | 27        | 26        | 1001      | 488       | 13-81     | 100       | 13-81     | 100       | 13-81     | 100     | 13-81      | 100 |
| 8165180 | 2014030 | 20.450 | 11.400 | 03    | 498       | 3830      | 22        | 26        | 1194      | 331       | 6-14      | 20        | 6-14      | 20        | 6-14      | 20      | 6-14       | 20  |
| 8165181 | 2014030 | 20.450 | 11.400 | 03    | 493       | 4590      | 22        | 22        | 1881      | 493       | 9-35      | 30        | 9-35      | 30        | 9-35      | 30      | 9-35       | 30  |
| 8165182 | 2014030 | 20.450 | 11.400 | 03    | 1155      | 6400      | 109       | 30        | 1000      | 623       | 9-40      | 40        | 9-40      | 40        | 9-40      | 40      | 9-40       | 40  |
| 8165183 | 2014030 | 20.450 | 11.400 | 03    | 1071      | 3480      | 31        | 21        | 1025      | 603       | 7-84      | 50        | 7-84      | 50        | 7-84      | 50      | 7-84       | 50  |
| 8165184 | 2014030 | 20.450 | 11.400 | 03    | 1272      | 5140      | 25        | 30        | 522       | 702       | 9-02      | 60        | 9-02      | 60        | 9-02      | 60      | 9-02       | 60  |
| 8165185 | 2014030 | 20.450 | 11.400 | 03    | 1224      | 5230      | 34        | 33        | 475       | 678       | 11-70     | 70        | 11-70     | 70        | 11-70     | 70      | 11-70      | 70  |
| 8165186 | 2014030 | 20.450 | 11.400 | 03    | 2459      | 4500      | 26        | 23        | 489       | 702       | 8-73      | 60        | 8-73      | 60        | 8-73      | 60      | 8-73       | 60  |
| 8165187 | 2014030 | 20.450 | 11.400 | 03    | 1060      | 5960      | 33        | 40        | 402       | 769       | 12-39     | 90        | 12-39     | 90        | 12-39     | 90      | 12-39      | 90  |
| 8165188 | 2014030 | 20.450 | 11.400 | 03    | 1603      | 5380      | 35        | 38        | 300       | 793       | 10-32     | 100       | 10-32     | 100       | 10-32     | 100     | 10-32      | 100 |
| 8165189 | 2014030 | 20.450 | 11.400 | 03    | 1444      | 3520      | 45        | 41        | 359       | 655       | 10-41     | 110       | 10-41     | 110       | 10-41     | 110     | 10-41      | 110 |
| 8165190 | 2014030 | 20.400 | 11.400 | 03    | 427       | 5010      | 32        | 26        | 872       | 483       | 13-39     | 10        | 13-39     | 10        | 13-39     | 10      | 13-39      | 10  |
| 8165191 | 2014030 | 20.400 | 11.400 | 03    | 357       | 4240      | 22        | 16        | 1541      | 380       | 5-95      | 20        | 5-95      | 20        | 5-95      | 20      | 5-95       | 20  |
| 8165192 | 2014030 | 20.400 | 11.400 | 03    | 468       | 3720      | 21        | 21        | 1592      | 330       | 5-42      | 30        | 5-42      | 30        | 5-42      | 30      | 5-42       | 30  |
| 8165193 | 2014030 | 20.400 | 11.400 | 03    | 718       | 6240      | 32        | 26        | 1540      | 721       | 13-31     | 40        | 13-31     | 40        | 13-31     | 40      | 13-31      | 40  |
| 8165194 | 2014030 | 20.400 | 11.400 | 03    | 1073      | 2680      | 56        | 21        | 1900      | 596       | 7-55      | 50        | 7-55      | 50        | 7-55      | 50      | 7-55       | 50  |
| 8165195 | 2014030 | 20.400 | 11.400 | 03    | 727       | 3930      | 28        | 21        | 661       | 805       | 9-08      | 60        | 9-08      | 60        | 9-08      | 60      | 9-08       | 60  |
| 8165196 | 2014030 | 20.400 | 11.400 | 03    | 1079      | 3940      | 24        | 22        | 506       | 876       | 7-98      | 70        | 7-98      | 70        | 7-98      | 70      | 7-98       | 70  |
| 8165197 | 2014030 | 20.400 | 11.400 | 03    | 2169      | 4240      | 23        | 23        | 507       | 797       | 8-02      | 80        | 8-02      | 80        | 8-02      | 80      | 8-02       | 80  |

## LISTA/KALLIUMURSKE-SOIJANÄYTTEENUTTO

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| ANRU    | KIL     | X      | Y      | LINJA | CU<br>PPM | ZN<br>PPM | VI<br>PPM | CU<br>PPM | PB<br>PPM | MN<br>PPM | CR<br>PPM | AG'<br>PPM | MU<br>PPM | MG<br>PPM | AL<br>PPM | FE<br>% | L-SY<br>DM |
|---------|---------|--------|--------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|---------|------------|
| 8165198 | 2014030 | 20.400 | 11.400 | 03    | 1599      | 5910      | 27        | 34        | 433       | 832       |           | 6          |           |           |           | 11.58   | 90         |
| 8165199 | 2014030 | 20.350 | 11.350 | 04    | 680       | 8400      | 30        | 43        | 1694      | 508       |           | 5          |           |           |           | 22.35   | 10         |
| 8165200 | 2014030 | 20.350 | 11.350 | 04    | 452       | 2990      | 22        | 23        | 1557      | 395       |           | 8          |           |           |           | 8.89    | 20         |
| 8165201 | 2014030 | 20.350 | 11.350 | 04    | 417       | 4990      | 26        | 16        | 1613      | 352       |           | 6          |           |           |           | 5.40    | 30         |
| 8165202 | 2014030 | 20.350 | 11.350 | 04    | 604       | 5920      | 23        | 20        | 1934      | 624       |           | 8          |           |           |           | 9.97    | 40         |
| 8165203 | 2014030 | 20.350 | 11.350 | 04    | 1085      | 4600      | 37        | 24        | 1437      | 644       |           | 10         |           |           |           | 10.29   | 50         |
| 8165204 | 2014030 | 20.350 | 11.350 | 04    | 809       | 3950      | 24        | 20        | 1340      | 781       |           | 8          |           |           |           | 7.83    | 00         |
| 8165205 | 2014030 | 20.350 | 11.350 | 04    | 960       | 3820      | 21        | 18        | 500       | 841       |           | 4          |           |           |           | 8.49    | 70         |
| 8165206 | 2014030 | 20.350 | 11.350 | 04    | 1337      | 4950      | 21        | 22        | 405       | 793       |           | 5          |           |           |           | 9.51    | 80         |
| 8165207 | 2014030 | 20.400 | 11.350 | 04    | 414       | 4210      | 30        | 30        | 1130      | 447       |           | 3          |           |           |           | 14.89   | 10         |
| 8165208 | 2014030 | 20.400 | 11.350 | 04    | 373       | 2230      | 23        | 18        | 1523      | 384       |           | 10         |           |           |           | 7.77    | 20         |
| 8165209 | 2014030 | 20.400 | 11.350 | 04    | 401       | 3940      | 17        | 15        | 1301      | 350       |           | 6          |           |           |           | 4.98    | 30         |
| 8165210 | 2014030 | 20.400 | 11.350 | 04    | 517       | 4840      | 27        | 20        | 1749      | 655       |           | 8          |           |           |           | 10.56   | 40         |
| 8165211 | 2014030 | 20.400 | 11.350 | 04    | 1688      | 4040      | 37        | 28        | 1731      | 604       |           | 13         |           |           |           | 7.15    | 50         |
| 8165212 | 2014030 | 20.400 | 11.350 | 04    | 751       | 2790      | 24        | 20        | 994       | 726       |           | 7          |           |           |           | 7.23    | 00         |
| 8165213 | 2014030 | 20.400 | 11.350 | 04    | 1121      | 3800      | 23        | 20        | 534       | 817       |           | 5          |           |           |           | 7.53    | 70         |
| 8165214 | 2014030 | 20.400 | 11.350 | 04    | 2114      | 4020      | 20        | 25        | 554       | 751       |           | 6          |           |           |           | 8.41    | 80         |
| 8165215 | 2014030 | 20.400 | 11.350 | 04    | 1475      | 6190      | 26        | 35        | 449       | 781       |           | 6          |           |           |           | 11.73   | 90         |
| 8165216 | 2014030 | 20.400 | 11.350 | 04    | 1409      | 4190      | 26        | 30        | 342       | 771       |           | 5          |           |           |           | 9.27    | 100        |
| 8165217 | 2014030 | 20.400 | 11.350 | 04    | 1530      | 3070      | 30        | 36        | 404       | 657       |           | 6          |           |           |           | 8.83    | 110        |
| 8165218 | 2014030 | 20.450 | 11.350 | 04    | 455       | 4010      | 22        | 22        | 1100      | 507       |           | 5          |           |           |           | 10.58   | 10         |
| 8165219 | 2014030 | 20.450 | 11.350 | 04    | 414       | 2820      | 20        | 19        | 1222      | 342       |           | 9          |           |           |           | 5.58    | 20         |
| 8165220 | 2014030 | 20.450 | 11.350 | 04    | 531       | 6430      | 27        | 22        | 1697      | 677       |           | 7          |           |           |           | 12.55   | 30         |
| 8165221 | 2014030 | 20.450 | 11.350 | 04    | 1377      | 4410      | 35        | 39        | 2429      | 572       |           | 16         |           |           |           | 8.04    | 40         |
| 8165222 | 2014030 | 20.450 | 11.350 | 04    | 1000      | 4560      | 25        | 21        | 1233      | 744       |           | 9          |           |           |           | 8.02    | 50         |
| 8165223 | 2014030 | 20.450 | 11.350 | 04    | 1509      | 4970      | 31        | 36        | 630       | 706       |           | 8          |           |           |           | 11.04   | 60         |
| 8165224 | 2014030 | 20.450 | 11.350 | 04    | 2725      | 5380      | 25        | 30        | 664       | 708       |           | 8          |           |           |           | 9.79    | 70         |
| 8165225 | 2014030 | 20.450 | 11.350 | 04    | 1964      | 8550      | 29        | 41        | 573       | 724       |           | 7          |           |           |           | 15.53   | 80         |
| 8165226 | 2014030 | 20.450 | 11.350 | 04    | 1687      | 4660      | 26        | 36        | 396       | 771       |           | 6          |           |           |           | 10.80   | 90         |
| 8165227 | 2014030 | 20.450 | 11.350 | 04    | 2060      | 5120      | 23        | 38        | 422       | 787       |           | 7          |           |           |           | 9.33    | 100        |
| 8165228 | 2014030 | 20.450 | 11.350 | 04    | 1797      | 1920      | 34        | 29        | 556       | 516       |           | 6          |           |           |           | 8.38    | 110        |
| 8165229 | 2014030 | 20.450 | 11.350 | 04    | 1991      | 2640      | 21        | 42        | 409       | 670       |           | 6          |           |           |           | 9.09    | 117        |
| 8165230 | 2014030 | 20.500 | 11.350 | 04    | 451       | 3840      | 29        | 27        | 1568      | 387       |           | 13         |           |           |           | 7.64    | 10         |

| ANRO    | KTL     | X      | Y      | LINJA | CU<br>PPM | ZN<br>PPM | NI<br>PPM | CO<br>PPM | PB<br>PPM | MN<br>PPM | Au   | ZK<br>PPM | AG<br>PPM | MU<br>PPM | MG<br>PPM | AL<br>PPM | FE<br>% | L-SY<br>DM |
|---------|---------|--------|--------|-------|-----------|-----------|-----------|-----------|-----------|-----------|------|-----------|-----------|-----------|-----------|-----------|---------|------------|
|         |         |        |        |       |           |           |           |           |           |           |      |           |           |           |           |           |         |            |
| 8165231 | 201403D | 20.500 | 11.350 | 04    | 549       | 4160      | 24        | 23        | 1689      | 457       |      |           | 11        |           |           |           | 7.91    | 20         |
| 8165232 | 201403D | 20.500 | 11.350 | 04    | 923       | 7000      | 33        | 33        | 1555      | 622       |      |           | 9         |           |           |           | 16.13   | 30         |
| 8165233 | 201403D | 20.500 | 11.350 | 04    | 1436      | 7300      | 24        | 34        | 738       | 639       |      |           | 7         |           |           |           | 16.15   | 40         |
| 8165234 | 201403D | 20.500 | 11.350 | 04    | 2315      | 6700      | 28        | 41        | 808       | 661       |      |           | 10        |           |           |           | 14.25   | 50         |
| 8165235 | 201403D | 20.500 | 11.350 | 04    | 2310      | 7200      | 27        | 40        | 689       | 712       |      |           | 9         |           |           |           | 14.50   | 60         |
| 8165236 | 201403D | 20.500 | 11.350 | 04    | 2507      | 6500      | 31        | 60        | 574       | 720       |      |           | 10        |           |           |           | 15.78   | 70         |
| 8165237 | 201403D | 20.500 | 11.350 | 04    | 1583      | 5190      | 25        | 34        | 526       | 727       |      |           | 7         |           |           |           | 10.57   | 80         |
| 8165238 | 201403D | 20.500 | 11.350 | 04    | 2480      | 4920      | 29        | 50        | 436       | 683       |      |           | 8         |           |           |           | 10.30   | 90         |
| 8165239 | 201403D | 20.500 | 11.350 | 04    | 2869      | 2460      | 20        | 43        | 489       | 571       | 0.54 |           | 8         |           |           |           | 9.22    | 100        |
| 8165240 | 201403D | 20.500 | 11.350 | 04    | 2054      | 2830      | 24        | 40        | 505       | 630       |      |           | 8         |           |           |           | 9.42    | 110        |
| 8165241 | 201403D | 20.500 | 11.300 | 05    | 524       | 3500      | 22        | 36        | 1470      | 375       |      |           | 11        |           |           |           | 9.30    | 10         |
| 8165242 | 201403D | 20.500 | 11.300 | 05    | 619       | 8100      | 23        | 35        | 2223      | 560       | 0.31 |           | 11        |           |           |           | 15.50   | 20         |
| 8165243 | 201403D | 20.500 | 11.300 | 05    | 557       | 6100      | 30        | 27        | 1267      | 662       |      |           | 7         |           |           |           | 12.88   | 30         |
| 8165244 | 201403D | 20.500 | 11.300 | 05    | 1340      | 5700      | 26        | 32        | 771       | 715       |      |           | 9         |           |           |           | 12.92   | 40         |
| 8165245 | 201403D | 20.500 | 11.300 | 05    | 2578      | 9000      | 27        | 49        | 603       | 701       |      |           | 9         |           |           |           | 10.25   | 50         |
| 8165246 | 201403D | 20.500 | 11.300 | 05    | 2594      | 8300      | 34        | 83        | 503       | 702       |      |           | 10        |           |           |           | 20.61   | 60         |
| 8165247 | 201403D | 20.500 | 11.300 | 05    | 2501      | 6300      | 29        | 57        | 489       | 705       |      |           | 9         |           |           |           | 15.91   | 70         |
| 8165248 | 201403D | 20.500 | 11.300 | 05    | 3650      | 6100      | 29        | 119       | 443       | 664       |      |           | 12        |           |           |           | 19.58   | 80         |
| 8165249 | 201403D | 20.500 | 11.300 | 05    | 3843      | 5520      | 54        | 108       | 946       | 494       | 0.93 |           | 14        |           |           |           | 17.42   | 90         |
| 8165250 | 201403D | 20.500 | 11.300 | 05    | 5193      | 4840      | 30        | 77        | 504       | 626       | 3.50 |           | 12        |           |           |           | 14.30   | 100        |
| 8165251 | 201403D | 20.500 | 11.300 | 05    | 3640      | 2320      | 19        | 37        | 503       | 559       |      |           | 8         |           |           |           | 8.96    | 110        |
| 8165252 | 201403D | 20.435 | 11.308 | 05    | 531       | 4150      | 13        | 21        | 1105      | 501       |      |           | 6         |           |           |           | 10.12   | 10         |
| 8165253 | 201403D | 20.435 | 11.308 | 05    | 596       | 7100      | 25        | 35        | 979       | 566       |      |           | 7         |           |           |           | 16.26   | 20         |
| 8165254 | 201403D | 20.435 | 11.308 | 05    | 431       | 5900      | 26        | 33        | 998       | 746       |      |           | 5         |           |           |           | 17.38   | 30         |
| 8165255 | 201403D | 20.435 | 11.308 | 05    | 918       | 4120      | 23        | 23        | 1504      | 481       |      |           | 12        |           |           |           | 7.53    | 40         |
| 8165256 | 201403D | 20.435 | 11.308 | 05    | 937       | 4300      | 18        | 20        | 1014      | 607       |      |           | 8         |           |           |           | 8.36    | 50         |
| 8165257 | 201403D | 20.435 | 11.308 | 05    | 1559      | 5090      | 18        | 24        | 657       | 737       |      |           | 6         |           |           |           | 9.77    | 60         |
| 8165258 | 201403D | 20.435 | 11.308 | 05    | 2006      | 5520      | 19        | 28        | 039       | 738       |      |           | 7         |           |           |           | 10.01   | 70         |
| 8165259 | 201403D | 20.435 | 11.308 | 05    | 2087      | 7000      | 24        | 40        | 543       | 794       |      |           | 7         |           |           |           | 15.08   | 80         |
| 8165260 | 201403D | 20.435 | 11.308 | 05    | 1616      | 4650      | 19        | 31        | 520       | 713       |      |           | 5         |           |           |           | 10.21   | 90         |
| 8165261 | 201403D | 20.435 | 11.308 | 05    | 2406      | 4310      | 20        | 40        | 460       | 656       |      |           | 7         |           |           |           | 10.39   | 100        |
| 8165262 | 201403D | 20.435 | 11.308 | 05    | 2311      | 2900      | 18        | 37        | 532       | 611       |      |           | 7         |           |           |           | 9.03    | 110        |
| 8165263 | 201403D | 20.435 | 11.308 | 05    | 1848      | 2360      | 18        | 25        | 614       | 605       |      |           | 6         |           |           |           | 8.73    | 115        |

## LISTA/KALLIOMURSKE-SUIJANÄYTTEENOTTO

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| ANRO    | KTL     | X      | Y      | LINJA | CU<br>PPM | ZN<br>PPM | VI<br>PPM | CU<br>PPM | PB<br>PPM | MN<br>PPM | AU<br>OK<br>PPM | AG<br>PPM | MU<br>PPM | MG<br>PPM | AL<br>PPM | FE<br>% | L-SY<br>DM |
|---------|---------|--------|--------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|---------|------------|
| 8165264 | 201403D | 20.350 | 11.300 | 05    | 649       | 19000     | 25        | 54        | 2255      | 369       | 0.62            | 5         |           |           |           | 23.52   | 10         |
| 8165265 | 201403D | 20.350 | 11.300 | 05    | 590       | 1000      | 25        | 40        | 1970      | 496       |                 | 6         |           |           | 18.70     | 20      |            |
| 8165266 | 201403D | 20.350 | 11.300 | 05    | 504       | 5940      | 21        | 35        | 1900      | 389       |                 | 8         |           |           | 15.18     | 30      |            |
| 8165267 | 201403D | 20.350 | 11.300 | 05    | 603       | 4970      | 17        | 38        | 1010      | 381       |                 | 8         |           |           | 10.48     | 40      |            |
| 8165268 | 201403D | 20.350 | 11.300 | 05    | 557       | 5420      | 23        | 23        | 2068      | 590       |                 | 10        |           |           | 10.09     | 50      |            |
| 8165269 | 201403D | 20.350 | 11.300 | 05    | 867       | 5820      | 32        | 27        | 1620      | 692       |                 | 10        |           |           | 10.42     | 60      |            |
| 8165270 | 201403D | 20.350 | 11.300 | 05    | 721       | 3300      | 24        | 23        | 1007      | 703       |                 | 8         |           |           | 8.78      | 70      |            |
| 8165271 | 201403D | 20.350 | 11.300 | 05    | 744       | 4120      | 29        | 20        | 553       | 767       |                 | 5         |           |           | 9.27      | 60      |            |
| 8165272 | 201403D | 20.350 | 11.300 | 05    | 1058      | 4180      | 27        | 28        | 633       | 773       |                 | 5         |           |           | 9.10      | 90      |            |
| 8165273 | 201403D | 20.350 | 11.300 | 05    | 1832      | 5950      | 25        | 36        | 566       | 737       | 0.37            | 6         |           |           | 11.45     | 100     |            |
| 8165274 | 201403D | 20.350 | 11.300 | 05    | 1425      | 5940      | 24        | 41        | 540       | 749       |                 | 6         |           |           | 11.79     | 110     |            |
| 8165275 | 201403D | 20.350 | 11.300 | 05    | 1257      | 5110      | 28        | 38        | 554       | 742       |                 | 6         |           |           | 10.42     | 117     |            |
| 8165276 | 201403D | 20.500 | 11.250 | 06    | 520       | 3900      | 22        | 33        | 1340      | 538       | 0.53            | 6         |           |           | 11.42     | 10      |            |
| 8165277 | 201403D | 20.500 | 11.250 | 06    | 528       | 10800     | 32        | 41        | 1941      | 522       | 0.73            | 5         |           |           | 22.43     | 20      |            |
| 8165278 | 201403D | 20.500 | 11.250 | 06    | 328       | 3460      | 34        | 21        | 1203      | 378       | 0.88            | 10        |           |           | 8.53      | 30      |            |
| 8165279 | 201403D | 20.500 | 11.250 | 06    | 794       | 3530      | 39        | 21        | 1318      | 500       | 0.96            | 12        |           |           | 7.47      | 40      |            |
| 8165280 | 201403D | 20.500 | 11.250 | 06    | 1950      | 8400      | 30        | 38        | 640       | 681       | 0.46            | 8         |           |           | 13.29     | 50      |            |
| 8165281 | 201403D | 20.500 | 11.250 | 06    | 2842      | 8100      | 34        | 75        | 423       | 623       | 0.53            | 9         |           |           | 10.77     | 60      |            |
| 8165282 | 201403D | 20.500 | 11.250 | 06    | 2544      | 7800      | 31        | 64        | 458       | 608       | 0.63            | 9         |           |           | 13.32     | 70      |            |
| 8165283 | 201403D | 20.500 | 11.250 | 06    | 3970      | 5590      | 31        | 98        | 448       | 646       | 0.56            | 12        |           |           | 10.54     | 60      |            |
| 8165284 | 201403D | 20.500 | 11.250 | 06    | 5560      | 5200      | 36        | 119       | 429       | 540       | 0.80            | 12        |           |           | 6.23      | 90      |            |
| 8165285 | 201403D | 20.500 | 11.250 | 06    | 6030      | 4170      | 32        | 60        | 720       | 510       | 0.77            | 13        |           |           | 13.12     | 100     |            |
| 8165286 | 201403D | 20.400 | 11.250 | 06    | 551       | 4410      | 21        | 24        | 1418      | 580       |                 | 5         |           |           | 11.10     | 10      |            |
| 8165287 | 201403D | 20.400 | 11.250 | 06    | 574       | 5250      | 22        | 30        | 1223      | 485       |                 | 4         |           |           | 10.34     | 20      |            |
| 8165288 | 201403D | 20.400 | 11.250 | 06    | 645       | 4180      | 22        | 41        | 997       | 471       |                 | 7         |           |           | 11.01     | 30      |            |
| 8165289 | 201403D | 20.400 | 11.250 | 06    | 590       | 5960      | 21        | 26        | 1691      | 565       |                 | 7         |           |           | 9.49      | 40      |            |
| 8165290 | 201403D | 20.400 | 11.250 | 06    | 1262      | 3630      | 29        | 21        | 1053      | 536       |                 | 11        |           |           | 8.61      | 50      |            |
| 8165291 | 201403D | 20.400 | 11.250 | 06    | 1012      | 3500      | 18        | 20        | 850       | 680       |                 | 7         |           |           | 8.33      | 60      |            |
| 8165292 | 201403D | 20.400 | 11.250 | 06    | 896       | 3800      | 21        | 17        | 554       | 707       |                 | 4         |           |           | 7.70      | 70      |            |
| 8165293 | 201403D | 20.400 | 11.250 | 06    | 1801      | 3980      | 21        | 26        | 540       | 738       |                 | 6         |           |           | 8.20      | 80      |            |
| 8165294 | 201403D | 20.400 | 11.250 | 06    | 1759      | 5700      | 24        | 33        | 455       | 732       |                 | 6         |           |           | 8.26      | 90      |            |
| 8165295 | 201403D | 20.400 | 11.250 | 06    | 2015      | 4410      | 21        | 35        | 321       | 782       |                 | 6         |           |           | 8.90      | 100     |            |
| 8165296 | 201403D | 20.400 | 11.250 | 06    | 2241      | 3100      | 31        | 45        | 404       | 522       |                 | 6         |           |           | 0.55      | 110     |            |

| ANRO    | KTL     | X      | Y      | LINJA | CU<br>PPM | ZN<br>PPM | NI<br>PPM | CU<br>PPM | P8<br>PPM | MN<br>PPM | CR<br>PPM | AG<br>PPM | MU<br>PPM | MG<br>PPM | AL<br>PPM | FE<br>% | L-SY<br>DM |
|---------|---------|--------|--------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|------------|
| 8165297 | 201403D | 20.400 | 11.250 | 06    | 1261      | 2070      | 26        | 29        | 464       | 553       |           | 4         |           |           |           | 8.00    | 120        |
| 8165298 | 201403D | 20.300 | 11.250 | 06    | 615       | 5910      | 17        | 30        | 1010      | 266       |           | 2         |           |           |           | 5.90    | 10         |
| 8165299 | 201403D | 20.300 | 11.250 | 06    | 419       | 4240      | 22        | 25        | 1119      | 470       |           | 4         |           |           |           | 10.57   | 20         |
| 8165300 | 201403D | 20.300 | 11.250 | 06    | 412       | 1130      | 1094      | 50        | 161       | 203       |           | 3         |           |           |           | 12.00   | 30         |
| 8165301 | 201403D | 20.300 | 11.250 | 06    | 925       | 4190      | 42        | 38        | 761       | 412       |           | 7         |           |           |           | 8.81    | 40         |
| 8165302 | 201403D | 20.300 | 11.250 | 06    | 655       | 7200      | 33        | 24        | 2059      | 647       |           | 9         |           |           |           | 10.69   | 50         |
| 8165303 | 201403D | 20.300 | 11.250 | 06    | 948       | 4550      | 31        | 27        | 1499      | 232       |           | 11        |           |           |           | 8.80    | 60         |
| 8165304 | 201403D | 20.300 | 11.250 | 06    | 658       | 3960      | 21        | 19        | 733       | 658       |           | 5         |           |           |           | 8.79    | 70         |
| 8165305 | 201403D | 20.300 | 11.250 | 06    | 1129      | 3390      | 25        | 23        | 485       | 773       |           | 4         |           |           |           | 8.42    | 80         |
| 8165306 | 201403D | 20.300 | 11.250 | 06    | 2121      | 4860      | 17        | 26        | 503       | 754       |           | 6         |           |           |           | 9.29    | 90         |
| 8165307 | 201403D | 20.300 | 11.250 | 06    | 1338      | 4980      | 25        | 28        | 437       | 592       |           | 5         |           |           |           | 10.33   | 56         |
| 8165308 | 201403D | 20.300 | 11.200 | 07    | 588       | 8100      | 19        | 40        | 1648      | 423       |           | 5         |           |           |           | 10.34   | 10         |
| 8165309 | 201403D | 20.300 | 11.200 | 07    | 549       | 7900      | 19        | 30        | 1617      | 409       |           | 4         |           |           |           | 10.27   | 20         |
| 8165310 | 201403D | 20.300 | 11.200 | 07    | 502       | 3670      | 16        | 25        | 1423      | 499       |           | 5         |           |           |           | 9.37    | 30         |
| 8165311 | 201403D | 20.300 | 11.200 | 07    | 443       | 3630      | 238       | 36        | 958       | 336       |           | 7         |           |           |           | 7.97    | 40         |
| 8165312 | 201403D | 20.300 | 11.200 | 07    | 759       | 3300      | 25        | 24        | 1794      | 467       |           | 11        |           |           |           | 5.95    | 50         |
| 8165313 | 201403D | 20.300 | 11.200 | 07    | 723       | 10300     | 25        | 20        | 2042      | 777       |           | 7         |           |           |           | 10.42   | 60         |
| 8165314 | 201403D | 20.300 | 11.200 | 07    | 887       | 3200      | 55        | 24        | 1769      | 514       |           | 13        |           |           |           | 7.08    | 70         |
| 8165315 | 201403D | 20.300 | 11.200 | 07    | 640       | 3700      | 23        | 22        | 690       | 751       |           | 5         |           |           |           | 8.18    | 80         |
| 8165316 | 201403D | 20.300 | 11.200 | 07    | 1991      | 4850      | 24        | 25        | 607       | 791       |           | 4         |           |           |           | 9.47    | 90         |
| 8165317 | 201403D | 20.300 | 11.200 | 07    | 2202      | 5200      | 17        | 27        | 502       | 783       |           | 6         |           |           |           | 8.54    | 100        |
| 8165318 | 201403D | 20.300 | 11.200 | 07    | 1428      | 5850      | 20        | 37        | 448       | 768       |           | 6         |           |           |           | 11.32   | 110        |
| 8165319 | 201403D | 20.300 | 11.200 | 07    | 1342      | 3530      | 23        | 34        | 234       | 645       |           | 5         |           |           |           | 7.81    | 115        |
| 8165320 | 201403D | 20.400 | 11.200 | 07    | 514       | 5140      | 17        | 22        | 1555      | 577       |           | 4         |           |           |           | 9.55    | 10         |
| 8165321 | 201403D | 20.400 | 11.200 | 07    | 570       | 4700      | 23        | 24        | 1527      | 502       |           | 7         |           |           |           | 8.37    | 20         |
| 8165322 | 201403D | 20.400 | 11.200 | 07    | 573       | 2780      | 16        | 27        | 1527      | 419       |           | 9         |           |           |           | 7.14    | 30         |
| 8165323 | 201403D | 20.400 | 11.200 | 07    | 483       | 4690      | 22        | 20        | 1717      | 612       |           | 9         |           |           |           | 11.42   | 40         |
| 8165324 | 201403D | 20.400 | 11.200 | 07    | 448       | 3340      | 28        | 16        | 1654      | 372       |           | 12        |           |           |           | 5.68    | 50         |
| 8165325 | 201403D | 20.400 | 11.200 | 07    | 675       | 2750      | 20        | 17        | 779       | 632       |           | 5         |           |           |           | 6.85    | 60         |
| 8165326 | 201403D | 20.400 | 11.200 | 07    | 775       | 4400      | 13        | 18        | 566       | 744       |           | 5         |           |           |           | 8.23    | 70         |
| 8165327 | 201403D | 20.400 | 11.200 | 07    | 1793      | 5080      | 16        | 30        | 507       | 767       |           | 6         |           |           |           | 9.00    | 80         |
| 8165328 | 201403D | 20.400 | 11.200 | 07    | 1394      | 4920      | 23        | 30        | 430       | 720       |           | 7         |           |           |           | 9.75    | 90         |
| 8165329 | 201403D | 20.400 | 11.200 | 07    | 1731      | 4220      | 18        | 32        | 439       | 745       |           | 6         |           |           |           | 8.29    | 100        |

## LISTA/KALLIOMURSKE-SOIJANÄYTTEENOTTO

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| ANRO    | KTL      | X      | Y      | LINJA | CU<br>PPM | ZN<br>PPM | NI<br>PPM | CO<br>PPM | PB<br>PPM | MN<br>PPM | CR<br>PPM | AG,<br>PPM | MU<br>PPM | MG<br>PPM | AL<br>PPM | FE<br>% | LSY<br>DM |
|---------|----------|--------|--------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|---------|-----------|
| 8165330 | 201403D  | 20.400 | 11.200 | 07    | 1761      | 2680      | 34        | 38        | 576       | 579       | 7         |            |           |           |           | 9.23    | 110       |
| 8165331 | 201403D  | 20.500 | 11.200 | 07    | 441       | 3900      | 18        | 23        | 1398      | 489       | 5         |            |           |           |           | 11.16   | 110       |
| 8165332 | 201403D  | 20.500 | 11.200 | 07    | 892       | 3000      | 21        | 73        | 1178      | 425       | 11        |            |           |           |           | 11.75   | 20        |
| 8165333 | 201403D  | 20.500 | 11.200 | 07    | 530       | 9600      | 28        | 31        | 1594      | 560       | 6         |            |           |           |           | 17.03   | 50        |
| 8165334 | 201403D  | 20.500 | 11.200 | 07    | 514       | 4580      | 41        | 24        | 1904      | 282       | 18        |            |           |           |           | 7.38    | 40        |
| 8165335 | 201403D  | 20.500 | 11.200 | 07    | 1072      | 3970      | 31        | 23        | 1685      | 588       | 11        |            |           |           |           | 11.19   | 50        |
| 8165336 | 201403D  | 20.500 | 11.200 | 07    | 1431      | 5560      | 24        | 25        | 489       | 524       | 4         |            |           |           |           | 9.45    | 58        |
| 8165337 | 201403D  | 20.450 | 11.150 | 08    | 577       | 3890      | 21        | 22        | 1397      | 470       | 4         |            |           |           |           | 11.55   | 10        |
| 8165338 | 201403D  | 20.450 | 11.150 | 08    | 732       | 2650      | 15        | 40        | 972       | 460       | 9         |            |           |           |           | 8.70    | 20        |
| 8165339 | 201403D  | 20.450 | 11.150 | 08    | 584       | 8630      | 19        | 29        | 1799      | 454       | 9         |            |           |           |           | 12.15   | 50        |
| 8165340 | 201403D  | 20.450 | 11.150 | 08    | 471       | 6200      | 22        | 25        | 1344      | 599       | 5         |            |           |           |           | 12.10   | 40        |
| 8165341 | 201403D  | 20.450 | 11.150 | 08    | 870       | 4280      | 107       | 105       | 1649      | 407       | 11        |            |           |           |           | 7.52    | 50        |
| 8165342 | 201403D  | 20.450 | 11.150 | 08    | 860       | 4250      | 24        | 19        | 501       | 741       | 4         |            |           |           |           | 8.64    | 60        |
| 8165343 | 201403D  | 20.450 | 11.150 | 08    | 844       | 3710      | 22        | 23        | 744       | 584       | 4         |            |           |           |           | 8.78    | 64        |
| 8165344 | 201403D  | 20.450 | 11.100 | 09    | 493       | 3970      | 19        | 19        | 1507      | 442       | 3         |            |           |           |           | 10.05   | 10        |
| 8165345 | 201403D  | 20.450 | 11.100 | 09    | 640       | 3600      | 11        | 26        | 1290      | 417       | 9         |            |           |           |           | 6.05    | 20        |
| 8165346 | 201403D  | 20.450 | 11.100 | 09    | 560       | 2610      | 14        | 26        | 1705      | 350       | 13        |            |           |           |           | 0.05    | 30        |
| 8165347 | 201403D. | 20.450 | 11.100 | 09    | 531       | 8900      | 24        | 24        | 1595      | 674       | 4         |            |           |           |           | 12.25   | 40        |
| 8165348 | 201403D  | 20.450 | 11.100 | 09    | 583       | 4190      | 22        | 19        | 1830      | 482       | 14        |            |           |           |           | 0.03    | 50        |