Ministry of Energy, Mines \& Petroleum Resources Mining \& Minerals Division

## Assessment Report

 BC Geological SurveyCLAIM NAME(S) (on which the work was done): see attached list
commodities sought: $\mathrm{Au}, \mathrm{Ag}, \mathrm{Cu}, \mathrm{Pb}, \mathrm{Zn}$
mINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:


1) Anglo Swiss Resources Inc.
2) $\qquad$

MAILING ADDRESS:
309-837 West Hastings Street
Vancouver, BC, B6C 3N6
OPERATOR(S) [who paid for the work]:
1)
)
2) $\qquad$

## MAILING ADDRESS:

$\qquad$
PROPERTY GEOLOGY KEYWORDS (ethology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Jurassic Rossiand Group sedimentary and mafic volcanic rocks intruded by Jurassic plutons. A multitude of skarn, Au-quartz vein, alkalic porphyry, polymetallic vein and possible vas showings, Kenvi(le Mine


CLAIM DATA

| Tenure Number | Claim Name | Expiry Date | Anglo Swiss Ownership | Area |
| :---: | :---: | :---: | :---: | :---: |
| 232819 | REFER TO LOT TABLE | 2016/Dec/31 | 60\% | 25.0000 |
| 232820 | REFER TO LOT TABLE | 2016/Dec/31 | 60\% | 25.0000 |
| 232821 | REFER TO LOT TABLE | 2016/Dec/31 | 60\% | 25.0000 |
| 232834 | REFER TO LOT TABLE | 2016/Dec/31 | 60\% | 25.0000 |
| 232835 | REFER TO LOT TABLE | 2016/Dec/31 | 60\% | 25.0000 |
| 232836 | REFER TO LOT TABLE | 2016/Dec/31 | 60\% | 25.0000 |
| 232839 | RON \#1 FR. | 2016/Dec/31 | 60\% | 25.0000 |
| 232840 | RON \#2 FR. | 2016/Dec/31 | 60\% | 25.0000 |
| 232841 | RON \#4 | 2016/Dec/31 | 60\% | 25.0000 |
| 232842 | RON \#5 | 2016/Dec/31 | 60\% | 25.0000 |
| 232843 | RON \#6 | 2016/Dec/31 | 60\% | 25.0000 |
| 232844 | RON \#7 | 2016/Dec/31 | 60\% | 25.0000 |
| 232845 | RON \#8 | 2016/Dec/31 | 60\% | 25.0000 |
| 232855 | RON \#3 FR. | 2016/Dec/31 | 60\% | 25.0000 |
| 232883 | REFER TO LOT TABLE | 2016/Dec/31 | 100\% | 25.0000 |
| 232884 | REFER TO LOT TABLE | 2016/Dec/31 | 100\% | 25.0000 |
| 232885 | REFER TO LOT TABLE | 2016/Dec/31 | 100\% | 25.0000 |
| 233098 | TECGOLD | 2016/Dec/31 | 100\% | 400.0000 |
| 233099 | TEC 1 | 2016/Dec/31 | 100\% | 25.0000 |
| 233100 | TEC 2 | 2016/Dec/31 | 100\% | 25.0000 |
| 233101 | TEC 3 | 2016/Dec/31 | 100\% | 25.0000 |
| 233102 | TEC 4 | 2016/Dec/31 | 100\% | 25.0000 |
| 233103 | TEC 5 | 2016/Dec/31 | 100\% | 25.0000 |
| 233104 | TEC 6 | 2016/Dec/31 | 100\% | 25.0000 |
| 233105 | TEC 7 | 2016/Dec/31 | 100\% | 25.0000 |
| 233228 | MAJESTIC FR. | 2016/Dec/31 | 60\% | 25.0000 |
| 233257 | RON \#17 FR | 2016/Dec/31 | 60\% | 25.0000 |
| 233385 | REFER TO LOT TABLE | 2016/Dec/31 | 60\% | 25.0000 |
| 233743 | JOANIE \#3 | 2016/Dec/31 | 100\% | 25.0000 |
| 233803 | JOANIE \#4 | 2016/Dec/31 | 100\% | 25.0000 |
| 233969 | \#1 TEC FR. | 2016/Dec/31 | 100\% | 25.0000 |
| 234128 | TECGOLD 102 | 2016/Dec/31 | 100\% | 400.0000 |
| 300375 | RON \#4 FR. | 2016/Dec/31 | 60\% | 25.0000 |
| 305573 | LUCKY | 2016/Dec/31 | 100\% | 25.0000 |
| 305575 | "LUCKY TYMES" | 2016/Dec/31 | 100\% | 25.0000 |
| 316100 | JAMTT 5 | 2016/Dec/31 | 100\% | 25.0000 |
| 316102 | JAMTT 7 | 2016/Dec/31 | 100\% | 25.0000 |
| 316105 | TRMK 4-2 | 2016/Dec/31 | 100\% | 25.0000 |
| 316106 | TMRK 4-3 | 2016/Dec/31 | 100\% | 25.0000 |
| 316554 | GG 2 | 2016/Dec/31 | 100\% | 25.0000 |
| 318959 | RUTH 2 | 2016/Dec/31 | 100\% | 25.0000 |
| 318960 | RUTH 3 | 2016/Dec/31 | 100\% | 25.0000 |
| 319690 | RUTH 5 | 2016/Dec/31 | 100\% | 25.0000 |
| 319692 | RUTH 6 | 2016/Dec/31 | 100\% | 25.0000 |
| 322437 | P.B. \#1 | 2016/Dec/31 | 100\% | 25.0000 |
| 322439 | P.B. \#3 | 2016/Dec/31 | 100\% | 25.0000 |
| 322440 | P.B. \#4 | 2016/Dec/31 | 100\% | 25.0000 |
| 322441 | P.B. \#5 | 2016/Dec/31 | 100\% | 25.0000 |

EQUITY

| Tenure Number | Claim Name | Expiry Date | Anglo Swiss Ownership | Area |
| :---: | :---: | :---: | :---: | :---: |
| 322443 | P.B. \#7 | 2016/Dec/31 | 100\% | 25.0000 |
| 322444 | P.B. \#8 | 2016/Dec/31 | 100\% | 25.0000 |
| 322445 | J.D. \#1 | 2016/Dec/31 | 100\% | 25.0000 |
| 322446 | J.D. \#2 | 2016/Dec/31 | 100\% | 25.0000 |
| 322447 | J.D. \#3 | 2016/Dec/31 | 100\% | 25.0000 |
| 322448 | J.D. \#4 | 2016/Dec/31 | 100\% | 25.0000 |
| 322450 | J.D. \#6 | 2016/Dec/31 | 100\% | 25.0000 |
| 324992 | TMRK-3A | 2016/Dec/31 | 100\% | 25.0000 |
| 324994 | TMRK-3C | 2016/Dec/31 | 100\% | 25.0000 |
| 324996 | TMRK-3E | 2016/Dec/31 | 100\% | 25.0000 |
| 324998 | TMRK 3-G | 2016/Dec/31 | 100\% | 25.0000 |
| 325462 | RAM 1 | 2016/Dec/31 | 100\% | 25.0000 |
| 325463 | RAM 2 | 2016/Dec/31 | 100\% | 25.0000 |
| 327227 | R 1 | 2016/Dec/31 | 100\% | 25.0000 |
| 327228 | R2 | 2016/Dec/31 | 100\% | 25.0000 |
| 327230 | R 4 | 2016/Dec/31 | 100\% | 25.0000 |
| 333280 | GOLD HILL | 2016/Dec/31 | 100\% | 25.0000 |
| 337998 | HOHO 1 | 2016/Dec/31 | 100\% | 25.0000 |
| 337999 | HOHO 2 | 2016/Dec/31 | 100\% | 25.0000 |
| 338000 | HOHO 3 | 2016/Dec/31 | 100\% | 25.0000 |
| 338001 | HOHO 4 | 2016/Dec/31 | 100\% | 25.0000 |
| 338002 | HOHO 7 | 2016/Dec/31 | 100\% | 25.0000 |
| 338003 | НОНО 8 | 2016/Dec/31 | 100\% | 25.0000 |
| 338004 | HOHO 9 | 2016/Dec/31 | 100\% | 25.0000 |
| 338005 | НОНО 10 | 2016/Dec/31 | 100\% | 25.0000 |
| 338006 | HOHO 11 | 2016/Dec/31 | 100\% | 25.0000 |
| 338008 | HEEHAW 1 | 2016/Dec/31 | 100\% | 25.0000 |
| 338009 | HEEHAW 2 | 2016/Dec/31 | 100\% | 25.0000 |
| 338010 | HEEHAW 3 | 2016/Dec/31 | 100\% | 25.0000 |
| 338011 | HEEHAW 4 | 2016/Dec/31 | 100\% | 25.0000 |
| 338013 | HEEHAW 6 | 2016/Dec/31 | 100\% | 25.0000 |
| 338014 | HEEHAW 7 | 2016/Dec/31 | 100\% | 25.0000 |
| 338015 | HEEHAW 8 | 2016/Dec/31 | 100\% | 25.0000 |
| 338017 | HEEHAW 10 | 2016/Dec/31 | 100\% | 25.0000 |
| 338020 | JD 5 | 2016/Dec/31 | 100\% | 25.0000 |
| 338021 | JD 7 | 2016/Dec/31 | 100\% | 25.0000 |
| 338022 | JD 8 | 2016/Dec/31 | 100\% | 25.0000 |
| 338023 | JD 9 | 2016/Dec/31 | 100\% | 25.0000 |
| 338024 | JD 10 | 2016/Dec/31 | 100\% | 25.0000 |
| 338026 | JD 12 | 2016/Dec/31 | 100\% | 25.0000 |
| 338027 | JD 13 | 2016/Dec/31 | 100\% | 25.0000 |
| 338028 | JD 14 | 2016/Dec/31 | 100\% | 25.0000 |
| 338030 | HOHO 5 | 2016/Dec/31 | 100\% | 25.0000 |
| 338031 | HOHO 6 | 2016/Dec/31 | 100\% | 25.0000 |
| 338479 | DYLANNI | 2016/Dec/31 | 100\% | 25.0000 |
| 338481 | DYLANN 3 | 2016/Dec/31 | 100\% | 25.0000 |
| 338816 | R.C. 1 | 2016/Dec/31 | 100\% | 25.0000 |
| 338817 | R.C. 2 | 2016/Dec/31 | 100\% | 25.0000 |
| 338978 | R.C. 13 | 2016/Dec/31 | 100\% | 25.0000 |
| 338979 | R.C. 14 | 2016/Dec/31 | 100\% | 25.0000 |


| Tenure <br> Number | Claim Name | Expiry Date | Anglo Swiss Ownership | Area |
| :---: | :---: | :---: | :---: | :---: |
| 339285 | R3 | 2016/Dec/31 | 100\% | 25.0000 |
| 339576 | SJ2 | 2016/Dec/31 | 100\% | 25.0000 |
| 339582 | SJ4 | 2016/Dec/31 | 100\% | 25.0000 |
| 339584 | SJ6 | 2016/Dec/31 | 100\% | 25.0000 |
| 340027 | SJ10 | 2016/Dec/31 | 100\% | 25.0000 |
| 340029 | SJ 12 | 2016/Dec/31 | 100\% | 25.0000 |
| 340030 | SJ 13 | 2016/Dec/31 | 100\% | 25.0000 |
| 340031 | SJ 14 | 2016/Dec/31 | 100\% | 25.0000 |
| 341575 | SJ 8 | 2016/Dec/31 | 100\% | 25.0000 |
| 347153 | DYLANN 5 | 2016/Dec/31 | 100\% | 25.0000 |
| 347155 | DYLANN 8 | 2016/Dec/31 | 100\% | 25.0000 |
| 349881 | DEB 2 | 2011/Dec/31 | 100\% | 25.0000 |
| 349882 | DEB 3 | 2011/Dec/31 | 100\% | 25.0000 |
| 349883 | DEB 4 | 2011/Dec/31 | 100\% | 25.0000 |
| 350445 | HOHO 12 | 2016/Dec/31 | 100\% | 25.0000 |
| 358264 | QUEEN | 2011/Dec/31 | 100\% | 25.0000 |
| 365594 | PR - 11 | 2012/Apr/01 | 100\% | 25.0000 |
| 365595 | PR - 12 | 2012/Apr/01 | 100\% | 25.0000 |
| 365596 | PR - 13 | 2012/Apr/01 | 100\% | 25.0000 |
| 365597 | PR - 14 | 2012/Apr/01 | 100\% | 25.0000 |
| 368294 | VE-2 | 2012/Apr/01 | 100\% | 25.0000 |
| 374494 | ROYAL ARTHUR | 2016/Dec/31 | 60\% | 25.0000 |
| 378774 | ART 2 | 2016/Dec/31 | 100\% | 25.0000 |
| 378775 | ART 3 | 2016/Dec/31 | 60\% | 25.0000 |
| 378776 | MONTY | 2016/Dec/31 | 100\% | 25.0000 |
| 380873 | ROVER 7 | 2016/Dec/31 | 100\% | 25.0000 |
| 381521 | SILVER LYNX 3 | 2016/Dec/31 | 100\% | 25.0000 |
| 381523 | SILVER LYNX 5 | 2016/Dec/31 | 100\% | 25.0000 |
| 381524 | SILVER LYNX 6 | 2016/Dec/31 | 100\% | 25.0000 |
| 381526 | SILVER LYNX 8 | 2016/Dec/31 | 100\% | 25.0000 |
| 382909 | SILVER LYNX 12 | 2016/Dec/31 | 100\% | 25.0000 |
| 382913 | SILVER LYNX 16 | 2016/Dec/31 | 100\% | 25.0000 |
| 386738 | SILVER LYNXI | 2016/Dec/31 | 100\% | 500.0000 |
| 390701 | HEEHAW 11 | 2016/Dec/31 | 100\% | 25.0000 |
| 390702 | HEEHAW 12 | 2016/Dec/31 | 100\% | 25.0000 |
| 390703 | HEEHAW 13 | 2016/Dec/31 | 100\% | 25.0000 |
| 390704 | HEEHAW 14 | 2016/Dec/31 | 100\% | 25.0000 |
| 390705 | HEEHAW 15 | 2016/Dec/31 | 100\% | 25.0000 |
| 390706 | HEEHAW 16 | 2016/Dec/31 | 100\% | 25.0000 |
| 390886 | S.J. 15 | 2016/Dec/31 | 100\% | 25.0000 |
| 390887 | S.J. 16 | 2016/Dec/31 | 100\% | 25.0000 |
| 391367 | MAJESTIC \#1 | 2016/Dec/31 | 60\% | 25.0000 |
| 391368 | MAJESTIC \#2 | 2016/Dec/31 | 60\% | 25.0000 |
| 392164 | MAJESTIC 3 | 2016/Dec/31 | 60\% | 25.0000 |
| 393337 | 49ER | 2016/Dec/31 | 100\% | 25.0000 |
| 394694 | JD 15 | 2016/Dec/31 | 100\% | 25.0000 |
| 394695 | JD 16 | 2016/Dec/31 | 100\% | 25.0000 |
| 394697 | JD 18 | 2016/Dec/31 | 100\% | 25.0000 |
| 394700 | JD 21 | 2016/Dec/31 | 100\% | 25.0000 |
| 403796 | RED TOP | 2016/Dec/31 | 100\% | 25.0000 |


|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Tenure |  |  | Anglo <br> Swiss <br> Number | Claim Name |$\quad$ Expiry Date |  |
| :---: |
| 507990 |
| 508178 |
| 509288 |
| 509290 |


| Tenure <br> Number | Claim Name | Expiry Date | Anglo Swiss Ownership | Area |
| :---: | :---: | :---: | :---: | :---: |
| 538814 | NELSON B | 2016/Dec/31 | 100\% | 21.0000 |
| 538815 | NELSON C | 2016/Dec/31 | 100\% | 21.0010 |
| 538816 | NELSON D | 2016/Dec/31 | 100\% | 42.0070 |
| 538868 | NELSONE | 2016/Dec/31 | 100\% | 20.9987 |
| 538869 | NELSON F | 2016/Dec/31 | 100\% | 21.0052 |
| 545408 | RCARTER01 | 2011/Dec/31 | 100\% | 42.0151 |
| 546651 | RCARTER03 | 2011/Dec/31 | 100\% | 63.0317 |
| 546657 | RCARTER16 | 2011/Dec/31 | 100\% | 84.0458 |
| 546882 |  | 2016/Dec/31 | 100\% | 83.9649 |
| 546883 |  | 2016/Dec/31 | 100\% | 83.9780 |
| 546884 |  | 2016/Dec/31 | 100\% | 83.9642 |
| 546885 |  | 2016/Dec/31 | 100\% | 83.9783 |
| 546886 |  | 2016/Dec/31 | 100\% | 41.9827 |
| 546887 |  | 2016/Dec/31 | 100\% | 41.9824 |
| 546888 |  | 2016/Dec/31 | 100\% | 83.9911 |
| 546889 |  | 2016/Dec/31 | 100\% | 20.9969 |
| 546890 |  | 2016/Dec/31 | 100\% | 210.0120 |
| 546892 |  | 2016/Dec/31 | 100\% | 84.0231 |
| 546893 |  | 2016/Dec/31 | 100\% | 84.0234 |
| 546898 |  | 2016/Dec/31 | 100\% | 20.9970 |
| 546899 |  | 2016/Dec/31 | 100\% | 84.0042 |
| 546900 |  | 2016/Dec/31 | 100\% | 84.0060 |
| 546902 |  | 2016/Dec/31 | 100\% | 21.0003 |
| 546905 |  | 2016/Dec/31 | 100\% | 84.0359 |
| 546907 |  | 2016/Dec/31 | 100\% | 63.0280 |
| 546908 |  | 2016/Dec/31 | 100\% | 42.0130 |
| 546909 |  | 2016/Dec/31 | 100\% | 21.0082 |
| 546910 |  | 2016/Dec/31 | 100\% | 63.0085 |
| 546911 |  | 2016/Dec/31 | 100\% | 63.0128 |
| 546912 |  | 2016/Dec/31 | 100\% | 42.0103 |
| 546914 |  | 2016/Dec/31 | 100\% | 21.0052 |
| 546915 | GOOD HOPE | 2016/Dec/31 | 100\% | 42.0086 |
| 546916 | GOOD HOPE 2 | 2016/Dec/31 | 100\% | 21.0034 |
| 546917 |  | 2016/Dec/31 | 100\% | 42.0182 |
| 546918 | GH EAST | 2016/Dec/31 | 100\% | 21.0036 |
| 546920 |  | 2016/Dec/31 | 100\% | 84.0224 |
| 546922 |  | 2016/Dec/31 | 100\% | 42.0136 |
| 546923 |  | 2016/Dec/31 | 100\% | 42.0169 |
| 546924 |  | 2016/Dec/31 | 100\% | 21.0068 |
| 546925 |  | 2016/Dec/31 | 100\% | 21.0085 |
| 546933 |  | 2016/Dec/31 | 100\% | 42.0392 |
| 546934 |  | 2016/Dec/31 | 100\% | 63.0545 |
| 546935 |  | 2016/Dec/31 | 100\% | 21.0205 |
| 546936 |  | 2016/Dec/31 | 100\% | 84.0644 |
| 546939 |  | 2016/Dec/31 | 100\% | 63.0388 |
| 546940 |  | 2016/Dec/31 | 100\% | 63.0442 |
| 546942 |  | 2016/Dec/31 | 100\% | 42.0182 |
| 546943 |  | 2016/Dec/31 | 100\% | 42.0184 |
| 546944 | GH SOUTH | 2016/Dec/31 | 100\% | 21.0067 |
| 560690 | NEW PIPE | 2016/Dec/31 | 100\% | 147.3850 |


| Tenure <br> Number | Claim Name | Expiry Date | Anglo Swiss Ownership | Area |
| :---: | :---: | :---: | :---: | :---: |
| 614063 | KEEP THE DREAM 1 | 2011/Dec/31 | 100\% | 62.9906 |
| 614064 | KEEP THE DREAM 2 | 2011/Dec/31 | 100\% | 41.9823 |
| 615003 | SAVE THE DAY 3 | 2011/Dec/31 | 100\% | 20.9953 |
| 615004 | SAVE THE DAY 4 | 2011/Dec/31 | 100\% | 20.9985 |
| 637284 | CHERRY 1 | 2011/Dec/31 | 100\% | 21.0170 |
| 658223 | TEC 10 | 2011/Dec/31 | 100\% | 84.0751 |
| 672703 | DW 1 | 2011/Dec/31 | 100\% | 21.0154 |
| 683323 | SILVER LYNX SOUTH | 2011/Dec/31 | 100\% | 168.2030 |
| 684405 | DW 2 | 2011/Dec/31 | 100\% | 21.0082 |
| 686624 | DW 4 | 2011/Dec/31 | 100\% | 21.0065 |
| 686626 |  | 2011/Dec/31 | 100\% | 21.0082 |
| 687463 | DW 7 | 2011/Dec/31 | 100\% | 21.0204 |
| 687465 | DW 6 | 2011/Dec/31 | 100\% | 21.0049 |
| 688623 | DW 11 | 2011/Dec/31 | 100\% | 42.0094 |
| 688643 | DW 12 | 2011/Dec/31 | 100\% | 21.0117 |
| 705537 | SHIRLEY | 2011/Dec/31 | 100\% | 525.8070 |
| 705538 | CHARLENE | 2011/Dec/31 | 100\% | 525.7790 |
| 705539 | JESSICA | 2011/Dec/31 | 100\% | 504.9770 |
| 705540 | BRITTANY | 2011/Dec/31 | 100\% | 462.8860 |
| 705541 | MARISHA | 2011/Dec/31 | 100\% | 525.9570 |
| 705542 | MARISHA 2 | 2011/Dec/31 | 100\% | 294.5250 |
| 705543 | ALICIA | 2011/Dec/31 | 100\% | 505.0440 |
| 705544 | LISA | 2011/Dec/31 | 100\% | 441.9700 |
| 705545 | LAURA | 2011/Dec/31 | 100\% | 526.2090 |
| 705653 | TAHOE | 2011/Dec/31 | 100\% | 505.1460 |
| 706547 | DW 10 | 2011/Dec/31 | 100\% | 63.0065 |
| 706548 | DW 11 | 2011/Dec/31 | 100\% | 21.0050 |
| 706549 | DW 12 | 2011/Dec/31 | 100\% | 42.0081 |
| 708742 | DW 20 | 2011/Dec/31 | 100\% | 42.0019 |
| 712902 | NELSON FRACTURE | 2011/Mar/04 | 100\% | 21.0083 |
| 772522 | MOTH | 2011/May/12 | 100\% | 526.3010 |
| 772542 | MAMM | 2011/May/12 | 100\% | 504.9600 |
| 772562 | ASW | 2011/May/12 | 100\% | 105.1750 |
| 532615 |  | 2011/Feb/15 |  | 21.04 |
| 524721 | MAMMOTH | 2011/Feb/15 |  | 63.1125 |
| 601191 | MONARCH | 2011/Dec/31 |  | 105.192 |
|  |  |  |  | 22898.4001 |

Crown-granted Claims (note that their areas are completely contained within other claims):

| LOT\# | C.G. Name | Anglo <br> Swiss <br> Ownership |
| :---: | :---: | :---: |
| 101 | Poorman | $100 \%$ |
| 102 | Hardscrabble | $100 \%$ |
| 2550 | Granite | $100 \%$ |
| 2551 | Red Rock Fr. | $100 \%$ |
| 2556 | White | $100 \%$ |


| LOT\# | C.G. Name | Anglo <br> Swiss <br> Ownership |
| :---: | :---: | :---: |
| 2557 | Hardup | $100 \%$ |
| 2559 | Election | $100 \%$ |
| 3691 | Greenhorn Fr. | $100 \%$ |
| 3926 | Onix | $100 \%$ |
| 3927 | C\&K | $100 \%$ |
| 3928 | Freemont | $100 \%$ |
| 4757 | Venango | $100 \%$ |
| 4758 | Shenango | $100 \%$ |
| 4787 | Greenwood Fr. | $100 \%$ |
| 4788 | Greenwood | $100 \%$ |
| 4789 | Jackpot Fr. | $100 \%$ |
| 976 | Muldoon | $60 \%$ |

## Anglo Swiss Resources Inc.

# 2010 DIAMOND DRILLING REPORT ON THE KENVILLE MINE PROPERTY 

Located in the Nelson Area<br>Nelson Mining District<br>NTS 82F 06, 11 and 12<br>$49.45193^{\circ} \mathrm{N}$ Latitude; $117.4159^{\circ}$ W Longitude

-Prepared by-

## ANGLO SWISS RESOURCES INC.

Suite 309, 837 West Hastings Street
Vancouver, BC, Canada
V6C 3N6
-Prepared by-
Jari Paakki, P.Geo.
ANGLO SWISS RESOURCES INC.
Suite 309, 837 West Hastings Street
Vancouver, BC, Canada
V6C 3N6
January 29, 2012

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## SUMMARY

The Kenville gold mine property consists of 15 Crown Granted mineral claims, 4 staked mineral claims and 4 parcels of deeded surface property encompassing a total of 563 hectares located eight kilometres west of the City of Nelson, British Columbia. The property includes the past producing Kenville gold mine, which has been in operation intermittently since 1889. The mine has produced 65,236 ounces of gold at a grade of 0.68 oz/ton, 27,686 ounces of silver, 51,782 pounds of lead and 33,398 pounds of zinc between 1890 and 1954.

The 2010 exploration program on the Kenville Mine Property was undertaken from November 1 to December $31^{\text {st }}, 2010$ on Crown Grants consisting 5 holes totaling 2,982 metres to test the southern extension of high-grade veins form the past-producing Kenville. The cost of this work amounted to \$298,990.81.

The drilling encountered numerous high-grade gold which warrants further drilling to continue to expand the high-grade gold vein system south of the past-producing Kenville Mine. A further 10,000 metres of drilling is recommended.

## INTRODUCTION

During late 2010 Anglo Swiss completed 5 diamond drill holes testing the southern extension of highgrade veins form the past-producing Kenville. The goal was to determine the extent of high-grade gold veins.

The literature used in compiling this report consisted of assessment reports filed with the British Columbia Ministry of Energy and Mines, government reports, and maps and private information.

## RELIANCE ON OTHER EXPERTS

The author has not relied on a report, opinion or statement of an expert for information concerning legal, environmental, political or other issues.

## PROPERTY DESCRIPTION AND LOCATION

The $100 \%$ owned Kenville gold mine property consists of 15 Crown Granted mineral claims, 4 staked mineral claims and 4 parcels of deeded surface property encompassing a total of 563 hectares located eight kilometres west of the City of Nelson, British Columbia. The property includes the past producing Kenville gold mine, which has been in operation intermittently since 1889. The mine has produced 65,236 ounces of gold at a grade of $0.68 \mathrm{oz} /$ ton, 27,686 ounces of silver, 51,782 pounds of lead and 33,398 pounds of zinc between 1890 and 1954. The main mine workings consist of seven levels and are found on the Crown Granted claims. The Crown Grants have yearly lease payments to the British Columbia government. All claims are in good standing until March 9, 2016.

## ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE, PHYSIOGRAPHY

From Nelson, road access to the Kenville gold mine property is west via Highway 3a for approximately 1.0 kilometre to Granite Road, then southwest along Granite Road for 4.4 kilometres to the town of Blewett and southwest on Blewett Road for 2.0 kilometres to the Kenville Mine Road. From this point numerous
forestry and unpaved municipal roads access all parts of the property, including the surrounding regional properties. The local regional airport is located in Castlegar, approximately 32 kilometres to the west. Should materials be needed by air support, they can be obtained from Vancouver and Calgary. By highway, the city of Nelson is 663 kilometres from Vancouver, 624 kilometres from Calgary, 237 kilometres from Spokane, Washington and 67 kilometres from the city of Trail, British Columbia. The region is well-developed with rail lines, hydro-electric power generation capacity and a highly skilled workforce.

Figure 1: Location Map


Figure 2: Kenville Crown Grants


## HISTORY

Exploration in the Nelson area began in the late $19^{\text {th }}$ century with the discovery of placer gold in Fortynine Creek, leading to a modest gold rush. While prospecting for gold the Hall brothers discovered silver-rich galena veins on Toad Mountain (Silver King mine). The very rich Ag-Cu ore quickly became famous in North America and Britain. The staking rush that ensued led to the development of many exposed polymetallic and gold-quartz vein systems in the area, and several of them became major producers for the time. However, the Silver King deserves the royal moniker, having produced $4,443,703 \mathrm{oz} \mathrm{Ag}$ and $14,968,812 \mathrm{lbs} \mathrm{Cu}$ from intermittent operation between 1889 and 1949.

## Kenville Mine Area Exploration History

Within the Nelson Mining Camp Project claims, past-producers from the early- to mid-century include the Kenville ( 65,236 oz Au), Eureka ( 36,161 oz Ag), Venango ( 378 oz Au ), Royal Canadian ( 108 oz Au ), May and Jennie (39 oz Au), Gold Hill (303 oz Au), Referendum (118 oz Au), Northern Light (59 oz Ag) and Good Hope ( 90 oz Au ). The largest producer of these was the Kenville mine (formerly Granite-Poorman mine)
discovered in 1888. Milling of ore from five northwest trending veins began in 1889 by Eagle Creek Mining Co. Production continued as the mine changed ownership at least nine times during its operation until the last ounce of gold was produced in 1954. By the end of production the mine had yielded $65,236 \mathrm{oz} \mathrm{Au}, 27,686 \mathrm{oz}$ $\mathrm{Ag}, 51,782 \mathrm{lbs} \mathrm{Pb}$ and $33,398 \mathrm{lbs} \mathrm{Zn}$. Although $\mathrm{W}, \mathrm{Cu}$ and Cd were known to be present in the ore, no significant amounts of these metals were extracted. At the end of its production life the mine was owned by Noranda Mines Ltd. who kept the mill operating on feed from small-scale miners working in the area until the mine was decommissioned by Noranda in 1962 and all useable equipment was removed from the site. Nearby, the Eureka workings produced $36,161 \mathrm{oz} \mathrm{Ag}$ and $350,910 \mathrm{lbs} \mathrm{Cu}$ from 1905 to 1954 under the direction of at least 12 different operators. The pre-1970 history of the remaining smaller past-producers is poorly documented.

In 1969 Algoma Industries and Resources Ltd. acquired the Kenville mine property and subsequently sold it to Coral Industries in 1987 after a failed attempt at re-opening the mine. Coral Industries exercised its right to operate the mine in 1989 at which time it began an assessment of the milling operations and care and maintenance program. At the same time they amalgamated the Kenville mine property with the Venango property.

The Venango veins lie 500 m to the west and are deemed to be similar to the parallel GranitePoorman veins. These veins were not exploited until 1939 at which time 439 oz Ag and 378 oz Au were recovered from a single adit; however production records are scant. In 1980 DeKalb Mining Corp. completed a $2,932 \mathrm{~m}$ diamond drilling program on the Venango-Shenango and Greenwood claims. No results from the program are available. Ownership of the Kenville Mine property, including the Venango adit, was taken over by Anglo Swiss in 1992.

In 1994 Teck Exploration Ltd. optioned the Kenville mine property from Anglo Swiss and amalgamated it with the adjacent Ron property under option from Eric and Jack Denny. Teck's focus at this time was exploring for a bulk minable copper-gold porphyry target. To this end Teck completed 3083 m in 16 diamond drill holes, along with induced polarity, resistivity, ground magnetometer and geochemical surveys. Low-grade porphyry-style mineralization and alteration was encountered over short intervals in diamond drill holes (Thomson, 1997). Teck Exploration dropped the option in 1997.

In 2007 and 2008, Anglo Swiss drilled 15,500 m in 50 holes near the Kenville mine to further define the Granite-Poorman vein system and continue exploration for porphyry style mineralization. Results of this drilling are unknown as no report is available for this work.

## REGIONAL GEOLOGY AND MINERALIZATION

## Regional Geology

The Nelson Project area lies within the southern Omineca Belt at the eastern margin of the cordilleran accreted terranes (Figure 3). The Omineca Belt straddles the boundary between allocthonous accreted terranes, autocthonous accreted terranes and the Ancestral North American Margin. In southern BC it is characterized by folded and overthrust Proterozoic to Cambrian sedimentary rocks of the Purcell anticlinorium, Lower Cambrian sedimentary rocks of the Kootenay Terrane and Mesozoic oceanic and volcanic island arc rocks of the Quesnellia Terrane. The belt was formed in Jurassic to Early Cretaceous time as Quesnellia was thrust eastward over the autocthonous Kootenay Terrane and Ancestral North America (Gabrielse et al., 1991). The Mesozoic compression was accompanied by extensive folding, faulting, and plutonism. Metamorphic grades are locally high due to deep burial beneath tectonically thickened crust. This was followed by a period of extension resulting in extensional faulting, unroofing of metamorphic core complexes (i.e. Valhalla and Shuswap) and further plutonism (Hoy and Dunne, 2001).

Figure 2: Regional Geology


A brief description of the different units present in the Nelson area is provided below from oldest to youngest. Unless otherwise stated, all unit descriptions are based on those provided by Hoy and Dunne (2001).

## Quesnellia Terrane - Rossland Group

The Rossland Group includes clastic rocks of the Archibald Formation and correlative Ymir Group, dominantly mafic volcanic and volcaniclastic rocks of the Elise formation and fine-grained clastic rocks of the Hall Formation. In the Nelson area and south towards Ymir, these three formations form south to southeast trending belts. The Rossland Group is Early Jurassic, constrained by macrofossils present in both the basal Archibald and stratigraphically highest Hall formations as well as U-Pb zircon dates returned from volcanic rocks of the Elise Formation. The Rossland Group represents the easternmost occurrence of rocks assigned to the accreted terranes.

## Archibald Formation

The Archibald Formation is dominated by clastic rocks ranging from argillite to thick successions of conglomerate. The thickness of the formation is up to 2550 m and is separated from underlying Permian
rocks by an unconformity. The Archibald Formation is in abrupt to gradational contact with the overlying Elise Formation. Rare lenses of basalt to andesite flows and lapilli tuff occur in the upper portions of the formation outcropping on the slopes east of Erie Creek. The Ymir Group is interpreted to be a lateral deep- water facies equivalent to the Archibald Formation and consists of argillite and deep-water turbidites. The age of the Archibald Formation is constrained by numerous fossil age dates. It records deposition of marine, and locally subaerial, clastic rocks during a period of active block faulting and uplift evident from rapid facies changes and debris flows.

In the Project area the Archibald Formation forms a north-south trending belt that extends from the south end of Fortynine Creek and extends the length of Erie Creek on its eastern side. Rocks assigned to the laterally equivalent Ymir Group occur in a similar trending belt extending from Kootenay Lake in the north to Porcupine creek in the south and underlie the Rover Creek watershed in the western portion of the project area.

## Elise Formation

The Elise Formation is up to 5000 m thick and dominated by alkaline to subalkaline mafic volcanic flows, pyroclastic rocks, epiclastic rocks and minor intercalated sedimentary rocks. The formation has been subdivided into eight non-successive units or facies. It is in sharp to gradational contact with both the underlying Archibald and overlying Hall formations. Locally in southern exposures, it is bracketed by unconformities at both the upper and lower contacts. A U-Pb zircon age from a crystal tuff in the Copper Mountain area returned an age of $197.1+/-0.5 \mathrm{Ma}$. Trace and rare element data suggest a significant contribution of continental crust which has been interpreted to imply formation close to the North American continental margin on a thinned continental prism or thinned continental crust (Hoy and Dunne, 2001).

## Hall Formation

The Hall Formation comprises a 2100 m thick succession of fine clastic rocks broadly divided into three members. These are (1) a basal rusty-weathering black siltstone and argillite overlain by (2) coarse sandstone and conglomerate overlain locally by (3) carbonaceous siltstone commonly referred to as the Upper Hall Formation. The Hall Formation has been observed to be in conformable and unconformable contact with the underlying Elise volcanic and volcaniclastic rocks. However, fossil ages in both the underlying Elise and Hall formations as well as the occurrence of Elise Formation derived clasts in a basal conglomerate assigned to the Hall Formation have been used as evidence of a several million year hiatus of deposition between the two formations.

## Jurassic Plutons

Jurassic intrusive rocks can be divided into Early-, Early-Middle and Middle-Jurassic suites (Paradis and Underhill, 2009; Hoy and Dunne, 2001). The Early Jurassic suites include the Eagle Creek plutonic complex (Jrp) and various monzogabbro intrusions interpreted to be coeval with the Elise formation (e.g. Mammoth intrusions). The Eagle Creek plutonic complex underlies Eagle creek in the north of the project area occurring on both the north and south side of Kootenay Lake. The Eagle Creek plutonic complex is commonly referred to as a pseudodiorite after Mulligan (1952), however compositions within the coherent body are varied; major phases include gabbro and diorite but quartz monzonite to hornblende syenite phases are present also. All phase are typically medium to coarse-grained and may be locally gneissic. Ultramafic phases occur throughout the complex with clinopyroxenite common at the margins. Monzogabbro intrusions unrelated to the Eagle Creek plutonic complex are often sill-like or form small stocks throughout the Elise Formation. They are typically porphyritic with plagioclase crystals in a dark green aphanitic groundmass. The intrusions have been interpreted as high-level intrusions, locally breaching a paleo-surface to occur as pillowed lavas or flows.

Early-Middle Jurassic plutonism is represented by the Silver King intrusions (Jrsk). These are plagioclase-phyric mafic intrusions that petrographically resemble leucodiorite porphyry but have been characterized as quartz monzodiorite and granodiorite through whole rock geochemistry. The conflicting nomenclature is likely due to locally intense alteration and deformation related to syntectonic emplacement. The intrusive bodies occur throughout the Elise Formation south of Nelson. Most exposures have been
mapped in the eastern limb of the Hall Creek syncline however anecdotal reports indicate small bodies of the Silver King intrusions in the western limb.

Middle Jurassic plutons (Jrn) in the project area include the Nelson and Bonnington batholiths in the north and south respectively. They show a complex history of magmatism spanning 15 Ma with early alkaline evolving to calc-alkaline magmatism and followed by the formation of two-mica granite. In their entirety, they represent continental arc granitoids that have undergone abundant crustal contamination.

## Eocene Plutons

Plutonic rocks of Eocene age are assigned to the Coryell Plutonic Suite (Ecc,) comprised of augite biotite monzonite and biotite - hornblende syenite. The intrusive bodies are generally small plugs that intrude all formations indiscriminately. They have been attributed to Eocene-age regional extension associated with normal faulting. In the study area the Coryell suite intrusions are most abundant in the Ymir Group underlying the Rover Creek area. In the northwest, a large, relative to other Eocene plugs, body of Coryell diorite intrudes volcaniclastic rocks of the Elise Formation and older plutonic rocks assigned to the Eagle Creek plutonic complex.

## Structure

The dominant structural features in the area are broad north-trending and east-verging folds interpreted to be the first features resultant from east-directed compression. In the project area, this is the northeast to northwest-trending, south-plunging Hall Creek syncline. Sedimentary rocks of the Hall Formation core the syncline with rocks of the Elise and Archibald formations comprising the limbs. Deeper structural levels are exposed in the north at the closure of the Hall Formation where a series of northwest-striking shears form a 1 km wide zone referred to as the Silver King shear. This structural zone continues through the Elise Formation and into the Eagle Creek plutonic complex. The Silver King shear's continuity within the Eagle Creek plutonic complex is poorly documented. The maximum age of folding and metamorphism is constrained by the syn-tectonic Silver King intrusions (ca. 174-178 Ma.) and a minimum age from the Nelson batholith (ca. 167 Ma.$)$ that truncates folds in the Hall Creek syncline. The Mount Verde - Red Mountain normal fault on the western limb of the Hall Creek syncline and underlying portions of Fortynine Creek creates a repeating sequence of Archibald and Elise formations. This fault postdates folding but is stitched by the Bonnington pluton that is contemporaneous to the Nelson batholith at ca. 167 Ma .

## Regional Mineralization

The Nelson area is host to numerous small to medium sized past producers.

## Volcanic Massive Sulphide Deposits

Several showings in the area are classified as volcanic massive sulphide (VMS) deposits. These include the Hungry Man, Silver 1 and Silver Lynx. All occurrences are within the upper portions of the Ymir Group or lower Elise Formation in subaqueous mixed volcanic-sedimentary successions (Hoy and Dunne, 2001). The VMS designations are tentative, however, as both the Silver Lynx and Hungry Man are spatially associated with the contact between diorite and host sedimentary rocks and could reflect skarn mineralization.

## Porphyry Copper Gold: Alkalic

The Shaft Cu-Au porphyry deposit is located 6 km south of Nelson and 6 km east of Anglo Swiss' property boundary. It is classified as an alkalic Cu-Au porphyry system hosted in Elise Formation volcanic rocks and syngenetic porphyry monzodiorite on the eastern limb of the Hall Creek syncline. Mineralization typically comprises up to $1 \%$ magnetite, $15 \%$ pyrite $3 \%$ chalcopyrite and rare pyrrhotite occurring as disseminated sulphides throughout all lithologies. At the Cat zone, sulphides occur in the matrix of a $9 \times 5.5$ m pod of crackle breccia. An alteration assemblage of chlorite-epidote-carbonate-sericite has been interpreted to be a propylitic overprint of earlier potassic alteration with a late sericite-carbonate-quartz alteration. The resulting alteration assemblage resembles regional greenschist facies metamorphism in the Nelson area but is more intense at the Shaft occurrence (Hoy and Dunne, 2001).

## Skarn Deposits

The past producing Queen Victoria deposit is located across Kootenay Lake from Anglo Swiss's claim boundary and is classified as a Cu-skarn deposit. During production from 1907 to 1918 it produced 1,482,895 lbs of $\mathrm{Cu}, 30,544 \mathrm{oz}$ of Ag and 246 oz of Au . The deposit is hosted in limestone and limey argillite of the Ymir Formation at the margin of the Nelson batholith. Mineralization occurs as disseminated to irregular clusters of chalcopyrite, pyrite and minor bornite in irregular bands of garnet, epidote, actinolite, magnetite and pyrrhotite. The skarn bands are interlayered with quartzite and schist that, along with the skarn, are crosscut by small faults and feldspar porphyry dykes (Minfile, 1991b).

## Gold-Quartz Veins

The past-producing Kenville (Granite-Poorman) mine is located within the Eagle Creek complex within Anglo Swiss's claims. It is classified as a Au-quartz vein deposit and consists of 5 north-northwest trending veins hosted in variably sheared mafic intrusive rocks of the Eagle Creek Plutonic complex. The veins comprise milky to glassy quartz with pyrite and chalcopyrite as the dominant sulphides. Minor amounts of galena, sphalerite, scheelite and visible gold occur within the veins and disseminated pyrite in the host rocks (Hoy and Dunne, 2001). Average grade of the veins is $16.73 \mathrm{~g} / \mathrm{t}$ and historical production is listed at 65,236 oz Au (Minfile, 1996).

## Polymetallic Veins (Ag-Pb-Zn+/-Au)

The past-producing Silver King mine is located on the northeast side of Toad Mountain, approximately 4 km from Anglo Swiss's claims. Silver-copper mineralization is hosted in quartz-carbonate veins within the northwest-striking Silver King shear system. Historical production of 4,443,703 oz Ag and 14,968,812 lbs Cu was achieved from several different veins with grades ranging from 16 to $559 \mathrm{~g} / \mathrm{t}$ Ag and 0.08 to $5.02 \% \mathrm{Cu}$ (BC Minfile \#082FSW176). Sulphide minerals include pyrite, chalcopyrite, galena, sphalerite and locally trace tetrahedrite, stromeyerite, and bornite (Hoy and Dunne, 2001).

## PROPERTY GEOLOGY AND MINERALIZATION

## Kenville Area

The Kenville / Ron area is underlain by the Eagle Creek plutonic suite, which is mainly composed of gabbro and diorite but with quartz monzonite to hornblende syenite phases also present. All phases are typically medium to coarse-grained and may be locally gneissic. Ultramafic phases occur throughout the complex with clinopyroxenite common at the margins. Little petrographic work has been done on this complex suite and the following description is taken predominantly from Thomson (1997). All phases have undergone varying degrees of alteration. The strongly foliated rocks contain chlorite-retrograded biotite and moderately epidote-potassic altered feldspars. Potassic alteration is common; although typically cryptic, it may locally display a pinkish hue and is rarely associated with up to $1 \%$ pyrite and trace molybdenite mineralization. Carbonate-magnetite alteration appears to have a positive correlation with the intensity of foliation and fine-grained chalcopyrite mineralization.

## Granite-Poorman Veins

The Granite-Poorman vein system is comprised of six main veins and several secondary or less continuous veins over a width of approximately 500 m . The veins strike 330 to 350 degrees and dip approximately 45 degrees northeast with an average thickness is 0.6 m (Thomson, 1997). From west to east they are referred to as Hardscrabble, Hardup, Poorman, Greenhorn, Granite (White) and Beelzebub veins. Texturally they are milky to glassy quartz containing pyrite and chalcopyrite with minor amounts of galena, sphalerite, scheelite and visible gold. A disseminated pyrite halo around the veins extends into the host plutonic rocks (Hoy and Dunne, 2001). The veins are traceable for at least 500 m with minor offsets typically located along lamprophyre dykes interpreted to have intruded along steeply-dipping faults.

A seventh "flat vein" was reported from underground workings and is described as flat-lying to shallowly-dipping with thicknesses of at least 1.5 m , defined over an area of $3700 \mathrm{~m}^{2}$ (Munroe, 2009). The Yule vein is a sub-vein adjacent and parallel to the Poorman vein.

## Venango Veins

The Venango Au-Ag vein system is located on Anglo Swiss's property near the Kenville mine. It comprises two parallel veins that strike 330 to 350 degrees and dip 40 to 45 degrees to the north. The veins contain pyrite with lesser chalcopyrite, sphalerite, galena, free gold and scheelite ( 0.3 to $3.39 \% \mathrm{WO}_{3}$ ). Gold is contained in shoots that plunge approximately 30 degrees to the south. A total of $439 \mathrm{oz} \mathrm{Ag}, 378$ oz Au and over 100 kg of Pb and Zn were extracted from 809 tonnes of mined ore (Minfile, 2007).

## 2010 Exploration Program

The 2010 exploration program on the Kenville Mine Property was undertaken from November 1 to December $31^{\text {st }}, 2010$ consisting 5 holes totaling 2,982 metres. The drilling contractor was Full Force Drilling. Drill core was logged by M. Kiridzija and T. Schoettler. The program was supervised by G. Carter. The cost of this work amounted to $\$ 298,990.81$. Drilling was completed on Anglo Swiss Crown Grants. Drill hole collar locations are provided in the appended drill logs.

Table 1: 2010 Statement of Costs

| PERIOD | Metres | OVERALL PERIOD COST PER METER | PERIOD TOTAL | DRILLING | LABOUR | EQUIPMENT | DIESEL FUEL | SUPPLIES | ASSAY COSTS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NOVEMBER $1-30$, 2010 | 924.4 | \$133.04 | \$122,985.49 | \$81,914.02 | \$8,607.17 | \$11,228.77 | \$7,037.38 | \$5,650.55 | \$6,162.60 |
| DECEMBER $1-15$, 2010 | 1110.4 | \$127.98 | \$142,099.14 | \$99,965.43 | \$10,733.80 | \$8,522.40 | \$7,620.42 | \$3,989.17 | \$8,882.93 |
| DECEMBER 16-31, | 152.4 | \$222.42 | \$33,906.18 | \$13,392.23 | \$7,829.92 | \$4,213.20 | \$1,749.30 | \$2,638.02 | \$1,219.51 |
|  | 2187.2 |  | \$298,990.81 |  |  |  |  |  |  |

Drill core was processed at the Kenville Mine. Drill core samples of half core were produced by an electric core saw. Sample intervals were laid out by the logging geologist and intervals delineated by sample tags stapled into core boxes. The remaining half core was cross-stacked at the Kenville Mine site (UTM coordinates 471800 mE 5480420 mN ). Samples were shipped from site to ALS Chemex in Vancouver, British Columbia. Drill core samples were submitted for a multi-element analysis package that utilized an aqua regia digestion and ICP-MS techniques. Gold values were determined via fire assay and a gravimetric finish. Certificates of analysis are presented appended.

Figure 3: 2010 Drill Hole Location Map


Table 2: 2010 Diamond Drill Hole Collar Data

| PAD \# | HOLE\# | STATUS | DATE | METERS |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| 8 | KE10-16 | Finished | 23-Nov-10 | 500.9 |
| 8 | KE10-17 | Finished | 29-Nov-10 | 388.4 |
| 10 | KE10-18 | Aborted | 02-Dec-10 | 90 |
| 10 | KE10-19 | Finished | 12-Dec-10 | 619 |
| 10 | KE10-20 | Finished | 06-Jan-11 | 652.4 |
| 10 | KE10-21 | Finished | 13-Jan-11 | 731.7 |
|  |  |  | Total meters drilled | 2982.4 |

Table 3: 2010 Significant Assay Results

| Hole \# | From <br> $(\mathbf{m})$ | To <br> $(\mathbf{m})$ | Interval <br> $(\mathbf{m})$ | Au <br> $(\mathrm{g} / \mathrm{t})$ | Ag <br> $(\mathrm{g} / \mathrm{t})$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| KE10-16 | 263.5 | 264 | 0.5 | 111.5 | 58.1 |
| KE10-16 | 274.8 | 275.08 | 0.28 | 47.2 | 51.4 |
| KE10-16 | 335.16 | 335.56 | 0.4 | 20 | 28.2 |
| KE10-16 | 361.86 | 362.74 | 0.88 | 88.1 | 130 |
| KE10-17 | 353.57 | 354.15 | 0.58 | 26 | 16.2 |
| KE10-17 | 372.16 | 372.62 | 0.46 | 59.8 | 31.8 |
| KE10-19 | 323.15 | 323.26 | 0.11 | 17.6 | 18.2 |
| KE10-19 | 426.05 | 426.5 | 0.45 | 84.5 | 22.3 |
| KE10-19 | 547.38 | 547.7 | 0.32 | 15.4 | 4.1 |
| KE10-20 | 128.28 | 128.54 | 0.26 | 23.6 | 14.6 |
| KE10-20 | 350.52 | 350.64 | 0.12 | 23.6 | 29 |
| KE10-20 | 499.2 | 499.89 | 0.69 | 34.8 | 34.5 |

## DISCUSSION AND CONCLUSIONS

Based on results of the first phase of exploration drilling south of the past-producing Kenville Mine further drilling is recommended to continue to expand the high-grade gold vein system. A further 10,000 metres of drilling is recommended.

Respectfully submitted,


Jari Paakki, P.Geo.
ANGLO SWISS RESOURCES INC.
Vancouver, British Columbia
January 29th, 2012

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## GEOLOGIST`S CERTIFICATE

I, Jari Paakki, P. Geo., do hereby certify:
THAT I am a Professional Geoscientist (Ontario) with offices at Suite 309-837 West Hastings Street, Vancouver, BC, V6C 3N6
THAT I am an author of the Assessment Report entitled "2010 Diamond Drilling Report on the Kenville Mine Property` dated January $29^{\text {th }}, 2012$.
THAT I am a member in good standing (\#230) of the Association of Professional Geoscientists of Ontario.
THAT I graduated from the Laurentian University In Sudbury Ontario in 1992 with an MSc in Geology.
THAT since 1992, I have been involved in mineral exploration for gold and base metals in Canada and Scandinavia.
THAT I am CEO of Anglo Swiss Resource Inc.

Dated at Sudbury, Ontario, this 29th day of January, 2012.


Jari Paakki, P. Geo.

| HOLE ID | AZIMUTH |  | LENGTH | COORDINATES |  | SHORTLOG | LOG COMPLETE | Shipments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| KE10-20 | 244 | -72 | 655.33 | EASTINGS: | 472372 | MK | 09/01/2011 |  |
|  |  |  |  | NORTHINGS: | 5479250 | DETAILLOG | DATUM |  |
|  | Drilling |  |  |  |  | \| MK | \| ${ }^{\text {Dad83 }}$ Zone 11 |  |
| AREA | Started: | 19/12/2010 | CORE SIZE | SECTION |  |  | Nau83 Zone 11 |  |
| Kenville SE | Finished: | 09/01/2011 | NQ | 5479250 |  |  | SAMPLER |  |
|  |  |  |  |  |  |  | Mkiridzija |  |

HOLE ID KE10-20
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| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To Lith | M Lith | Lithology Notes | Sample | From | To | Interva\| | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 75.83 | 79.25 DIOR |  | Diorite. Same as 71.02-75.68. |  |  |  |  |  |  |  |  |  |
| 79.25 | 79.86 BZ | DIOR | Broken diorite. Fractured surfaces 45 or subperpendicular tca. |  |  |  |  |  |  |  |  |  |
| 79.86 | 85.34 DIOR |  | Diorite. Same as before; slightly sheared and foliated in sequences; short and rare lamprophyre dykes, <1cm wide. |  |  |  |  |  |  |  |  |  |
| 85.34 | 85.60 LAMP |  | Lamprophyre. Same as 70.87-71.02 except this interval is compact (not fractured) and less altered (not fragile). Very britle, sharp and direct contact with above diorite at 40tca; clean (no quartz veins); uniform appearance; visible phlogopite in greenish-grayish matrix. |  |  |  |  |  |  |  |  |  |
| 85.60 | 90.20 DIOR |  | Diorite. Same as before at 79.86-85.34. |  |  |  |  |  |  |  |  |  |
| 90.20 | 91.00 LAMP |  | Lamprophyre. Identical as 85.34-85.60; the same 40tca contact with diorite. |  |  |  |  |  |  |  |  |  |
| 91.00 | 91.74 SHR | DIOR | Sheared diorite. Shear followed by hairy veinlets of lamprophyre at 40tca; breakage of the core in the middle of the interval. |  |  |  |  |  |  |  |  |  |
| 91.74 | 99.49 DIOR |  | Diorite. Equigranular, coarse texture; wit shearing zones, 10 cm wide, subperpendicular tca; slight foliation subparalel tca; lamprophyre veinlets paralel tca in some sequences of this interval. | J294339 | 99.49 | 99.92 | 0.43 | 0.036 | 1.60 | 730 | 0.73 | Core |
| 99.49 | 99.92 ALT | DIOR | Altered diorite. Above shoulder; slightly bleached; disseminated pyrite rare. |  |  |  |  |  |  |  |  |  |
| 99.92 | 99.97 QMV |  | Mineralized quartz vein. Perpendicular tca; neclece of pyrite/chalco along sharp contact; low abundance of sulphide. | J294340 | 99.92 | 99.97 | 0.05 | 0.539 | 5.90 | 3150 | 3.15 | Core |
| 99.97 | 100.07 ALT | DIOR | Altered diorite. Below shoulder; disseminated pyrite/chalco; low abundance of sulphide. | J294341 | 99.97 | 100.07 | 0.10 | 0.021 | 0.90 | 236 | 0.24 | Core |
| 100.07 | 100.78 SHR | DIOR | Sheared diorite. Shear 45tca followed by quartz/calcite veinlets; bottom part of the interval breakage. |  |  |  |  |  |  |  |  |  |
| 100.78 | 102.90 DIOR |  | Diorite. Typical as before. |  |  |  |  |  |  |  |  |  |
| 102.90 | 103.02 QCV |  | Mineralized quartz carbonate and tourmaline vein. Subperpendicular tca; 5 cm wide, porous; contact sharp; mixture of tourmaline/quartz/calcite irregulary; pyrite clusters mixed with the vein. | J294342 | 102.9 | 103.02 | 0.12 | 0.028 | 1.30 | 2210 | 2.21 | Core |
| 103.02 | 104.00 DIOR |  | Diorite. Typical. Same as before. |  |  |  |  |  |  |  |  |  |
| 104.00 | 104.14 QMV |  | Mineralized quartz carbonate and tourmaline vein. Same as 102.90-103.02; vein is perpendicular tca and 6 cm wide, some alteration around; | J294343 | 104 | 104.14 | 0.14 | 0.021 | 0.60 | 892 | 0.89 | Core |
| 104.14 | 108.40 DIOR |  | Diorite. Typical.Same as before. | J294344 | 104.14 | 104.14 | 0.00 | 0.002 | 0.10 | 9 | 0.01 | Blank |

[^0]|  |  |  |  |  | Lithology | Assays |  |  |  |  |  |  |  |  |
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| From | To | Lith | M Lith | Lithology Notes |  | Sample | From | To | \|Interval | Aug/t | Ag PPM | Cu PPM | Cu\% | Type |


| 112.78 | 115.86 DIOR |  | Diorite. Typical; coarse grained; few alteration bands, $<1 \mathrm{~cm}$; some foliation in short sequences. |  |  |  |  |  |  |  |  |  |
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| 115.86 | 116.16 ALT | DIOR | Altered diorite. Bleached with disseminated pyrite; few quartz veinlets at the bottom; contact blurry. | J294345 | 115.86 | 116.16 | 0.30 | 0.363 | 0.90 | 205 | 0.21 | Core |
| 116.16 | 118.37 DIOR |  | Diorite. Typical; few quartz veinlets at 45 tca at the bottom. |  |  |  |  |  |  |  |  |  |
| 118.37 | 119.90 SHR | DIOR | Sheared diorite. Irregulat shear subparalel tca or 70tca; interval irregulary intersected with quartz veins, lamprophyre dykes and flames of volcanics; convoluted appearance. |  |  |  |  |  |  |  |  |  |
| 119.90 | 120.14 QCV |  | Quartz carbonate tourmaline vein. Mineralized; similar to 102.9-103.02; full of pyrite; flames of lamprophyre at 60tca; tourmaline vein subperpendisular tca; diorite altered/bleached around the contact. | J294346 | 119.9 | 120.14 | 0.24 | 0.070 | 6.60 | 3990 | 3.99 | Core |
| 120.14 | 127.32 DIOR |  | Diorite. Typical; same as before. |  |  |  |  |  |  |  |  |  |
| 127.32 | 127.47 ALT | DIOR | Altered diorite. Above shoulder; contact gradual. | J294347 | 127.32 | 127.47 | 0.15 | 0.105 | 1.40 | 442 | 0.44 | Core |
| 127.47 | 127.67 QMV |  | Mineralized quartz vein. Consists of 2 QMV at 50 tca and 30 tca; both 1 cm wide; mineralization low. | J294348 | 127.47 | 127.67 | 0.20 | 0.594 | 1.40 | 312 | 0.31 | Core |
| 127.67 | 128.02 ALT | DIOR | Altered diorite. Below shoulder; contact gradual. | J294349 | 127.67 | 128.02 | 0.35 | 0.015 | 1.00 | 238 | 0.24 | Core |
| 128.02 | 128.28 DIOR |  | Diorite. Typical; same as before. |  |  |  |  |  |  |  |  |  |
| 128.28 | 128.54 ALT | DIOR | Altered diorite. Above shoulder. | J294350 | 128.28 | 128.54 | 0.26 | 23.600 | 14.60 | 2180 | 2.18 | Core |
| 128.54 | 128.63 QMV |  | Mineralized quartz vein. With pyrite along contacts and inside vein;low mineralization. | J294351 | 128.54 | 128.63 | 0.09 | 1.100 | 14.90 | 7250 | 7.25 | Core |
| 128.63 | 128.78 ALT | DIOR | Altered diorite. Below shoulder for above QMV and above shoulder for below QMV. Overlaping; disseminated pyrite; bleached. | J294352 | 128.63 | 128.78 | 0.15 | 0.107 | 2.00 | 673 | 0.67 | Core |
| 128.78 | 128.90 QMV |  | Mineralized quartz vein. Perpendiculat tca; low mineralization. | J294353 | 128.78 | 128.9 | 0.12 | 0.237 | 0.80 | 165 | 0.17 | Core |
| 128.90 | 129.24 ALT | DIOR | Altered diorite. Below shoulder. | J294354 | 128.9 | 129.24 | 0.34 | 0.010 | 0.80 | 153 | 0.15 | Core |
| 129.24 | 129.38 QMV |  | Mineralized quartz vein. 3 cm wide and 80tca; sharp contact; low mineralization. | $\begin{aligned} & \hline \text { J294355 } \\ & \text { J294356 } \end{aligned}$ | $\begin{aligned} & 129.24 \\ & 129.24 \end{aligned}$ | $\begin{aligned} & 129.24 \\ & 129.38 \end{aligned}$ | $\begin{aligned} & 0.00 \\ & 0.14 \end{aligned}$ | $\begin{aligned} & 1.500 \\ & 0.148 \end{aligned}$ | $\begin{aligned} & 4.90 \\ & 1.40 \end{aligned}$ | $\begin{array}{r} 9920 \\ 319 \end{array}$ | $\begin{aligned} & 9.92 \\ & 0.32 \end{aligned}$ | $\begin{aligned} & \text { CM2 } \\ & \text { Core } \end{aligned}$ |
| 129.38 | 129.58 ALT | DIOR | Altered diorite. Below shoulder; slightly bleached; rere disseminated pyrite. | J294357 | 129.38 | 129.58 | 0.20 | 0.040 | 0.40 | 68 | 0.07 | Core |
| 129.58 | 129.77 QCV |  | Mineralized quartz calcite/tourmaline vein. Same as 102.90-103.02 | J294358 | 129.58 | 129.77 | 0.19 | 0.674 | 13.40 | 5320 | 5.32 | Core |

$129.77 \quad 130.30$ DIOR $\quad$ Diorite. Typical. As before

| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {To }}$ | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 130.30 | 130.50 ALT | DIOR | Altered diorite. With 3 short alteration bands full of pyrite/chalco; alteration bands are perpendiculat tca and $<1 \mathrm{~cm}$ wide;. | J294359 | 130.3 | 130.5 | 0.20 | 0.007 | 1.10 | 855 | 0.86 | Core |
| 130.50 | 133.55 DIOR |  | Diorite. With bullock quartz at 133.3 and few quartz veins, $<1 \mathrm{~cm}$ wide, perpendicular or 80tca; barren |  |  |  |  |  |  |  |  |  |
| 133.55 | 133.95 SHR | DIOR | Mineralized sheared diorite.Shear subparalel tca; mineralizetion along shear surface. | J294360 | 133.55 | 133.95 | 0.40 | 0.277 | 1.00 | 560 | 0.56 | Core |
| 133.95 | 134.59 ALT | DIOR | Altered diorite. Typical with quartz veinlet in the middle of the alteration zone and mineralization along quartz contact; pyrite/chalco in medium amount; rich mineralization in altered zone. | J294361 | 134.24 | 134.59 | 0.35 | 0.408 | 1.20 | 554 | 0.55 | Core |
| 134.59 | 134.85 DIOR |  | Diorite.With numerous short, <1cm alteration bands perpendicular tca. |  |  |  |  |  |  |  |  |  |
| 134.85 | 135.10 SHR | DIOR | Mineralized sheared diorite. Rich mineralizetion along shear surface, subparalel tca; lamprophyre flames along shear surface. | J294362 | 134.85 | 135.1 | 0.25 | 0.562 | 12.80 | 8600 | 8.60 | Core |
| 135.10 | 138.36 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 138.36 | 138.86 SHR | DIOR | Mineralized sheared diorite. Same as 134.85-135.10. | J294363 | 138.36 | 138.86 | 0.50 | 0.397 | 10.30 | 9580 | 9.58 | Core |
| 138.86 | 141.49 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 141.49 | 141.73 ALT | DIOR | Altered diorite. White alteration band in the middle; hardly visible quartz veinlet in the middle; low mineralization. | J294364 | 141.49 | 141.73 | 0.24 | 0.216 | 4.00 | 751 | 0.75 | Core |
| 141.73 | 143.85 DIOR |  | Diorite. | J294365 | 141.73 | 141.73 | 0.00 | 1.380 | 4.40 | 10000 | 0.97 | CM2 |
| 143.85 | 144.14 ALT | DIOR | Altered diorite. With alteration bands in the middle. | J294366 | 143.85 | 144.14 | 0.29 | 0.058 | 0.60 | 245 | 0.25 | Core |
| 144.14 | 144.90 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 144.90 | 145.27 SHR | DIOR | Mineralized sheared diorite. Shear subparalel tca and thiny quartz venlets perpendicular tca; low mineralization along shear and quartz contact | J294367 | 144.9 | 145.27 | 0.37 | 0.059 | 1.60 | 485 | 0.49 | Core |
| 145.27 | 145.91 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 145.91 | 146.40 ALT | DIOR | Altered diorite. Bleached; few quartz veinlets intersected in all directions; very few pyrite disseminated. | J294368 | 145.91 | 146.4 | 0.49 | 0.072 | 2.70 | 785 | 0.79 | Core |
| 146.40 | 146.86 FOL | DIOR | Foliated diorite. Slightly foliated subparalel tca. |  |  |  |  |  |  |  |  |  |
| 146.86 | 147.15 ALT | DIOR | Altered diorite. With few alt bands perpendicular tca and $<1 \mathrm{~cm}$; low mineralizarion. | J294369 | 146.86 | 147.15 | 0.29 | 0.245 | 5.50 | 2570 | 2.57 | Core |
| 147.15 | 147.90 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {To }}$ | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 147.90 | 148.16 ALT | DIOR | Altered diorite. 2 alteration bands perpendicular tca and 2 cm wide; medium abundance of sulphide. | J294370 | 147.9 | 148.16 | 0.26 | 0.098 | 4.40 | 2560 | 2.56 | Core |
| 148.16 | 150.31 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 150.31 | 150.83 ALT | DIOR | Altered diorite. Bleached; several undistinguishable alt bands overlaping; low mineralization | J294371 | 150.32 | 150.83 | 0.51 | 0.076 | 2.10 | 746 | 0.75 | Core |
| 150.83 | 151.55 FOL | DIOR | Foliated diorite. Foliation at 45-50tca; several short alteration bands with small quartz veinlets in the middle; no mineralization. |  |  |  |  |  |  |  |  |  |
| 151.55 | 151.68 ALT | DIOR | Altered diorite. Not visible quartz veins in the middle; low mineralization. | J294372 | 151.55 | 151.68 | 0.13 | 0.022 | 0.70 | 201 | 0.20 | Core |
| 151.68 | 153.26 FOL | DIOR | Foliated diorite. Similar to 150-151.55. |  |  |  |  |  |  |  |  |  |
| 153.26 | 156.43 DIOR |  | Diorite. Typical. Equigranular. |  |  |  |  |  |  |  |  |  |
| 156.43 | 158.50 SHR | DIOR | Sherared diorite. Foliated and sheared subparalel tca. |  |  |  |  |  |  |  |  |  |
| 158.50 | 159.06 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 159.06 | 159.68 ALT | DIOR | Altered diorite. Slightly bleached; LOW MINERALIZATION. | J294373 | 159.06 | 159.68 | 0.62 | 0.085 | 1.00 | 172 | 0.17 | Core |
| 159.68 | 160.14 SHR | DIOR | Sheared diorite. Same as above at 156.43-158.50. |  |  |  |  |  |  |  |  |  |
| 160.14 | 165.46 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 165.46 | 169.14 SHR | DIOR | Sheared diorite. |  |  |  |  |  |  |  |  |  |
| 169.14 | 172.94 DIOR |  | Diorite. With shear sequences and short alteration bands. |  |  |  |  |  |  |  |  |  |
| 172.94 | 173.28 ALT | DIOR | Altered diorite. With quartz veinlet in the middle; low mineralization. | J294374 | 172.94 | 173.28 | 0.34 | 0.006 | 1.40 | 100 | 0.10 | Core |
| 173.28 | 173.38 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 173.38 | 173.52 ALT | DIOR | Altered diorite. Bleached; with 2 quartz veinlets in the middle; disseminated coarse pyrite. | J294375 | 173.38 | 173.52 | 0.14 | 0.018 | 0.60 | 118 | 0.12 | Core |
| 173.52 | 174.00 FOL | DIOR | Foliated diorite. |  |  |  |  |  |  |  |  |  |
| 174.00 | 176.88 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 176.88 | 177.93 ALT | DIOR | Altered diorite. Bleached; contact with above diorite gradual;contact with below diorite sharp | J294376 | 176.88 | 177.93 | 1.05 | 0.096 | 0.50 | 62 | 0.06 | Core |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To Lith | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| and marked by short alteration bands perpendiculat tca; this interval consists of numerous short quartz veinlets with their alteration halos overlaping; disseminated pyrite all over interval; low mineralization. |  |  |  |  |  |  |  |  |  |  |  |  |
| 177.93 | 186.03 DIOR |  | Diorite. With few short alteration bands perpendicular tca, $\ I \backslash I \backslash, 5 \mathrm{~cm}$ wide but rare pyrite; equigranular texture; sheared in short sequences; barren quartz veins crossing perpendicular tca or 45tca at 183.53; breakage due to convolution of quartz/calcite/tourmaline veinlets causing porosity; barren. | J294377 | 177.93 | 177.93 | 0.00 | 0.444 | 0.90 | 67 | 0.07 | Core Dupl |
| 186.03 | 186.33 ALT | DIOR | Altered diorite. Consists of 2 alt bands perpendicular tca; at 186.06, 10 cm long alteration band with thiny quartz veinlet in the middle; at $186.25,4 \mathrm{~cm}$ long alteration band perpendicular tca with no quartz veinlet in the middle; low pyrite. | J294378 | 186.03 | 186.33 | 0.30 | 0.125 | 0.30 | 135 | 0.14 | Core |
| 186.33 | 190.28 DIOR |  | Diorite. Slightly epidotized inhomogeniously; slight short shear. |  |  |  |  |  |  |  |  |  |
| 190.28 | 190.68 SHR | DIOR | Sheared diorite. Shear influenced by lamprophyre intrusions along subparalel shear; change in texture and color along shear. |  |  |  |  |  |  |  |  |  |
| 190.68 | 192.12 DIOR |  | Diorite. Equigranular texture. Typical. |  |  |  |  |  |  |  |  |  |
| 192.12 | 193.33 SHR | DIOR | Sheared diorite. Interval starts with fragmented diorite sheared and slightly altered until 193.02; from 193.02-193.33 uniform, darker color, foliated subparalel tca. |  |  |  |  |  |  |  |  |  |
| 193.33 | 196.51 DIOR |  | Diorite. Coarse, equigranular; slightly foliated; slightly epidotized. |  |  |  |  |  |  |  |  |  |
| 196.51 | 197.72 SHR | DIOR | Sheared diorite. Darker color, fine grained, foliated, subparalel tca; lots of thiny, discontinious quartz veinlets. |  |  |  |  |  |  |  |  |  |
| 197.72 | 199.46 DIOR |  | Diorite. Typical. |  |  |  |  |  |  |  |  |  |
| 199.46 | 200.53 QV |  | Quartz vein. In diorite, subparalel tca; discontinous; breakage; barren; mixed with lamprophyre. |  |  |  |  |  |  |  |  |  |
| 200.53 | 204.37 EALT | DIOR | Epidotized diorite. Coarse grained; completely epidotized in interstitial space; light green and black color; equigranular texture. |  |  |  |  |  |  |  |  |  |
| 204.37 | 204.92 ALT | DIOR | Breakage; lots of thiny quartz veinlets at 45, 50 tca; probably several alteration bands succesivly; low pyrite amounts; above contact sharp; below contact gradual. | J294379 | 204.37 | 204.92 | 0.55 | 0.079 | 2.40 | 333 | 0.33 | Core |
| 204.92 | 207.62 FOL | DIOR | Foliated diorite. Darker color; finer grains; uniform interval;foliation paralel tca. |  |  |  |  |  |  |  |  |  |
| 207.62 | 208.27 QV | DIOR | Quartz veins in diorite. Quartz veins paralel tca, $1-3 \mathrm{~cm}$ wide, ribbony, wavy; barren; discontinious; calcite involved. |  |  |  |  |  |  |  |  |  |
| 208.27 | 218.00 DIOR |  | Diorite. Uniform; coarse grained; slightly epidotized; quartz veins perpendicular tca or 45tca. |  |  |  |  |  |  |  |  |  |
| 218.00 | 221.00 FOL | DIOR | Foliated diorite. Same as 204.92-207.62; uniform interval; shear subparalel tca; contact sharp. |  |  |  |  |  |  |  |  |  |
| 221.00 | 224.42 DIOR |  | Diorite. Coarse grained; slightly epidotized. |  |  |  |  |  |  |  |  |  |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To Lith | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 224.42 | 224.57 QCV |  | Mineralized quartz /calcite/tourmaline vein; At 80tca, 3cm wide; mixed tourmaline/quartz/calcite; contact sharp; porous; pyrite along vein; low mineralization | J294380 | 224.42 | 224.57 | 0.15 | 0.138 | 1.20 | 1540 | 1.54 | Core |
| 224.57 | 232.00 DIOR |  | Diorite. Coarse grained; slightly foliated in sequences up to 20 cm long; feldspatized; epidotized; more whitish color. |  |  |  |  |  |  |  |  |  |
| 232.00 | 232.43 ALT | DIOR | Altered diorite. Consists of 2 succesive alteration bands at 232.00-232.05 and 232.20-232.36; both alteration bands are perpendicular tca. | J294381 | 232 | 232.43 | 0.43 | 0.325 | 0.70 | 97 | 0.10 | Core |
| 232.43 | 232.63 DIOR |  | Diorite. Slightly foliated; whitish color. |  |  |  |  |  |  |  |  |  |
| 232.63 | 232.75 ALT | DIOR | Altered diorite; With thiny quartz veinlets in the middle filled with pyrite/chalco; low abundance of sulphide. | J294382 | 232.63 | 232.75 | 0.12 | 0.133 | 0.60 | 139 | 0.14 | Core |
| 232.75 | 233.25 DIOR |  | Diorite. Coarse grained; whitish color. |  |  |  |  |  |  |  |  |  |
| 233.25 | 234.80 FOL | DIOR | Foliated diorite. Same as above. |  |  |  |  |  |  |  |  |  |
| 234.80 | 238.18 DIOR |  | Diorite. Coarse grained. |  |  |  |  |  |  |  |  |  |
| 238.18 | 238.60 SHR | DIOR | Sheared diorite. With quartz, 1 cm wide, and thiny lamprophyre following sheare surface at 50tca. |  |  |  |  |  |  |  |  |  |
| 238.60 | 238.78 ALT | DIOR | Altered diorite. Typical with quartz veinlet in the middle; low pyrite abundance. | J294383 | 238.6 | 238.78 | 0.18 | 0.096 | 0.40 | 43 | 0.04 | Core |
| 238.78 | 241.12 DIOR |  | Diorite |  |  |  |  |  |  |  |  |  |
| 241.12 | 241.33 LAMP |  | Lamprophyre dyke. Perpendicular tca; fine aphanatic texture; dark color; slightly foliated at 45tca; contact with surronding diorite abrupt/sharp |  |  |  |  |  |  |  |  |  |
| 241.33 | 244.55 DIOR |  | Diorite. Coarse, whitish. |  |  |  |  |  |  |  |  |  |
| 244.55 | 245.30 ALT | DIOR | Altered diorite. Intensivly bleaches; unclear veinlets; disseminated pyrite/chalco through the whole interval; low to medium abundance of sulphide. | J294384 | 244.55 | 245.3 | 0.75 | 0.723 | 1.50 | 295 | 0.30 | Core |
| 245.30 | 248.70 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 248.70 | 248.94 ALT | DIOR | Altered diorite. Typical with quartz veinlet in the middle. | J294385 | 248.7 | 248.94 | 0.24 | 0.677 | 1.00 | 212 | 0.21 | Core |
| 248.94 | 250.00 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 250.00 | 250.16 LAMP |  | Lamprophyric dyke. Fine, aphanatic texture; contact at 40tca, contact shaer, britle; interval very magnetic. |  |  |  |  |  |  |  |  |  |
| 250.16 | 252.30 DIOR |  | Diorite. Few alteration bands at 40tca. |  |  |  |  |  |  |  |  |  |



| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {To }}$ Lith | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 279.64 | 279.90 SHR | DIOR | Mineralized sheared diorite. Also altered; bleached; shear surface at 20tca carring pyrite. | J294395 | 279.64 | 279.9 | 0.26 | 0.011 | 0.50 | 52 | 0.05 | Core |
| 279.90 | 280.27 DIOR |  | Diorite |  |  |  |  |  |  |  |  |  |
| 280.27 | 280.77 SHR | DIOR | Mineralizeds sheared diorite. Same as 279.64-279.90 but shear is at 30tca. | J294396 | 280.27 | 280.77 | 0.50 | 0.046 | 1.30 | 282 | 0.28 | Core |
| 280.77 | 284.13 ALT | DIOR | Altered diorite. 4 small alteration bands succesivly. | J294397 | 280.77 | 281.13 | 0.36 | 0.113 | 0.50 | 87 | 0.09 | Core |
| 284.13 | 284.23 DIOR |  | Diorite. Coarse equigranular;slightly sheared. |  |  |  |  |  |  |  |  |  |
| 284.23 | 284.72 FOL | DIOR | Foliated diorite. Very uniform; foliation at 40tca. |  |  |  |  |  |  |  |  |  |
| 284.72 | 288.70 DIOR |  | Diorite. Coparse equigranular; alteration bands $<1 \mathrm{~cm}$ wide. |  |  |  |  |  |  |  |  |  |
| 288.70 | 288.85 DIOR |  | Mineralized diorite? On the fractured surface lots of pyrite; no alteration; tormaline veins, 3 cm wide, discontinious, at 45tca. | J294398 | 288.7 | 288.85 | 0.15 | 0.041 | 0.20 | 132 | 0.13 | Core |
| 288.85 | 297.00 DIOR |  | Diorite. Generally uniform but with short sequences of alteration bands, quartz veins, tourmaline veins and foliation; most of the interval is coarse equigranular and slighly epidotized. | J294399 | 288.85 | 288.85 | 0.00 | 0.629 | 2.80 | 4550 | 4.55 | Core |
| 297.00 | 297.40 LAMP |  | Lamprophyric dyke. Fine to porphyritic texture; dark green-grayish color; sandy look but compact; sharp/britle contact at 60tca below and 70tca above with surronding diorite. |  |  |  |  |  |  |  |  |  |
| 297.40 | 298.70 DIOR |  | Diorite. Equigranular.;coarse. |  |  |  |  |  |  |  |  |  |
| 298.70 | 299.17 LAMP |  | Lamprophyric dyke. Same as 297.00-297.40; exchanging fine and porphyritic texture; sharp contacts at 40tca. |  |  |  |  |  |  |  |  |  |
| 299.17 | 299.43 SHR | DIOR | Mineralized sheared diorite. Quartz vein, 1 cm wide, paralel tca; runs through diorite and partally lamprophyre and carry pyrite in clusters; quartc follows shear surface. | J294178 | 299.17 | 299.43 | 0.26 | 0.921 | 17.50 | 6710 | 0.67 | Core |
| 299.43 | 299.85 LAMP |  | Lamprophyre dyke. Same as before. |  |  |  |  |  |  |  |  |  |
| 299.85 | 303.10 DIOR |  | Diorite. Slightly foliated paralel tca; bullock quartz. |  |  |  |  |  |  |  |  |  |
| 303.10 | 304.60 LAMP |  | Lamprophyre dyke. Same as above. |  |  |  |  |  |  |  |  |  |
| 304.60 | 308.15 DIOR |  | Diorite. Typical.Same as above. |  |  |  |  |  |  |  |  |  |
| 308.15 | 311.20 FOL | DIOR | Foliated diorite. Foliation subparalel tca or 40tca, |  |  |  |  |  |  |  |  |  |
| 311.20 | 311.50 ALT | DIOR | Altered and foliated diorite. Bleached and foliated paralel tca; not visible quartz veinlet in the middle; pyrite disseminated in low abundance. | J294179 | 311.2 | 311.5 | 0.30 | 0.026 | 2.50 | 920 | 0.09 | Core |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {Tith }}$ | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 311.50 | 316.10 LAMP |  | Lamprophyre/Volcanic?? Sharp contact at 45tca; pophyritc texture; dark groundmass and amigdoly texture, almost vesiculas? |  |  |  |  |  |  |  |  |  |
| 316.10 | 318.49 SHR | DIOR | Sheared diorite. Shear at 45tca; foliated; comact interval;changing foliation from subperpendicular tp 45tca. |  |  |  |  |  |  |  |  |  |
| 318.49 | 318.70 LAMP |  | Lamprophyre/Volcanic?? Same as 311.50-316.10; contact at 45tca. |  |  |  |  |  |  |  |  |  |
| 318.70 | 320.76 FOL | DIOR | Foliated diorite. Subparalel tca. |  |  |  |  |  |  |  |  |  |
| 320.76 | 324.22 LAMP |  | Lamprophyre/Volcanic?? Same as above; changing size of vesiculas?/amigdole? From fine grained to coarse grained as gradual change; chloritized; core fragmented in same size sequences; pyrite present in disseminated crystals. |  |  |  |  |  |  |  |  |  |
| 324.22 | 324.28 DIOR |  | Diorite. Intruded into lamprophyre/volcanics?? At 45 tca |  |  |  |  |  |  |  |  |  |
| 324.28 | 328.36 LAMP |  | Lamprophyre/Volcanics?? Same as above intervals at 320.76-324.22. |  |  |  |  |  |  |  |  |  |
| 328.36 | 332.00 SHR | DIOR | Sheared diorite. Fragmented; heavily sheared sub paralel tca and 45 tca; altered epidotized; quartz veins along shear. |  |  |  |  |  |  |  |  |  |
| 332.00 | 333.30 LAMP |  | Lamprophyre/Volcanics?? Same as above; contact with diorite sharp and perpendicular tca. |  |  |  |  |  |  |  |  |  |
| 333.30 | 345.62 DIOR |  | Diorite. Many short alteration bands perpendicular tca and $<4 \mathrm{~cm}$; numerous quartz veins and veinlets perpendicular tca to 45 tca; sheared in few short sequences. |  |  |  |  |  |  |  |  |  |
| 345.62 | 346.07 ALT | DIOR | Altered diorite.With 5 succesive alteration bands; bleached; disseminated pyrite; quartz veinlets not visible. | J294180 | 345.62 | 346.07 | 0.45 | 0.142 | 0.80 | 171 | 0.02 | Core |
| 346.07 | 348.22 DIOR |  | Diorite. Same as 333.30-345.62. |  |  |  |  |  |  |  |  |  |
| 348.22 | 348.44 ALT | DIOR | Altered diorite. Bleached; quartz veins perpendicular tca. | J294181 | 348.22 | 348.44 | 0.22 | 0.015 | 0.60 | 43 | 0.00 | Core |
| 348.44 | 348.82 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 348.82 | 349.10 QMV | ALT | Mineralized quartz vein and altered diorite. Quartz vein in the middle of altered zone perpendicular tca and 5 cm wide; clear white quartz with patches of sphalerite/pyrite/chalcopyrite. | J294182 | 348.82 | 349.1 | 0.28 | 0.244 | 2.40 | 361 | 0.04 | Core |
| 349.10 | 349.72 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 349.72 | 350.52 ALT | DIOR | Altered diorite. Above shoulder; slightly bleached; dispersive pyrite; not visisble quartz veins in alteration bands. | J294183 | 349.72 | 350.52 | 0.80 | 0.088 | 0.80 | 200 | 0.02 | Core |
| 350.52 | 350.64 QMV |  | Mineralized quartz vein; Perpendicular tca; white with diorite impurites; massive pyrite/chalco perpendicular on the vein contact concentrated mainly toward the upper part of the vein; contact with altered diorite sharp. | J294184 | 350.52 | 350.64 | 0.12 | 23.600 | 29.00 | 1680 | 0.17 | Core |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {Tith }}$ | M Lith | Lithology Notes | Sample | From | To | Interval | Aug/t | Ag PPM | Cu PPM | Cu\% | Type |
| 350.64 | 350.95 ALT | DIOR | Altered diorite; Below shoulder; bleached; disseminated pyrite. | J294185 | 350.64 | 350.95 | 0.31 | 0.151 | 0.90 | 181 | 0.02 | Core |
| 350.95 | 351.40 QMV | ALT | Altered diorite and mineralized quartz vein. Above and below shoulder of quartz vein in the middle of this interval; contact with quartz vein blurry, disspersive on the bottom and sharp at 45 tca above. | J294186 | 350.95 | 351.4 | 0.45 | 1.150 | 0.70 | 55 | 0.01 | Core |
| 351.40 | 352.18 DIOR |  | Diorite. Coarse equigranular; uniform; homogenious with several short alteration bands, quartz veins; no shear |  |  |  |  |  |  |  |  |  |
| 352.18 | 352.30 ALT | DIOR | Altered diorite. Typical with quartz in the middle and pyrite along the contact | J294187 | 352.18 | 352.3 | 0.12 | 3.700 | 2.70 | 1465 | 0.15 | Core |
| 352.30 | 357.30 DIOR |  | Diorite | J294188 | 352.3 | 352.3 | 0.00 | 0.005 | 0.10 | 7 | 0.00 | Blank |
| 357.30 | 357.48 QCV | DIOR | Quartz tourmaline vein. Mixture vein perpendicular tca; barren; contact marked by quartz vein above and dispersive below; short alteration band around contact. |  |  |  |  |  |  |  |  |  |
| 357.48 | 363.50 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 363.50 | 363.80 FOL | DIOR | Foliated diorite. |  |  |  |  |  |  |  |  |  |
| 363.80 | 368.78 DIOR |  | Diorite. Short alteration bands; short shear zones with sulphides along shear; bullock quartz with small cluster of pyrite; slightly foliated subparalel tca. |  |  |  |  |  |  |  |  |  |
| 368.78 | 369.70 FOL | DIOR | Foliated diorite. Foliation 45tca with quartz following shear or subparalel tca. |  |  |  |  |  |  |  |  |  |
| 369.70 | 372.35 DIOR |  | Diorite. Same as 363.80-368.78. |  |  |  |  |  |  |  |  |  |
| 372.35 | 372.85 ALT | DIOR | Altered diorite. With quartz veins at 45tca in the middle of the interval filled with pyrite; interval slightly bleached. | J294189 | 372.35 | 372.85 | 0.50 | 1.000 | 2.50 | 841 | 0.08 | Core |
| 372.85 | 373.22 DIOR |  | Diorite. Same as above. |  |  |  |  |  |  |  |  |  |
| 373.22 | 373.50 ALT | DIOR | Altered diorite. With 2 alteration bands perpendicular tca, 5 cm wide each. | J294190 | 373.22 | 373.5 | 0.28 | 0.257 | 0.70 | 122 | 0.01 | Core |
| 373.50 | 373.85 DIOR |  | Diorite. Same as above. |  |  |  |  |  |  |  |  |  |
| 373.85 | 374.10 ALT | DIOR | Altered diorite. With quartz in the middle at 80 tca. | J294191 | 373.85 | 374.1 | 0.25 | 0.583 | 0.50 | 78 | 0.01 | Core |
| 374.10 | 375.25 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 375.25 | 375.56 ALT | DIOR | Altered diorite. With 2 alteration bands, 1 cm wide each and perpendicular tca. | J294192 | 375.25 | 375.56 | 0.31 | 0.021 | 0.50 | 115 | 0.01 | Core |
| 375.56 | 378.50 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |



| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {To }}$ | M Lith | Lithology Notes | Sample | From | To | Interva\| | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 393.69 | 394.28 FOL | DIOR | Foliated diorite. Foliation at 40tca, uniform; compact interval;contact with above/below non foliated diorite sharp and sudden. |  |  |  |  |  |  |  |  |  |
| 394.28 | 397.42 DIOR |  | Diorite. On each 10-40 cm quartz vein <1cm wide and at 50tca. |  |  |  |  |  |  |  |  |  |
| 397.42 | 400.36 SIL | DIOR | Silicified diorite. White color, slightly bleached; slightly foliated; not uniform; quartz veins perpendicular and 45 tca ; clear, 1 cm wide quartz vein at 397.66 , perpendicular tca and barren |  |  |  |  |  |  |  |  |  |
| 400.36 | 404.35 DIOR |  | Diorite |  |  |  |  |  |  |  |  |  |
| 404.35 | 405.00 ALT | DIOR | Slightly altered diorite. No visible quartz vein; slightly foliated; barren. |  |  |  |  |  |  |  |  |  |
| 405.00 | 407.02 DIOR | DIOR | Diorite. Coarse equigranular; quartz veinlets at 70tca. |  |  |  |  |  |  |  |  |  |
| 407.02 | 407.63 ALT |  | Altered diorite. Above shoulder for the below QMV; Bleached, homogeniouly; clear quartz vein in the middle; contact gradual with above diorite; disseminated pyrite in low abundance. | J294198 | 407.02 | 407.63 | 0.61 | 0.615 | 2.60 | 846 | 0.08 | Core |
| 407.63 | 408.51 QMV |  | Mineralized quartz vein. White with diorite impurites; patches of pyrite; contact with altered diorite gradual; medium to high abundance of sulphide. | $\begin{aligned} & \hline \text { J294199 } \\ & \text { J294400 } \end{aligned}$ | $\begin{aligned} & \hline \hline 407.63 \\ & 407.63 \end{aligned}$ | $\begin{aligned} & 407.63 \\ & 408.51 \end{aligned}$ | $\begin{aligned} & \hline 0.00 \\ & 0.88 \end{aligned}$ | $\begin{aligned} & \hline 0.557 \\ & 9.610 \end{aligned}$ | $\begin{aligned} & \hline 2.90 \\ & 8.00 \end{aligned}$ | $\begin{array}{r} \hline 4610 \\ 411 \end{array}$ | $\begin{aligned} & \hline \hline 0.46 \\ & 0.41 \end{aligned}$ | Core Core |
| 408.51 | 408.85 ALT | DIOR | Altered diorite. Typical with quartz vein in the middle; this interval is below shoulder for the above QMV and also a new alteration sequence. | J294401 | 408.51 | 408.85 | 0.34 | 9.930 | 16.60 | 388 | 0.39 | Core |
| 408.85 | 409.00 QMV |  | Mineralized quartz vein. 2 QMV at 408.90, 4cm wide and perpendicular tca and at 409.00, $<1 \mathrm{~cm}$ wide and at 80 tca ; low pyrite abundance. | J294402 | 408.85 | 409 | 0.15 | 11.550 | 11.60 | 434 | 0.43 | Core |
| 409.00 | 409.23 ALT | DIOR | Altered diorite. Bleached; below shoulder for above QMv; dispersive pyrite; gradual contact below; neclece of pyrite at 409.13 at 85 tca. | J294403 | 409 | 409.23 | 0.23 | 0.667 | 0.80 | 214 | 0.21 | Core |
| 409.23 | 409.63 DIOR | Diorite. With unclear, $<0.5 \mathrm{~cm}$ and perpendicular tca alteration band; barren |  |  |  |  |  |  |  |  |  |  |
| 409.63 | 410.06 ALT | DIOR | Altered diorite. Slightly foliated; lamprophyre veins are at 50 tca; quartz veins bulky intersected with lamprophyritic hairy veinlets; each contact filled with pyrite; bleached diorite; low pyrite abindance. | J294404 | 409.63 | 410.06 | 0.43 | 0.179 | 1.10 | 441 | 0.44 | Core |
| 410.06 | 410.60 FOL | DIOR | Foliated diorite. The same alteration as above but not bleached. |  |  |  |  |  |  |  |  |  |
| 410.60 | 412.76 DIOR | Diorite. |  |  |  |  |  |  |  |  |  |  |
| 412.76 | 413.14 FOL | DIOR | Foliated diorite |  |  |  |  |  |  |  |  |  |
| 413.14 | 414.20 DIOR | LAMP | Diorite intersected with lamprophyre/quartz veinlets and bleached. Veinlets subparalel tca or 20tca, discontinious, interrupted, barren |  |  |  |  |  |  |  |  |  |
| 414.20 | 415.80 SIL | DIOR | Slightly silicified diorite; Intersected with dark lamprophyre vienlets at 80tca. |  |  |  |  |  |  |  |  |  |
| 415.80 | 417.30 FOL | DIOR | Foliated and silicified diorite. Foliation at 40tca; silicified in $10-20 \mathrm{~cm}$ patches along foliation. |  |  |  |  |  |  |  |  |  |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To Lith | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 417.30 | 417.91 SIL | DIOR | Silicified and altered diorite; Slightly bleached; discontinious quartz veins subparalel tca. |  |  |  |  |  |  |  |  |  |
| 417.91 | 422.75 DIOR |  | DIORITE. Coarse equigranular; more white than dark. |  |  |  |  |  |  |  |  |  |
| 422.75 | 423.00 ALT | DIOR | Altered diorite. At 425.80 alteration band perpendicular tca, 3 cm wide with pyrite disseminated; after that second alteration band, few mm wide, 70tca with pyrite along contact; low abundance. | J294405 | 422.75 | 423 | 0.25 | 0.371 | 3.10 | 3140 | 3.14 | Core |
| 423.00 | 424.55 DIOR |  | Diorite. Equigranular; only two quartz veinlets. |  |  |  |  |  |  |  |  |  |
| 424.55 | 425.04 ALT | DIOR | Altered diorite. Intensivly bleached, almost white color; contact with quartz vein sharp; several quartz veinlets dissolved in alteration zone; bottom part of the interval darker color and less bleached; dispersive pyrite in low abundance. | J294406 | 424.55 | 425.04 | 0.49 | 0.042 | 0.10 | 28 | 0.03 | Core |
| 425.04 | 425.64 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 425.64 | 425.98 SIL | DIOR | Altered and silicified diorite. Also epidotized; very rare pyrite; intensivly bleached with interstitial epidotizetion | J294407 | 425.64 | 425.98 | 0.34 | 0.002 | 0.20 | 41 | 0.04 | Core |
| 425.98 | 426.17 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 426.17 | 426.26 SIL | DIOR | Silicified/altered/epidotized diorite. Same as at 428.64-428.98; very rare pyrite. | J294408 | 426.17 | 426.26 | 0.09 | 0.002 | 0.20 | 28 | 0.03 | Core |
| 426.26 | 426.65 DIOR |  | Diorite |  |  |  |  |  |  |  |  |  |
| 426.65 | 426.80 ALT | DIOR | Altered diorite. Typical with quartz vein in the middle. | J294409 | 426.65 | 426.8 | 0.15 | 0.014 | 0.10 | 8 | 0.01 | Core |
| 426.80 | 429.20 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 429.20 | 429.40 SIL | DIOR | Silicified/altered/epidotized diorite. Same as 428.64-428.98 and 429.17-429.26; no pyrite. |  |  |  |  |  |  |  |  |  |
| 429.40 | 431.00 DIOR |  | Diorite. Intersected with quartz veins at 80tca at the bottom of the interval; similar interval as at 432.20-432.40. |  |  |  |  |  |  |  |  |  |
| 431.00 | 431.44 SIL | DIOR | Silicified/altered/epidotized diorite. Same as above. |  |  |  |  |  |  |  |  |  |
| 431.44 | 431.82 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 431.82 | 432.11 QMV |  | Mineralized quartz vein. Subparalel tca; wavy; ribbony; 1 cm wide; some mineralization inside and along contacta; weak alteration zone around. | J294410 | 431.82 | 432.11 | 0.29 | 2.490 | 0.10 | 71 | 0.07 | Core |
| 432.11 | 435.81 DIOR |  | Diorite. | J294411 | 432.11 | 432.11 | 0.00 | 1.530 | 4.80 | 9990 | 1.00 | CM2 |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {Tith }}$ | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 435.81 | 436.80 EALT DIOR Epidotized and foliated diorite; Epidote in patches, irregular, darker color; influence of lamprophyre; foliation at 45tca followed by epidote and lamprophyre. |  |  |  |  |  |  |  |  |  |  |  |
| 436.80 | 440.95 DIOR |  | Diorite; foliated in sequences; equigranular in sequences; quartyz veins 30-30tca. |  |  |  |  |  |  |  |  |  |
| 440.95 | 441.05 ALT | DIOR | Altered diorite.Typical with quartz vein in the middle. | J294412 | 440.95 | 441.05 | 0.10 | 0.033 | 0.10 | 35 | 0.04 | Core |
| 441.05 | 443.35 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 443.35 | 443.50 ALT | DIOR | Altered diorite. Typical with quartz vein in the middle. | J294413 | 443.35 | 443.5 | 0.15 | 0.105 | 0.40 | 189 | 0.19 | Core |
| 443.50 | 443.73 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 443.73 | 444.30 SHR | DIOR | Mineralized sheared diorite. Shear at 80tca, folliated by quartz, lamprophyre, ortoclas and pyrite/chalco. | J294414 | 443.73 | 444.3 | 0.57 | 0.185 | 6.40 | 7160 | 7.16 | Core |
| 444.30 | 447.20 DIOR |  | Diorite. With silicification and epidot patches 10 cm wide. |  |  |  |  |  |  |  |  |  |
| 447.20 | 447.32 ALT | DIOR | Altered diorite. Typical with quartz vein in the middle. | J294415 | 447.2 | 447.32 | 0.12 | 0.135 | 0.80 | 171 | 0.17 | Core |
| 447.32 | 451.57 DIOR |  | Diorite. With freequent alteration bands silicifized $<10 \mathrm{~cm}$ wide at $451.55,451.79$ and 452.00 ; low pyrite abundans. |  |  |  |  |  |  |  |  |  |
| 451.57 | 452.11 ALT | DIOR | Altered diorite. At 454.72 first quartz veinlet perpendicular tca and 1 cm wide; at 455.00 second quartz veinlet 45 tca and $0,5 \mathrm{~cm}$ wide. | J294416 | 451.57 | 452.11 | 0.54 | 0.208 | 0.30 | 35 | 0.04 | Core |
| 452.11 | 452.70 DIOR |  | Diorite. With several alteration bands, $<1 \mathrm{~cm}$ wide. |  |  |  |  |  |  |  |  |  |
| 452.70 | 453.09 ALT | DIOR | Altered diorite. At 455.80 quartz vein subperpendicular and full iof pyrite/chalco along contact; bleached zone below tha quartz vein but very few disseminated pyrite . | J294417 | 452.7 | 453.09 | 0.39 | 0.024 | 0.10 | 40 | 0.04 | Core |
| 453.09 | 458.02 DIOR |  | Diorite. Several quartz veins at 70 tca but not alteration zones or pyrite; barren |  |  |  |  |  |  |  |  |  |
| 458.02 | 458.50 ALT | DIOR | Altered diorite. Bleached; at 461.40 broken core at 45 tca; pyrite sparkled but mostly around 461.40 | J294418 | 458.25 | 458.5 | 0.25 | 0.445 | 0.50 | 112 | 0.01 | Core |
| 458.50 | 458.94 SHR | DIOR | Sheared diorite. Lamprophyre material along shear; shear at 45tca; slightly bleached. |  |  |  |  |  |  |  |  |  |
| 458.94 | 462.97 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 462.97 | 463.24 ALT | DIOR | Altered diorite. With 2 small alteration bands perpendicular tca. | J294419 | 462.97 | 463.24 | 0.27 | 0.020 | 0.10 | 941 | 0.09 | Core |
| 463.24 | 463.88 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 463.88 | 464.27 ALT | DIOR | Altered diorite. Bleached intensivly; with quartz/lamprophyre veinlets in the middle. | J294420 | 463.88 | 464.27 | 0.39 | 0.878 | 4.90 | 1415 | 0.14 | Core |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {To }}$ Lith | M Lith | Lithology Notes | Sample | From | To | Interva\| | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 464.27 | 464.60 ALT | DIOR | Altered diorite. Consists of 2 short alteration bands perpendicular tca. | J294421 | 464.27 | 464.6 | 0.33 | 0.079 | 1.00 | 506 | 0.05 | Core |
| 464.60 | 465.63 DIOR |  | Diorite. | J294422 | 464.6 | 464.6 | 0.00 | 0.438 | 1.30 | 5920 | 0.59 | CM3 |
| 465.63 | 466.04 ALT | DIOR | Altered diorite. Gradually toward the center of interval more bleached but no visible quartz veinlets in the middle. | J294423 | 465.63 | 466.04 | 0.41 | 0.080 | 0.70 | 62 | 0.01 | Core |
| 466.04 | 469.34 DIOR |  | Diorite. With several short alteration bands; coarse; slightly bleached and epidotized. |  |  |  |  |  |  |  |  |  |
| 469.34 | 470.11 ALT | DIOR | Altered diorite. At 472.34-472.73 intensivly bleached almost white with disseminated pyrite; from 472.73-473.11 there are 3 short alteration bands perpendicular tca and $5 \mathrm{~cm}, 2 \mathrm{~cm}$ and 1 cm wide; low abundance of disseminated pyrite. | J294424 | 469.34 | 470.11 | 0.77 | 0.056 | 0.50 | 30 | 0.00 | Core |
| 470.11 | 472.00 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 472.00 | 473.25 ALT | DIOR | Altered diorite. More tha 10 short alteration bands one after the other; they are $0 .-8 \mathrm{~cm}$ wide and all perpendicular tca; looks as overlaping alteration interval. | J294425 | 472 | 473.25 | 1.25 | 0.165 | 1.40 | 770 | 0.08 | Core |
| 473.25 | 475.66 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 475.66 | 475.99 FOL | DIOR | Foliated diorite. Foliation at 80tca followed by lamprophyre and quartz. |  |  |  |  |  |  |  |  |  |
| 475.99 | 479.29 DIOR |  | Diorite. Intersected with white, clean quartz veins, $<1 \mathrm{~cm}$ wide, sub paralel tca that have no alteration zones neither pyrite; diorite slightly foliated; few short alteration bands. |  |  |  |  |  |  |  |  |  |
| 479.29 | 479.50 ALT | DIOR | Altered diorite. Typical bleached more toward the center but no visible quartz vein in the middle; disseminated pyrite in low abundance. | J294426 | 479.29 | 479.5 | 0.21 | 0.297 | 0.60 | 72 | 0.01 | Core |
| 479.50 | 482.20 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 482.20 | 482.97 ALT | DIOR | Altyered diorite. At $485.59,0.5 \mathrm{~cm}$ wide quartz vein perpendicular tca with pyrite. | J294427 | 482.2 | 482.97 | 0.77 | 0.507 | 0.70 | 109 | 0.01 | Core |
| 482.97 | 483.28 DIOR |  | Diorite. |  |  |  |  |  |  |  |  |  |
| 483.28 | 483.42 ALT | DIOR | Altered diorite. Typical; at 486.34 quartz vein1cm wide and perpendicular tca with pyrite along contact; photo taken! | J294428 | 483.28 | 483.42 | 0.14 | 0.138 | 1.00 | 223 | 0.02 | Core |
| 483.42 | 483.74 DIOR |  | Diorite |  |  |  |  |  |  |  |  |  |
| 483.74 | 483.87 ALT | DIOR | Altered diorite. Typical with quartz vein in the middle and pyrite. | J294429 | 483.74 | 483.84 | 0.10 | 0.025 | 0.70 | 148 | 0.01 | Core |
| 483.87 | 484.00 DIOR |  | Diorite. With clean quartz veins with no alterations or pyrite. |  |  |  |  |  |  |  |  |  |
| 484.00 | 484.07 ALT | DIOR | Altered diorite. With garnet lamprophire veinlets <2cm in the middle. | J294430 | 484 | 484.07 | 0.07 | 0.137 | 0.70 | 194 | 0.02 | Core |



| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {Tith }}$ | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 504.52 | 505.30 ALT | DIOR | Altered diorite. Bleached in sequences; consists of alteration zones at 507.52-507.60 with not visible quartz; at 507.90-508.24 sheared and bleached diorite with quartz veins sub perpendicular tca; fragmentation along shear. | J294441 | 504.52 | 505.3 | 0.78 | 0.369 | 0.80 | 129 | 0.01 | Core |
| 505.30 | 505.83 EALT | DIOR | Epidotized diorite. Interstitial space is pistacio green suggesting intensive epidotization. |  |  |  |  |  |  |  |  |  |
| 505.83 | 506.70 ALT | DIOR | Altered diorite.At 509.92 quartz vein perpendicular tca, 3 cm wide; at $509.21-509.70$ sheared and bleached diorite with disseminated pyrite. | J294442 | 505.83 | 506.7 | 0.87 | 0.110 | 0.80 | 106 | 0.01 | Core |
| 506.70 | 509.75 FOL | DIOR | Foliated diorite. Foliation 45tca, uniform; at 507.20-507.37 quartz vein at 45 tca following foliation |  |  |  |  |  |  |  |  |  |
| 509.75 | 521.80 EALT | DIOR | Epidotized diorite. Interstitial spece completely replaced by epidote; coarse equigranular texture;intersected with $<0.5 \mathrm{~cm}$ quartz veinlets mainly perpendicular tca but also 45tca. |  |  |  |  |  |  |  |  |  |
| 521.80 | 525.53 FOL | DIOR | Foliated diorite. Foliation at 45tca; uniform. |  |  |  |  |  |  |  |  |  |
| 525.53 | 531.27 EALT | DIOR | Epidotized diorite. Same as previous interval of epidotized diorite. |  |  |  |  |  |  |  |  |  |
| 531.27 | 531.49 ALT | DIOR | Altered diorite. With quartz vein at 534.39 at 80 tca, 2 cm wide,; short bleached intervals around; low pyrite abundance. | J294443 | 531.27 | 531.49 | 0.22 | 0.031 | 0.70 | 312 | 0.03 | Core |
| 531.49 | 536.50 EALT | DIOR | Epidotized diorite. Coarse equigranular texture with completely epidotized interstitial space; quartz vein subperpendicular or 45 tca; core broken every $10-40 \mathrm{~cm}$ at 90 tca or 45 tca ; slight shear present | J294444 | 531.49 | 531.49 | 0.00 | 0.011 | 0.20 | 11 | 0.00 | Blank |
| 536.50 | 539.54 DIOR | EALT | Diorite. Epidotized. Coarse, equigranular; sporadically quartz veins perpendiculat tca or 80tca; interstitial space light green due to epidotization; few bands of epidote perpendicular tca and curvy. |  |  |  |  |  |  |  |  |  |
| 539.54 | 541.40 SHR | DIOR | Sheared diorite. Shear at 50tca; starts slowly and fradually and intensify toward the middle of the interval; at the bottom bulky quartz and quartz bands perpendicular tca; all quartz barren on sulphide. |  |  |  |  |  |  |  |  |  |
| 541.40 | 544.14 EALT | DIOR | Epidotized diorite. Equigranular, coarse with epidotized interstitial space; frequent barren and irregular quartz/calcite veins, 1 cm wide, and $30-50 \mathrm{tca}$. | J294447 | 541.63 | 541.8 | 0.17 | 0.017 | 1.20 | 913 | 0.09 | Core |
| 544.14 | 546.63 SHR | DIOR | Sheared diorite. Shear 30tca; compact core; slightly foliated. |  |  |  |  |  |  |  |  |  |
| 546.63 | 546.80 QMV | SHR | Mineralized sheared quartz vein. Contact at 50tca; contact irregular and discontinious and 5 cm wide vein with sharp contact with diorite and absence of alteration zone; patches of pyrite/chalcopyrite/arsenopyrite? |  |  |  |  |  |  |  |  |  |
| 546.80 | 552.31 DIOR |  | Diorite. Uneven texture; coarse and fine grained are exchanging in short intervals; quartz veins, $<1 \mathrm{~cm}$ wide, paralel or 50 or perpendicular tca; epidotized interstitial space but only in some partz. |  |  |  |  |  |  |  |  |  |
| 552.31 | 553.60 SHR | DIOR | Sheared diorite. Shear 20tca followed by lens-shaped quartz and dispersive purite; contact between sheared and non-sheared diorite very sharp. |  |  |  |  |  |  |  |  |  |



| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To Lith | M Lith | Lithology Notes | Sample | From | To | Interval | Aug/t | Ag PPM | Cu PPM | Cu\% | Type |
| 585.60 | 588.40 DIOR | SHR | Slightly sheared diorite. Short altered bands, 1 cm wide, above are perpendicular tca and shear 40 tca; at 590.37 bulky quartz vein paralel tca irregular and barren. |  |  |  |  |  |  |  |  |  |
| 588.40 | 588.49 QMV |  | Mineralized quartz vein. 2cm wide and perpendicular tca; no alteration zone; low pyrite dispersed along contact; contact sharp. | J294453 | 588.4 | 588.49 | 0.09 | 0.018 | 0.60 | 303 | 0.03 | Core |
| 588.49 | 591.16 DIOR | LAMP | Diorite. Intersected with tuffistic (volcanic?) and lamprophyric veinlets, 1 cm wide perpendicular tca and 50tca with epidote patches on contact between these dikes and surronding diorite. |  |  |  |  |  |  |  |  |  |
| 591.16 | 591.50 ALT | DIOR | Altered diorite. With 3 altered bands, 2-4cm wide and perpendicular tca: typical; low abundance of dispersed pyrite. | J294454 | 591.16 | 591.5 | 0.34 | 0.095 | 1.40 | 485 | 0.05 | Core |
| 591.50 | 596.31 DIOR |  | Diorite. Coarse, uniform, epidotized in interstitial space. | J294455 | 591.5 | 591.5 | 0.00 | 1.440 | 5.30 | 9890 | 0.99 | CM2 |
| 596.31 | 597.35 DIOR | ALT | Sheared and altered diorite. Maybe above shoulder for the below sequence; shear 10tca with few short alteratin bands. |  |  |  |  |  |  |  |  |  |
| 597.35 | 597.76 ALT | DIOR | Altered diorite. Bleached; probably few altered bands but not visible quartz; pyrite dispersed throughout in low abundance. | J294456 | 597.35 | 597.76 | 0.41 | 0.010 | 0.50 | 177 | 0.02 | Core |
| 597.76 | 600.50 DIOR |  | Diorite. Few barren quartz veins, <1cm wide and perpendicular tca; few, 1 cm wide alteration bands. |  |  |  |  |  |  |  |  |  |
| 600.50 | 603.55 SHR | DIOR | Sheared diorite. Shear at 30tca; coarse foliated diorite. |  |  |  |  |  |  |  |  |  |
| 603.55 | 603.95 DIOR | EALT | Diorite epidotized. Coarse grained; frequently intersected with thiny quartz veinlets at 70tca or perpendicular tca. |  |  |  |  |  |  |  |  |  |
| 603.95 | 606.08 ALT | DIOR | Altered diorite. Bleached; disseminated pyrite in low abundance. | J294457 | 605.95 | 606.08 | 0.13 | 0.020 | 0.70 | 68 | 0.01 | Core |
| 606.08 | 612.86 DIOR | EALT | Diorite epidotized. Few short, <2cm, and perpendicular tca altered bands with quartz veinlets; quartz veins sporadicaly; epidote bands sporadicaly; barren bulky quartz at 615.70. |  |  |  |  |  |  |  |  |  |
| 612.86 | 612.93 ALT | DIOR | Altered diorite. Typical alteration band with quartz veinlet in the middle; low amount disseminated pyrite. | J294458 | 612.86 | 612.93 | 0.07 | 0.087 | 0.60 | 35 | 0.00 | Core |
| 612.93 | 616.71 DIOR |  | Diorite. Equigranular, coarse, uniform. |  |  |  |  |  |  |  |  |  |
| 616.71 | 617.02 ALT | SHR | Mineralized altered and sheared diorite. Shear at 20tca followed by disseminated pyrite; at the bottom of this interval 12 cm wide typical altered band perpendicular tca, bleached with diffusive quartz veinlets in the middle and disseminated pyrite. | J294459 | 616.71 | 617.02 | 0.31 | 0.252 | 0.70 | 121 | 0.01 | Core |
| 617.02 | 619.63 DIOR | FOL | Diorite. Slightly sheared paralel tca or 10-20tca; folliated |  |  |  |  |  |  |  |  |  |
| 619.63 | 620.22 ALT | SHR | Mineralized altered and sheared diorite. Same as 619.71-620.02; starts with shear 20tca with pyrite; at 623.12 qyartz vein perpendicular tca and altered zone with disseminated pyrite in low abundance. | J294460 | 619.63 | 620.22 | 0.59 | 0.080 | 0.60 | 195 | 0.02 | Core |
| 620.22 | 622.12 DIOR |  | Diorite. Slightly sheared 30tca; short altered bands; inconsistent texture: coarse and fine |  |  |  |  |  |  |  |  |  |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {T }}$ Lith | M Lith | Lithology Notes | Sample | From | To | Interva\| | Aug/t | Ag PPM | Cu PPM | Cu\% | Type |
| grained. |  |  |  |  |  |  |  |  |  |  |  |  |
| 622.12 | 623.35 ALT | DIOR | Altered diorite. Slightly bleached and slightly foliated at 30tca; several quartz bands perpendicular tca; pyrite disseminated along folliation; similar to 619.71-620.02 or above shoulder for the below sequence? | J294461 | 622.12 | 623.35 | 1.23 | 0.247 | 0.80 | 129 | 0.01 | Core |
| 623.35 | 624.84 QMV | SHR | Mineralized sheared diorite with quartz vein. Quartz vein lens-shapped follow shear at 20tca and carry pyrite; along the whole interval disseminated pyrite in low abundance. | J294462 | 623.35 | 624.84 | 1.49 | 0.121 | 4.30 | 4020 | 0.40 | Core |
| 624.84 | 625.84 SHR | DIOR | Mineralized sheared diorite. Shear 40tca; slightly bleached diorite; disseminated pyrite in low abundance; maybe below shoulder for the above sequence? | J294463 | 624.84 | 625.84 | 1.00 | 0.023 | 1.00 | 1260 | 0.13 | Core |
| 625.84 | 627.25 DIOR |  | Diorite. Slightly sheared; equigranular and coarse and fine grained; more fine grained toward the bottom. |  |  |  |  |  |  |  |  |  |
| 627.25 | 627.70 SHR | DIOR | Sheared coarse grained diorite. Shear 40tca; coarse, lens-shaped plagioclase; contact with above fine grained diorite sharp; along interval fine quartz/calcite veins paralel tca; core fractured at the bottom. |  |  |  |  |  |  |  |  |  |
| 627.70 | 629.23 DIOR | POR | Super coarse grained diorite. Almost pegmatitic texture. Slightly sheared paralel tca and foliated; chilled margin?? |  |  |  |  |  |  |  |  |  |
| 629.23 | 630.21 QV | DIOR | Sheared quartz veins in fine grained diorite. Quartz veins, $2-4 \mathrm{~cm}$ wide and perpendicular tca, barren, in fine grained dark colored epidotized diorite/laprophyre mixture; discontinious, convoluted veinlets; this interval looks as mixture of melted country rocks (xenoliths0 in the dioritic melt - chilled margins xenoliths. |  |  |  |  |  |  |  |  |  |
| 630.21 | 630.80 DIOR |  | Contact of fine grained and super coarse diorite. Possible mixture with volcanics? Again chilled margins with xenoliths melted in the dioritic magma; fine and coarse grained diorite exchange with sharp contacts (xenoliths); some quartz veinlets perpendicular tca. |  |  |  |  |  |  |  |  |  |
| 630.80 | 631.41 DIOR | POR | Super coarse grained diorite. Probably mixed with lamprophyre and/or other textural variation of diorite. |  |  |  |  |  |  |  |  |  |
| 631.41 | 633.47 DIOR |  | Contact of fine grained and super coarse diorite. Similar to 633.21-633.80, chilled margins?contact sharp and sudden. |  |  |  |  |  |  |  |  |  |
| 633.47 | 633.68 DIOR | POR | Super coarse grained diorite. Uniform, equigranular but almost pegmatitic texture, slow crystalization due to volatiles or depth of intrusion?possible tourmaline crystals? |  |  |  |  |  |  |  |  |  |
| 633.68 | 634.58 DIOR |  | Fine grained diorite. Quartz veilets 50tca, 1cm wide, barren; finr equigranular texture of diorite; dark green color. |  |  |  |  |  |  |  |  |  |
| 634.58 | 636.20 DIOR | POR | Super coarse grained diorite. Same as 636.47-636.68. |  |  |  |  |  |  |  |  |  |
| 636.20 | 637.60 DIOR | SHR | Sheared coarse/fine grained diorite; Shear 30tca; above mostly fine grained diorite then fine/coarse mixed and discontinious; at the bottom super coarse and uniform diorite. |  |  |  |  |  |  |  |  |  |
| 637.60 | 638.48 DIOR | POR | Super coarse grained diorite. Same as 636.47-636.68. |  |  |  |  |  |  |  |  |  |
| 638.48 | 639.20 DIOR |  | Mixture of fine and coarse grained diorite. Intersected with thiny quartz veinlets mainly perpendicular tca; contacts quartz and diorite sharo. |  |  |  |  |  |  |  |  |  |



LITH_MINZ_ASSAY DRILL LOG

| HOLE ID | AZIMUTH | DIP | LENGTH | COORDINATES |  | SHORTLOG | LOG COMPLETE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| KE10-19 | 244 | -58 | 619.36 | EASTINGS: | 472372 | MK | 19/12/2010 |
|  | Drilling |  |  | NORTHINGS: | 5479250 | DETAILLOG | DATUM |
| AREA | Started: | 15/12/2010 | CORE SIZE | SECTION |  | MK | Nad83 Zone 11 |
| Kenville SE | Finished: | 19/12/2010 | NQ | 5479250 |  |  | SAMPLER |

HOLE ID KE10-19

| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To ${ }^{\text {Tith }}$ | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 9.90 | 97.66 OB GRA |  | Overburden. Crumbles of core, muddy from 9.90-43.70 with sparce fragments of granite; from 43.-97.66 more grantite core, up to30cm long. |  |  |  |  |  |  |  |  |  |
| 97.66 | 104.23 DIOR | LAMP | Diorite with lamprophyre dyke. Equigranular and interstitial texture, homogenous appearence through the whole interval; from 97.66-97.76 laprophyre dyke with fine (non porpyritic) texture; contact between diorite and this lamprophyre dyke unclear but visible fracture at 50 tca |  |  |  |  |  |  |  |  |  |
| 104.23 | 106.46 SHR | DIOR | Sheared diorite. Sporadic, few mm wide quartz/carbonate veinlets $50-60 \mathrm{tca}$; after 0.34 m the shearing gradually increase. From 104.92-105.42 more intensive shearing 30-40tca with porosity along the shearing plates. The similar strong shear zone appear again from 105.56106.46 with subparalel tca and more porosity along the shear plates; |  |  |  |  |  |  |  |  |  |
| 106.46 | 107.58 ALT | DIOR | Altered diorite (bleached). Not clear how previous shear zone stops and interstitial diorite appear at 106.71; shear, subparalel tca from 106.80-107.50; bleached diorite with gradual increase of white minerals. At 107.10 quartz/calcite veinlet, $10-20 \mathrm{~cm}$ wide and 50 tca with no mineralization | J294079 | 106.46 | 107.58 | 1.12 | 0.036 | 0.40 | 47 | 0.00 | Core |
| 107.58 | 107.68 QMV | QCFV | Mineralized quartz/carbonate vein. Contact with surronding diorite is sharp with pyrite along the contact plane; contact at 60 tca, vein is ribbony, brecciated with one $2 \times 2 \mathrm{~cm}$ chunk of pyrite and oxidized fracture plane; minerals present aremostly pyrite, few chacopyrite andfew galena; minerals are irregulary distributed, mixed with hornblende and quartz, often halo of hornblende (reaction rim?) around mineralized clusters; vein has low mineralization. | J294080 | 107.58 | 107.68 | 0.10 | 1.510 | 22.50 | 5390 | 0.54 | Core |
| 107.68 | 108.20 ALT | DIOR | Altered diorite (bleached). Conract with above quartz vein is sharp but curved and perpendicular tca with pyrite along the contact plane; altered diorite has chlorite, sericite, hematite suggesting slight oxidation | J294081 | 107.68 | 108.2 | 0.52 | 0.002 | 0.70 | 154 | 0.02 | Core |
| 108.20 | 113.65 SHR | DIOR | Sheared diorite. Similar to previous shear interval at 104.23-106-46. Sequences of strong, subparallel foliation together with $1-4 \mathrm{~cm}$ wide quartz/calcite veinlets at 108.86-109.42, 110.52110.79 and 111.86-112.67. Quartz/calcite veinlets are wavy, ribbony or patchy and surronded with thin films of sericite/chlorite, but no mineralization. In between these shear intervalsare equigranular and interstitial diorites |  |  |  |  |  |  |  |  |  |
| 113.65 | 114.00 LAMP |  | Lamprophyre. Fine matrix supported with orienteted, subparallel tca phlogopite; oxidazed and unoxidized contact, looks like volcanic flow? |  |  |  |  |  |  |  |  |  |
| 114.00 | 122.83 SHR | DIOR | Sheared diorite.Similar to previously described shear intervals at 104.23-106.46 and 108.20113.65; dark minerals (biotite, hornblende) are lineated parallel or subparalel tca; at the begining of this interval tiny quartz/quartzite veinlets, 1 cm wide with 60 tca ; later in this interval, |  |  |  |  |  |  |  |  |  |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To ${ }^{\text {T }}$ | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
|  |  |  | quartz/calcite veinlets, less than 1 cm wide start appearing perpendicular tca at 118.70, 120.00 and 122.10 |  |  |  |  |  |  |  |  |  |
| 122.83 | 123.13 ALT | DIOR | Altered diorite (bleached). Silicified, chloritized, slightly magnetic with disseminated pyrite and magnetite crystals start appearing at 123.05; the amount of pyrite gradually increase toward contact with quartz vein; the amount of magnetite gradually decrease toward the contact with quartz vein. | J294082 | 122.83 | 123.13 | 0.30 | 0.044 | 0.60 | 35 | 0.00 | Core |
| 123.13 | 123.24 QMV |  | Mineralized quartz vein. Sharp, perpendicular contact with altered diorite; undulatory quartz with patches of mineralization; minerals present are mainly pyrite, less sphalerite, minor chalcopyrite and galena; hairy sulphides parallel tca and discontinious;vein has medium mineralization. | J294083 | 123.13 | 123.24 | 0.11 | 3.720 | 18.80 | 4490 | 0.45 | Core |
| 123.24 | 124.18 ALT | DIOR | Altered diorite(bleached). Silicified, chloritized, slightly magnetic with disseminated pyrite up to 123.66 and after that no pyrite present; at 123.44 quartz veinlet, 1 cm wide perpendicular tca; graduate transition toward darker and slightly sheared diorite; shearing is wavy and irregular, turbulent. | J294084 | 123.24 | 123.76 | 0.52 | 0.244 | 1.30 | 49 | 0.00 | Core |
| 124.18 | 129.34 DIOR |  | Diorite. Uniform interval with equigranular and interstitial texture, waek lineation of black minerals; sporadically small pistacio greeen, surficial patches (secondary epidote?) |  |  |  |  |  |  |  |  |  |
| 129.34 | 132.16 SHR | DIOR | Sheared diorite. Similar to above intervals of shear diorite; mineral lineation 60 tca; fractures along the core; parts with convolutions and hairy veinlets of chlorite and quartz. | J294085 | 132 | 132.26 | 0.26 | 0.423 | 1.10 | 262 | 0.03 | Core |
| 132.16 | 132.26 ALT | DIOR | Altered diorite (bleached). Above sheared diorite abruprtly transfer into bleached sheared diorite; disseminated pyrite and magnetite gradually increasetoward contact with quartz vein; slightly magnetic |  |  |  |  |  |  |  |  |  |
| 132.26 | 132.50 QMV | BZ | Mineralized quartz vein completely broken. Sparcely mineralized with only pyrite visible; sharp contact, irregular and 70-80 tca, with above and below altered diorite; undulatory quartz with some chlorite; pyrite appears as disseminated and in patches; this quartz vein is completely broken in small fragments $2-6 \mathrm{~cm}$ long. | J294086 | 132.26 | 132.5 | 0.24 | 1.470 | 2.60 | 626 | 0.06 | Core |
| 132.50 | 133.00 ALT | DIOR | Altered diorite (bleached) .From 132.50-132.60 disseminated pyrite but rare; subparallel foliation; silicified with some calcite; gradational transition to diorite. | J294087 | 132.5 | 133 | 0.50 | 0.016 | 1.20 | 237 | 0.02 | Core |
| 133.00 | 144.54 DIOR | EALT | Diorite. Slightly sheared with frequent, irregular patches, up to $5 \times 6 \mathrm{~cm}$ of pistacio green mineral (epidote?); furter in this interval small dyke, 1 cm wide and 40-50tca; sporadic quartz veinlets, 3 cm wide, 45 tca and with sharp contacts; few faults perpendicular and 45 tca | J294088 | 133 | 133 | 0.00 | 0.553 | 1.20 | 5740 | 0.57 | CM3 |
| 144.54 | 145.02 LAMP | ALT | Lamprophyre. Intensively altered with phlogopite and disseminated pyrite. Pyrite appears in hairy, wavy lines perpendicular tca. | J294089 | 144.54 | 145.02 | 0.48 | 0.148 | 0.70 | 122 | 0.01 | Core |
| 145.02 | 158.13 DIOR | LAMP | Diorite. Slightly altered and sheared with lamprophyric dyke. Alteration sequances are thin, band shape, $2-6 \mathrm{~cm}$ wide, perpendicular on tca, visible at 145.54, 147.52 and 150.58 ; disseminated or hairy lined pyrite are associated with these alted sequences. Sheared zones are subparallel on tca, $20-30 \mathrm{~cm}$ wide, visible at 149.35 and 153.65 ; some disseminated pyrite is present on the shear planes. Epidote patches present; quartz veinlets are wavy and parallel tca. Lamprophyre dyke at 49.00 and 45 tca with sharp but wavy contact with surronding diorite. |  |  |  |  |  |  |  |  |  |
| 158.13 | 159.23 SHR | LAMP | Sheared and altered lamprophyre/diorite. Looks as intensively sheared mixture of diorite and lamprophyre with foliation 45 tca and strongly magnetic; minerals present: biotite, phlogopite, | J294090 | 158.92 | 159.23 | 0.31 | 0.520 | 1.40 | 329 | 0.03 | Core |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {To }}$ Lith | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
|  |  |  | feldspate?; looks as lamprophyre dykes intrusions into diorite; from 159.00-159.17 altered lamprophyre with quartz vein 15 tca with pyrite along the contact; at 159.23 sharp contact with diorite below marked by quartz infilling perpendiculat tca |  |  |  |  |  |  |  |  |  |
| 159.23 | 161.19 DIOR |  | Diorite. Equigranular, fine grained, slightly bleached, no mineralization |  |  |  |  |  |  |  |  |  |
| 161.19 | 162.08 ALT | LAMP | Altered lamprophyre. It could be a mixture of lamprophyre and diorite; intensively altered, bleached with phlogopite lineated parallel to tca; white minerals (plagioclas/ortoclas?) have granular appearence; minor amounts of disseminated pyrite all over this area. | J294091 | 161.44 | 162.08 | 0.64 | 0.078 | 1.30 | 133 | 0.01 | Core |
| 162.08 | 162.71 DIOR |  | Diorite. Same as interval of diorite at 159.23-161.19 |  |  |  |  |  |  |  |  |  |
| 162.71 | 163.02 ALT | DIOR | Altered diorite. With 2-3 quartz veins up to 1 cm wide and perpendicular tca; bleached diorite; disseminated pyrite; gradual transition to below diorite. | J294092 | 162.71 | 163.02 | 0.31 | 2.860 | 4.20 | 83 | 0.01 | Core |
| 163.02 | 183.71 DIOR | SHR | Diorite. With short intervals, $<20 \mathrm{~cm}$, of shear and alteration and sporadicaly epidote patches; very weak pyrite mineralization in altered or shear intervals ; at 171.07-171.27 shearinterval with bornite? and pyrite along shear plane; shear planes are subparalel tca. | J294093 | 171.07 | 171.27 | 0.20 | 0.056 | 1.00 | 369 | 0.04 | Core |
| 183.71 | 183.92 ALT | DIOR | Altered diorite. Bleached with 0.5 cm wide quartz vein 80 tca; disseminated and hairy lined pyrite along vein and parallel with vein contact; interval starts with disseminated magnetite which slowly dissapear while disseminated pyrite increasing toward the quartz vein. | J294094 | 183.71 | 183.92 | 0.21 | 0.174 | 1.10 | 377 | 0.04 | Core |
| 183.92 | 191.22 DIOR | LAMP | Diorite with lamprophyre dykes. Equigranular and interstitial texture; lamprophyre dykes, 0.5 cm wide, intruded subpralel tca at 185.21 and 185.64 as $14-16 \mathrm{~cm}$ long dykes; barren bull quartz as well as veiny quartz, $0.5-2.0 \mathrm{~cm}$ wide, perpendicular tca or 45 tca ; few patches of epidote. |  |  |  |  |  |  |  |  |  |
| 191.22 | 192.52 ALT | DIOR | Altered diorite. Bleached with grayish convoluted calcite? veins; thiny lamprophyric dyke, 0.5 cm wide, irregular, wavy, hairy, paralel tca and highly magnetic; it seems that this interval is mixture of diorite, quartz, calcite and lamprophyre; disseminated pyrite in low to moderate abundance. | J294095 | 191.22 | 192.52 | 1.30 | 0.005 | 1.20 | 327 | 0.03 | Core |
| 192.52 | 197.16 DIOR | SHR | Diorite. Equigranular texture; slightly sheared from 192.72-194.78; at 195.29 band of alteration, 1 cm wide, with mediumabundance of disseminated pyrite. |  |  |  |  |  |  |  |  |  |
| 197.16 | 197.88 ALT | DIOR | Altered diorite. Bleached, disseminated pyrite and magnetite; short quartzite/calcite veinlets perpendicular tca; contact with above and below dioritegradational. | J294096 | 197.16 | 197.88 | 0.72 | 0.151 | 2.40 | 722 | 0.07 | Core |
| 197.88 | 205.19 DIOR |  | Diorite. Interstitial, weakly shear; at 198.80, 1 cm wide band of altered rock, bleached and disseminated pyrite; at 204.13 tiny lamprophyre dyke parallel tca with minor pyrite and bornite along contact. |  |  |  |  |  |  |  |  |  |
| 205.19 | 205.34 ALT | DIOR | Altered diorite. At 205.24 quartz band perpendicular tca; sharp contact; disseminated pyrite | J294097 | 205.19 | 207.26 | 2.07 | 0.010 | 2.20 | 203 | 0.02 | Core |
| 205.34 | 207.26 DIOR |  | Diorite. Equigranular and interstital texture; no mineralization. |  |  |  |  |  |  |  |  |  |
| 207.26 | 207.76 ALT | DIOR | Altered diorite. Bleached; at 207.41 and 207.58 quartz veins, 1 cm wide; contact between vein and alteration sharp and perpendicular tca marked by black hornblende and calcite; pyrite and | J294098 | 207.26 | 207.76 | 0.50 | 0.176 | 1.50 | 54 | 0.01 | Core |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {T }}$ | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| magnetite disseminated. |  |  |  |  |  |  |  |  |  |  |  |  |
| 207.76 | 211.81 DIOR |  | Diorite. Equigranular and interstitial; slightly sheared parallel tca. | J294099 | 207.76 | 207.76 | 0.00 | 0.511 | 1.80 | 90 | 0.01 | Core Dupl |
| 211.81 | 212.17 ALT | DIOR | Altered diorite. First 0.16 m strong shear zone 60tca gradually transfer into bleached diorite with disseminated pyrite and magnetite while shear still exist. | J294200 | 211.81 | 212.17 | 0.36 | 0.081 | 1.00 | 19 | 0.00 | Core |
| 212.17 | 212.35 QV |  | Quartz vein.Solid quartz vein with sharp contacts 70tca;calcite, phlogopite and strings of pyrite along the contact; stripes of darker and lighter parts of the vein suggesting some mixing with diorite. | J294201 | 212.17 | 212.35 | 0.18 | 2.090 | 11.20 | 94 | 0.01 | Core |
| 212.35 | 212.68 ALT | DIOR | Altere diorite. Bleached with some disseminated pyrite Altered diorite. Bleached; with disseminated pyreite | J294202 | 212.35 | 212.68 | 0.33 | 0.069 | 2.30 | 553 | 0.06 | Core |
| 212.68 | 219.46 DIOR | SHR | Diorite. Equigranular and interstitial texture; few strips of quartz/calcite bands, <1cm wide, 6089tca; from 219.06 starts shear 60 to and transfer to subparalel tca at the end of the interval. |  |  |  |  |  |  |  |  |  |
| 219.46 | 219.56 QMV | QCV | Mineralized quartz/calcite vein. This interval includes 4 cm wide quartz/calcite vein 40tca and the rest is alteration zone. Mineralized with pyrite, chalcopyrite and bornite in medium abundance and un clustering appearence.Contact vein alteration discontinous and fussy. | J294203 | 219.46 | 219.56 | 0.10 | 0.331 | 7.80 | 5750 | 0.58 | Core |
| 219.56 | 224.39 DIOR | EALT | Diorite. Equigranular and interstitial texture, epidote patches up to $3 x 6 \mathrm{~cm}$ irregular; only few tiny, $<0,3 \mathrm{~cm}$ wide quartz veinlets perpendicular and 70tca |  |  |  |  |  |  |  |  |  |
| 224.39 | 224.61 ALT | DIOR | Altered diorite. Altered, slightly bleached diorite; the color slightly changes from less to intensively bleached; contact with quartz vein 70tca and appearence of pyrite; at 224.50 quartz vein 1 cm wide perpendicular tca, contact with above and below diorite marked by stripes of calcite and lamprophyre strings. | J294204 | 224.39 | 224.61 | 0.22 | 0.002 | 1.30 | 413 | 0.04 | Core |
| 224.61 | 231.05 DIOR |  | Diorite. Few quartz bands, $<3 \mathrm{~cm}$, perpendicular and 50 tca |  |  |  |  |  |  |  |  |  |
| 231.05 | 231.11 QCV |  | Quartz/Calcite bullock vein.Barren, 6 cm wide, 80 tca ; mixture of quartz/calcite; solid, broken, fragmented; contact sharp, clear with no alteration zone |  |  |  |  |  |  |  |  |  |
| 231.11 | 232.33 DIOR |  | Diorite. Few quartz/calcite bands, 0.3 cm and perpendicular tca |  |  |  |  |  |  |  |  |  |
| 232.33 | 235.83 SHR | LAMP | Sheared lamprophyre dyke in diorite. Extremely sheared parallel and subparallel tca; phlogopite strained and lineated parallel tca; bornite and pyrite clustering along shear line; quartz/calcite strings follow shear planes; quartz/calcite veins parallel tca and slightly mineralized with pyrite. |  |  |  |  |  |  |  |  |  |
| 235.83 | 236.25 ALT | DIOR | Altered diorite. Gradual transition from shear to alter diorite; major mineralization: pyrite, bornite, galena; at 235.00 few quartz.calcite veinlets 70 tca; mixture of different materia, lamprophire and diorite but not visible contact; Intensively altered and mixed interval. | J294205 | 235.83 | 236.25 | 0.42 | 0.017 | 2.20 | 167 | 0.02 | Core |
| 236.25 | 238.78 SHR | DIOR | Sheared diorite. Slightly sheared, darker color, maybe lamprophyric mixture |  |  |  |  |  |  |  |  |  |
| 238.78 | 243.54 DIOR |  | Diorite. Lighter color than previous interval; equigranular texture; patches of epidote; few quartz/calcite bands perpendicular tca and $<0.3 \mathrm{~cm}$ wide. | J294206 | 243.5 | 244.15 | 0.65 | 2.330 | 4.10 | 1015 | 0.10 | Core |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {To }}$ | M Lith | Lithology Notes | Sample | From | To | Interva\| | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 243.54 | 244.15 ALT | DIOR | Altered diorite. at 243.19 quartz ven, perpendicular tca with high pyrite abundance; at 244.04, quartz vein 45tca medium pyrite abundance. |  |  |  |  |  |  |  |  |  |
| 244.15 | 244.43 DIOR |  | Diorite. Equigranular texture; thiny veinlets 45tca; no mineralization. |  |  |  |  |  |  |  |  |  |
| 244.43 | 245.11 ALT | DIOR | Altered diorite.Slightly sheared with pyrite along shear surface, subparallel tca; pyrite, chalcopyrite. | J294207 | 244.43 | 245.11 | 0.68 | 2.090 | 16.10 | 4380 | 0.44 | Core |
| 245.11 | 245.28 DIOR | BZ | Diorite. Broken fragments |  |  |  |  |  |  |  |  |  |
| 245.28 | 245.38 ALT | DIOR | Short altered diorite. Mineralization: disseminated pyrite | J294208 | 245.28 | 245.38 | 0.10 | 0.108 | 1.50 | 926 | 0.09 | Core |
| 245.38 | 248.61 DIOR | EALT | Diorite. Equigranular and interstitial texture; patches of epidote sporadically. |  |  |  |  |  |  |  |  |  |
| 248.61 | 248.92 ALT | DIOR | Altered diorite. Contact with above diorite abrupt; disseminated pyrite and magnetite; thiny veinlets of quartz intersect; pyrite, chalcopyrite, sphalerite clustering around quartz veinlets. | J294209 | 248.61 | 248.92 | 0.31 | 0.343 | 1.00 | 193 | 0.02 | Core |
| 248.92 | 249.32 DIOR |  | Diorite. Not altered; equigranular and interstitial texture. Diorite. Equigranular texture. |  |  |  |  |  |  |  |  |  |
| 249.32 | 250.54 ALT | DIOR | Altered diorite. Bleached; contact with diorite gradual. compact interva, no broken fragments; not many veinlets, at 249.80 quartz vein, $<0.2 \mathrm{~cm}$, with some pyrite/chalcopyrite; at 250.28 and 25038 thiny quartz veinlets, $<0.3 \mathrm{~cm}$, perpendicular tca. | $\begin{aligned} & \hline \text { J294210 } \\ & \text { J294211 } \end{aligned}$ | $\begin{aligned} & 249.32 \\ & 249.32 \end{aligned}$ | $\begin{aligned} & 250.54 \\ & 249.32 \end{aligned}$ | $\begin{aligned} & \hline 1.22 \\ & 0.00 \end{aligned}$ | $\begin{aligned} & \hline 0.536 \\ & 1.535 \end{aligned}$ | $\begin{aligned} & \hline 1.30 \\ & 4.40 \end{aligned}$ | $\begin{array}{r} 243 \\ 10100 \end{array}$ | $\begin{aligned} & \hline 0.02 \\ & 1.01 \end{aligned}$ | $\begin{array}{r} \hline \hline \text { Core } \\ \text { M2 } \end{array}$ |
| 250.54 | 258.38 DIOR | QV | Diorite. Sheared at 254.00 quartz/calcite wavy veins parallel tca, discontinious; at 255.30 shear part 50 cm long parallel tca |  |  |  |  |  |  |  |  |  |
| 258.38 | 259.08 SHR | DIOR | Sheared diorite. With ripped quartz/calcite veins parallel tca; broken rock fragments; sharp shards broken along shear; thiny strypes of lamprophyre parallel tca and wavy. | J294212 | 259.06 | 260.96 | 1.90 | 0.318 | 1.80 | 429 | 0.04 | Core |
| 259.08 | 262.26 ALT | DIOR | Altered diorite. Intersected with short quartz veins mineralized with pyrite, chalcopyrite, sphalerite and bornite; quartz veins perpendicular tca at $262.00,4 \mathrm{~cm}, 262.13,3 \mathrm{~cm}$, at 261.62, $1 \mathrm{~cm}, 261.290 .5 \mathrm{~cm}, 260.38,3 \mathrm{~cm}, 250.80,0.2 \mathrm{~cm}$ and $252.4,1 \mathrm{~cm}$; interval is bleach with disseminated magnetite. | J294213 | 260.96 | 262.96 | 2.00 | 0.376 | 1.20 | 143 | 0.01 | Core |
| 262.26 | 282.26 DIOR | ALT | Diorite.Equigranular texture and not altered but intersected with short alteration bands with qurtz veinlets in middle and low abundance of pyrite. Alteration bands are perpendicular tca at 266.65 , 5 cm wide, at 268.25 , 5 cm wide, at $270,30,4 \mathrm{~cm}$ wide, at $240.24,2 \mathrm{~cm}$ wide, at 240.87 0.3 cm wide, at $272.42,4 \mathrm{~cm}$ wide, at $272.46,13 \mathrm{~cm}$ wide, at $274,32,5 \mathrm{~cm}$ wide, at 278.242 cm wide and 282.009 cm wide | J294214 | 272.42 | 274.32 | 1.90 | 0.589 | 0.60 | 110 | 0.01 | Core |
| 282.26 | 283.00 ALT | DIOR | Altered diorite. Bleached, silicified; quartz vein at $282.51 \mathrm{~m}, 3 \mathrm{~cm}$ wide and perpendiculartca with low to medium pyrite in clusters. | J294215 | 282.26 | 283 | 0.74 | 0.855 | 7.70 | 765 | 0.08 | Core |
| 283.00 | 293.46 DIOR | ALT | Diorite. With short altered bands and some shear parallel tca. altered bands at $284.83,4 \mathrm{~cm}$ wide, 284.85 , 2 cm wide, 289.6012 cm wide, $292.00,20 \mathrm{~cm}$ wide and $293.32,7 \mathrm{~cm}$ wide with or without quartz veinlets but slightly bleached and with disseminated pyrite and magnetite; weak shear zone at 285.68, 37 cm long with small lamprophyre and pyrite intruded along the shear | J294216 | 292 | 292.39 | 0.39 | 0.092 | 1.10 | 490 | 0.05 | Core |
| 293.46 | 293.87 SHR | DIOR | Shear diorite with mixed lamprophyre. Intensive shear subparalel tca or 20-30 tca; lamprophyric material is mixed but recognized by darker color and phlogopite; fractured and | J294217 | 293.46 | 293.87 | 0.41 | 0.187 | 2.10 | 2350 | 0.24 | Core |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {T }}$ Lith | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| fragile interval with porous texture and crumbles along shear lines; clusters of pyrite along shear; highly magnetic interval. |  |  |  |  |  |  |  |  |  |  |  |  |
| 293.87 | 295.06 DIOR |  | Diorite. Equigranular and interstitial texture, black and white color. No shear. |  |  |  |  |  |  |  |  |  |
| 295.06 | 295.56 ALT | DIOR | Weakly altered diorite. Still visible granular texture but slightly bleached. Intersected with fine, thiny veinlets of calcite, quartz and lamprophyre; disseminated pyrite in low abundance. | J294218 | 295.06 | 295.56 | 0.50 | 0.002 | 0.10 | 162 | 0.02 | Core |
| 295.56 | 296.73 DIOR |  | Diorite. Equigranular and interstitial texture; black and white color; no shear. |  |  |  |  |  |  |  |  |  |
| 296.73 | 297.77 FOL | DIOR | Foliated diorite. Foliation 20-30 tca or paralel tca; uniform foliation through interval; quartz/calcite veinlets follow and mark foliation; not as strong as 293.46-293.87. |  |  |  |  |  |  |  |  |  |
| 297.77 | 309.05 DIOR | EALT | Equigranular and interstitial texture uniform throug interval; few patches of epidote, $1-3 \mathrm{~cm}$; discontinious thiny quartz veinlets perpendicular tca and few mm wide; slight change in coloration of diorite from darker to slightly lighter (light bleach). |  |  |  |  |  |  |  |  |  |
| 309.05 | 309.77 ALT | DIOR | Altered diorite. Bleached slightly, intersected with lots of hairy veinlets of quartz and calcite; disseminated pyrite on the fractured surfaces; at 309.57 shear zone 20 cm long subparalel tca or 30 tca with lamprophyre, calcite and quartz along shear lines; contact above gradual and below unclear. | J294219 | 309.05 | 309.77 | 0.72 | 0.026 | 0.90 | 1360 | 0.14 | Core |
| 309.77 | 314.36 DIOR |  | Diorite. Equigranular and interstitial; some thiny quartz veinlets perpendicular tca |  |  |  |  |  |  |  |  |  |
| 314.36 | 316.40 ALT | DIOR | Altered diorite. Contact above gradual; interval is fragmented due to abundant thint quartz veinlets perpendicular tca or sub perpenducular tca; disseminated pyrite along veinlets; at 316.14 shear zone 20 cm long with quartz along shear lines. | J294220 | 314.36 | 316.4 | 2.04 | 0.578 | 2.30 | 1280 | 0.13 | Core |
| 316.40 | 323.15 DIOR |  | Diorite. Equigranular and interstitial texture with altered band perpendicular tca at $316.60,2 \mathrm{~cm}$ wide, few bullock quartz and quartz/calcite veinlets, few mm wide, perpendicular, subperpendicular and paralel tca; no pyrite found. |  |  |  |  |  |  |  |  |  |
| 323.15 | 323.26 ALT | DIOR | Altere diorite.Quartz vein, 1 cm wide at 323.23 with massive pyrite along the bottom side of the quartz vein; contact between vein and altered diorite sharp below; pyrite masses irregular inside the vein but sharp on the contact with altered diorite; altered diorite with disseminated pyrite and magnetite. | $\begin{aligned} & \hline \text { J294221 } \\ & \text { J294222 } \end{aligned}$ | $\begin{aligned} & \hline 323.15 \\ & 323.15 \end{aligned}$ | $\begin{aligned} & \hline 323.26 \\ & 323.15 \end{aligned}$ | $\begin{aligned} & 0.11 \\ & 0.00 \end{aligned}$ | $\begin{array}{r} \hline \hline 17.600 \\ 0.441 \end{array}$ | $\begin{array}{r} \hline 18.20 \\ 1.20 \end{array}$ | $\begin{array}{r} 331 \\ 5520 \end{array}$ | $\begin{aligned} & \hline 0.03 \\ & 0.55 \end{aligned}$ | $\begin{array}{r} \hline \hline \text { Core } \\ \text { M3 } \end{array}$ |
| 323.26 | 323.38 DIOR |  | Diorite. Equigranular and interstitial texture; uniform through interval. Diorite. Equigranular and interstitial texture; uniform through the interval. |  |  |  |  |  |  |  |  |  |
| 323.38 | 325.43 BZ | DYKE | Shear and altered diorite/lamprophyre/volcanic? Crumbled and dissentigrated; porous; quartz crystals in cavites; lamprophyre dyke intruded 60tca; contact sharp, abruptive; whole interval is altered and sheared due to mixture of different material: quartz, calcite, lamprophyre, diorite and shear; lamprophyre appear as fine tuff material with flow texture; the interval has clayish appearence; very low pyrite mineralization. | J294223 | 323.38 | 325.43 | 2.05 | 0.033 | 0.40 | 501 | 0.05 | Core |
| 325.43 | 326.24 DIOR |  | Diorite. Equigranular and interstitial texture; uniform. |  |  |  |  |  |  |  |  |  |
| 326.24 | 327.67 DYKE LAMP Altere lamprophyre dyke. Less fragile, fractured and altered than interval 323.38-325.43; fime |  |  |  |  |  |  |  |  |  |  |  |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To Lith | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| tuffistic material intruded in diorite 30-30 tca;sharp contact with diorite; flow texture/ or phlogopite lineation? Hairy and short quartz veinlets; weakly magnetic. |  |  |  |  |  |  |  |  |  |  |  |  |
| 327.67 | 328.19 DIOR |  | Diorite. Equigranular and interstitial texture. Uniform throug interval. |  |  |  |  |  |  |  |  |  |
| 328.19 | 330.71 SHR | DIOR | Shered diorite. Unifrmely sheared parallel and subparalel tca; contact with above diorite sharp and marked by calcite/quartz or film, lamprophiritic material and neklace of pyrite |  |  |  |  |  |  |  |  |  |
| 330.71 | 330.95 ALT | DIOR | Altered diorite. Slightly bleached; no distinctive quartc veins; low mineralization with pyrite. | J294224 | 330.71 | 330.95 | 0.24 | 0.207 | 0.20 | 69 | 0.01 | Core |
| 330.95 | 331.17 SHR | DIOR | Sheared diorite. Same as 328.19-330.71. |  |  |  |  |  |  |  |  |  |
| 331.17 | 331.67 ALT | DIOR | Altered diorite. Slightly bleached; at 331.40 quartz vein, 1 cm wide, wavy, almost perpendicular tca, with massive pyritealong contact with altered diorite. | J294225 | 331.17 | 331.67 | 0.50 | 0.430 | 0.90 | 124 | 0.01 | Core |
| 331.67 | 332.54 DIOR |  | Diorite. Intersected with abundant fine lines perpendiculat tca of quartz veinlets; no mineralization. |  |  |  |  |  |  |  |  |  |
| 332.54 | 333.04 ALT | DIOR | Altered diorite. Slightly bleached with one thin quartz vein at 332.95 , perpendicular tca with pyrite along the vein. | J294226 | 332.54 | 333.04 | 0.50 | 0.222 | 0.20 | 37 | 0.00 | Core |
| 333.04 | 333.35 DIOR | LAMP | Diorite. With 2 thin, 0.2 cm wide, and discontinous lamprophyric dykes 45tca |  |  |  |  |  |  |  |  |  |
| 333.35 | 333.52 LAMP |  | Lamprophyric dyke. Subparalel tca; fine texture with phlogopite lineation paralel tca. |  |  |  |  |  |  |  |  |  |
| 333.52 | 335.28 SHR | DIOR | Sheared diorite. With lamprophyric dyke intruded subparalel tca; contact with diorite sharp. |  |  |  |  |  |  |  |  |  |
| 335.28 | 335.80 DYKE | LAMP | Altered lamprophyric dyke. Intruded subparalel tca; contact with diorite sharp. |  |  |  |  |  |  |  |  |  |
| 335.80 | 336.64 SHR | DIOR | Shered diorite. Compact interval; shear at 50tca. |  |  |  |  |  |  |  |  |  |
| 336.64 | 336.76 LAMP |  | Lamprophyric dyke. Dark colored, fine texture with phlogopite. |  |  |  |  |  |  |  |  |  |
| 336.76 | 337.29 SHR | DIOR | Sheared diorite. With quartz veinlets at 50tca; shear subparalel tca. |  |  |  |  |  |  |  |  |  |
| 337.29 | 337.64 ALT | DIOR | Altered diorite. Some pyrite along thiny qurtz vein at 337.39; above contact gradual; below contact sharp; at 337.49 shear with quartz veinlets 45 tca. | J294227 | 337.29 | 337.64 | 0.35 | 0.069 | 0.10 | 89 | 0.01 | Core |
| 337.64 | 339.31 SHR | DIOR | Sheared diorite. With bands of lamprophyre and quartz at 60tca. |  |  |  |  |  |  |  |  |  |
| 339.31 | 341.39 DIOR |  | Diorite. Equigranular and interstitial. Uniform through interval. |  |  |  |  |  |  |  |  |  |
| 341.39 | 341.59 ALT | DIOR | Altered diorite. Bleached; at 341.50 quartz vein, 1 cm wide, perpendicular tca with pyrite in low abundance. | J294228 | 341.39 | 341.59 | 0.20 | 0.234 | 0.40 | 148 | 0.01 | Core |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {Lith }}$ | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 341.59 | 344.10 DIOR |  | Diorite. Equigranular and interstitial texture; uniform though the interval. |  |  |  |  |  |  |  |  |  |
| 344.10 | 344.20 ALT | DIOR | Altered diorite. Thiny veinlets perpendicular tca, low pyrite abundance. | J294229 | 344.1 | 344.2 | 0.10 | 0.728 | 0.20 | 372 | 0.04 | Core |
| 344.20 | 344.80 DIOR | SHR | Diorite. Slightly sheared |  |  |  |  |  |  |  |  |  |
| 344.80 | 345.07 ALT | DIOR | Altered diorite. Includes 2 altered bands: at 344.80-344.87, contact with surronding diorite perpendicular tca, with thiny, few mm , quartz/calcite veinlets which are perpendicular and 45 tca, low content of pyrite; at 344.94-345.07, contact with surronding diorite perpendicular, with quartz vein, 4 mm wide, perpendicular tca and with clusters ofpyrite in the medium abundance along vein diorite contact; calcite on the contact with veinlets; altered diorite above has disseminated pyrite. Low to medium pyrite. | J294230 | 344.8 | 345.07 | 0.27 | 3.740 | 1.70 | 252 | 0.03 | Core |
| 345.07 | 349.14 DIOR | SHR | Diorite. Slightly sheared, paralel tca; shear visible by slight lineation of minerals; compact rock; no breakage. |  |  |  |  |  |  |  |  |  |
| 349.14 | 349.37 SHR | DIOR | Sheared diorite. Shear is subparallel tca, marked by infil of quartz/calcite veinlets, pinkish granite?? (K altered diorite?); few pyrite disseminated. | J294231 | 349.14 | 349.37 | 0.23 | 0.047 | 3.10 | 953 | 0.10 | Core |
| 349.37 | 350.57 DIOR | EALT | slightly epidotized but not sheared; equigranular texture. |  |  |  |  |  |  |  |  |  |
| 350.57 | 350.72 SHR | DIOR | Sheared diorite. Same as 349.14-349.37 | J294232 | 350.57 | 350.72 | 0.15 | 0.011 | 0.10 | 28 | 0.00 | Core |
|  |  |  |  | J294233 |  |  |  | 0.018 |  | 149 |  | Core Dupl |
| 350.72 | 351.15 DIOR | FOL | Diorite. Slightly foliated 40tca. |  |  |  |  |  |  |  |  |  |
| 351.15 | 351.70 SHR | DIOR | Sheared diorite. Same as 349.14-349.37 and 350.57-350.72; mixture of pinkish ortoclase? (K feldspatization?), quartc/calcite veins and some thiny, hairy lamprophyre; porosity 50tca; quartz/calcite veinlets perpendicular or 80tca; epidote patches on few places. | J294234 | 351.15 | 351.7 | 0.55 | 0.229 | 5.40 | 2450 | 0.25 | Core |
| 351.70 | 352.08 EALT | DIOR | Epidotized and sheared diorite. Veinlets of lamprophyre sub paralel tca, epidotized; dark and slightly green appearance; flow texture? |  |  |  |  |  |  |  |  |  |
| 352.08 | 352.30 ALT | DIOR | Altered diorite. Bleached, almost yellowish/white; probably silicifikation and epidotization; abrupt and sharp contact with surronding unaltered diorite; above contact not clear; below contact 60tca; pyrite, chalcopyrite, bornite in medium abundance; toward the bottom more dark and mixture with below diorite. | J294235 | 352.08 | 352.3 | 0.22 | 0.023 | 0.30 | 658 | 0.07 | Core |
| 352.30 | 355.72 DIOR |  | Diorite. Uniform interval; equigranular texture; few veinlets, <1cm wide ; lamprophyre 30-60tca |  |  |  |  |  |  |  |  |  |
| 355.72 | 356.05 ALT | DIOR | Altered diorite. Silicification; very similar to 352.08-352.3; starts with bullock quartz vein, 1 cm wide, and continious as bleached with low pyrite content. | J294236 | 355.72 | 356.05 | 0.33 | 0.015 | 0.20 | 233 | 0.02 | Core |
| 356.05 | 356.78 DIOR |  | Diorite. With 3-4 thin, 2-3mmwide, calcite veinlets crossing at 80-90tca. |  |  |  |  |  |  |  |  |  |
| 356.78 | 357.18 ALT | DIOR | Altered diorite. Above contact 40tca; below contact perpendicular tca; this interval consists of several alteration bands, $1-5 \mathrm{~cm}$ wide, and changing angle from 40tca to perpendiculat tca; at 357.02 quartz vein, 1 cm wide, bearing clusters of pyrite and chalcopyrite. | J294237 | 356.78 | 357.18 | 0.40 | 0.616 | 0.20 | 66 | 0.01 | Core |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {Lith }}$ | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 357.18 | 358.12 DIOR |  | Diorite. Few very thiny and discontinious quartz/calcite veinslets, perpendicular tca; uniform interval. |  |  |  |  |  |  |  |  |  |
| 358.12 | 358.62 ALT | DIOR | Altered diorite. Typical altered interval with quartz vein in the middle; quartz vein at 358.24358.36, 12 cm wide, perpendiculat tca with sharp contact toward altered zone; impured with material from altered zone; medium mineralization; pyerite, chalcopyrite, sphalerite; in altered zone disseminated pyrite and magnetite | $\begin{aligned} & \hline \text { J294238 } \\ & \text { J294239 } \\ & \text { J294240 } \end{aligned}$ | $\begin{aligned} & \hline \hline 358.12 \\ & 358.23 \\ & 358.35 \end{aligned}$ | $\begin{aligned} & \hline \hline 358.23 \\ & 358.35 \\ & 358.62 \end{aligned}$ | $\begin{aligned} & \hline \hline 0.11 \\ & 0.12 \\ & 0.27 \end{aligned}$ | $\begin{aligned} & \hline 0.583 \\ & 8.530 \\ & 0.144 \end{aligned}$ | $\begin{aligned} & \hline \hline 1.20 \\ & 8.70 \\ & 0.20 \end{aligned}$ | $\begin{array}{r} \hline \hline 497 \\ 2150 \\ 138 \end{array}$ | $\begin{aligned} & \hline \hline 0.05 \\ & 0.22 \\ & 0.01 \end{aligned}$ | Core <br> Core <br> Core |
| 358.62 | 359.53 DIOR |  | Diorite.. At 359.20-359.66 slight foliation 40tca and darker color. |  |  |  |  |  |  |  |  |  |
| 359.53 | 359.61 ALT | DIOR | Altered diorite. Typical altered interval with quartz vein in the middle at 359.56-359.57, perpendiculat tca; low content of pyrite and chalcopyrite. | J294241 | 359.53 | 359.61 | 0.08 | 0.036 | 0.60 | 426 | 0.04 | Core |
| 359.61 | 362.54 DIOR |  | Diorite. Equigranular texture; typical. |  |  |  |  |  |  |  |  |  |
| 362.54 | 362.87 ALT | DIOR | Altered diorite. Typical with quartz vein at the 362.68 , perpendicular tca, 4 cm wide; disseminated pyrite in altered zone; low pyrite abundance. | J294242 | 362.54 | 362.87 | 0.33 | 2.700 | 3.10 | 978 | 0.10 | Core |
| 362.87 | 363.13 DIOR |  | Diorite. Equigranular texture. Typical. |  |  |  |  |  |  |  |  |  |
| 363.13 | 363.33 DIOR | SHR | Slightly sheared diorite. Shear parallel tca with pyrite along shear surface; slight alteration possible as disseminated pyrite present through the interval | $\begin{aligned} & \hline \text { J294243 } \\ & \text { J294244 } \end{aligned}$ | $\begin{aligned} & 363.13 \\ & 363.13 \end{aligned}$ | $\begin{aligned} & 363.33 \\ & 363.13 \end{aligned}$ | $\begin{aligned} & 0.20 \\ & 0.00 \end{aligned}$ | $\begin{aligned} & 0.094 \\ & 0.013 \end{aligned}$ | $\begin{aligned} & 3.40 \\ & 0.10 \end{aligned}$ | $\begin{array}{r} 2680 \\ 22 \end{array}$ | $\begin{aligned} & 0.27 \\ & 0.00 \end{aligned}$ | Core <br> Blank |
| 363.33 | 363.77 DIOR |  | Diorite. Equigranular texture. Typical. Diorite. Equigranular texture; typical. |  |  |  |  |  |  |  |  |  |
| 363.77 | 363.97 ALT | DIOR | Altered diorite. Typical with quartz vein at $363.87,1 \mathrm{~cm}$ wide, 80 tca, sharp contact; along the contact clusters of pyrite, bornite, chalcopyrite; medium abundance. | J294245 | 363.77 | 363.97 | 0.20 | 1.595 | 4.10 | 416 | 0.04 | Core |
| 363.97 | 373.04 DIOR | SHR | Diorite. Few slightly sheared zones with some pyrite along shear surface; few qyartz veinlets, $<1 \mathrm{~cm}$ wide, 60 or perependicular tca; uniform color through the interval. |  |  |  |  |  |  |  |  |  |
| 373.04 | 373.62 SHR | DIOR | Sheared diorite. Similar to $349.14-349.37$ and $350.57-350.72$ with pinkish ortoclas??(K alteration??); shearing marked by quartz/calcite discontinious and turbulent veinlets; pyritization along shear surface. | J294246 | 373.04 | 373.62 | 0.58 | 0.426 | 13.70 | 9910 | 0.99 | Core |
| 373.62 | 374.25 DIOR FOL |  | Diorite. Slightly foliated paralel tca. |  |  |  |  |  |  |  |  |  |
| 374.25 | 374.57 SHR | DIOR | Sheared diorite. Fragmented and porous along foliation paralel tca; clusters of pyrite in the pores and along foliation; pyrite, chalcopyrite, bornite in medium abundance. | J294247 | 374.25 | 374.57 | 0.32 | 0.263 | 13.20 | 8170 | 0.82 | Core |
| 374.57 | 382.75 DIOR |  | Diorite. With short, <1cm, bullock quartz; barren. |  |  |  |  |  |  |  |  |  |
| 382.75 | 382.87 ALT | DIOR | Altered diorite. Two very short altered zones with quartz veinlets in the middle: at 382.75382.78 , perpendiculat tca, 0.5 cm wide and at $382.85-382.87$, perpendiculat tca a, 2 mm wide; low abundance of pyrite, chalco. | J294248 | 382.75 | 382.87 | 0.12 | 1.685 | 3.60 | 718 | 0.07 | Core |
| 382.87 | 384.37 DIOR |  | Diorite. Uniform interval. |  |  |  |  |  |  |  |  |  |


|  |  |  | Lithology | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {To }}$ | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 384.37 | 384.67 SHR | DIOR | Sheared diorite. Similar to 373.04-373.62; intrusion of slightly bleached diorite; no mineralization; contact at 60tca; bottom part pinkish ortoclas?? |  |  |  |  |  |  |  |  |  |
| 384.67 | 384.85 DIOR |  | Diorite. Uniform; typical. |  |  |  |  |  |  |  |  |  |
| 384.85 | 384.90 ALT | DIOR | Altered diorite. Alteration band with disseminated pyrite and not visible quartz veinlets in the middle. | J294249 | 384.85 | 384.9 | 0.05 | 0.065 | 0.80 | 589 | 0.06 | Core |
| 384.90 | 392.39 DIOR | ALT | Diorite. With few short alt bands, <1cm wide, with pyrite; few sheared zones, $<10 \mathrm{~cm}$ long; few quartz veins, $<1 \mathrm{~cm}$ wide, 45 tca , barren; patches of epidote, $4 \times 5 \mathrm{~cm}$. |  |  |  |  |  |  |  |  |  |
| 392.39 | 392.94 SHR | DIOR | Sheared diorite. Similar to 384.37-384.67 with intrusions of bleached diorite; quartz along the contact; pyrite along quartz contact. | J294250 | 392.39 | 392.94 | 0.55 | 0.055 | 1.00 | 1160 | 0.12 | Core |
| 392.94 | 396.63 DIOR |  | Diorite. With few bullock quartz; uniform texture and color. |  |  |  |  |  |  |  |  |  |
| 396.63 | 397.55 ALT | DIOR | Altered diorite.It is actually diorite with many short alteration bands, $<1 \mathrm{~cm}$ wide and perpendicular tca; typical with thiny quartz veinlets in the middle and pyrite clustering along quartz contact or disseminated in alteration shoulders. | J294251 | 396.63 | 397.55 | 0.92 | 0.506 | 0.10 | 224 | 0.02 | Core |
| 397.55 | 397.89 DIOR |  | Diorite. Few short, few mm, quartz but no alteration. |  |  |  |  |  |  |  |  |  |
| 397.89 | 397.99 ALT | DIOR | Altered diorite. Quartz veins, 2 cm wide in the middle; disseminated pyrite. | J294252 | 397.89 | 397.99 | 0.10 | 0.683 | 0.20 | 531 | 0.05 | Core |
| 397.99 | 400.60 DIOR |  | Diorite. Typical; uniform. |  |  |  |  |  |  |  |  |  |
| 400.60 | 402.60 SHR | DIOR | Sheared diorite. Foliated paralel tca; fractured paralel tca; fragmented rock; very few quartz veins paralel to foliation. |  |  |  |  |  |  |  |  |  |
| 402.60 | 408.53 SHR | DIOR | Sheared diorite. Very similar to previous sheared interval; barren. |  |  |  |  |  |  |  |  |  |
| 408.53 | 408.73 DIOR |  | Diorite. Typical. |  |  |  |  |  |  |  |  |  |
| 408.73 | 409.11 SHR | DIOR | Sheared diorite. With pyrite along shear surface. | J294253 | 408.73 | 409.11 | 0.38 | 0.069 | 3.30 | 1595 | 0.16 | Core |
| 409.11 | 416.17 DIOR |  | Diorite. Slight foliation; very few quartz veinlets; epidote patches. |  |  |  |  |  |  |  |  |  |
| 416.17 | 416.51 ALT | DIOR | Slightly altered diorite. Intruded 50 tca into unaltered diorite; contact marked by oxidized layer; very few disseminated pyrite; no visible quartz veinlets. | $\begin{aligned} & \hline \text { J294254 } \\ & \text { J294255 } \end{aligned}$ | $\begin{aligned} & 416.17 \\ & 416.17 \end{aligned}$ | $\begin{aligned} & 416.51 \\ & 416.17 \end{aligned}$ | $\begin{aligned} & 0.34 \\ & 0.00 \end{aligned}$ | $\begin{aligned} & 0.005 \\ & 1.520 \end{aligned}$ | $\begin{aligned} & 1.00 \\ & 4.40 \end{aligned}$ | $\begin{array}{r} 126 \\ 9810 \end{array}$ | $\begin{aligned} & 0.01 \\ & 0.98 \end{aligned}$ | Core CM2 |


| 416.51 | 419.03 DIOR | Diorite. Few epidote patches; few quartz veinlets, few mm wide, discontinious, perpendiculat <br> tca or subparalel tca or 30 tca. |
| :--- | :--- | :--- |

419.03 419.70 FOL DIOR Foliated diorite. Very compact interval; possible intrusion of lamprophyre, paralel or 20tca; contact sharp; lineation 20-30 tca; looks as flow texture?
419.70 423.36 DIOR $\quad$ Diorite. Same as 416.51-419.03.

| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {To }}$ | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 423.36 | 423.53 ALT | DIOR | Altered diorite. At 423.47, at 80tca, 4 mm wide, quartz vein; clusters of chalcopyrite and pyrite in the and along the contact with quartz; disseminated pyrite in the altered zone. | J294256 | 423.36 | 423.53 | 0.17 | 0.685 | 1.90 | 900 | 0.09 | Core |
| 423.53 | 424.35 DIOR |  | Diorite. With short alteration band at $423.67,2 \mathrm{~cm}$ wide, with 3 mm wide quartz veinlets subparaleltca and pyrite; at 424.03 also 2 cm wide alteration with thiny quartz hair in the middle. |  |  |  |  |  |  |  |  |  |
| 424.35 | 426.05 ALT | DIOR | Altered diorite. Bleached interval with several , 1 cm wide, quartz veins at 424.53, 424.99 and 425.57; this interval consists of 3 alteration zones around mentioned quartz veins and very shor intervals of unaltered diorite in between them;all intervals are enriched with pyrite and chalcopyrite, specialy around quartz veins, along their contact and as disseminated pyrite; in alteration zones disseminated magnetite. | J294257 | 424.35 | 426.05 | 1.70 | 0.308 | 1.30 | 248 | 0.02 | Core |
| 426.05 | 426.50 QMV |  | Mineralized quartz vein. Vein is pure white quartz with small impurites of diorite; perpendicular tca; up to 426.20 solid quartz after 426.20 fractured quartz; at 426.1-426.13 band of pyrite and chacopyrite, massive, irregular, perpendicular tca; at 426.27 band of pyrite and chalco, perpend tca, 2 mm wide; at 426.45 band of pyrite and chalco at 80 tca | J294258 | 426.05 | 426.5 | 0.45 | 84.500 | 22.30 | 1070 | 0.11 | Core |
| 426.50 | 427.33 ALT | DIOR | Altered diorite. Mixed with irregular, wavy quartz veins, paralel tca; pyrite in clusters around quartz contact or along shear surface; shear 60tca. | J294259 | 426.5 | 427.33 | 0.83 | 0.635 | 2.20 | 427 | 0.04 | Core |
| 427.33 | 431.67 DIOR |  | Diorite. At 427.83-428.00 wavy, pinkish vein, subparalel tca; interval compact and uniform; typical equigranular and interstitial texture. |  |  |  |  |  |  |  |  |  |
| 431.67 | 432.19 ALT | DIOR | Altered diorite. Mixture of several small quartz veinlets of unclear orientations mixed with hairy lamprophyre?; pyrite clustered around these veinlets; low abundance of pyrite; | J294260 | 431.67 | 432.19 | 0.52 | 0.246 | 1.60 | 283 | 0.03 | Core |
| 432.19 | 432.52 DIOR |  | Diorite. Typical; uniform. |  |  |  |  |  |  |  |  |  |
| 432.52 | 433.12 ALT | DIOR | Altered diorite. Slightly altered and sheared due to quartz veins and lamprophyre hairyintrusions irregulary distributed through out the interval. Slightly bleached' no sulfide. |  |  |  |  |  |  |  |  |  |
| 433.12 | 448.93 DIOR |  | Diorite. At 434.49, 3cm altered band; patches of epidote sporadically distributed through interval; from 446.06-447.51 foliation with darker bands, 30tca |  |  |  |  |  |  |  |  |  |
| 448.93 | 449.34 QV | LAMP | Quartz and lamprophyre intrusions. Subparalel tca, very irregular; producing very little strain on diorite. |  |  |  |  |  |  |  |  |  |
| 449.34 | 453.85 DIOR |  | Diorite. Few quartz veins. From 452.22-452.55 foliation sub paralel tca and after that typical diorite. |  |  |  |  |  |  |  |  |  |
| 453.85 | 454.19 ALT | DIOR | Altered diorite. Consists of 3 altered bands at $454.02=$ quartz veinlets, 4 mm wide perpendicular tca; at 454.06=quartz veinlets, 3 mm wide, 45 tca ; at $454.13=$ quartz veinlet, 2 mm wide, 45 tca; low abundance of disseminated pyrite | J294261 | 453.85 | 454.19 | 0.34 | 0.387 | 0.90 | 152 | 0.02 | Core |
| 454.19 | 454.82 DIOR |  | Diorite. Typical. |  |  |  |  |  |  |  |  |  |
| 454.82 | 454.89 ALT | DIOR | Altered diorite. At 455.57 clear quartz vein, 3 mm wide, perpendicular tca; very few pyrite. | J294262 | 454.82 | 454.89 | 0.07 | 0.526 | 0.60 | 41 | 0.00 | Core |
| 454.89 | 455.27 DIOR |  | Diorite. Typical |  |  |  |  |  |  |  |  |  |



| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To Lith | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 479.63 | 480.22 QV | LAMP | Quartz vein. Similar to 463.46-463.76; followed by irregular intrusion of lamprophyre at 40-60 tca; interval compact, no breakage as in 463.46-463.76; instead of big quartz vein this interval is marked by lots of small veins mixed with calcite and lamprophyre; low pyrite content. | J294270 | 479.63 | 480.22 | 0.59 | 0.148 | 3.80 | 2340 | 0.23 | Core |
| 480.22 | 485.02 DIOR |  | Diorite. Typical. |  |  |  |  |  |  |  |  |  |
| 485.02 | 485.98 SHR | DIOR | Sheared diorite. Shear paraleltca, followed by quartz/calcite veins; bleached, wavy; tails of lamprophyre. |  |  |  |  |  |  |  |  |  |
| 485.98 | 491.27 DIOR |  | Diorite. Slightly foliated 30tca, patches of epidote; short alteration bands at 487.48, 2 cm wide. |  |  |  |  |  |  |  |  |  |
| 491.27 | 491.37 ALT | DIOR | Altered diorite band. It consists of 2 slightly bleached bands; no quartz veilets visible; on the broken core, perpendicular tca, chalcopyrite, bornite, pyrite clusters; medium abundancy of sulphide. | J294271 | 491.27 | 491.37 | 0.10 | 0.010 | 0.50 | 95 | 0.01 | Core |
| 491.37 | 492.31 DIOR | LAMP | Diorite. Equigranular texture; at 491.8 intruded lamprophyre at 45tca for about 15 cm |  |  |  |  |  |  |  |  |  |
| 492.31 | 492.61 DIOR | QMV | Mineralized diorite. On the core fracture surface massive pyrite cluster at 492.40; diorite in this interval is not altered, bleached or intersected with veins; it is typical equigranular textured diorite; fracture with pyrite is sub perpendicular tca; thiny intrusions of lamprophyre hairs at 492.48 at 45 tca; this intrusion is also loaded with pyrite; there is no differense in appearence of diorite in this interval, it is visually the same as above interval except for mineralization?; possibly mineralization brought by intersected lamprophyre??? | J294272 | 492.31 | 492.61 | 0.30 | 0.059 | 5.40 | 3060 | 0.31 | Core |
| 492.61 | 493.32 DIOR | QMV | Mineralized diorite. Again, no alteration but massive pyrite enrichment found on 2 fractured surfaces; pyrite infil interstitial space of diorite; agressive calcitization also noted in the interstitial space; maybe calcitization caused pyrite mineralization?? | J294273 | 492.61 | 493.32 | 0.71 | 0.131 | 1.30 | 896 | 0.09 | Core |
| 493.32 | 494.86 DIOR |  | Diorite. With thiny lamprophyric haire at 30tca |  |  |  |  |  |  |  |  |  |
| 494.86 | 495.13 EALT | DIOR | Epidotized and chloritized diorite. With dissolved patches of bleached, calcitized epidote; unclear; disolved calcite/quartz veins; no mineralization found. |  |  |  |  |  |  |  |  |  |
| 495.13 | 496.72 DIOR |  | Diorite. Typical |  |  |  |  |  |  |  |  |  |
| 496.72 | 496.89 ALT | DIOR | Altered diorite. Alteration band is 1 cm wide; bleached; no visible vein; some pyrite disseminated on the fractured surface. | J294274 | 496.72 | 496.89 | 0.17 | 0.091 | 0.50 | 96 | 0.01 | Core |
| 496.89 | 497.08 DIOR |  | Diorite. Typical |  |  |  |  |  |  |  |  |  |
| 497.08 | 497.25 ALT | DIOR | Altered diorite. Slightly sheared subparalel tca; sharp vein 45tca, 3mm wide, oxidized; possible lamprophyre; few pyrite disseminated | J294275 | 497.08 | 497.25 | 0.17 | 0.002 | 0.30 | 55 | 0.01 | Core |
| 497.25 | 499.35 DIOR |  | Diorite. Few quartz veins 45tca, 2cm wide; barren. |  |  |  |  |  |  |  |  |  |
| 499.35 | 499.55 LAMP |  | Lamprophyre dyke. At 45tca, dark color, fine foliated texture; sharp contact above and dissolved contact below. |  |  |  |  |  |  |  |  |  |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {To }}$ Lith | M Lith | Lithology Notes | Sample | From | To | Interva\| | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 499.55 | 501.37 DIOR |  | Diorite. Same as at 497.25-499.35; epidotized vein at 45tca; same quartz veins perpendiculat tca or 50 tca. |  |  |  |  |  |  |  |  |  |
| 501.37 | 501.50 ALT | DIOR | Altered diorite band. Bleached, perpendicular tca; thiny quartz vein in the middle; medium abundancy of pyrite/chalco on the fractured surface | J294276 | 501.37 | 501.5 | 0.13 | 0.067 | 6.60 | 4430 | 0.44 | Core |
| 501.50 | 503.46 DIOR |  | Diorite. Epidotized and chloritized; interstitial space is light green color. | J294277 | 501.5 | 501.5 | 0.00 | 0.051 | 3.00 | 1225 | 0.12 | Core Dupl |
| 503.46 | 503.99 QV |  | Quartz vein. Barren; at 503.46 , 2 cm wide white quartz vein subparalel tca; ribbony, wavy, epidotized; no mineralization. |  |  |  |  |  |  |  |  |  |
| 503.99 | 507.47 DIOR |  | Diorite. Typical. |  |  |  |  |  |  |  |  |  |
| 507.47 | 508.20 DIOR | QMV | Mineralized diorite. White and epidotized quartz/calcite veins 45tca; core fractured at 3 places and pyrite found on the fractured surfaces; no bleaching but epidotization; slight shear at the bottom with foliation paralel tca. | J294278 | 507.47 | 508.2 | 0.73 | 0.013 | 1.10 | 585 | 0.06 | Core |
| 508.20 | 508.76 ALT | DIOR | Altered diorite. 3 altered bands, $3-5 \mathrm{~cm}$ wide and perpendicular tca. | J294279 | 508.2 | 508.76 | 0.56 | 0.498 | 6.40 | 2480 | 0.25 | Core |
| 508.76 | 509.06 SHR | DIOR | Mineralized shear zone. Subparalel shear with massive suphidization along shear surface. | J294280 | 508.76 | 509.06 | 0.30 | 0.419 | 16.80 | 7720 | 0.77 | Core |
| 509.06 | 509.16 DIOR |  | Diorite. Typical |  |  |  |  |  |  |  |  |  |
| 509.16 | 509.33 ALT | DIOR | Altered diorite. Typical with 2 quartz veins at $509.25,1 \mathrm{~cm}$ wide and $509.30,1 \mathrm{~cm}$ wide; the first alt band has massive pyrite clustering along contact quartz and alt zone; contact with above and below diorite abrupt. | J294281 | 509.16 | 509.33 | 0.17 | 1.125 | 1.70 | 278 | 0.03 | Core |
| 509.33 | 510.15 DIOR |  | Diorite. Typical |  |  |  |  |  |  |  |  |  |
| 510.15 | 510.50 SHR | DIOR | Mineralized shear zone. Similar to 508.76-509.06; Shear 50 or subparalel tca; massive pyritization along shear surfaces;compact core;epidotized quart paralel tca; altered band at the bottom, 10 cm wide;pyrite dispersed in the calcite veins and at the shear surfaces | J294282 | 510.15 | 510.5 | 0.35 | 0.184 | 14.90 | 7660 | 0.77 | Core |
| 510.50 | 512.62 DIOR |  | Diorite.Typical. |  |  |  |  |  |  |  |  |  |
| 512.62 | 513.29 SHR | DIOR | Mineralized shear zone. Similar to 508.76-509.60 and 510.15-510.50 except it is massive pyritization 3 cm wide along shear paraleltca; shear is wavy, ribbony, marked by quartz/calcite/lamprophyre (dark color); also noted intensive epidotization; euhedral calcite crystals suggest secondary calcite. | J294283 | 512.62 | 513.29 | 0.67 | 0.104 | 18.20 | 1.09 | 1.09 | Core |
| 513.29 | 514.79 DIOR |  | Diorite. Typical |  |  |  |  |  |  |  |  |  |
| 514.79 | 515.05 ALT | DIOR | Altered diorite. Typical with quartz vein in the middle; this quartz vein, 1 cm wide and 45 tca is slightly sheared with lamprophyre following contact; sharp contact quartz and altered zone; gradual contact alt zone and diorite above and below. | J294284 | 514.79 | 515.05 | 0.26 | 0.105 | 1.30 | 184 | 0.02 | Core |



| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To Lith | M Lith | Lithology Notes | Sample | From | To | Interval | Aug/t | Ag PPM | Cu PPM | Cu\% | Type |
| 532.67 | 533.66 ALT | DIOR | Altered diorite. Bleached. At 533.07 quartz veinlet, 1 cm wide, 45 tca full of pyrite; at 533.14 quartz veinlet, 3 mm wide, perpendicular tca, low abundant pyrite;contact with unaltered diorite above and below gradual. | J294296 | 532.67 | 533.66 | 0.99 | 0.992 | 3.60 | 744 | 0.07 | Core |
|  |  |  |  | J294297 | 536.45 | 536.68 | 0.23 | 0.071 | 1.00 | 393 | 0.04 | Core |
| 533.66 | 536.45 DIOR |  | Diorite. Typical. |  |  |  |  |  |  |  |  |  |
| 536.45 | 536.68 ALT | DIOR | Altered diorite.Many quartz veinlets, $<2 \mathrm{~cm}$ wide, perpendicular tca; at 534.70 alt band, 8 cm wide with pyrite; patches of epidote. |  |  |  |  |  |  |  |  |  |
| 536.68 | 537.98 DIOR |  | Diorite |  |  |  |  |  |  |  |  |  |
| 537.98 | 538.18 ALT | DIOR | Altered diorite. Consists of 3 alt bands, 2 cm wide and perpendicular tca; low pyrite abundance. | J294298 | 537.98 | 538.18 | 0.20 | 0.032 | 0.60 | 183 | 0.02 | Core |
| 538.18 | 541.54 DIOR |  | Diorite. Typical. | J294299 | 538.18 | 538.18 | 0.00 | 0.486 | 3.10 | 4850 | 0.49 | CGS15 |
| 541.54 | 541.79 ALT | DIOR | Altered diorite. With 2 alt bands, perpendicular tca. | J294300 | 541.54 | 541.71 | 0.17 | 0.140 | 0.90 | 291 | 0.03 | Core |
| 541.79 | 542.71 DIOR |  | Diorite. Huge epidote patches |  |  |  |  |  |  |  |  |  |
| 542.71 | 542.85 ALT | DIOR | Altered diorite. Typical with quartz veinlet in the middle. | J294301 | 542.71 | 542.85 | 0.14 | 0.299 | 1.00 | 125 | 0.01 | Core |
| 542.85 | 546.23 DIOR |  | Diorite. With patch of epidote, 12 cm long at the bottom of the interval |  |  |  |  |  |  |  |  |  |
| 546.23 | 546.38 ALT | DIOR | Altered diorite. 2 alt bands. | J294302 | 546.23 | 546.38 | 0.15 | 0.177 | 0.40 | 76 | 0.01 | Core |
| 546.38 | 547.38 DIOR |  | Diorite. Typical. |  |  |  |  |  |  |  |  |  |
| 547.38 | 547.70 ALT | DIOR | Altered diorite. Rich in mineralization. | J294303 | 547.38 | 547.7 | 0.32 | 15.450 | 4.10 | 769 | 0.08 | Core |
| 547.70 | 548.82 DIOR |  | Diorite. Typical. |  |  |  |  |  |  |  |  |  |
| 548.82 | 549.62 SHR | DIOR | Sheared diorite. |  |  |  |  |  |  |  |  |  |
| 549.62 | 550.00 DIOR |  | Diorite. Few mini quartz veins; no pyrite. |  |  |  |  |  |  |  |  |  |
| 550.00 | 550.27 ALT | DIOR | Altered diorite. With 2 alt bands with quartc veinlet in the middle; neclece of pyrite along quartz contact. | J294304 | 550 | 550.27 | 0.27 | 0.275 | 0.60 | 123 | 0.01 | Core |
| 550.27 | 554.20 DIOR |  | Diorite. Equigranular; coarse grained; quartz veins $40-50$ tca, few mm wide,; no mineralization; silification/epidotization in patches. |  |  |  |  |  |  |  |  |  |
| 554.20 | 554.32 ALT | DIOR | Altered diorite. Typical with quartz veinlets in the middle and pyrite along the quartz contact. | J294305 | 554.2 | 554.32 | 0.12 | 0.165 | 1.70 | 753 | 0.08 | Core |



| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To ${ }^{\text {Tith }}$ | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 569.70 | 569.85 QMV |  | Mineralized quartz vein. Loaded with pyrope/chalco; mixed with diorite. | J294319 | 569.7 | 569.85 | 0.15 | 31.700 | 24.70 | 1135 | 0.11 | Core |
| 569.85 | 570.05 ALT | DIOR | Altered diorite. Shoulder below quartz vein. | J294320 | 569.85 | 570.05 | 0.20 | 0.021 | 0.70 | 94 | 0.01 | Core |
| 570.05 | 570.83 DIOR | Diorite. With few short alt bands 60tca. |  |  |  |  |  |  |  |  |  |  |
| 570.83 | 571.07 ALT | DIOR | Altered diorite. Shoulder above quartz vein; very gradual transition from above unbleached to this bleached interval; disseminated pyrite. | J294321 | 570.83 | 571.07 | 0.24 | 0.208 | 1.50 | 209 | 0.02 | Core |
| 571.07 | 571.18 QMV |  | Mineralized quartz vein.. 80tca; mixed with diorite; contact with above and below alt diorite unclear; full of chalco and pyrite in the equal amounta; high mineralization. | $\begin{aligned} & \hline J 294322 \\ & \text { J294323 } \end{aligned}$ | $\begin{aligned} & 571.07 \\ & 571.07 \end{aligned}$ | $\begin{aligned} & 571.07 \\ & 571.18 \end{aligned}$ | $\begin{aligned} & 0.00 \\ & 0.11 \end{aligned}$ | $\begin{aligned} & \hline 0.449 \\ & 4.830 \end{aligned}$ | $\begin{aligned} & 1.30 \\ & 7.30 \end{aligned}$ | $\begin{aligned} & \hline 5700 \\ & 1270 \end{aligned}$ | $\begin{aligned} & \hline 0.57 \\ & 0.13 \end{aligned}$ | $\begin{aligned} & \text { CM3 } \\ & \text { Core } \end{aligned}$ |
| 571.18 | 571.38 ALT | DIOR | Altered diorite. Shoulder below; less bleached than above shoulder; disseminated pyrite; contact with quartz vein dissolved. Low mineralization abundance. | J294324 | 571.18 | 571.38 | 0.20 | 2.380 | 1.90 | 575 | 0.06 | Core |
| 571.38 | 571.83 ALT | DIOR | Altered diorite. One more shoulder below further down from the quartz vein; could be another alt interval with thin quartz veinlets in the middle of this interval; low mineralization. | J294325 | 571.38 | 571.83 | 0.45 | 0.035 | 0.10 | 96 | 0.01 | Core |
| 571.83 | 573.02 FOL | DIOR | Foliated diorite. Slightly foliated at 45tca; compact |  |  |  |  |  |  |  |  |  |
| 573.02 | 575.82 DIOR | Diorite. Typical |  |  |  |  |  |  |  |  |  |  |
| 575.82 | 575.98 ALT | DIOR | Altered diorite. Typical with quartz vei in the middle and low mineralization. | J294326 | 575.82 | 575.93 | 0.11 | 0.143 | 0.30 | 168 | 0.02 | Core |
| 575.98 | 579.66 DIOR | Diorite. Typical. |  |  |  |  |  |  |  |  |  |  |
| 579.66 | 579.92 DIOR | QMV | Mineralized diorite.Similar to 492.31-493.32. No bleaching or alteration; equigranular diorite with 0.5 cm wide white quartz band at 579.68 ; patches of pyrite found along quartz and through unaltered diorite; mineralization appears in patches or as disseminated. | J294327 | 579.66 | 579.92 | 0.26 | 0.028 | 1.00 | 762 | 0.08 | Core |
| 579.92 | 580.99 DIOR | Diorite. Few alt bands $<1 \mathrm{~cm}$ wide. |  |  |  |  |  |  |  |  |  |  |
| 580.99 | 581.21 ALT | DIOR | Altered diorite. Typical with quartz vein in the middle but this interval has network of quartz veinlets instead of one compact vein; contact between alt zone and quartz veinlets zone dissolved; gradual transition and bleaching from alterd to unalterd diorite; quartz veinlets loaded with chalco/pyrite/galena. High abundance of sulphide. | J294328 | 580.99 | 581.21 | 0.22 | 0.244 | 1.60 | 1075 | 0.11 | Core |
| 581.21 | 585.23 FOL | DIOR | Foliated diorite. Foliation paralel tca; comapct intercal;discoloration through the intervalslight silicification. |  |  |  |  |  |  |  |  |  |
| 585.23 | 594.86 LAMP |  | Lamprophyre. Dark colored with porphyritic almost lapillitic texture typical for volcanic rocks; fine grained matrix with white lapilis??; calcite is in the center of the lapilli? coated whith black material; phlogopite in matrix; disseminated pyrite in low abundance; at 586.22 clayish material, 10 cm long, probably due to alteration and shear; completely dissentigrated; at 588.84-589.37 heavily altered and bleached lamprophyre due to numerous quartz veinlets network, dissentigrated; at 591.70-591.96 dissentigrated, clayish, altered and bleached interval. |  |  |  |  |  |  |  |  |  |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To Lith | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 594.86 597.61 FOL DIOR Foliated diorite. Foliation paralel tca; slightly sheared and fractured; bullock quartz. |  |  |  |  |  |  |  |  |  |  |  |  |
| 597.61 | 597.81 ALT | DIOR | Altered diorite. Typical with 3mm quartz vein in the middle. Pyrite along quartz and disseminated in alt zone. | J294329 | 597.61 | 597.81 | 0.20 | 1.285 | 1.80 | 843 | 0.08 | Core |
| 597.81 | 602.27 DIOR |  | Diorite. Few quartz bands perpendicular tca. |  |  |  |  |  |  |  |  |  |
| 602.27 | 602.70 ALT | DIOR | Altered and sheared diorite. Quartz vein in the middle with pyrite; slightly bleached and slifhtly sheared. | J294330 | 602.27 | 602.7 | 0.43 | 0.060 | 0.90 | 882 | 0.09 | Core |
| 602.70 | 606.85 DIOR |  | Diorite. Typical |  |  |  |  |  |  |  |  |  |
| 606.85 | 608.75 SHR | DIOR | Sheared diorite. Shear at 40-50tca or subparalel tca; bottom part, last 40 cm fragmented due to strong shear; clay material along shear surface; short alt bands perpendicular tca; oxidized along shear. |  |  |  |  |  |  |  |  |  |
| 608.75 | 609.90 DIOR |  | Diorite. Compact; intersected with thiny quartz/calcite veinlets in all directions. |  |  |  |  |  |  |  |  |  |
| 609.90 | 610.30 LAMP | KALT | Altered lamprophyre. Intruded clayish material 50tca; light green color; probably completely altered and disentigrated lamprophyre. |  |  |  |  |  |  |  |  |  |
| 610.30 | 612.45 BZ | DIOR | Disentigrated and fragile diorite. Light green color; fragmented; very fragile; probably very altered. |  |  |  |  |  |  |  |  |  |
| 612.45 | 618.85 QCFV | DIOR | Oxidized diorite. The same as 610.30-612.45 but completely oxidized ; reddish color; fragile; fragmented. |  |  |  |  |  |  |  |  |  |
| 618.85 | 619.35 DIOR | EALT | Diorite. Altered but compact; slightly greenish color; probably heavily epidotized. |  |  |  |  |  |  |  |  |  |
| 619.35 | 619.36 |  | END OF THE CORE at 619.35 |  |  |  |  |  |  |  |  |  |


| Hole ID | KE10-18 |  | Drilling | Started |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| East | 472372 |  |  | Finished |  |  |
| North | 5479250 |  | Logging | Logged by | T.Schoettler |  |
| Elevation | 1090 |  | Sampling | Total |  |  |
| Grid | UTM-Nad83 |  |  | Sequence |  |  |
| Location | Kenville East |  |  |  |  |  |
| Pad | 10 |  |  |  | *hole abandoned in overburden |  |
| Az | 270 |  |  |  |  |  |
| Dip | -60 |  |  |  |  |  |
| Size | NQ2 |  |  |  |  |  |
| EOH | 101.50 |  |  |  |  |  |
| Interval |  | Nested interval |  |  |  |  |
| from | to | from | to | Overview | Comments | Sample \# |
| 0 | 10 |  |  |  | Casing, no recovery |  |
| 10 | 101.5 |  |  |  | Casing, very limited recovery, >50\% lost core. Overburden: Mix of muddy - silty - sandy - gravely, earthy material and gravely boulder sized granitoid material approx at 50:50 ratio. Granitoid material comprises predomiantly dioritic, non- to moderately magnetic, partially altered intrusive, +/- reminiscent to diorite described at KE10-16 and KE10-17. Rarely < 30cm rock pieces. Over the last approx 5 m portions of the material are weathered to highly incompetent, presumably highly clay mineral bearing, discretely relict intrusive textured (medium grained diorite), pale - dirty olive green grey substance, seperated by predominantly medium - coarse sandy seams and/ or grading to medium - coarse sandy seams, which may be interpreted as incipient, weathered bedrock? Hole abandoned due to technical problems accessing bedrock. EOH at 101.5 m . |  |
| EOH |  |  |  |  |  |  |


| HOLE ID | AZIMUTH | DIP | LENGTH | COORDINATES |  | SHORTLOG | LOG COMPLETE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| KE10-17 | 270 | -74 | 387.92 | EASTINGS: | 472336 | Tobias | 08/12/2010 |
|  |  |  |  | NORTHINGS: | 5479452 |  |  |
|  | Drilling |  |  |  |  | DETAILLOG | DATUM |
| AREA | Started: | 29/11/2010 | CORE SIZE | SECTION |  | Tobias | Nad83 Zone 11 |
| Kenville SE | Finished: | 01/12/2010 | NQ | S16 |  |  | SAMPLER |
|  |  |  |  |  |  |  | Tobias |

HOLE ID KE10-17
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| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 48.95 | 48.98 QCV |  | Tourmaline Qz veining - Approx 2 cm wide, predominantly turmaline comprising, +/- calcite bearing (few mm wide calcite seams along UC and LC @ 70 deg to CA) black and white vein. Locally both calcite and turmaline are bleeding out into host rock over few cm . |  |  |  |  |  |  |  |  |  |
| 48.98 | 49.62 DIOR |  | Diorite - Undifferenciated as above 32-387.92m - large unit- still in pev rusty coloured- |  |  |  |  |  |  |  |  |  |
| 49.62 | 49.67 BZ |  | Broken core. As far as detectable quartz-, calcite veining bears few, < 5 mm , rusty sulphide clots? |  |  |  |  |  |  |  |  |  |
| 49.67 | 49.71 DIOR |  | Diorite as above |  |  |  |  |  |  |  |  |  |
| 49.71 | 49.73 QCV |  | 1.5 cm white quartz vein bears 2 mm calcite seam along UC (@ 75 deg to CA ) and few mm turmaline seam along LC, grading to massive turmaline vein steep to CA. |  |  |  |  |  |  |  |  |  |
| 49.73 | 50.30 DIOR |  | Dirorite as above | J294144 | 50.26 | 50.55 | 0.29 | 0.100 | 1.40 | 2570 | 0.26 | Core |
| 50.30 | 50.50 QMV |  | Mineralized QV ; +/- broken core: Two veins in this intercept: The upper one can only be described as strongly rusty, quartz bearing, highly calcareous, relict sulphide- and weakly malachite bearing due to core fracturing and weathering. The lower one is an approx 5 cm wide?, dirty pale quartz vein, that bears a < 2cm chalcopyrite clot. Vein is only clipped, not pierced by drill? or patchy vein? |  |  |  |  |  |  |  |  |  |
| 50.50 | 59.00 DIOR |  | Diorite as above | J294145 | 58.68 | 59 | 0.32 | 0.025 | 0.10 | 28 | 0.00 | Core |
| 59.00 | 59.47 QCFV |  | Tourmalinized w minz vein - Moderately broken core: Very dirty appearing, zoned quartz-, turmaline-, +/- calcite vein @ steep angle to CA? Quartz (vuggy - foamy over approx 8cm near UC) and turmaline alternate and establish < cm to > dm wide, very crude - irregular bands/ zones @ 55 deg to CA. Calcite predomiantly as hairlines, also +/- @ 55 deg to CA. Weak moderate rusty stain. Trace malachite specks. Underlying diorite is bleached over several dm. | J294146 | 59 | 59.47 | 0.47 | 0.180 | 3.40 | 1855 | 0.19 | Core |
| 59.47 | 60.07 DIOR |  | Diorite as above | $\begin{aligned} & \hline \text { J294147 } \\ & \text { J294148 } \end{aligned}$ | $\begin{array}{r} \hline 59.47 \\ 59.8 \end{array}$ | $\begin{array}{r} 59.8 \\ 60.24 \end{array}$ | $\begin{aligned} & \hline 0.33 \\ & 0.44 \end{aligned}$ | $\begin{aligned} & 0.480 \\ & 0.370 \end{aligned}$ | $\begin{aligned} & 1.20 \\ & 2.40 \end{aligned}$ | $\begin{aligned} & \hline 240 \\ & 933 \end{aligned}$ | $\begin{aligned} & \hline 0.02 \\ & 0.09 \end{aligned}$ | Core <br> Core |
| 60.07 | 60.17 QCFV |  | Relict, strongly weathered (grading to earthy - sandy - fine gravely) vein. Near LC strongly rusty coloured, foamy quartz patch with pinching and swelling, approx cm scale, inconsistant turmaline seam, orientated steep to CA? |  |  |  |  |  |  |  |  |  |
| 60.17 | 63.64 DIOR |  | Diorite as above |  |  |  |  |  |  |  |  |  |
| 63.64 | 63.74 QCFV |  | Rusty coloured, clayey, soft, 5 mm wide seam (weathered vein, clay mineral? and ilmenite? bearing) @ 25 deg to CA, hosted by +/- rusty stained (patchy) diorite. |  |  |  |  |  |  |  |  |  |
| 63.74 | 64.00 DIOR |  | Diorite as above |  |  |  |  |  |  |  |  |  |
| 64.00 | 64.20 QCFV |  | Pale, irregular, patchy, +/- vuggy, +/- quartz-, +/- calcite veining associated with rusty stain of hosting diorite. |  |  |  |  |  |  |  |  |  |
| 64.20 | 64.40 DIOR |  | Diorite as above |  |  |  |  |  |  |  |  |  |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To ${ }^{\text {To }}$ Lith | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 64.40 | 64.70 QCFV | Reminiscent to 64-64,2. |  |  |  |  |  |  |  |  |  |  |
| 64.70 | 67.38 DIOR |  | Diorite as above |  |  |  |  |  |  |  |  |  |
| 67.38 | 67.39 QMV | QCFV | Pale, weakly rusty coloured, cm scale quartz vein @ steep angle to CA bears few, scattered pyrite specks and < 5 mm clots. Vein is enveloped by bleached halo from 67,34-67,43 (soft, non magnetic, weakly pyrite bearing ( dissemianted - speckled and one inconsitant pyrite hairline subvertical to CA). |  |  |  |  |  |  |  |  |  |
| 67.39 | 81.50 DIOR |  | Diorite as above |  |  |  |  |  |  |  |  |  |
| 81.50 | 81.55 QMV | QCV | Veinlet - Minz - Carb - Dirty white, weakly pinkish (hematite?), calcareous veinlet @ 30 deg to CA bears $<\mathrm{cm}$, anhedral chalcopyrite clots |  |  |  |  |  |  |  |  |  |
| 81.55 | 82.14 DIOR |  | Diorite as above | J294149 | 81.82 | 82.46 | 0.64 | 0.780 | 2.10 | 567 | 0.06 | Core |
| 82.14 | 82.24 QV | QCFV | Broken core. Pale - white - weakly dirty - locally weakly rusty - locally pinkish tinted (Kfeldspar?), cm - 5cm scale, sheeted quartz-, +/- very minor calcite veins are seperated by < cm - few cm wide host rock intercepts. Minor speckled - hairline (subparallel to vein orientation @ steep angle to CA) pyrite in a portion of the veins. Albite is associated with assumed K-feldspar? Veining is enveloped by bleached halo (soft, partially non magnetic, weakly dissemianted - speckled pyrite bearing, rusty coloured patches bearing) from 81.77 82.85 m . Over 10 cm this halo displays a discrete foliation @ approx 35 deg to CA. The bleached intercept hosts few (4) more (amounting to weak - moderate) approx cm scale, pale quartz veins @ steep angle to CA, that bear minor - moderate, variably anhedral - euhedral pyrite specks and < few cm clots, that locally grade to inconsitant bands (establishing zoning). |  |  |  |  |  |  |  |  |  |
| 82.24 | 87.30 DIOR |  | Diorite as above |  |  |  |  |  |  |  |  |  |
| 87.30 | 87.75 FOL | QCV | Approx $2,5 \mathrm{~cm}$ wide band (moderately - strongly magnetic, fine grained) orientated subparallel to CA displays prominent foliation subparallel to CA and is sandwiched betweeen medium grained diorite. At approx 87.3 m a cm scale calcite seam (vein?) is aligned to foliation?/ banding?. To be interpreted as flow banding?/ priamry texture?/ foliation?/ secundary texture? |  |  |  |  |  |  |  |  |  |
| 87.75 | 89.04 DIOR |  | Diorite as above |  |  |  |  |  |  |  |  |  |
| 89.04 | 89.07 BZ |  | Broken core. Remnants of a dirty white quartz vein @ steep angle to CA? Vein is enveloped by bleached diorite (priamry textures obliterated) from 88.7-89.35m. |  |  |  |  |  |  |  |  |  |
| 89.07 | 89.35 DIOR |  | Diorite |  |  |  |  |  |  |  |  |  |
| 89.35 | 89.55 FOL | QMV | Reminiscent to/ same as? 87.3 - 87.75 m , but cut @ a different angle? and resulting in 20cm swirl texture. Associated with a prominently clacareous and trace malachite bearing outer seam. |  |  |  |  |  |  |  |  |  |
| 89.55 | 93.90 DIOR |  | Diorite - getting cclose to base of rusty ox zone |  |  |  |  |  |  |  |  |  |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {To }}$ Lith | M Lith | Lithology Notes | Sample | From | To | Interval | Aug/t | Ag PPM | Cu PPM | Cu\% | Type |
| 93.90 | 93.91 QMV |  | Mineralized QV - Pale dirty, approx cm wide, minor turmaline- and minor malachite specks bearing quartz vein @ 50 deg to CA. |  |  |  |  |  |  |  |  |  |
| 94.89 | 94.91 QCV |  | Turmaline-, +/- calcite vein @ steep angle to CA. |  |  |  |  |  |  |  |  |  |
| 94.91 | 96.65 DIOR |  | Diorite |  |  |  |  |  |  |  |  |  |
| 96.65 | 96.95 QMV |  | Mineralized QV -White - rusty - locally weakly pinkish, approx cm wide, highly vuggy (< several cm sized cavities, unknown amount of pyrite bearing (locally mm scale euhedral pyrite crystals growing into open spaces), minor chalcopyrite bearing, sheeted quartz-, calcite veins @ 50 deg to CA. Fresh appearing hosting diorite bears trace wispy - hairline sulphides (pyrite and chalcopyrite) near UC. | J294150 | 96.6 | 96.95 | 0.35 | 0.100 | 1.70 | 2700 | 0.27 | Core |
| 96.95 | 99.10 DIOR |  | Diorite |  |  |  |  |  |  |  |  |  |
| 99.10 | 99.30 QMV |  | Mineralized QV - Indistinct, indiscript, pale coloured and minor speckled - wispy malachite bearing quartz?/ feldspar? and locally clacite bearing patchy appearing veinlet (due to being cut @ oblique angle). Locally vuggy and associated with dirty appearing hairline/ veinlet subparallel to CA. "Lost water here?" |  |  |  |  |  |  |  |  |  |
| 99.30 | 99.77 DIOR |  | Diorite | J294151 | 99.67 | 99.97 | 0.30 | 0.025 | 0.20 | 78 | 0.01 | Core |
| 99.77 | 99.82 QCV |  | Tourmaline QV - cm - 5 cm , black and white, anastomosing, banded/ zoned quartz-, turmaline, calcite veining approx @ 70 deg to CA. Contacts are partially poorly defined/ blurry, grading to relict dioritic texture, indicating +/- alteration (flooding) to be associated with veining? Sample J294151 includes cm wide, reminiscent, quartz-, calcite-, turmaline vein at 99.94m @ 70 deg to CA. |  |  |  |  |  |  |  |  |  |
| 99.82 | 100.63 DIOR |  | Diorite | J294152 | 100.62 | 100.82 | 0.20 | 0.025 | 0.20 | 170 | 0.02 | Core |
| 100.63 | 100.70 QMV |  | White - weakly dirty - weakly rusty, quartz vein. Orientation unknown (broken core) bears > cm , rusty pyrite clot and trace malachite specks. Vein is enveloped by weakly bleached, \%range dissemianted - speckled pyrite bearing halo from 100.45-100.76m. |  |  |  |  |  |  |  |  |  |
| 100.70 | 100.75 QCV |  | QZ carb vein - White - moderately dirty, 5cm quartz vein @ 70 deg to CA bears several cm sized, irregualr, weakly calcareous turmaline patch. |  |  |  |  |  |  |  |  |  |
| 100.75 | 104.10 DIOR |  | Diorite | J294153 | 103.5 | 103.75 | 0.25 | 0.540 | 0.90 | 111 | 0.01 | Core |
| 104.10 | 104.35 QMV |  | 2 veins, $<2 \mathrm{~cm}$, predomiantly turmaline bearing (approx cm wide turmaline band/ zone establishes center of veins) @ 45 deg to CA. The upper vein bears an elongate (aligned to vein contacts/ vein zoning), < cm wide, pyrite-, chalcopyrite clot embedded in turmaline. | J294154 | 104.06 | 104.38 | 0.32 | 0.170 | 2.90 | 2960 | 0.30 | Core |
| 104.35 | 107.85 ALT | DIOR | Meterage is approximate because of indistinct feature: Diorite and veins hosted by diorite +/bear trace - minor K-feldspar resulting in faint - weak, pinkish tint? |  |  |  |  |  |  |  |  |  |
| 107.85 | 107.91 QCV |  | QZ carb vein- Poorly defined, weakly pinkish tinted, prominently zoned/ banded turmaline ( 1.5 cm band/ zone establishes center of vein), quartz-, +/- calcite-, +/- K-feldspar baring vein @ steep angle to CA |  |  |  |  |  |  |  |  |  |


|  |  |  |  |  | Lithology | Assays |  |  |  |  |  |  |  |  |
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| From | To | Lith | M Lith | Lithology Notes |  | Sample | From | To | Interval | Aug/t | Ag PPM | Cu PPM | Cu\% | Type |


| 107.91 | 108.73 ALT | DIOR | Meterage is approximate because of indistinct feature: Diorite and veins hosted by diorite +/bear trace - minor K-feldspar resulting in faint - weak, pinkish tint? | J294155 | 108.6 | 108.9 | 0.30 | 0.025 | 0.10 | 170 | 0.02 | Core |
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| 108.73 | 108.78 QCV | DIOR | Toumaline QV - Very remiscent to $107.87-107.91 \mathrm{~m}$ bears a 2.5 cm wide turmaline band/ zone establishing the center of the vein. |  |  |  |  |  |  |  |  |  |
| 108.78 | 109.36 DIOR |  | Diorite |  |  |  |  |  |  |  |  |  |
| 109.36 | 109.58 QMV |  | Indistinct and indiscript, approx 2 cm scale, pale - rusty, malachite bearing, +/- vuggy bands/ veins @ 25 deg to CA. Reminiscent to 99.1 - 99.3 m . |  |  |  |  |  |  |  |  |  |
| 109.58 | 113.50 DIOR |  | Diorite |  |  |  |  |  |  |  |  |  |
| 113.50 | 118.00 EALT | DIOR | Meterage is approximate. Trace - minor epidote disseminated in diorite and as disseminated vein constituent. |  |  |  |  |  |  |  |  |  |
| 118.00 | 123.30 DIOR |  | Diorite |  |  |  |  |  |  |  |  |  |
| 123.30 | 126.30 FLT |  | Fault zone?: Moderately - strongly fractured core grading to dm wide silty - fine gravely gouge seam at 126m. |  |  |  |  |  |  |  |  |  |
| 126.30 | 130.00 DIOR |  | Diorite |  |  |  |  |  |  |  |  |  |
| 130.00 | 137.00 EALT | DIOR | Weakly yellow tint of feldspar grains/ crystals is interpreted as weak epidote/ saussuritation? Few discretely foliated patches/ small subsections (foliation @ shallow angle to approx 45 deg to CA) +/- reminiscent to $87.3-87.75 \mathrm{~m}$ ? |  |  |  |  |  |  |  |  |  |
| 137.00 | 139.20 CALT | DIOR | Abrupt change to predomiantly medium grey and fine grained, dense, +/- massive and aphanitic texture. Patches and subsections with weak expression of relict diorite texture suggests alteration as cause for textural change? Moderate magnetism and hardness are reminiscent to overlying and underlying diorite; calcite content appears to be significantly higher. |  |  |  |  |  |  |  |  |  |
| 139.20 | 140.70 ALT | DIOR | Abrupt change to pale dirty greenish grey colour, associated with calcite decreasing to none. LC: Broken core, incipient diorite texture. |  |  |  |  |  |  |  |  |  |
| 140.70 | 146.15 DIOR |  | Diorite |  |  |  |  |  |  |  |  |  |
| 146.15 | 150.52 KALT | DIOR | Meterage is approximate. Weak, pinkish tint suggests faint - weak K-feldspar content? Partially weakly pinkish tinted veins/ veinlets suggest alteration as cause for the K-feldspar content? rather than primary K-feldspar? Associated with partial obliteration of primary textures: Patches and up to $>\mathrm{m}$ wide subsections. Magnetism remains uneffected (moderate), calcite is +/- increased (and patchy). Features are +/- cryptic and indiscript. | J294156 | 150.43 | 150.73 | 0.30 | 0.850 | 0.60 | 193 | 0.02 | Core |

150.52 150.53 QMV Pale - dirty light grey, cm wide, zoned quartz-, pyrite vein (approx 3mm wide, inconsistant, Pale - dirty light grey, cm wide, zoned quartz-, pyrite vein (approx 3 mm wide, inconsistant,
pinching and swelling, undulating pyrite stringer/ zone $+/-$ near center of vein) is embedded in pinching and swelling, undulating pyrite stringer/ zone + /- near center of vein) is embedded in modere veinls with variable orientation from pprox $150-151.7 \mathrm{~m}$. Minor disceminated speckled pyrite is detectable from $150.4-151.2 \mathrm{~m}$ and preferrably associated with the chlorite.

| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To ${ }^{\text {L }}$ Lith | M Lith | Lithology Notes | Sample | From | To | Interval | Aug/t | Ag PPM | Cu PPM | Cu\% | Type |
| +/- weak - moderate, patchy silicifcation? . It remains undetermined, if and how these features are gentically related to the features (especially the alleged K-feldspar, calcite and bleaching) described at 146.15-156. |  |  |  |  |  |  |  |  |  |  |  |  |
| 150.53 | 156.00 KALT | DIOR | Meterage is approximate. Weak, pinkish tint suggests faint - weak K-feldspar content? Partially weakly pinkish tinted veins/ veinlets suggest alteration as cause for the K-feldspar content? rather than primary K-feldspar? Associated with partial obliteration of primary textures: Patches and up to $>\mathrm{m}$ wide subsections. Magnetism remains uneffected (moderate), calcite is +/- increased (and patchy). Features are +/- cryptic and indiscript. |  |  |  |  |  |  |  |  |  |
| 156.00 | 164.00 DIOR |  | Diorite |  |  |  |  |  |  |  |  |  |
| 164.00 | 184.43 EALT | DIOR | Meterage is approximate, feature(s) are indistinct: The majority of this weakly veined diorite displays a weak - partially moderate, light green (pistacio green) - yellowish tint of its plagioclase crystals/ grains, interpreted as faint - weak epidote/ saussuritation. Also epidote locally detectable as constitutent of veining. Locally (patches, sections) a weak, pinkish reddish tint (reddish tinted veins as well as reddish tinted dioritic host) indicate very weak Kfeldspar? and/ or hematite? Both epidote and K-feldspar are preferrably associated with quartz (in contrary to the more common, calcareous vein material) in case they are detectable as predomaintly trace - minor vein constitutent. |  |  |  |  |  |  |  |  |  |
| 184.43 | 184.44 QMV |  | cm wide, porly defined, blurry, pale - pinkish - light grey quartz-, +/- minor epidote, +/- trace Kfeldspar? (dissemianted?), +/- trace hematite? (red specks?) vein @ 50 deg to CA. |  |  |  |  |  |  |  |  |  |
| 184.44 | 186.90 EALT | DIOR | as 164-184.44 |  |  |  |  |  |  |  |  |  |
| 186.90 | 187.50 QMV | KALT | Intercept bears five, $\mathrm{cm}-2 \mathrm{~cm}$ scale, poorly defined, blurry, pale - pinkish - light grey, quartz-, +/- calcite-, +/- trace - minor epidote, +/- trace - minor K-feldspar?, +/- trace - minor hematite?, +/- trace turmaline, +/- minor sulphides (chalcopyrite is identifiable: Specks grade to $<\mathrm{cm}$ clots) bearing, variably orientated ( 50 deg - steep to CA) veins amounting to weak moderate. |  |  |  |  |  |  |  |  |  |
| 187.50 | 188.62 EALT | DIOR | as 164-184.44 |  |  |  |  |  |  |  |  |  |
| 188.62 | 188.64 QV |  | 2 cm wide,predomiantly quartz bearing vein, reminiscent to " 184.43 - 184.44m" and "186.9187.5 m ". is orientated steep to CA. No sulphides dietected. |  |  |  |  |  |  |  |  |  |
| 188.64 | 191.54 EALT | DIOR | as 164-184.44 | J294157 | 191.38 | 191.7 | 0.32 | 0.240 | 0.70 | 70 | 0.01 | Core |
| 191.54 | 191.57 QMV |  | White, quartz-, +/- calcite vein bears unknown, grey, < cm inclusions and anhedral subhedral, <cm pyrite clots (amounting to approx $5 \%$ ) and minor, wispy chlorite. Steep oprientation to CA. Poorly developed bleached halo from approx 191.4-191.7m. |  |  |  |  |  |  |  |  |  |
| 191.57 | 207.32 EALT | DIOR | as 164-184.44 |  |  |  |  |  |  |  |  |  |
| 207.32 | 209.93 FOL | CALT | Prominently foliated @ 20 deg to CA, elevated calcite content. UC and LC: Abrupt changes. | J294158 | 209.74 | 210.31 | 0.57 | 1.380 | 1.30 | 169 | 0.02 | Core |
| 209.93 | 209.97 QCV | KALT | 3 cm wide, white calcite vein @ 60 deg to CA is enveloped by bleached halo, that bears approx $2 \%$ speckled, partially euhedral pyrite, locally grading to mm wide pyrite wisps and few mm |  |  |  |  |  |  |  |  |  |


| Lithology |  |  |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To | Lith | M Lith | Lithology Notes |  | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |


| 209.97 | 211.00 DIOR |  | Diorite |  |  |  |  |  |  |  |  |  |
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| 211.00 | 214.00 FOL | QCV | Variably textured intercept: Large portions of the material are prominently foliated @ 40-60 deg to CA, grading to dm scale, softer, pale grey bleached patches with primary textures completely obliterated. Calcite bearing patches. Particularly near UC pale - dirty, +/- zoned, variably orientated (preferrably @ approx 45 deg to CA) veinlets of unknown composition (presuambly 2 veinlet generations/ types of differing composition?) $+/$ - enveloped by few cm wide, pale bleached halos. At $212.4-212.5$ and $213.8 \mathrm{~m} \mathrm{~cm}-$ few cm wide, poorly defined, blurry, +/- inconsistant, pale - pinkish - dirty light grey, predomiantly quartz bearing (+/- Kfledspar and/ or hematite bearing?) veins @ 40 deg to CA, very reminiscent to veins described at $184.43-184.44 ; 186.9-187.5 ; 188.62-188.64 \mathrm{~m}$. At $213-213.1 \mathrm{~m}$ : Blebby - patchy inconsistant, pale - weakly reddish tinted, predominantly quartz- and calcite bearing veining is prominently truncated along hairline @ 20 deg to CA (few cm offset), associated with wispy chlorite and minor, speckled - wispy pyrite. Enveloped by medium green grey (chlorite) halo from 212.9-213.3 with primary textures obliterated and locally minor - speckled - wispy pyrite. |  |  |  |  |  |  |  |  |  |
| 214.00 | 215.57 DIOR |  | Diorite | J294159 | 215.45 | 215.8 | 0.35 | 1.010 | 34.90 | 9999 | 4.14 | Core |
| 215.57 | 215.80 FOL | CALT | Blebby quartz grades to pale - weakly reddish tinted (trace K-fledspar?) quartz-, carbonate veining associated with wispy chalcopyrite grading to chalcopyrite clots and predomaintly chalcopyrite patches. Large portions of the underlying material to approx 217.75 m with primary textures +/- obliterated by bleaching/ alteration (patchy - sections: +/- dirty olive green grey, associated with elevated, patchy, weak - moderate calcite, +/- minor chlorite [altered mafics, hairlines, wisps]) and few dm, intercalation of relict dioritic and prominently foliated (@ $40-50$ deg to CA) material. \%-range speckled - wispy pyrite (locally trace chalcopyrite) from 215.45 approx 216.35 m . Scattered, < few cm epidotic patches from 214 -218.2m. |  |  |  |  |  |  |  |  |  |
| 215.80 | 219.70 ALT | DIOR | Alt diorite - Primary textures are +/- obliterated to dirty medium grey and discretely foliated @ 35 deg to CA. | J294160 | 215.8 | 216.33 | 0.53 | 0.025 | 0.40 | 301 | 0.03 | Core |
| 219.70 | 224.80 DIOR |  | Diorite |  |  |  |  |  |  |  |  |  |

224.80 228.80 KALT DIOR Bleaching alteration-Very reminscent to material underlying veining at $215.75-215.8 \mathrm{~m}$ : Up to approx $m$ wide sections and patches with primary textures completely obliterated by weakly moderately calcite bearing alteration/ bleaching to medium - light grey and +/- dense, massive and aphanitic texture. Locally associated with sheeted, chlorite bearing hairlines and veinlets @ 40-45 deg to CA and trace - minor speckled - wispy chlorite. UC: Abrupt, assocaited with moderately fractured core over approx 20 cm . LC: Abrupt, sharp, distinct, approx 45 deg to CA.
$228.80 \quad$ 230.00 DIOR Diorite
230.00 232.00 CALT DIOR Patchy calcite bearing alteration results in obliteration or primary textures, medium grey colour, +/- massive - weakly mottled (relict diorite textures) appearance. Minor wispy chlorite (see 224.8-228.8m).

| Lithology |  |  |  |  |  | Assays |  |  |  |  |  |  |  |  |
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| From | To | Lith | M Lith | Lithology Notes |  | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| 232.6 | 233.67 DIOR |  | Diorite |  |  | J294161 | 233.48 | 233.85 | 0.37 | 0.170 | 2.80 | 1685 | 0.17 | Core |

233.67 233.70 QMV White - dirty, 3 cm wide, few pinkish patches bearing (indicating minor K-feldspar?), minor chlorite stringer bearing (wispy - mm scale, inconsistant and +/- aligned to vein contacts @ 60 deg to CA), +-- vuggy (few, < cm fluid cavities) weakly chalcopyrite bearing (wispy, specks and clot growing into fluid cavity) quartz vein. UC is associated with obliteration of primary textures and foliation subparallel to vein over few cm . LC associated with broken core, few cm wide K-feldspar alteration and chlorite stringer grading to few mm veinlets @ shallow angle to CA. Underlain by medium grey, finely foliated material over few cm , reminiscent to UC. Traceminor, speckled - wispy chalcopyrite detectable from approx $233.5-233.67 \mathrm{~m}$.

| 233.70 | 235.00 DIOR $\quad$ Diorite |
| :--- | :--- | :--- |

 contorted, +/- inconsistant, +/- patchy, +/- planar, < mm - cm scale calcite-, quartz veining amounts to moderate; weak crackle brecciation. At 238.6-238.61m a cm wide quartz vein @ steep angle to CA enveloped by bleached, weakly speckled - hairline pyrite bearing halo from 238.5 - 238.7m. Foliated (@ 35 deg to CA) patch.
241.80 257.00 FOL ALT Fol alteration - Portions of the material (patches - <m subsections) are prominently foliated @ 40 deg to CA (as described before) One approx 70 cm wide subsection, + - dense, $+/-$ massive, fine grained, +/- aphanitic appearance, presumably as a result of alteration. +/ moderately fractured core.

FOL Moderately - strongly fractured core. Preferred orientation of fracture plane is shallow subparallel to CA. Prominently foliated material (foliation @ subparallel orientation to CA) grades to fine grained and medium grey appearance (smeared out grains/ cystals?)
Moderately magnetic. Locally contact (@ subparallel orientation to CA) to medium grained diorite is detectable. Very reminscent to 87.3-87.75m. Locally + /- weakly pinkish tinted (K eldspar?), predominantly white - pale calcite-, quartz veins (granular - blebby - nodular rregualr quartz is embedded in calcite) are orientated subparallel to CA and are clipped by drill string resulting in dirty, irregualr vein patches (only few mm thickness in core, true thickness unknown) locally displayed. Vein material is weakly - moderately chalcopyrite bearing ( $<5 \mathrm{~mm}$, rarely $>\mathrm{cm}$, irregular specks). Not sampled due to low/ non representative volume of relevant vein material.

| 258.90 | 263.50 DIOR | Diorite |
| :--- | :--- | :--- |

$263.50 \quad 268.00 \mathrm{BZ}$
Fracturing +/- moderately, locally strongly fractured core.
268.00 268.55 DIOR

Diorite
268.55 268.56 QV ALT 1 cm Qz vein + alt - White, < cm wide quartz vein is enveloped by weakly - moderately
bleached, trace - minor speckled pyrite bearing halo from 268.51-268.58m and is orientated approx @ 70 deg to CA

296.56 296.59 QMV White, 3cm quartz vein is orientated subvertical to CA and bears inconsistant, approx 3mm appearing, mottled, moderately bleached and trace pyrite bearing halo from 296.5-296.69m

| 296.59 | 297.65 DIOR |  | Diorite |  |  |  |  |  |  |  |  |  |
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| 297.65 | 309.00 QMV | ALT | Material is moderately magnetic throughout and comprises > 50\% medium grained diorite, as described for main interval, alteranting with pale olive green grey, bleached patches and up to $>\mathrm{m}$ wide, bleached, $+/-$ weakly relict dioritic textured, + /- dense, $+/$ - massive, + /- aphanitic and homogenous subsections, that +/- bear trace - minor dissemianted - speckled pyrite, calcite is +/- lacking, locally pinkish, presuambly K-feldspar bearing patches. Bleaching is interpreted as alteration halos enveloping white, $\mathrm{mm}->6 \mathrm{~cm}$, partially inconsistant and irregular, predominantly planar veinlets and veins ( which bear quartz, +/- patchy albite, +/- wispy stringer pyrite, that is aligned to vein contacts) that are variably orientated to CA (shallow steep) and somewaht preferrably @ 70 deg to CA. The two largest veins of this type are at 301 - 301.07m: 4cm wide veins @ 30 deg to CA and 302.13-302.2: 6.5cm vein @ 65 deg to CA. At $308.63-308.65$ a white, 2 cm wide quartz vein @ subvertical oriention to CA bears $>20 \%$, $>\mathrm{cm}$, subhedral pyrite clots. At $308.84-308.87$ a white, 3cm wide quartz vein @ subvertical orientation to CA bears minor calcite, minor chlorite (wispy, aligned to vein contacts) and minor, < few mm, anhedral pyrite-, +/- chalcopyrite specks. | J294167 | 297.7 | 298.07 | 0.37 | 0.880 | 1.00 | 152 | 0.02 | Core |
|  |  |  |  | J294168 | 298.8 | 299.25 | 0.45 | 0.680 | 0.50 | 95 | 0.01 | Core |
|  |  |  |  | J294169 | 300.88 | 301.24 | 0.36 | 0.830 | 0.80 | 124 | 0.01 | Core |
|  |  |  |  | J294170 | 301.98 | 302.37 | 0.39 | 0.800 | 1.30 | 237 | 0.02 | Core |
|  |  |  |  | J294171 | 303.27 | 303.62 | 0.35 | 2.560 | 3.50 | 267 | 0.03 | Core |
|  |  |  |  | J294172 | 308.53 | 308.94 | 0.41 | 5.610 | 11.60 | 338 | 0.03 | Core |
|  |  |  |  | J294332 | 307.03 | 308.53 | 1.50 | 0.091 | 1.50 | 636 | 0.64 | Core |
|  |  |  |  | J294333 | 307.03 | 307.03 | 0.00 | 0.054 | 1.00 | 343 | 0.34 | Core Dup |
|  |  |  |  | J294334 | 308.94 | 309.39 | 0.45 | 0.170 | 1.10 | 232 | 0.23 | Core |
|  |  |  |  | J294335 | 303.07 | 303.27 | 0.20 | 0.013 | 1.30 | 285 | 0.29 | Core |
|  |  |  |  | J294336 | 303.62 | 303.87 | 0.25 | 0.007 | 1.40 | 321 | 0.32 | Core |


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| From | To | Lith | M Lith | Lithology Notes |  | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |

$\left.\begin{array}{lll}\hline 323.10 & 323.23 \text { QCV } & \begin{array}{l}\text { Quartz veining - Three, cm scale, white, +/- irregualr, }+/ \text { - minor, wispy chlorite bearing, }+/- \\ \text { trace pyrite bearing (one euhedral, } 5 \mathrm{~mm} \text { sized crystal) quartz veins are associated with dirty } \\ \text { green grey, few } \% \text { speckled }- \text { wispy pyrite bearing, moderately - strongly calcareous halo, with } \\ \text { primary textures obliterated from } 323.1-323.4 \mathrm{~m} .\end{array} \\ \hline 323.23 & 326.00 \text { DIOR } & \text { Diorite } \\ \hline 326.00 & 344.00 \text { EALT } & \text { DIOR }\end{array} \begin{array}{l}\text { Meterage is approximate. Weak - discrete, yellowish - pistacio green tint of palgioclase } \\ \text { crystals/ grains and local epidote as vein constituent is interpreted as weak- to moderate } \\ \text { epidote alteration/ +/- sausseritation? }\end{array}\right]$
347.00 350.00 EALT DIOR Meterage is approximate. Weak - discrete, yellowish - pistacio green tint of palgioclase crystals/ grains and local epidote as vein constituent is interpreted as weak- to moderate epidote alteration/ +/- sausseritation?
350.00 353.50 QCV Meterage is approximate. Patches with white, sheeted, calcareous veinlets and isolated calcareous veinlets throughout are preferrably orientated @ steep angles to CA. Reminiscent to $344-347 \mathrm{~m}$.
353.50 354.15 QCV ALT Predominantly non magnetic and moderately - strongly calcareous, bleached (to dirty light green grey), +/- dense, massive and $+/$ - aphanitic appearing, strongly altered intercept bears few \% dissemianted - speckled pyrite and two, > 5cm quartz veins: 353.71-353.77: White, 6 cm wide quartz vein bears approx $12 \%$ euhedral, $<\mathrm{cm}$ pyrite crystals, $+/-$ grading to several cm , subhedral pyrite clots, is slightly irregular and orientated subvertical to CA. 353.9-353.96: White and green, $+/-$ zoned quartz-, chlorite- $(10 \%+/$ - contorted - planar, $+/$ - inconsistant patchy spotty, $\mathrm{mm}-<\mathrm{cm}$ bands/ stringer are crudely aligned to vein contacts), pyrite (approx $15 \%$ pyrite is asssociated with chlorite: Anhedral - euhedral specks grade to wisps/ stringer/ < 2 cm wide, crude bands associated with or proximal to chlorite and crudely aligned to vein contacts) vein is 5 cm wide and orientated @ 60 deg to CA.
354.15 355.20 DIOR Diorite
355.20 355.69 KALT 5cm pinkish, K-feldspar alterad seam @ 40 deg to CA.
355.69 364.00 FLT Fault zone - Moderately fractured core. AT 356.42 m a cm wide, clayey seam with polished surfaces is aligned @ 60-70 deg to CA? and interpreted as gouge: Weak indication of faulting.
$364.00 \quad 365.00$ DIOR Diorite

| Lithology |  |  |  | Assays |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To Lith | M Lith | Lithology Notes | Sample | From | To | Interval | Au g/t | Ag PPM | Cu PPM | Cu\% | Type |
| epidote bearing, strongly altered patch with primary textures +/- entirely lacking. |  |  |  |  |  |  |  |  |  |  |  |  |
| 365.30 | 369.30 DIOR |  | Diorite |  |  |  |  |  |  |  |  |  |
| 369.30 | 369.90 ALT | DIOR | Pinkish pale bleached mottled, dissemianted K-feldspar bearing?, weakly calcareous (few weakly calcareous patches and locally white, patchy calcite-, +/- chlorite veining), locally magnetic (patchy), trace dissemianted - speckled pyrite bearing, weakly wispy chlorite bearing strongly altered subsections with primary textures +/- entirely lacking. No disseminated turmaline detected. 5 mm veinlet, dark green - black, hard, @ 30 deg to CA: Composition unknown, possibly turmaline? UC and LC abrupt and associated with $10-20 \mathrm{~cm}$ wide, prominently foliated host rock (approx @ 30 deg to CA). |  |  |  |  |  |  |  |  |  |
| 369.90 | 371.80 FOL | DIOR | Discretely foliated patches and sections approx @ 35 deg to CA. |  |  |  |  |  |  |  |  |  |
| 371.80 | 372.16 DIOR |  | Diorite | J294175 | 371.8 | 372.16 | 0.36 | 1.080 | 1.20 | 387 | 0.04 | Core |
| 372.16 | 372.62 QMV |  | White - dirty quartz vein bears $<5 \%$ chlorite (wispy - patchy - hairline chlorite crudely aligned @ 60 deg - subvertical to CA), approx $8 \%$ sulphides (pyrite and chalcopyrite at $50: 50$ ? and showing as specks, cm scale clots and up to $>4 \mathrm{~cm}$ patches) and is orientated steep to subvertical to CA. Vein is enveloped by altered (primary textures overprinted), +/- bleached (to light green grey - medium green grey mottled), + /- non magnetic (only proximal to vein and < 10 cm distance), non- to moderately calcareous, minor dissemianted - speckled pyrite bearing (rarely euhedral crystals identifiable) halo from 371.8-373.25. | J294176 | 372.16 | 372.62 | 0.46 | 59.800 | 31.80 | 6420 | 0.64 | Core |
| 372.62 | 373.25 DIOR |  | diorite | J294177 | 372.62 | 373.05 | 0.43 | 0.025 | 0.50 | 184 | 0.02 | Core |
| 373.25 | 387.92 FOL | ALT | Fol alt veining. The majority of the diorite is discretly foliated @ 30 deg - 40 deg to CA and weakly crackle brecciated as a result of weak - locally moderate, white, predominantly calcareous, variably orientated veinlets. At 378.2-378.3 pinkish, presuambly K-feldspar bearing patch reminiscent to $369.3-369.9 \mathrm{~m}$. From $381-382.3$ bleached to olive green grey and $+/$ - lacking primary textures associated with pinkish and presumably K-feldspar (+/chlorite) bearing patches and $<30 \mathrm{~cm}$ subsections (reminiscent to $369.3-369.9 \mathrm{~m}$ ), patchy magnetism and moderate patchy calcite. EOH 387.92 Lost hole. |  |  |  |  |  |  |  |  |  |


| HOLE ID | AZIMUTH | DIP | LENGTH | COORDINATES |  | SHORTLOG | LOG COMPLETE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| KE10-16 | 244 | -58 | 506.05 | EASTINGS: | 472336 | Tobias |  |
|  |  |  |  | NORTHINGS: | 5479452 | DETAILLOG | DATUM |
|  | Drilling |  |  |  |  | DETAILLOG | \| ${ }^{\text {DATUd83 Zone } 1}$ |
| AREA | Started: |  | CORE SIZE | SECTION |  | Tobias | Nad83 Zone 1 |
| Kenville SE | Finished: |  | NQ | S16 |  |  | SAMPLER |
|  |  |  |  |  |  |  | Tobias |


| Shipments |  |
| :--- | ---: |
| ShipmentID | Shipment Date |
| $2010 / 12 / 06$ | $06 / 12 / 2010$ |
| $2010 / 12 / 29$ | $29 / 12 / 2010$ |
| $2010 / 11 / 30$ | $29 / 12 / 2010$ |
|  |  |

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| Lithology |  |  |  | Assays |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To ${ }^{\text {Lith }}$ | M Lith | Lithology Notes | Sample | From | To | Interval | Au PPM | Ag PPM | Cu \% |
| angle to CA. |  |  |  |  |  |  |  |  |  |  |
| 45.46 | 45.88 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | J294100 | 47.60 | 47.85 | 0.25 | 0.260 | 2.6 |  |
| 45.88 45.90 QCV Pale whitish, dirty, +/- moderately scratch resistant - soft veining as described at 35.66-35.85 |  |  |  |  |  |  |  |  |  |  |
| 45.90 | 47.73 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | J294000 | 46.50 | 47.50 | 1.00 | 0.064 | 0.5 |  |
| 47.73 47.76 QV Approx 3cm wide, dirty pale quartz vein @ STEEP angle to CA. |  |  |  |  |  |  |  |  |  |  |
| 47.76 | 54.20 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | J294001 | 47.85 | 48.85 | 1.00 | 0.023 | 0.3 |  |
| 54.20 54.22 QV Dirty pale, 2cm quartz vein presuambly orientated STEEP to CA: Broken core. |  |  |  |  |  |  |  |  |  |  |
| 54.22 | 54.60 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 |  |  |  |  |  |  |  |
| 54.60 | 54.61 QV |  | 5 mm , dirty pale, weakly rusty quartz vein is orientated STEEP to CA. |  |  |  |  |  |  |  |
| 54.61 | 58.10 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 |  |  |  |  |  |  |  |
| 58.10 | 58.75 FLT |  | Fault: Moderately - strongly fractured core. Slickensides on fracture planes with preferred orientation @ 20 deg to CA - subparallel to CA. Foliation subparallel to preferred fracture orientation assoicated with +/- absence of of granular (interlocking) texture: Material is dirty grey and faintly mottled. |  |  |  |  |  |  |  |
| 58.75 | 59.37 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | J294002 | 58.10 | 59.28 | 1.18 | 0.099 | 0.7 |  |
| 59.37 | 59.46 QV |  | Approx dm wide, white and rusty coloured quartz vein bears few $\mathrm{mm}-\mathrm{cm}$ wide, pinching and swelling, inconsistant sulphide bands (pyrite, +/- chalcopyrite) and is orientated STEEP to CA. | J294101 | 59.28 | 59.53 | 0.25 | 2.840 | 6.7 |  |
| 59.46 | 62.71 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | J294003 | 59.53 | 60.80 | 1.27 | 0.112 | 0.3 |  |
| 62.71 | 62.72 QV |  | Dirty pale, 1 cm wide quartz vein is orientated STEEP to CA. |  |  |  |  |  |  |  |
| 62.72 | 63.13 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | J294004 | 61.93 | 63.13 | 1.20 | 0.032 | 0.3 |  |
| 63.13 | 63.37 QCV |  | Subsection bears 3 quartz veins @ STEEP angle to CA: Pale, +/- inconsistant, pinching and swelling, orientated STEEP to CA. Vein material bears bears minor speckled pyrite and speckled sphalerite? | J294102 | 63.13 | 63.40 | 0.27 | 2.070 | 1.1 |  |
| 63.37 | 67.50 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | J294005 | 63.40 | 64.48 | 1.08 | 0.010 | 0.2 |  |
| 67.50 | 70.70 QCV |  | Pale whitish coloured, mm - few mm scale, moderately scratch resistant - soft veinlets and veins amount to moderate (approx dm spacing), are +/- inconsistant and preferrably orientated @ 50 deg - subvertical to CA. |  |  |  |  |  |  |  |




| 99.50 | 99.55 QV | Weakly - moderately rusty tinted (base colour is pale - white), 2cm wide, vuggy quartz vein is orientated @ approx 55 deg to CA, bears minor sulphide specks (chalcopyrite, $+/$ - pyrite?). Prominent sulphide specks, grading to $<\mathrm{cm}$ clots on fracture planes detectable. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 99.55 | 103.80 DIOR | Diorite - usual - see large text 34.5 to 35.66 | J294019 | 99.65 | 100.20 | 0.55 | 0.024 | 0.3 |
| 103.80 | 104.70 QCTV | This subsection bears 8 white or pale, $+/-$ vuggy, cm to $<3 \mathrm{~cm}$ wide quartz-, $+/-$ calcite veins, which are orientated @ 60 deg to subvertical to CA. Locally weak, rusty stain. Prominently turmaline bearing: Amount varies from trace to abundant (as vein constituent) and frequently the turmaline establishes zoning (cm scale turmaline bands establish centre of veins). | J294107 | 103.80 | 104.70 | 0.90 | 0.025 | 0.1 |
| 104.70 | 114.55 DIOR | Diorite - usual - see large text 34.5 to 35.66 |  |  |  |  |  |  |
| 114.55 | 114.58 QCTV | Pale - white, +/- irregualr, approx 2 cm wide, vuggy quartz-, calcite-, turmaline vein (reminiscent to 103.8 -104.7) @ 55 deg to CA. |  |  |  |  |  |  |
| 114.58 | 118.70 DIOR | Diorite - usual - see large text 34.5 to 35.66 |  |  |  |  |  |  |
| 118.70 | 119.70 QCV | This subsection bears patchy - swirly - planar (and then somewaht preferrably orientated @ shallow angle to CA), moderately scratch resistant - soft, calcareous veinlets and veins, that are rarely > cm wide and amount to moderate. Very reminiscent to previously described non- or weakly quartz bearing veinlets/ veins, but bears a pistacio green mineral: Epidote? |  |  |  |  |  |  |
| 119.70 | 125.08 DIOR | Diorite - usual - see large text 34.5 to 35.66 |  |  |  |  |  |  |
| 125.08 | 125.11 QCTV | Turmaline-, +/- quartz-, +/- carboante vein @ subvertical orientation to CA. More than $66 \%$ of the vein material comprises turmaline. |  |  |  |  |  |  |
| 125.11 | 127.43 DIOR | Diorite - usual - see large text 34.5 to 35.66 | J294108 | 127.34 | 127.54 | 0.20 | 0.150 | 3 |
| 127.43 | 127.44 QCTV | Turmaline bearing veining: Anastomosing, +/- irregualr, < cm - approx 2 cm scale. Bears finely speckled chalcopyrite grading to elongate chalcopyrite clots, that are $+/$ - aligned to vein contacts. |  |  |  |  |  |  |
| 127.44 | 127.71 DIOR | Diorite - usual - see large text 34.5 to 35.66 |  |  |  |  |  |  |
| 127.71 | 130.05 QCTV | Primary textures are $+/$ - obliterated by bleaching within this subsection, resulting in a pale grey, dirty mottled appearance. Material is weakly crackle brecciated with + /- inconsistant, + /- wispy and variably orientated + /- quartz-,+/- calcite-, +/- carboante, +/- turmaline veins (as described before). | J294020 | 129.95 | 130.45 | 0.50 | 0.015 | 0.3 |
| 130.05 | 130.60 DIOR | Diorite - usual - see large text 34.5 to 35.66 | J294109 | 130.45 | 130.75 | 0.30 | 3.100 | 23.7 |
| 130.60 | 130.70 SV | Variably orientated, +/- inconsistant, anastomosing chalcopyrite-, bornite? (prominently purple tarnished metal sulphide) hairlines and veinlets. Preferred orientation @ $20-30$ deg to CA. |  |  |  |  |  |  |
| 130.70 | 132.40 DIOR | Diorite - usual - see large text 34.5 to 35.66 | $\begin{aligned} & \hline \text { J294021 } \\ & \text { J294023 } \end{aligned}$ | $\begin{aligned} & \hline \hline 130.75 \\ & 131.20 \end{aligned}$ | $\begin{aligned} & \hline \hline 131.20 \\ & 131.85 \end{aligned}$ | $\begin{aligned} & \hline \hline 0.45 \\ & 0.65 \end{aligned}$ | $\begin{aligned} & \hline \hline 0.002 \\ & 0.235 \end{aligned}$ | $\begin{aligned} & \hline \hline 0.1 \\ & 4.8 \end{aligned}$ |



| 132.50 | 145.03 DIOR | Diorite - usual - see large text 34.5 to 35.66 | 0.85 | 0.033 | 0.1 |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

145.03 145.05 QV Approx 2 cm wide quartz-, calcite vein @ subvertical orientation to CA bears minor turmaline? and inconsistant pyrite stringer along vein contacts. Vein is enveloped by approx dm wide bleached halo on each side, obliterating primnary textures.

| 145.05 | 158.20 DIOR | Diorite - usual - see large text 34.5 to 35.66 | J294110 | 144.92 | 145.20 | 0.28 | 0.070 | 0.4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | J294026 | 157.60 | 158.03 | 0.43 | 0.100 | 1 |
| 158.20 | 158.30 QCTV | Black (turmaline) - pinkish (K-feldspar?) - p | J294111 | 158.03 | 159.03 | 1.00 | 0.190 | 0.3 |

158.30 158.84 DIOR Diorite - usual - see large text 34.5 to 35.66
158.84 158.87 QCTV Black (turmaline) - pinkish (K-feldspar?) - pale light grey (quartz) and calcite bearing, +/- poorly defined, nconsistant, approx 3cm wide vein @ approx 60 deg to CA. Weak - moderate speckled sulphides (pyrite, chalcopyrite) are detectable on fracture planes (weak fracturing subparallel to CA with very weak expression of slickednsides). Vein is underlain by approx 20 cm wide, bleached halo with primary textures obliterated by alteration (as described before).
158.87 165.25 DIOR

Diorite - usual - see large text 34.5 to 35.66
J294027
159.03
159.60
0.57
0.002
0.1
165.25 165.62 ALT Medium grey mottled intercept. Mottled texture is presumably the result of alteration, rather than the material being an intrusion? (dyke?) UC: sharp, distinct, @ 60 deg to CA. LC: Broken core.
165.62 166.30 DIOR Diorite - usual - see large text 34.5 to 35.66
166.30 167.00 QCV Pale coloured, highly vuggy calcite-, and $+/-$ quartz-, + /- sulphide-, ( $+/-$ other minerals?) bearing, $<\mathrm{cm}$ wide, $+/-$ irregualr, +/- pinching and swelling, wavy vein is orientated@ shallow angle to CA. Locally modrately sulphide

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 294113 | 166.30 | 167.12 | 0.82 | 0.100 | bearing: chalcopyrite, pyrite and bornite? (purple - redbrown tarnished sulphide identifiable).

168.90 173.60 DIOR Medium grained diorite, weakly - moderately vein bearing with veins comprising +/- quartz, +/- calcite, +/carbonate? (other than calcite) + -- turmaline (as described for main interval). The pale coloured plagioclase crystals/ grains display a weakly pistacio green colour, presumably as a result of epidote alteration. Similar colour/ crystals/ grains display a weakly pistacio green colour, presumably as a result of epidote alteration. Similar colour alteration/ metamorphism? has been observed in overlying portions of this drill hole, but less pronounced and slightly irregualr approx @ 60 deg to CA, chosen to be coincident with intrusive contact.

| Lithology |  |  |  | Assays |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To ${ }^{\text {To }}$ | M Lith | Lithology Notes | Sample | From | To | Interval | Au PPM | Ag PPM | Cu \% |
| 173.60 | 174.00 QCV |  | Intercept bears $4+/-$ quartz, $+/-$ calcite-, +/- sulfate? (gypsum?), +/- trace other, unindentified minerals bearing veinlets/ veins as described before: Width varies from $<5 \mathrm{~mm}->\mathrm{cm}$, orientation varies from 50 deg to CA to subervertical to CA. |  |  |  |  |  |  |  |
| 174.00 | 174.20 DIOR | EALT | Diorite - m grained - see large text 168.9-173.6 |  |  |  |  |  |  |  |
| 174.20 | 174.50 QCV |  | Primary textures are somewhat obliterated by alteration, resulting in grey mottled appearance. Weak crackle brecciation with inconsistant, irregualr - patchy - wispy, pale - weakly reddish tinted (K-feldspar?, rose quartz?) +/- quartz-, +/- calcite-, +/- carbonate?-, +/- gypsum? hairlines/ veinlets/ veins. Locally minor chalcopyrite as part of vein material: Specks, small clots. | J294115 | 174.20 | 174.50 | 0.30 | 0.025 | 0.7 |  |
| 174.50 | 179.22 DIOR |  | Diorite - m grained - see large text 168.9-173.6 | $\begin{array}{\|l\|} \hline \text { J294028 } \\ \text { J294114 } \end{array}$ | $\begin{aligned} & 178.75 \\ & 179.09 \end{aligned}$ | $\begin{aligned} & 179.07 \\ & 179.38 \end{aligned}$ | $\begin{aligned} & \hline 0.32 \\ & 0.29 \end{aligned}$ | $\begin{aligned} & \hline 0.008 \\ & 3.530 \end{aligned}$ | $\begin{aligned} & \hline 0.1 \\ & 2.9 \end{aligned}$ |  |
| 179.22 | 179.25 QV |  | 5 cm wide quartz vein (@ STEEP anlgle to CA?: Broken core) bears trace chlorite and weak - moderate pyrite (wisps grading to stringer and clots and establishing zoning subparallel to veins contacts). Chlorite and pyrite are closely associated. |  |  |  |  |  |  |  |
| 179.25 | 184.90 DIOR |  | Diorite - m grained - see large text 168.9-173.6 | J294029 | 179.38 | 179.74 | 0.36 | 0.008 | 0.1 |  |
|  |  |  |  | J294030 | 179.74 | 180.15 | 0.41 | 0.007 | 0.2 |  |
|  |  |  |  | J294031 | 180.15 | 180.85 | 0.70 | 0.007 | 0.1 |  |
| 184.90 | 185.02 QCV |  | Broken core. Few mm wide, highly calcareous, highly vuggy, weakly sulphide bearing (speckled pyrite and/ or chalcopyrite) veinlet @ 30 deg to CA. | J294116 | 184.80 | 185.10 | 0.30 | 0.140 | 0.1 |  |
| 185.02 | 185.30 DIOR |  | Diorite - m grained - see large text 168.9-173.6 |  |  |  |  |  |  |  |
| 185.30 | 186.35 QCV |  | Primary textures +/- obliterated by bleaching, resulting in a pale grey colour and weakly, finely mottled texture. Bears < mm to $>\mathrm{cm}$ wide, pale - white quartz-, carboante veins as described before. Vein orientation is variable, locally grading to weak crackle texture. From 185.57-188.66 a fragmental appearing texture is interpreted as pseudo fragmental, with UC and LC sharp along fracture planes @ 35-40 deg to CA. |  |  |  |  |  |  |  |
| 186.35 | 192.21 DIOR |  | Diorite - m grained - see large text 168.9-173.6 | J294032 | 191.41 | 192.00 | 0.59 | 0.006 | 0.8 |  |
| 192.21 | 192.31 QV |  | White quartz-, +/- calcite vein (calcite as sheeted wisps). Lower portion of vein bears < few cm, light- to medium grey inclusions subparallel to vein contacts: Possibly host rock inclusions? Trace subhedral pyrite specks. Sulphide mineralisation extends into underlying 30 cm wide, bleached halo: Minnor dissemiantions/ specks and stringer: Chalcopyrite and pyrite. | J294117 | 192.00 | 192.70 | 0.70 | 1.150 | 0.9 |  |
| 192.31 | 201.33 DIOR |  | Diorite - m grained - see large text 168.9-173.6 | $\begin{aligned} & \hline \text { J294034 } \\ & \text { J294118 } \end{aligned}$ | $\begin{array}{r} 192.70 \\ 201.25 \\ \hline \end{array}$ | $\begin{aligned} & \hline 193.63 \\ & 201.65 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 0.93 \\ & 0.40 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 0.002 \\ & 0.025 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 0.5 \\ & 0.1 \\ & \hline \end{aligned}$ |  |
| 201.33 | 201.43 QCV |  | White - very weakly reddish tinted, anastomosing, cm - dm scale quartz-, calcite vein(s) @ $55-80$ deg to CA, associated with underlying, patchy veining of same composition at 201.6 m . |  |  |  |  |  |  |  |
| 201.43 | 214.48 DIOR |  | Diorite - m grained - see large text 168.9-173.6 |  |  |  |  |  |  |  |
| 214.48 | 217.65 LAMP |  | Light- to medium grey, dense, massive, aphanitic intrusion (dyke or sill) is moderately - strongly magnetic and bears few cm to $>30 \mathrm{~cm}$ sized inclusions of host rock indicating xenoliths, fingering contact or contact very oblique to orientation of drill hole? For the sake of consistancy this interval is tentatively and reluctantly identified as a lamprohyre even though composition is presumably close to/ same as host rock and porphyritic texture is +/- |  |  |  |  |  |  |  |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To ${ }^{\text {L }}$ Lith | M Lith | Lithology Notes | Sample | From | To | Interval | Au PPM | Ag PPM | Cu \% |
| entirely lacking. UC: Sharp, distinct, somewhat irregualr, approx $60-7 \beta$ deg to CA. LC: Lost in broken core. |  |  |  |  |  |  |  |  |  |  |
| 217.65 | 221.55 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | $\begin{aligned} & \hline \text { J294036 } \\ & \text { J294035 } \end{aligned}$ | $\begin{aligned} & \hline 219.98 \\ & 221.04 \end{aligned}$ | $\begin{aligned} & \hline 221.04 \\ & 221.40 \end{aligned}$ | $\begin{aligned} & \hline \hline 1.06 \\ & 0.36 \end{aligned}$ | $\begin{aligned} & \hline 0.007 \\ & 0.007 \end{aligned}$ | $\begin{array}{r} 1 \\ 0.8 \end{array}$ |  |
| 221.55 | 221.70 QV |  | White quartz-, +/-minor calcite vein bears sulphides: Pyrite, chalcopyrite and trace galena show as wisps, grading to clots and establishing and inconsistant, irregualr, approx cm wide band subparallel to vein contacts. UC: Sharp, distinct, 70 deg to CA. LC: Sharp, distinct, 75 deg to CA. | J294119 | 221.40 | 221.89 | 0.49 | 5.810 | 12.1 |  |
| 221.70 | 250.05 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | $\begin{aligned} & \hline \text { J294037 } \\ & \text { J294038 } \\ & \text { J294039 } \end{aligned}$ | $\begin{aligned} & 221.89 \\ & 222.15 \\ & 222.59 \end{aligned}$ | $\begin{aligned} & 222.15 \\ & 222.59 \\ & 223.59 \end{aligned}$ | $\begin{aligned} & \hline 0.26 \\ & 0.44 \\ & 1.00 \end{aligned}$ | $\begin{aligned} & \hline 0.014 \\ & 0.123 \\ & 0.157 \end{aligned}$ | $\begin{aligned} & \hline 1.2 \\ & 4.3 \\ & 1.3 \end{aligned}$ |  |
| 250.05 | 251.60 LAMP |  | Dark grey, moderately scratch resistant - soft, moderately magnetic, aphanitic intrusion (dyke or sill). $<7 \%,<\mathrm{mm}$ - rarely few mm sized, pale - white, +/- calcareous, rarely epidote bearig, rarely trace pyrite bearing, predomiantly subround - round, very rarely square - lath shaped outlines, that locally cluster to clouds are interpreted as vesicles, +/- minor, altered feldspar phenocrysts? UC and LC: Broken core, no plane. This interval is hosted by discretely darker appearing, discretely foliated ( 25 deg to shallow to CA) diorite from $244.45-257.15$. It is undetermined if the darker colour is the result of a higher amount of mafics and/ or the darker colour may be the result of dirty grey felsic minerals. Foliation of the hosting diorite and dirty grey appearance of its felsic minerals is possibly related to the intrusion of the dyke/ sill? |  |  |  |  |  |  |  |
| 251.60 | 263.68 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | $\begin{aligned} & \hline \text { J294042 } \\ & \text { J294041 } \\ & \text { J294040 } \end{aligned}$ | $\begin{aligned} & \hline 258.47 \\ & 259.50 \\ & 263.38 \end{aligned}$ | $\begin{aligned} & \hline 259.50 \\ & 263.38 \\ & 264.00 \end{aligned}$ | $\begin{aligned} & \hline 1.03 \\ & 3.88 \\ & 0.62 \end{aligned}$ | $\begin{aligned} & 0.016 \\ & 0.015 \\ & 0.301 \end{aligned}$ | $\begin{aligned} & 0.3 \\ & 0.8 \\ & 0.7 \end{aligned}$ |  |
| 263.68 | 263.78 QV |  | Pale coloured, weakly dirty quartz vein subvertical to CA bears $>15 \%$ subhedral - anhedral, $<\mathrm{mm}$ - few mm sized pyrite specks grading to $>4 \mathrm{~cm}$ pyrite clots, that are associated with green grey - dirty grey material (chlorite and inclusions of host rock?) and together establish $<\mathrm{cm}$ to $>3 \mathrm{~cm}$ wide bands subparallel to vein contacts. Vein is enveloped by bleached, massive and aphanitic appearing alteration halo (as described before) from 263.4 264.1, bearing few \% finely disseminated pyrite. | J294121 | 263.50 | 264.00 | 0.50 | 111.500 | 58.1 |  |
| 263.78 | 272.31 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | $\begin{aligned} & \hline \text { J294043 } \\ & \text { J294044 } \end{aligned}$ | $\begin{aligned} & \hline 264.00 \\ & 264.28 \end{aligned}$ | $\begin{aligned} & \hline 264.28 \\ & 265.49 \end{aligned}$ | $\begin{aligned} & \hline 0.28 \\ & 1.21 \end{aligned}$ | $\begin{aligned} & \hline 0.006 \\ & 0.016 \end{aligned}$ | $\begin{aligned} & 0.8 \\ & 0.6 \\ & \hline \end{aligned}$ |  |
| 272.31 | 273.33 LAMP |  | Dark grey intrsusion (dyke/ sill), locally non- to predomiantly moderately magnetic. Very reminiscent to/ same as 250.05 - 251.6, but with an indistinct, dark spotted texture indicating mafic (and completely chloritises) phenocrysts (amounting to > 10\%), possibly indicating a lamprophyre? UC: Sharp, distinct, @ 40 deg to CA. LC: Sharp, distinct, @ 45 deg to CA. | J294048 | 272.34 | 273.35 | 1.01 | 0.002 | 0.4 |  |
| 273.33 | 274.26 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | $\begin{aligned} & \text { J294047 } \\ & \text { J294046 } \end{aligned}$ | $\begin{aligned} & \hline 273.35 \\ & 273.71 \end{aligned}$ | $\begin{aligned} & \hline 273.71 \\ & 274.18 \end{aligned}$ | $\begin{aligned} & \hline 0.36 \\ & 0.47 \end{aligned}$ | $\begin{aligned} & \hline 0.032 \\ & 0.069 \end{aligned}$ | $\begin{aligned} & 0.8 \\ & 0.1 \end{aligned}$ |  |
| 274.26 | 274.32 QV |  | White, slightly irregualr quartz vein is orientated @ 70 deg to subvertical to CA, bears chlorite wisps and $<5 \mathrm{~cm}$ pyrite (amounting to $7 \%$ ), +/- sphalerite (amounting to $3 \%$ ) clots.both sulphides and chlorite are aligned subparallel to contacts. |  |  |  |  |  |  |  |
| 274.32 | 274.77 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 |  |  |  |  |  |  |  |
| 274.77 | 274.93 QV |  | Immideately underlying a slickenside bearing fracture plane @ 40 deg to CA with slickensides, a white quartz vein is orientated subvertical to CA, bears minor chlorite wisps associated with < few cm sulphide clots (approx $5 \%$ pyrite, approx $7 \%$ prominent sphalerite! and minor chalcopyrite are associated with minor chlorite) grading to +/consistant, irregualr, $<3 \mathrm{~cm}$ wide sulphide bands. | J294122 | 274.80 | 275.08 | 0.28 | 47.200 | 51.4 |  |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To Lith | M Lith | Lithology Notes | Sample | From | To | Interval | Au PPM | Ag PPM | Cu\% |
| 274.93 | 278.30 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | $\begin{aligned} & \hline \text { J294049 } \\ & \text { J294050 } \end{aligned}$ | $\begin{aligned} & \hline 275.08 \\ & 275.44 \end{aligned}$ | $\begin{aligned} & \hline 275.44 \\ & 276.22 \end{aligned}$ | $\begin{aligned} & \hline 0.36 \\ & 0.78 \end{aligned}$ | $\begin{aligned} & \hline 0.061 \\ & 0.040 \end{aligned}$ | $\begin{aligned} & \hline 0.4 \\ & 0.5 \end{aligned}$ |  |
| 278.30 | 279.00 ECV |  | 2 discretetely epidote bearing and $+/$ - calcareous veinlets @ 30 deg to CA within this subsection are approx cm wide, inconsistant, pinching and swelling. |  |  |  |  |  |  |  |
| 279.00 | 286.60 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 |  |  |  |  |  |  |  |
| 286.60 | 296.30 FLT | ALT | Faultzone(?): Moderately, locally strongly fractured core. Fracture planes are variably orientated, locally slickensides on fracture planes subparallel to CA and therefore this subsection tentatively interpreted as fault zone. Portions of the material with discrete foliation @ 50 deg to CA - preferrably shallow to CA - subparallel to CA, bending, weakly contorted. From 288.5-290.9: Pale - pinkish tinted (K-feldspar?, Fe bearing carbonate?, rose quartz?) , patchy - irregualr (and locally weakly aligned to foliation) quartz-, carbonate bearing veining amounts to moderate and is associated with partial obliteration of primary textures by alteration. From 295.85 296.3: Pale - pinkish tinted, patchy, irregualr veining is reminiscent to $288.5-290.9$ but less calcareous. This intercept bears minor sulphides (speckled pyrite - small pyrite clots as part of vein material and weakly extending into host rock) and immideately overlies a +/- cryptic contact/ transition zone from diorite to dark grey intrusion (dyke or sill) from 296.3-297.55m, that is defined by an intrusive contact subparallel to CA. | $\begin{array}{\|l\|} \hline \text { J294123 } \\ \text { J294052 } \\ \text { J294051 } \\ \text { J294124 } \\ \hline \end{array}$ | $\begin{aligned} & 288.50 \\ & 295.13 \\ & 295.32 \\ & 295.86 \end{aligned}$ | $\begin{aligned} & 290.80 \\ & 295.32 \\ & 295.86 \\ & 296.35 \end{aligned}$ | $\begin{aligned} & 2.30 \\ & 0.19 \\ & 0.54 \\ & 0.49 \end{aligned}$ | $\begin{array}{r} 0.300 \\ 0.006 \\ 0.007 \\ 13.600 \\ \hline \end{array}$ | $\begin{array}{r} 0.7 \\ 0.7 \\ 0.5 \\ 11.2 \end{array}$ |  |
| 296.30 | 297.55 LAMP |  | Contact zone/ transition zone defined by intrusive contact between overlying diorite and underlying dyke or sill: Cryptic, and obliterated by moderately - strongly fractured core, +/- slickensides on fracture planes ssubparallel to CA. and therefore also included in a.m. fault (see 286.6-297.8) It is assumed, that emplacement of dyke/ sill and faulting are genetically related? | $\begin{aligned} & \hline \text { J294053 } \\ & \text { J294054 } \end{aligned}$ | $\begin{aligned} & \hline 296.35 \\ & 296.95 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 296.95 \\ & 297.60 \end{aligned}$ | $\begin{aligned} & \hline 0.60 \\ & 0.65 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 0.289 \\ & 0.036 \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline 1.3 \\ 1 \end{array}$ |  |
| 297.55 | 304.00 LAMP |  | Medium - dark grey, variably aphanitic and massive - indistinctly dark spotted texture (presumably as a result of > $20 \%$ chloritised mafics?; see 272.31-273.33m). The transitions between the relict ghranular and the masssive aphanitic texture are typically abrupt, defined by indistinct, sharp contacts, result in an indistinct, patchy appearance and are the result of multiphase intrusion?, slushy consistance at the time of deposition? Overall this interval is reminiscent to previously described lamprophyres: Moderately scratch resistant, moderately - strongly magnetic, prominently amygdaloid subsections (white, calcareous, rarely > 5 mm and locally amounting to approx $15 \%$ ). 1 eliptic, $<2 \mathrm{~cm}$, epidotic outline: Amygdule?, alteration patch? Weak disseminated calcite. LC: Broken core and cryptic, presumably very shallow to $C A$. | J294056 | 297.60 | 298.31 | 0.71 | 0.099 | 0.7 |  |
| 304.00 | 308.16 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 |  |  |  |  |  |  |  |
| 308.16 | 311.70 LAMP |  | Very reminiscent to/ same as 297.55 - 304m. UC: Sharp, distinct, @ 25 deg to CA. LC: Sharp, distinct subparallel to CA. |  |  |  |  |  |  |  |
| 311.70 | 320.75 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 |  |  |  |  |  |  |  |
| 320.75 | 323.34 LAMP |  | Very reminiscent to/ same as 297.55 - 304m. UC: Sharp, distinct, presumably @ 40 deg to CA: Broken core. LC: Sharp, distinct @ 25 deg to CA. |  |  |  |  |  |  |  |
| 323.34 | 325.58 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 |  |  |  |  |  |  |  |
| 325.58 | 328.45 LAMP |  | Very reminiscent to/ same as 297.55 - 304. UC: Distinct, sharp, @ 60 deg to CA. LC: Distinct, sharp, @ 33 deg to CA. |  |  |  |  |  |  |  |
| 328.45 | 329.17 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | $\begin{aligned} & \text { J294057 } \\ & \text { J294125 } \end{aligned}$ | $\begin{aligned} & \hline 328.47 \\ & 328.85 \end{aligned}$ | $\begin{aligned} & \hline 328.85 \\ & 329.50 \end{aligned}$ | $\begin{aligned} & \hline 0.38 \\ & 0.65 \end{aligned}$ | $\begin{aligned} & \hline 1.375 \\ & 0.400 \\ & \hline \end{aligned}$ | $\begin{array}{r} 1.1 \\ 2 \end{array}$ |  |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To ${ }^{\text {To }}$ Lith | M Lith | Lithology Notes | Sample | From | To | Interval | Au PPM | Ag PPM | Cu \% |
| 329.17 | 329.48 QV |  | Predomiantly white quartz vein. Upper portion zoned: 1.5 cm wide band of grey quartz and chloritic stringer are aligned subparallel to vein contact. Green grey chloritic inclusions near LC establish inconsistant, $\mathrm{cm}-4 \mathrm{~cm}$ wide band, very reminiscent to host rock immideately at LC and interpreted as host rock inclusion. Trace calcite. Trace pyrite associated with chloritic inclusions. Minor disseminated - finely speckled - rarely wispy (aligned to foliation) pyrite in strongly foliated (@30 deg to CA), non magneitc diorite overlying the vein. Minor disseminated to finely speckled - wispy pyrite in underlying, moderately quartz vein bearing diorite (see below). UC: Distinct, sharp, subervertical to CA. LC: Irregualr, no plane. |  |  |  |  |  |  |  |
| 329.48 | 329.60 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | J294126 | 329.50 | 330.40 | 0.90 | 0.620 | 0.9 |  |
| 329.60 | 330.25 QV |  | This intercept moderately quartz vein bearing: $+/-$ white,$<\mathrm{cm}-4 \mathrm{~cm}$ wide, $+/-$ zoned, very reminiscent to and presumably genetically related to $329.17-329.48$, minor chlorite bearing, non- to minor K-feldspar? bearing (locally a hard, pinkish mineral), trace- to minor pyrite bearing (dissemiantions, specks, wisps) +/- minor calcite bearing, varialby orientated (preferrably +/- STEEP/ subvertical to CA - rarely @ 15 deg to CA) predomiantly tabular - rarely inconsistant and anastomosing. Analougous to $329.17-329.48$ the hosting diorite is non- to only weakly magnetic and bears \%-range disseminated - speckled - wispy pyrite. |  |  |  |  |  |  |  |
| 330.25 | 332.80 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 |  |  |  |  |  |  |  |
| 332.80 | 332.90 ALT |  | Pinkish pale, K-feldspar bearing (+/- quartz?, +/- silicification?) patch envelopes few mm wide quartz-, +/- minor chlorite, +/- pyrite (few small clots) bearing, < cm wide veinlet @ STEEP orientation to CA. Underlying host rock (363.9 m : with primary textues +/- obliterated by alteration/ mild bleaching) bears trace - minor, dissemianted speckled pyrite and few (2) approx cm scale, +/- zoned, white - grey quartz (+/- minor chlorite, +/- minor pyrite) veins. (reminiscent to $329.17-329.48$ and 329.6-330.25). | J294127 | 332.74 | 333.50 | 0.76 | 0.310 | 1.8 |  |
| 332.90 | 334.34 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | J294059 | 333.83 | 335.03 | 1.20 | 0.039 | 1.3 |  |
| 334.34 | 334.46 QV |  | Predomiantly white quartz vein bears minor, wispy chlorite aligned to vein contacts (zoned) and two irregualr, inconsistant sulphide bands aligned to vein contacts (zoned): $\mathrm{A}<2 \mathrm{~cm}$ wide pyrite band and a $<5 \mathrm{~mm}$ wide sphalerite-, +/- pyrite band/ stringer. UC Sharp, distinct, @ 70 deg to CA. LC: Sharp, distinct, @ 60 deg to CA. |  |  |  |  |  |  |  |
| 334.46 | 334.75 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 |  |  |  |  |  |  |  |
| 334.75 | 335.05 QCV |  | Weakly quartz-, chlorite-, pyrite- veinlet bearing material. Veinlets are preferrably @ STEEP angle to CA. Associated with minor dissemianted pyrite in the host rock and locally detectable weak K-feldspar alteration. Reminiscent to 332.8-332.9m. |  |  |  |  |  |  |  |
| 335.05 | 345.78 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | J294058 | 335.03 | 335.16 | 0.13 | 0.093 | 0.7 |  |
|  |  |  |  | J294128 | 335.16 | 335.56 | 0.40 | 19.950 | 28.2 |  |
|  |  |  |  | J294060 | 335.56 | 335.96 | 0.40 | 0.212 | 1.2 |  |
|  |  |  |  | J294061 | 335.96 | 337.01 | 1.05 | 0.012 | 0.6 |  |
|  |  |  |  | J294062 | 345.14 | 345.62 | 0.48 | 1.485 | 1.3 |  |
|  |  |  | White quartz vein bears minor chloritic wisps/ hairlines, that are crudely aligned to vein contacts (+/- as described before: Weak zoning) and few scattered chalcopyrite specks and < 2cm clots. From 145.55-146.2 the hosting diorite has primary textures +/- obliterated by alteration/ mild bleaching and bears trace dissemianted pyrite (as described before). UC: Sharp, distinct, approx @ 75 deg to CA; LC: Sharp, distinct, subvertical to CA. | J294129 | 345.62 | 346.15 | 0.53 | 1.280 | 3.7 |  |
| 345.78 | 345.97 QV |  |  |  |  |  |  |  |  |  |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |
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| From | To ${ }^{\text {To }}$ Lth | M Lith | Lithology Notes | Sample | From | To | Interval | Au PPM | Ag PPM | Cu \% |
| 345.97 | 361.86 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | J294065 <br> J294064 <br> J294130 | $\begin{aligned} & 359.05 \\ & 360.60 \\ & 361.40 \end{aligned}$ | $\begin{aligned} & \hline 360.66 \\ & 361.40 \\ & 361.86 \end{aligned}$ | $\begin{aligned} & \hline 1.61 \\ & 0.80 \\ & 0.46 \end{aligned}$ | $\begin{aligned} & \hline 0.019 \\ & 1.290 \\ & 5.790 \end{aligned}$ | $\begin{aligned} & \hline 0.7 \\ & 1.7 \\ & 5.4 \end{aligned}$ |  |
| 361.86 | 362.74 QV |  | White quartz vein bears estimated 10\% sulphides (predominantly pyrite, \%range sphalerite, < $1 \%$ ? chalcopyrite and trace - minor galena are identifiable). Sulphides show as wisps and specks, grading to predominatly < several cm clots, that $+/$ - establish crude, irregualr, inconsistant, $<\mathrm{cm}->\mathrm{cm}$ bands, that are crudely aligned to vein contacts. UC: Sharp, distinct @ 75 deg to CA. LC: Sharp, distinct, @ 75 deg to CA. The overlying diorite is weakly bleached/ altered with primary textures +/- obliterated over approx m width (as described before), bears approx $2 \%$, dissemianted - speckled - wispy pyrite, is non magnetic and soft. This halo is moderately - strongly veined with < cm to approx 3cm wide quartz-, +/- minor sulphide (pyrite) veins @ +/- steep - subvertical (rarely 40 - 50 deg to CA and crosscutting) orientation to CA. The underlying diorite displays very little indication of alteration: Approx 20 cm wide, very weakly bleached halo with few, variably orientated and variably composed (+/- quartz, +/calcite, +/- pyrite, +/- chalcopyrite) +/- inconsistant- +/- patchy hairlines and veinlets. Possibly a few m wide, very weak crackle breccia established by predomiantly calcite bearing (+/- quartz?, +/- gypsum?), variably orientated veinlets? Weak K-feldspar as minor vein constituent and dissemianted in diorite. | J294131 | 361.86 | 362.74 | 0.88 | 88.100 | 130 | 1.70 |
| 362.74 | 382.94 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | $\begin{aligned} & \hline \text { J294132 } \\ & \text { J294067 } \end{aligned}$ | $\begin{aligned} & 362.74 \\ & 363.10 \end{aligned}$ | $\begin{aligned} & 363.10 \\ & 364.08 \end{aligned}$ | $\begin{aligned} & \hline 0.36 \\ & 0.98 \end{aligned}$ | $\begin{aligned} & \hline 0.070 \\ & 0.010 \end{aligned}$ | $\begin{aligned} & 3.4 \\ & 0.6 \end{aligned}$ |  |
| 382.94 | 384.65 LAMP |  | Dark grey, fine grained, +/- porphyritic (chlorite altered mafic phenocrysts, as described before) - aphanitic, calcareous, moderately - strongly magnetic, +/- vesicular/ amydaloid intrusion. Remniscent to/ same as previosusly described lamprohyre. UC: Indistinct, sharp, along fracture plane @ 40 deg to CA, associated with approx mm scale gouge seam and weak slickensides; fading out of vesicles to approx 15 cm down of contact; overlying diorite with priamry textures obliterated over 0.4 m (presumably as a result of contact metamorphism?) and trace- to minor, wispy - speckled - dissemianted pyrite bearing. LC: Associated with $<3 \mathrm{~cm}$ wide chill margin, indistinct, sharp, along fracture plane @ 35 deg to CA, that is coated with < mm, pale - whitish, soft, weakly calcareous, predomiantly gypsum? comprising seam (hairline). Underlying diorite with primary textures obliterated over < 30cm and approx $3 \%$ dissemianted - finely speckled, subhedral - euhedral pyrite; associated with moderate veining: Dirty pale, planar - pinching and swelling, paritally inconsistant, +/- quartz, +/- calcite, +/epidote?, +/- chlorite,+/- minor chalcopyrite, +/- pyrite? bearing, few mm - approx $2 \mathrm{~cm},+/-$ zoned veinlets/ veins subvertical and subparallel to CA over 0.6 m . |  |  |  |  |  |  |  |
| 384.65 | 388.50 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | J294133 | 384.56 | 385.26 | 0.70 | 1.360 | 1.4 |  |
| 388.50 | 390.50 EALT |  | Epidote, together with quartz and calcite as constituent of variably orientated, $+/-$ inconsistant, $+/-\mathrm{cm}$ scale weakly - moderately abundant veins. |  |  |  |  |  |  |  |
| 390.50 | 400.25 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 |  |  |  |  |  |  |  |
| 400.25 | 400.85 LAMP |  | Non- to very weakly amygdaloid lamprophyre as described before. UC: Distinct, sharpp, @ 40 deg to CA. LC, distinct, sharp, @ 40 deg to CA. Both contacts along fracture planes with < mm scale gouge seams and weak slickensides. |  |  |  |  |  |  |  |
| 400.85 | 411.77 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 |  |  |  |  |  |  |  |
| 411.77 | 411.89 QV |  | 2 pale white, $<\mathrm{cm}->2 \mathrm{~cm}$ wide, quartz-, +/- minor chlorite-, +/- pyrite bearing, +/-zoned (as described before) veins are orientated steep to CA and enveloped by bleached (primary textures obliterated), minor dissemianted speckled - hairline pyrite bearing, partially non magneitc, partially soft halo from $411.7-412.4 \mathrm{~m}$. Overlying and underlying material (vein bearing diorite) is very weakly K-feldspar- and epidote beaing (from approx $404-414 \mathrm{~m}$ ?) | J294134 | 411.70 | 412.10 | 0.40 | 0.550 | 3.1 |  |


| Lithology |  |  |  | Assays |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To ${ }^{\text {To }}$ | M Lith | Lithology Notes | Sample | From | To | Interval | Au PPM | Ag PPM | Cu \% |
| 425.00 | 430.30 SIL |  | Moderate, patchy bleaching, predominantly hard, locally soft grades to vein reminiscent outlines ( $\mathrm{cm}-\mathrm{few} \mathrm{cm}$ wide bands) with variable orientation and predomiantly comprising quartz?, +/- calcite, a pale, soft unknown mineral (possibly gypsum?) and +/- minor K-feldspar. |  |  |  |  |  |  |  |
| 430.30 | 432.15 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | $\begin{aligned} & \hline \text { J294069 } \\ & \text { J294068 } \end{aligned}$ | $\begin{aligned} & 430.85 \\ & 431.69 \end{aligned}$ | $\begin{aligned} & 431.69 \\ & 432.10 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 0.84 \\ & 0.41 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 0.018 \\ & 0.009 \end{aligned}$ | $\begin{aligned} & 0.2 \\ & 0.4 \\ & \hline \end{aligned}$ |  |
| 432.15 | 432.33 QCV |  | Diorite is moderately - strongly veined with < 2cm wide, calcite veins, quartz veins and quartz-, calcite veins @ 60 deg to CA - subvertical to CA. A portion of the veins is prominently pyrite bearing: Wisps grading to clots and iregualr bands/ stringer (up to cm scale and subparallel to vein contacts). Pyrite appears to be preferrably associated with quartz rather than calcite, locally grading to zoned, $<\mathrm{cm}$ wide pyrite-, quartz vein. Primary textures of hosting diorite are +/- obliterated by K-feldspar bearing, patchy - stringer reminiscent alteration (for example a 3 cm wide, bleached, K-feldspar bearing halo enveloping a pale hairline @ oblique angle to CA ) and material bears trace - minor, dissemianted - speckled pyrite. Weak slickensides on fracture plane coincident with LC of white, barren quartz veins @ 70 deg to CA? | J294135 | 432.10 | 432.41 | 0.31 | 6.910 | 4.1 |  |
| 432.33 | 436.26 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | $\begin{aligned} & \hline \text { J294070 } \\ & \text { J294071 } \end{aligned}$ | $\begin{aligned} & 432.41 \\ & 433.11 \end{aligned}$ | $\begin{aligned} & 433.11 \\ & 435.01 \end{aligned}$ | $\begin{aligned} & \hline 0.70 \\ & 1.90 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0.002 \\ & 0.017 \end{aligned}$ | $\begin{aligned} & 0.2 \\ & 0.2 \\ & \hline \end{aligned}$ |  |
| 436.26 | 464.00 LAMP |  | Lamprophyre, reminiscent to previoulsly described, presuambly mafic? intrusions (magnetic, calcareous): Within large portions of this itnerval the dark coloured, indistinct spots (amounting to $>25 \%$ ) may be $>5 \mathrm{~mm}$, resulting in a relatively (in comparison to previously described lamprophyres) coarse appearing texture. A portion of the dark coloured outlines is concentrically zoned, with palish, $+/-$ calcareous, $+/-$ minor clay mineral bearing? centers. Locally similar?/ same? outlines display a reverse zoning with dark coloured centers and pale, predomiantly non calcareous, very soft, presumably clay mineral bearing halos: Altered mineral grains?, vesicles? Few scattered inclusions of host rock: Xenoliths?, clipping fingering contact? or contact subparallel to CA? Locally slickensides on fracture planes for example at 449.8 m : @ 10 deg to CA; at 454.15 m : subparallel to CA; 455.9 m : @ 35 deg to CA with minor, < mm, pale, highly calcareous gouge. UC: Sharp, distinct, extends from 436.26-438m subparallel to CA, associated with slickensides and < mm, calcareous gouge seam on fracture plane subparallel to CA. LC: Sharp, distinct, @ 75 deg to CA. | J294063 | 346.15 | 346.32 | 0.17 | 0.032 | 0.6 |  |
| 464.00 | 467.83 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | J294073 | 466.45 | 467.65 | 1.20 | 0.029 | 0.5 |  |
| 467.83 | 467.87 QV |  | Quartz- (white), chlorite-, pyrite vein @ +/- subvertical (slighly wavy) orientation to CA. Green clorite establishes inconsistant, irregualr, $<1 \mathrm{~cm}$ to $<2 \mathrm{~cm}$ wide, coarse angular appearing, band near the center of the vein, subparallel to vein contacts and sandwiched betweeen overlying and underlying, cm scale, white quartz (i.e. prominetly zoned). Vein is enveloped by bleached halo (minor, disseminated - speckled - wispy - hairline pyrite bearing) from 467.77 - 468.03, that bears another two +/- quartz, +/- chlorite, +/- calcite, +/- pyrite bearing veins: < 5 mm and orientated subvertical to 50 deg to CA. | J294072 | 467.65 | 467.77 | 0.12 | 0.301 | 0.6 |  |
| 467.87 | 470.67 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | $\begin{aligned} & \hline \text { J294136 } \\ & \text { J294074 } \\ & \text { J294075 } \\ & \text { J294137 } \end{aligned}$ | $\begin{aligned} & 467.77 \\ & 468.03 \\ & 468.27 \\ & 470.37 \end{aligned}$ | $\begin{aligned} & 468.03 \\ & 468.27 \\ & 468.70 \\ & 470.67 \end{aligned}$ | $\begin{aligned} & \hline \hline 0.26 \\ & 0.24 \\ & 0.43 \\ & 0.30 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \hline 3.080 \\ & 0.098 \\ & 0.022 \\ & 0.460 \end{aligned}$ | $\begin{aligned} & \hline \hline 1.7 \\ & 0.6 \\ & 0.5 \\ & 1.2 \end{aligned}$ |  |
| 470.67 | 471.06 QV |  | White quartz vein bears minor, wispy chlorite, +/- aligned to vein contacts and minor pyrite:Wisps, grading to small clots are +/- associated with chlorite. UC and LC: Distinct, subvertical to CA. Vein is enveloped by weakly moderately bleached halo (non- to weakly magnetic, minor dissemianted - speckled, + /- euhedral - subhedral pyrite bearing from approx 470.2 - approx 471.5 m | J294138 | 470.67 | 471.06 | 0.39 | 0.070 | 0.6 |  |
| 471.06 | 472.00 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 | $\begin{aligned} & \hline \text { J294139 } \\ & \text { J294076 } \\ & \text { J294078 } \end{aligned}$ | $\begin{aligned} & 471.06 \\ & 471.36 \\ & 471.83 \end{aligned}$ | $\begin{aligned} & \hline \hline 471.36 \\ & 471.83 \\ & 472.56 \end{aligned}$ | $\begin{aligned} & \hline 0.30 \\ & 0.47 \\ & 0.73 \end{aligned}$ | $\begin{aligned} & \hline 7.230 \\ & 1.420 \\ & 0.191 \end{aligned}$ | $\begin{aligned} & \hline 1.4 \\ & 2.1 \\ & 1.2 \end{aligned}$ |  |


| Lithology |  |  |  |  | Assays |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To Lith | M Lith | Lithology Notes |  | Sample | From | To | Interval | Au PPM | Ag PPM | Cu \% |
| 472.00 | 478.00 KALT |  | Weak K-feldspar alteration detectable: Trace - minor disseminated K-feldspar dissemianted in diorite, pinkish tinted veins indicate minor K-feldspar as constituent of $+/-$ quartz-, $+/$ - calcite veins. |  |  |  |  |  |  |  |  |
| 478.00 | 481.50 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 |  |  |  |  |  |  |  |  |
| 481.50 | 486.00 EALT |  | Weak - locally moderate epidote (+/- K-feldspar) as constituent of patchy, +/- inconsistant veins and dissemianted as constituent of diorite. A portion of the alleged veins display weak relict dioritic texture indicating at least partially patchy - vein reminiscent alteration rather than open fracture filling. |  |  |  |  |  |  |  |  |
| 486.00 | 490.40 DIOR |  | Diorite - usual - see | . 5 to 35.66 |  |  |  |  |  |  |  |
| 490.40 | 490.60 FLT |  | Slickensides on fracture plane subparallel to CA. |  |  |  |  |  |  |  |  |
| 490.60 | 493.33 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 |  |  |  |  |  |  |  |  |
| 493.33 | 497.50 LAMP |  | Fine grained, +/- massive, +/- aphanitic, very finely dark spotted (< mm, chlorite altered mafics? as described before), calcareous, moderately magnetic, vesicular/ amygdaloid lamprophyre as described before. UC: Sharp, distinct, along slickenside bearing fracture plane subparallel to CA. LC: Sharp, distinct, along slickenside bearing and shiny polished fracture plane @ 30 deg to CA. |  |  |  |  |  |  |  |  |
| 497.50 | 499.00 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 |  |  |  |  |  |  |  |  |
| 499.00 | 504.40 LAMP |  | Lamprophyre, as described before: Very prominetly amygdaloid near UC over approx 30 cm (displays > 15\%?, < 1.5 cm , pale beige greenish amygdules: Filled with quartz-, epidote? Moderately magnetic, non calcareous (the hosting diorite is still very weakly clacite beraring) UC: Sharp, distinct, weakly irregualr, approx @ 25 deg to CA. Sharp, distinct, @ 35 deg to CA. |  |  |  |  |  |  |  |  |
| 504.40 | 505.80 DIOR |  | Diorite - usual - see large text 34.5 to 35.66 |  |  |  |  |  |  |  |  |
| 505.80 | 506.05 LAMP |  | Clipping lamprophyre: Lamprophyre inclusion indicating nearby lamprophyre. 506.05 is EOH |  |  |  |  |  |  |  |  |






To:ANGLO SWISS RESOURCES INC

## CERTIFICATE VA10178746

## Project: Kenville Mine

P.O. No.:

This report is for 41 Drill Core samples submitted to our lab in Vancouver, BC. Canaca on 30-NOV-2010
The following have access to data associated with this certificate: ANGLO SWISS RESOURCES $\qquad$ LLOVD PENNER

TO: ANCLO SWISS RESOURCES INC.
309-837 W HASTINGS ST.
VANCOUVER BC V6C 3N6

| SAMPLE PREPARATION |  |  |
| :---: | :---: | :---: |
| ALS CODE | DESCRIPTION |  |
| WEL-21 | Received Sample Weight |  |
| LOC-21 | Sample logging - ClientBarCode |  |
| CRU-QC | Crushing QC Test |  |
| PUL-QC | Pulverizing QC Test |  |
| CRU- 31 | Fine crushing - $70 \%<2 \mathrm{~mm}$ |  |
| SPL-21 | Split sample-riffle splituer |  |
| Pul. 31 |  |  |
|  | Pulp Login - Revd with Barcode |  |
| ANALYTICAL PROCEDURES |  |  |
| ALS CODE | DESCRIPTION | INSTRUMENT |
|  | Ore Grade Ag Aqua Regia | Variable |
| ME. OG46 | Ore Grade Elements - AquaRegia | 1CP. AES |
| Cu -OC46 | Ore Crade Cu - Aqua Regia | VARIABLE |
| $\mathrm{Pb} \text { - OG46 }$ | Ore Grade Pb- Aqua Regia | VARIABLE |
| Zn -OG46 | Ore Grade Zn - Aqua Regia | Vartable |
| Al-Graz 1 | Au 30 g FA-GRAV finish | WST- SIM |
| ME- 1CP41 | 35 Element Aqua Regia ICP.AES | ICP-AES |

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been cheched and approved for release.


Colin Ramshaw, Vancouver Laboratory Manager

Project: Kenville Mine
minerals

| Sample DescriptionMethod <br> Analyte <br> Units <br> LOR | WE-21 <br> Recved wh. <br> 1 g <br> 602 | $\begin{gathered} \text { Au-GRA21 } \\ \text { Au } \\ \text { ppm } \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { MF. } 10941 \\ \text { Ag } \\ \text { ppm } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME ICPA1 } \\ \text { A1 } \\ \text { * } \\ \text { OO1 } \end{gathered}$ | $\begin{gathered} \text { AE KCPMI } \\ \text { As } \\ \text { ppm } \\ \frac{2}{2} \end{gathered}$ | $\begin{gathered} \text { ME- IC24 } \\ 8 \\ \text { gpmit } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME. }\|C P Q\| \\ \mathrm{Bz} \\ \text { ppon } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME ICP4] } \\ \text { Be } \\ \text { ppm } \\ 0.5 \end{gathered}$ | $\begin{gathered} \text { ME CPA1 } \\ 3 \\ \text { ppn } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME ICPA1 } \\ \mathrm{Ca} \\ \mathrm{x} \\ 0.01 \end{gathered}$ | $\begin{aligned} & \text { ME. } 15841 \\ & \text { Cd } \\ & \text { pom } \\ & 0.5 \end{aligned}$ | $\begin{gathered} \text { ME CP41 } \\ \text { Co } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME ICTM1 } \\ C r \\ \text { DSm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME ICP41 } \\ \text { Cu } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME. ICP4I } \\ \text { Fo } \\ x \\ 801 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1294100 <br> J294101 <br> J294102 <br> 1294103 <br> J294104 | $\begin{aligned} & 0.90 \\ & 0.66 \\ & 0.64 \\ & 1.02 \\ & 0.74 \end{aligned}$ | $\begin{aligned} & 026 \\ & 284 \\ & 207 \\ & 077 \\ & 022 \end{aligned}$ | $\begin{aligned} & 2.6 \\ & 6.7 \\ & 1.1 \\ & 62 \\ & 0.7 \end{aligned}$ | $\begin{aligned} & 1.30 \\ & 0.77 \\ & 1.54 \\ & 1.42 \\ & 1.19 \end{aligned}$ | $\begin{aligned} & <2 \\ & 3 \\ & 2 \\ & 4 \\ & 2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 90 \\ & 40 \\ & 30 \\ & 60 \\ & 50 \end{aligned}$ | $\begin{gathered} 0.6 \\ <0.5 \\ 0.6 \\ 0.5 \\ 0.5 \end{gathered}$ | $<2$ $e$ $<2$ $<2$ | $\begin{aligned} & 1.50 \\ & 180 \\ & 350 \\ & 216 \\ & 4.33 \end{aligned}$ | $\begin{gathered} 69 \\ 32.6 \\ 152.5 \\ 14 \\ 26 \end{gathered}$ | $\begin{aligned} & 13 \\ & 11 \\ & 15 \\ & 120 \\ & 11 \end{aligned}$ | $\begin{aligned} & 4 \\ & 3 \\ & 2 \\ & 3 \\ & 2 \end{aligned}$ | $\begin{gathered} 823 \\ 2160 \\ 127 \\ 2930 \\ 215 \end{gathered}$ | $\begin{aligned} & 2.83 \\ & 3.84 \\ & \$ .52 \\ & 5.87 \\ & 8.00 \end{aligned}$ |
| $\begin{aligned} & 1294105 \\ & 1294106 \\ & 1294107 \\ & 1294108 \\ & 1294109 \end{aligned}$ | $\begin{aligned} & 1.56 \\ & 0.68 \\ & 2.30 \\ & 0.50 \\ & 0.82 \end{aligned}$ | $\begin{gathered} 0.34 \\ 0.25 \\ 00.06 \\ 015 \\ 3.10 \end{gathered}$ | $\begin{aligned} & 119 \\ & 27 \\ & 002 \\ & 30 \\ & 257 \end{aligned}$ | $\begin{aligned} & \hline 0.59 \\ & 1.43 \\ & 1.80 \\ & 1.38 \\ & 1.38 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 3 \\ & 2 \\ & 3 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 50 \\ & 60 \\ & 50 \\ & 90 \\ & 50 \end{aligned}$ | $\begin{aligned} & 0.5 \\ & 0.5 \\ & <0.5 \\ & 0.5 \\ & 0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & 6 \end{aligned}$ | $\begin{aligned} & 2.86 \\ & 204 \\ & 3.27 \\ & 303 \\ & 1.71 \end{aligned}$ | $\begin{aligned} & 67 \\ & 09 \\ & 005 \\ & 05 \\ & 12 \end{aligned}$ | $\begin{aligned} & 10 \\ & 13 \\ & 13 \\ & 20 \\ & 14 \end{aligned}$ | $\begin{aligned} & 3 \\ & 2 \\ & 2 \\ & 3 \\ & 2 \\ & 2 \end{aligned}$ | $\begin{gathered} \hline 6690 \\ 1680 \\ 61 \\ 3150 \\ >10000 \end{gathered}$ | $\begin{aligned} & 3.28 \\ & 3.11 \\ & 3.27 \\ & 3.52 \\ & 3.84 \end{aligned}$ |
| $\begin{aligned} & 1294110 \\ & 1294111 \\ & 1294112 \\ & 1294113 \\ & 1294114 \end{aligned}$ | $\begin{aligned} & 0.74 \\ & 2.56 \\ & 110 \\ & 2.06 \\ & 0.72 \end{aligned}$ | $\begin{aligned} & 0.07 \\ & 0.19 \\ & 0.40 \\ & 0.10 \\ & 353 \end{aligned}$ | $\begin{aligned} & 04 \\ & 0.3 \\ & 3.9 \\ & 2.5 \\ & 2.8 \end{aligned}$ | $\begin{aligned} & 1.06 \\ & 1.62 \\ & 0.88 \\ & 1.29 \\ & 1.69 \end{aligned}$ | $\begin{aligned} & \hline 2 \\ & 2 \\ & <2 \\ & 3 \\ & 3 \\ & 3 \end{aligned}$ | $\begin{aligned} & \text { c10 } \\ & <10 \\ & =10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 50 \\ & 30 \\ & 120 \\ & 20 \\ & 40 \end{aligned}$ | $\begin{gathered} 0.5 \\ 0.5 \\ 0.5 \\ 0.5 \\ 0.5 \end{gathered}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & 4 \end{aligned}$ | $\begin{aligned} & 456 \\ & 292 \\ & 414 \\ & 3.33 \\ & 3.99 \end{aligned}$ | $\begin{aligned} & 0.6 \\ & 0.5 \\ & 18 \\ & 00.5 \\ & 07 \end{aligned}$ | $\begin{aligned} & 11 \\ & 14 \\ & 13 \\ & 14 \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 1 \\ & 2 \\ & 3 \end{aligned}$ | $\begin{gathered} 302 \\ 568 \\ 1275 \\ 1540 \\ 308 \end{gathered}$ | 3.05 3.45 3.56 3.57 3.82 |
| $\begin{aligned} & 1294115 \\ & 1294116 \\ & 1294117 \\ & 1294118 \\ & 1294119 \end{aligned}$ | $\begin{aligned} & 0.78 \\ & 0.76 \\ & 1.82 \\ & 1.12 \\ & 1.02 \end{aligned}$ | $\begin{aligned} & \hline 0.05 \\ & 0.14 \\ & 1.15 \\ & 2005 \\ & 5.81 \end{aligned}$ | 0.7 <br> $<02$ <br> 0.8 <br> 42 <br> 121 | $\begin{aligned} & 168 \\ & 211 \\ & 0.97 \\ & 2.04 \\ & 0.74 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & <2 \\ & 2 \\ & 3 \\ & 2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 10 \\ & 50 \\ & 10 \\ & 50 \\ & 30 \end{aligned}$ | $\begin{aligned} & 0.5 \\ & 0.5 \\ & 00.5 \\ & <0.5 \\ & 0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & 2 \\ & 2 \\ & 17 \end{aligned}$ | $\begin{aligned} & 440 \\ & 312 \\ & 531 \\ & 309 \\ & 266 \end{aligned}$ | $\begin{gathered} <0.5 \\ <0.5 \\ 07 \\ 20.5 \\ 36 \end{gathered}$ | $\begin{aligned} & 13 \\ & 16 \\ & 15 \\ & 15 \\ & 11 \end{aligned}$ | $\begin{aligned} & 3 \\ & 3 \\ & 2 \\ & 3 \\ & 4 \end{aligned}$ | $\begin{aligned} & \hline 666 \\ & 68 \\ & 269 \\ & 22 \\ & 819 \end{aligned}$ | $\begin{aligned} & 3.62 \\ & 4.10 \\ & 274 \\ & 3.69 \\ & 2.91 \end{aligned}$ |
| 1294120 1294121 1294122 1294123 1294124 | $\begin{aligned} & 0.08 \\ & 1.14 \\ & 2.40 \\ & 6.18 \\ & 1.12 \end{aligned}$ | $\begin{gathered} 064 \\ 111.5 \\ 47.2 \\ 0.30 \\ 13.60 \end{gathered}$ | $\begin{gathered} \hline 24 \\ 58.1 \\ 51.4 \\ 0.7 \\ 11.2 \end{gathered}$ | $\begin{aligned} & 1.31 \\ & 1.30 \\ & 1.17 \\ & 1.67 \\ & 1.35 \end{aligned}$ | $\begin{aligned} & 64 \\ & 4 \\ & 2 \\ & <2 \\ & 4 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 80 \\ & 60 \\ & 40 \\ & 40 \\ & 40 \end{aligned}$ | $\begin{gathered} 00.5 \\ 0.5 \\ 0.5 \\ 0.0 \\ 00.5 \end{gathered}$ | $\begin{gathered} k 2 \\ 242 \\ 76 \\ 2 \\ 2 \\ 16 \end{gathered}$ | $\begin{aligned} & 3.73 \\ & 311 \\ & 2.96 \\ & 5.23 \\ & 3.98 \end{aligned}$ | $\begin{aligned} & 18 \\ & 57 \\ & 664 \\ & 11 \\ & 67.5 \end{aligned}$ | $\begin{aligned} & 16 \\ & 21 \\ & 13 \\ & 13 \\ & 17 \end{aligned}$ | $\begin{aligned} & 24 \\ & 2 \\ & 4 \\ & 2 \\ & 1 \end{aligned}$ | $\begin{gathered} 4540 \\ 541 \\ 1.455 \\ 130 \\ 149 \end{gathered}$ | $\begin{aligned} & 496 \\ & 607 \\ & 400 \\ & 374 \\ & 4.24 \end{aligned}$ |
| 1294125 1294126 1294127 1294128 1294129 | $\begin{aligned} & 1.74 \\ & 2.38 \\ & 2.02 \\ & 1.02 \\ & 1.32 \end{aligned}$ | $\begin{aligned} & \hline 0.81 \\ & 0.82 \\ & 0.31 \\ & 19.95 \\ & 1.28 \end{aligned}$ | $\begin{gathered} 20 \\ 09 \\ 1.8 \\ 28.2 \\ 3.7 \end{gathered}$ | $\begin{aligned} & 1.28 \\ & 1.51 \\ & 1.10 \\ & 1.23 \\ & 0.82 \end{aligned}$ | $\begin{aligned} & 3 \\ & 3 \\ & <2 \\ & 4 \\ & 4 \\ & <2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & k 10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 6 C \\ & 60 \\ & 50 \\ & 6 C \\ & 40 \end{aligned}$ | $\begin{aligned} & c 0.5 \\ & 0.6 \\ & 0.6 \\ & 20.5 \\ & <0.5 \end{aligned}$ | $\begin{gathered} \times 2 \\ \times 2 \\ 2 \\ 2 \\ 46 \\ 4 \end{gathered}$ | $\begin{aligned} & 299 \\ & 387 \\ & 371 \\ & 313 \\ & 275 \end{aligned}$ | 25 20 08 1870 14 | $\begin{gathered} 11 \\ 13 \\ 12 \\ 12 \\ 8 \end{gathered}$ | $\begin{aligned} & 5 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 5 \end{aligned}$ | $\begin{aligned} & 357 \\ & 276 \\ & 453 \\ & 410 \\ & 1115 \end{aligned}$ | $\begin{aligned} & 237 \\ & 289 \\ & 3.30 \\ & 6.07 \\ & 2.06 \end{aligned}$ |
| 1294130 1294131 1294132 1294133 1294134 | $\begin{aligned} & 1.22 \\ & 2.42 \\ & 0.94 \\ & 1.82 \\ & 1.10 \end{aligned}$ | $\begin{aligned} & 579 \\ & 88.1 \\ & 0.07 \\ & 1.36 \\ & 0.55 \end{aligned}$ | $\begin{gathered} 54 \\ >100 \\ 3.4 \\ 1.4 \\ 31 \end{gathered}$ | $\begin{aligned} & 1.56 \\ & 0.09 \\ & 1.15 \\ & 211 \\ & 1.57 \end{aligned}$ | $\begin{aligned} & <2 \\ & 2 \\ & <2 \\ & 3 \\ & 3 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 86 \\ & 10 \\ & 100 \\ & 80 \\ & 70 \end{aligned}$ | $\begin{gathered} 0.5 \\ 80.5 \\ 0.5 \\ 0.5 \\ 0.5 \end{gathered}$ | $\begin{gathered} 8 \\ 238 \\ \times 2 \\ 2 \\ \times 2 \end{gathered}$ | $\begin{aligned} & 371 \\ & 011 \\ & 365 \\ & 474 \\ & 3.26 \end{aligned}$ | $\begin{aligned} & 42 \\ & 556 \\ & 23 \\ & 37 \\ & 13 \end{aligned}$ | $\begin{gathered} 12 \\ 7 \\ 10 \\ 13 \\ 12 \end{gathered}$ | $\begin{aligned} & 2 \\ & 9 \\ & 2 \\ & 1 \\ & 41 \end{aligned}$ | $\begin{aligned} & 1480 \\ & 8030 \\ & 1545 \\ & 342 \\ & 1565 \end{aligned}$ | $\begin{aligned} & 2.37 \\ & 7.52 \\ & 270 \\ & 3.24 \\ & 2.65 \end{aligned}$ |
| 1294135 1294136 1294137 1294138 1294139 | 0.86 0.66 0.82 0.96 0.78 | $\begin{aligned} & 6.91 \\ & 3.08 \\ & 0.26 \\ & 0.07 \\ & 7.23 \end{aligned}$ | $\begin{aligned} & \hline 41 \\ & 1.7 \\ & 1.2 \\ & 0.6 \\ & 1.4 \end{aligned}$ | $\begin{aligned} & 1.41 \\ & 1.20 \\ & 1.51 \\ & 0.16 \\ & 1.36 \end{aligned}$ | $\begin{aligned} & 4 \\ & <2 \\ & <2 \\ & <2 \\ & 4 \end{aligned}$ | $\begin{aligned} & c 10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 70 \\ & 70 \\ & 76 \\ & 10 \\ & 70 \end{aligned}$ | $\begin{aligned} & 20.5 \\ & 0.5 \\ & 0.5 \\ & <0.5 \\ & 0.5 \end{aligned}$ | $\begin{aligned} & 12 \\ & \times 2 \\ & \times 2 \\ & 2 \\ & 2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3.53 \\ & 4.14 \\ & 458 \\ & 0.32 \\ & 4.56 \end{aligned}$ | $\begin{aligned} & 61 \\ & 08 \\ & 10 \\ & 05 \\ & 33 \end{aligned}$ | $\begin{gathered} 12 \\ 12 \\ 13 \\ 2 \\ 17 \end{gathered}$ | $\begin{aligned} & 2 \\ & 2 \\ & 1 \\ & 8 \\ & 1 \end{aligned}$ | $\begin{aligned} & 721 \\ & 372 \\ & 306 \\ & 24 \\ & 286 \end{aligned}$ | $\begin{aligned} & 3.35 \\ & 3.96 \\ & 3.15 \\ & 0.79 \\ & 3.11 \end{aligned}$ |


| Sample DescriptionMethod <br> Analybe <br> Units <br> LOR | $\begin{gathered} \mathrm{u}=-\mathrm{CDN} 1 \\ \mathrm{Ca} \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME } \text { CCP41 } \\ \text { Hg } \\ \text { pom } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME. } C P 41 \\ K \\ K \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { M5. }\|C P \&\| \\ L 4 \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME } \mathrm{KCP4}) \\ \mathrm{Mg} \\ \mathrm{~K} \\ 0.01 \end{gathered}$ | $\begin{aligned} & \text { ME-KCP I } \\ & \text { Mn } \\ & \text { PDM } \\ & 5 \end{aligned}$ | $\begin{gathered} \text { ME- KCF41 } \\ \text { Mo } \\ \text { porn } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME KCR41 } \\ \text { Ma } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME ICP41 } \\ \text { Ni } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { NE XCP41 } \\ \mu \\ \text { pem } \\ 15 \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ \text { Pb } \\ \text { Ppmin } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME. CP41 } \\ 5 \\ 5 \\ 0,01 \end{gathered}$ | $\begin{gathered} \text { ME-iCP4] } \\ \text { Sb } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME [CPMI } \\ \text { s } \\ \text { oom } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME: CPal } \\ \text { Se } \\ \text { ppen } \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1294100 \\ & 1294101 \\ & 1294102 \\ & 1294103 \\ & 1294104 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & c 1 \\ & c 1 \\ & k 1 \\ & k 1 \\ & c 1 \end{aligned}$ | $\begin{aligned} & 0.71 \\ & 0.33 \\ & 0.57 \\ & 0.79 \\ & 0.64 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.75 \\ & 0.53 \\ & 1.07 \\ & 0.84 \\ & 0.95 \end{aligned}$ | $\begin{aligned} & 1262 \\ & 1409 \\ & 1805 \\ & 832 \\ & 1855 \\ & 185 \end{aligned}$ | $\begin{aligned} & <1 \\ & 4 \\ & c 1 \\ & 15 \end{aligned}$ | 0.04 <br> 0.04 <br> 0.04 <br> 0.06 <br> 0.04 | $\begin{aligned} & 2 \\ & 2 \\ & 2 \\ & 2 \\ & 2 \end{aligned}$ | $\begin{aligned} & 1630 \\ & 1230 \\ & 1810 \\ & 1540 \\ & 1440 \end{aligned}$ | $\begin{gathered} 45 \\ 291 \\ 13 \\ 3 \\ 7 \end{gathered}$ | $\begin{aligned} & 0.03 \\ & 1.40 \\ & 1.79 \\ & 3.99 \\ & 0.80 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 3 \\ & 2 \\ & 3 \end{aligned}$ | $\begin{aligned} & 111 \\ & -45 \\ & 446 \\ & 120 \\ & 431 \end{aligned}$ |
| $\begin{aligned} & 1294105 \\ & 1294106 \\ & 1294107 \\ & 1294108 \\ & 1294109 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & 10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & \hline \alpha 1 \\ & c 1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.41 \\ & 0.86 \\ & 1.15 \\ & 0.61 \\ & 0.67 \end{aligned}$ | $\begin{aligned} & 10 \\ & <10 \\ & \kappa 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.78 \\ & 0.90 \\ & 107 \\ & 0.56 \\ & 1.0 \end{aligned}$ | $\begin{gathered} 1305 \\ 835 \\ 1239 \\ 1005 \\ 903 \end{gathered}$ | $\begin{aligned} & 1 \\ & 2 \\ & <1 \\ & <1 \\ & 4 \end{aligned}$ | 0.04 <br> 0.00 <br> 0.00 <br> 0.07 <br> 0.07 | $\begin{aligned} & 1 \\ & 2 \\ & 2 \\ & 3 \\ & 2 \end{aligned}$ | $\begin{aligned} & 1530 \\ & 1570 \\ & 1750 \\ & 1840 \\ & 1630 \end{aligned}$ | $\begin{aligned} & \hline 56 \\ & 3 \\ & 3 \\ & 2 \\ & 3 \\ & 6 \end{aligned}$ | $\begin{aligned} & 0.90 \\ & 0.21 \\ & 20.01 \\ & 0.43 \\ & 0.79 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 2 \\ & 3 \\ & 2 \\ & 3 \\ & 2 \end{aligned}$ | $\begin{aligned} & 320 \\ & 164 \\ & 144 \\ & 163 \\ & 106 \end{aligned}$ |
| $\begin{aligned} & 1294110 \\ & 1294111 \\ & 1294112 \\ & 1294113 \\ & 1294114 \end{aligned}$ | $\begin{gathered} <10 \\ 10 \\ <10 \\ 10 \\ <10 \\ \hline \end{gathered}$ | $\begin{aligned} & k 1 \\ & k 1 \\ & k 1 \\ & -1 \\ & -1 \end{aligned}$ | $\begin{aligned} & 0 . \overline{66} \\ & 0.86 \\ & 0.61 \\ & 0.62 \\ & 1.08 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.90 \\ & 107 \\ & 0.78 \\ & 1.03 \\ & 166 \end{aligned}$ | $\begin{aligned} & 1695 \\ & 1195 \\ & 1620 \\ & 1310 \\ & 1355 \end{aligned}$ | $\begin{aligned} & \text { s } \\ & <1 \\ & 10 \\ & \$ 1 \\ & 1 \\ & \hline \end{aligned}$ | $\begin{aligned} & 0.07 \\ & 0.07 \\ & 0.03 \\ & 0.04 \\ & 0.06 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 1 \\ & 2 \\ & 3 \\ & 3 \end{aligned}$ | $\begin{aligned} & 1630 \\ & 1750 \\ & 1720 \\ & 1630 \\ & 1540 \end{aligned}$ | $\begin{gathered} 3 \\ <2 \\ 4 \\ 42 \\ 11 \end{gathered}$ | $\begin{aligned} & 0.51 \\ & 0.07 \\ & 1.20 \\ & 0.14 \\ & 1.01 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3 \\ & 4 \\ & 2 \\ & 3 \\ & 4 \end{aligned}$ | $\begin{aligned} & 407 \\ & 187 \\ & 335 \\ & 189 \\ & 296 \end{aligned}$ |
| $\begin{aligned} & 1294115 \\ & 1294116 \\ & 1294117 \\ & 1294118 \\ & 1294119 \end{aligned}$ | $\begin{gathered} 10 \\ 10 \\ <10 \\ 10 \\ <10 \end{gathered}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & k 1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.44 \\ & 1.15 \\ & 0.30 \\ & 1.48 \\ & 0.47 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 1.17 \\ & 1.43 \\ & 0.91 \\ & 1.47 \\ & 0.76 \end{aligned}$ | $\begin{aligned} & 1603 \\ & 1225 \\ & 2281 \\ & 1510 \\ & 1051 \\ & 1051 \end{aligned}$ | $\begin{aligned} & \kappa 1 \\ & <1 \\ & 4 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.07 \\ & 0.10 \\ & 0.03 \\ & 0.09 \\ & 0.04 \end{aligned}$ | $\begin{aligned} & 3 \\ & 4 \\ & 1 \\ & 4 \\ & 2 \\ & 2 \end{aligned}$ | $\begin{aligned} & 1620 \\ & 1840 \\ & 1390 \\ & 1630 \\ & 1180 \end{aligned}$ | $\begin{gathered} 3 \\ <2 \\ 8 \\ 2 \\ 2 \\ 1250 \end{gathered}$ | $\begin{aligned} & 0.06 \\ & 0.03 \\ & 1.24 \\ & <0.01 \\ & 1.11 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 5 \\ & 5 \\ & 3 \\ & 3 \\ & 3 \\ & 2 \end{aligned}$ | $\begin{aligned} & 377 \\ & 232 \\ & 621 \\ & 121 \\ & 271 \end{aligned}$ |
| $\begin{aligned} & 1294120 \\ & 1294121 \\ & 1294122 \\ & 1294123 \\ & 1294124 \end{aligned}$ | $\begin{aligned} & c \neq 0 \\ & <10 \\ & <10 \\ & 10 \\ & <10 \end{aligned}$ | $\begin{aligned} & k 1 \\ & \& 1 \\ & k 1 \\ & k 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 0.23 \\ & 0.58 \\ & 0.60 \\ & 0.68 \\ & 0.31 \end{aligned}$ | $\begin{aligned} & 10 \\ & <10 \\ & <10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 119 \\ & 0.74 \\ & 0.70 \\ & 1.26 \\ & 1.05 \end{aligned}$ | $\begin{gathered} 718 \\ 1585 \\ 1060 \\ 1785 \\ 17245 \end{gathered}$ | $\begin{gathered} \hline 35 \\ 2 \\ -1 \\ 3 \\ 17 \end{gathered}$ | $\begin{aligned} & 0.08 \\ & 0.02 \\ & 0.05 \\ & 0.08 \\ & 0.09 \end{aligned}$ | $\begin{gathered} 18 \\ 1 \\ 1 \\ 1 \\ 5 \\ 1 \end{gathered}$ | $\begin{aligned} & 1130 \\ & 1530 \\ & 1450 \\ & 1550 \\ & 1540 \end{aligned}$ | $\begin{gathered} 27 \\ 507 \\ 681 \\ 8 \\ 196 \end{gathered}$ | $\begin{aligned} & \hline 211 \\ & 6.5 \\ & 330 \\ & 0.06 \\ & 1.68 \end{aligned}$ | $\begin{gathered} 7 \\ <2 \\ <2 \\ <2 \\ <2 \\ <2 \end{gathered}$ | $\begin{aligned} & 8 \\ & 2 \\ & 2 \\ & 6 \\ & 6 \end{aligned}$ | $\begin{aligned} & 141 \\ & 328 \\ & 322 \\ & 314 \\ & 337 \end{aligned}$ |
| 1294125 1294126 1294127 1294128 1294129 | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & c 1 \\ & c 1 \\ & 1 \\ & 1 \\ & 1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.82 \\ & 0.83 \\ & 0.66 \\ & 0.76 \\ & 0.42 \end{aligned}$ | $\begin{aligned} & \text { स10 } \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.68 \\ & 0.50 \\ & 0.58 \\ & 0.80 \\ & 0.54 \end{aligned}$ | $\begin{aligned} & 1260 \\ & 1630 \\ & 1420 \\ & 14150 \\ & 106 \end{aligned}$ | $\begin{gathered} \hline 23 \\ 2 \\ <1 \\ 2 \\ <1 \end{gathered}$ | 0.06 0.03 0.06 0.06 0.05 | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 2 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 1160 \\ & 1610 \\ & 1680 \\ & 1350 \\ & 1000 \end{aligned}$ | $\begin{gathered} 10 \\ 13 \\ 7 \\ 33 \\ 10 \end{gathered}$ | $\begin{aligned} & 0.89 \\ & 1.30 \\ & 0.51 \\ & 4.68 \\ & 0.62 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & 2 \\ & 2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 3 \\ & 3 \\ & 1 \end{aligned}$ | $\begin{aligned} & 222 \\ & 333 \\ & 439 \\ & 499 \\ & 234 \end{aligned}$ |
| $\begin{aligned} & 1294130 \\ & 1294131 \\ & 1294132 \\ & 1294133 \\ & 1294134 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & \text { ब1 } \\ & \text {-1 } \\ & \text { \&1 } \\ & \text { \&1 } \end{aligned}$ | $\begin{aligned} & 0.77 \\ & 0.05 \\ & 0.69 \\ & 1.27 \\ & 0.67 \end{aligned}$ | $\begin{aligned} & 10 \\ & =10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.68 \\ & 0.03 \\ & 0.74 \\ & 0.99 \\ & 0.86 \end{aligned}$ | $\begin{gathered} 1670 \\ 107 \\ 1198 \\ 1710 \\ 1310 \end{gathered}$ | $\begin{gathered} 3 \\ 4 \\ 19 \\ <1 \\ 32 \end{gathered}$ | $\begin{aligned} & 0.02 \\ & 0.00 \\ & 0.06 \\ & 0.09 \\ & 0.04 \end{aligned}$ | $\begin{gathered} \text { स1 } \\ <1 \\ 1 \\ 1 \\ <1 \end{gathered}$ | $\begin{gathered} 1670 \\ 30 \\ 1520 \\ 1700 \\ 1650 \end{gathered}$ | $\begin{gathered} 31 \\ >10000 \\ 42 \\ 108 \\ 18 \end{gathered}$ | $\begin{aligned} & 205 \\ & 89 \\ & 0.69 \\ & 100 \\ & 078 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{gathered} 1 \\ <1 \\ 2 \\ 2 \\ 3 \\ 2 \end{gathered}$ | $\begin{aligned} & 369 \\ & 11 \\ & 956 \\ & 382 \\ & 365 \end{aligned}$ |
| 1294135 1294136 1294137 1294138 1294139 | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.90 \\ & 0.59 \\ & 0.63 \\ & 0.08 \\ & 0.75 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.74 \\ & 1.37 \\ & 0.83 \\ & 0.06 \\ & 0.81 \end{aligned}$ | $\begin{aligned} & 1125 \\ & 1815 \\ & 1775 \\ & 166 \\ & 1830 \end{aligned}$ | $\begin{gathered} 32 \\ 3 \\ 2 \\ 18 \\ 2 \end{gathered}$ | 0.06 0.04 0.04 0.04 0.04 | $\begin{gathered} \hline 1 \\ 1 \\ 1 \\ c \mid \\ 1 \end{gathered}$ | $\begin{gathered} 1270 \\ 1480 \\ 1780 \\ 100 \\ 1770 \end{gathered}$ | $\begin{gathered} 24 \\ 8 \\ 8 \\ 8 \\ 6 \\ 14 \end{gathered}$ | $\begin{aligned} & 1.26 \\ & 1.58 \\ & 1.04 \\ & 0.30 \\ & 2.23 \end{aligned}$ | $\begin{aligned} & 42 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{gathered} 3 \\ 2 \\ 2 \\ 41 \\ 2 \end{gathered}$ | $\begin{aligned} & 268 \\ & 372 \\ & 435 \\ & 27 \\ & 601 \end{aligned}$ |


| Sample DescriptionMethod <br> Analyte <br> Units <br> LOR | $\begin{gathered} \text { ME. CCP4 } \\ \text { Th } \\ \text { ppm } \\ 20 \end{gathered}$ | $\begin{gathered} \text { ME [CP41 } \\ n \\ 5 \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME }-C^{2} \neq \mid \\ \pi \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { Me. } \mathrm{cco41} \\ u \\ \text { pom } \\ 10 \end{gathered}$ | ME ICP4I $\checkmark$ ppm 1 | $\begin{gathered} \text { Mf. cad } \\ W \\ \text { Wom } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME. ICAU } \\ 2 n \\ \text { pkn } \\ 2 \end{gathered}$ | $\begin{gathered} \text { Ag-OC45 } \\ \text { Ag } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \mathrm{Cu}_{4}-\mathrm{CO} 46 \\ \mathrm{Cu}_{0} \\ x \\ 0.001 \end{gathered}$ | $\begin{gathered} \text { Pb. OC46 } \\ \text { Ps } \\ \mathbf{N} \\ 0.001 \end{gathered}$ | $\begin{gathered} \mathrm{Zn}-\mathrm{OC} 46 \\ \mathrm{Zn} \\ \mathrm{x} \\ 0.001 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1294100 <br> 1294101 <br> 1294102 <br> 1294103 <br> 1294104 | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.04 \\ & 0.01 \\ & 0.07 \\ & 0.10 \\ & 0.04 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 54 \\ & 31 \\ & 50 \\ & 78 \\ & 40 \end{aligned}$ | $\begin{aligned} & 10 \\ & <10 \\ & <10 \\ & 10 \\ & <10 \end{aligned}$ | $\begin{gathered} 194 \\ 767 \\ 3360 \\ 61 \\ 82 \end{gathered}$ |  |  |  |  |
| $\begin{aligned} & 1294105 \\ & 1294106 \\ & 1294107 \\ & 1294108 \\ & 1294109 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.01 \\ & 010 \\ & 0.20 \\ & 0.02 \\ & 0.07 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & k 10 \\ & k 10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 31 \\ 95 \\ 115 \\ 67 \\ 103 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 88 \\ & 63 \\ & 44 \\ & 52 \\ & 62 \end{aligned}$ |  | 1.770 |  |  |
| $\begin{aligned} & 1294110 \\ & 1294111 \\ & 1294112 \\ & 1294713 \\ & 1294114 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.02 \\ & 0.09 \\ & 0.07 \\ & 0.09 \\ & 0.12 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & 10 \\ & <10 \\ & * 10 \end{aligned}$ | $\begin{gathered} 32 \\ 117 \\ 36 \\ 122 \\ 30 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{gathered} \hline 43 \\ 65 \\ 47 \\ 65 \\ 166 \end{gathered}$ |  |  |  |  |
| $\begin{aligned} & 1294115 \\ & 1294116 \\ & 1294117 \\ & 1294118 \\ & 1294119 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 003 \\ & 015 \\ & 001 \\ & 027 \\ & 001 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & \hline 114 \\ & 168 \\ & 37 \\ & 157 \\ & 36 \end{aligned}$ | $\begin{aligned} & \text { < } 81 \\ & 10 \\ & 10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 60 \\ & 79 \\ & 38 \\ & 72 \\ & 47 \end{aligned}$ |  |  |  |  |
| 1294120 1294121 1294122 1294123 1294124 | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.01 \\ & 0.01 \\ & 0.04 \\ & 0.15 \\ & 0.15 \end{aligned}$ | $\begin{aligned} & \ll 10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & \text { <10 } \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & \hline 84 \\ & 31 \\ & 51 \\ & 147 \\ & 123 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 168 \\ 54 \\ >10 c 00 \\ 96 \\ 1180 \\ \hline \end{gathered}$ |  |  |  | 1.578 |
| 1294125 1294126 1294127 1294128 1294129 | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.07 \\ & 0.05 \\ & 0.03 \\ & 0.06 \\ & 0.01 \end{aligned}$ | $\begin{aligned} & \text { c } 10 \\ & \times 10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 52 \\ & 44 \\ & 56 \\ & 73 \\ & 26 \\ & \hline \end{aligned}$ | $\begin{aligned} & c 10 \\ & 20 \\ & <>0 \\ & <10 \\ & \text { c } 10 \\ & \hline \end{aligned}$ | $\begin{gathered} 102 \\ 78 \\ 61 \\ 3820 \\ 51 \\ \hline \end{gathered}$ |  |  |  |  |
| 1294130 1294131 1294132 1294133 1294134 | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.01 \\ & 6001 \\ & 0.05 \\ & 0.10 \\ & 0.02 \end{aligned}$ | $\begin{aligned} & \text { र0 } \\ & =10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & =10 \\ & k 10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 28 \\ & 3 \\ & 50 \\ & 90 \\ & 42 \end{aligned}$ | $\begin{aligned} & 610 \\ & 10 \\ & 320 \\ & 10 \\ & 20 \\ & \hline \end{aligned}$ | $\begin{gathered} 120 \\ 3350 \\ 65 \\ 103 \\ 65 \\ \hline \end{gathered}$ | 132 |  | 1.695 |  |
| 1294135 1294136 1294137 1294138 1294139 | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.11 \\ & 0.01 \\ & 0.01 \\ & 0.01 \\ & 0.01 \end{aligned}$ | $\begin{aligned} & \text { स } 10 \\ & \leqslant 10 \\ & \leqslant 10 \\ & \times 10 \\ & \leqslant 10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 77 \\ & 46 \\ & 51 \\ & 4 \\ & 40 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <90 \end{aligned}$ | $\begin{aligned} & \hline 132 \\ & 98 \\ & 801 \\ & 11 \\ & 62 \end{aligned}$ |  |  |  |  |

TO: ANGLO SWISS RESOURCES INC.
309-837 W HASTINCS ST
VANCOUVER BC V6C 3N6

Page: 3 - A
Total \#Pages: 3 ( A - C) Finalized Date: 6-DEC- 2010 Account: ANSWRE

Project: Kenville Mine
CERTIFICATE OF ANALYSIS VA10178746



A15 Canada lid.
TO:ANGLO SWISS RESOURCES INC. 309-837 W HASTINCS ST

Page: 3 - C
2103 Dellarton Hwy
North Vancouver BC V7H 0A7
Phone: 6049840221 Fax: 6049840218 www alsglobal.com

Project: Kenville Mine
CERTIFICATE OF ANALYSIS VA10178746


## CERTIFICATE VA10183856

Project: Kenville Mine
P.O. No.:

This report is for 37 Drill Core samples submitted to our lab in Vancouver BC,
Canada on 7- DEC- 2010.
The following have access to data associated with this certificate: ANGLO SWISS RESOURCES

LLOYD PENNER

| SAMPLE PREPARATION |  |  |
| :---: | :---: | :---: |
| ALS CODE | DESCRIPTION |  |
| WEl-21 | Received Sample Weight |  |
| LOG-21 | Sample logging- ClientBarCode |  |
| CRU- QC | Crushing QC Test |  |
| PUL-QC | Pulverizing QC Test |  |
| CRU- 31 | Fine crushing - $70 \%<2 \mathrm{~mm}$ |  |
| SPL-21 | Split sample - riffle splitter |  |
| PUL-31 | Pulverize split to $85 \%<75 \mathrm{um}$ |  |
| LOG- 23 | Pulp Login - Revd with Barcode |  |
| ANALYTICAL PROCEDURES |  |  |
| ALS CODE | DESCRIPTION | INSTRUMENT |
| ME- OG46 | Ore Grade Elements - AquaRegia | ICP-AES |
| Cu- OG46 | Ore Grade Cu - Aqua Regia | VARIABLE |
| Au- GRA21 | Au 30 g FA- GRAV finish | WST- SIM |
| ME- ICP41 | 35 Element Aqua Regia ICP-AES | ICP-AES |


| SAMPLE PREPARATION |  |  |
| :---: | :---: | :---: |
| ALS CODE | DESCRIPTION |  |
| WEl-21 | Received Sample Weight |  |
| LOG-21 | Sample logging. ClientBarCode |  |
| CRU- QC | Crushing QC Test |  |
| PUL-QC | Pulverizing QC Test |  |
| CRU- 31 | Fine crushing - $70 \%<2 \mathrm{~mm}$ |  |
| SPL-21 | Split sample - riffle splitter |  |
| PUL-31 | Pulverize split to $85 \%<75$ um |  |
| LOG- 23 | Pulp Login - Revd with Barcode |  |
| ANALYTICAL PROCEDURES |  |  |
| ALS CODE | DESCRIPTION | INSTRUMENT |
| ME- OG46 | Ore Grade Elements - AquaRegia | ICP-AES |
| Cu- OG46 | Ore Grade Cu - Aqua Regia | VARIABLE |
| Au- GRA21 | Au 30 g FA- GRAV finish | WST- SIM |
| ME- ICP41 | 35 Element Aqua Regia ICP-AES | ICP-AES |

## SAMPLE PREPARATION

## ANALYTICAL PROCEDURES

To: ANGLO SWISS RESOURCES INC.
309-837 W HASTINGS ST
VANCOUVER BC V6C 3N6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager


Als Canada Ltd.

CERTIFICATE OF ANALYSIS VA10183856

| Sample Description | Method <br> Analyte Units LOR | $\begin{gathered} M E=1 C P C 1 \\ C a \\ \text { Ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- } \mathrm{ICP4} 4 \\ \mathrm{Hg} \\ \mathrm{ppm} \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ K \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME. ICP4 } \\ \text { La } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \mathrm{Mg} \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ \text { Mn } \\ \text { ppm } \\ 5 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ \text { Mo } \\ \text { pprn } \\ 1 \\ \hline \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ \mathrm{Na} \\ \% \\ 0.01 \\ \hline \end{gathered}$ | $\begin{gathered} \text { ME } \operatorname{CPP41} \\ \mathrm{Ni} \\ \mathrm{ppm} \\ 1 \\ \hline \end{gathered}$ | $\begin{gathered} \text { ME. } 1 C P 41 \\ p \\ \text { PFm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Fb } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- } \text { CP41 } \\ 5 \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- }[C P 4 \mid \\ 5 b \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- } \mathbf{I C P 4 \}} \\ \text { Sc } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME. } \operatorname{ICP41} \\ \mathrm{Sr} \\ \text { ppmt } \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & J 294141 \\ & \mathrm{~J} 294142 \\ & \mathrm{~J} 294143 \\ & \mathrm{~J} 294144 \\ & \mathrm{~J} 294145 \end{aligned}$ |  | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & 10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.77 \\ & 1.00 \\ & 0.90 \\ & 0.90 \\ & 0.99 \end{aligned}$ | $\begin{aligned} & 10 \\ & <10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.89 \\ & 0.87 \\ & 0.94 \\ & 1.03 \\ & 1.24 \end{aligned}$ | $\begin{aligned} & 1370 \\ & 908 \\ & 862 \\ & 880 \\ & 1435 \end{aligned}$ | $\begin{aligned} & <1 \\ & 2 \\ & 31 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.05 \\ & 0.05 \\ & 0.05 \\ & 0.05 \\ & 0.04 \end{aligned}$ | $\begin{gathered} 1 \\ <1 \\ 2 \\ 1 \\ 1 \\ 1 \end{gathered}$ | $\begin{aligned} & 1820 \\ & 1740 \\ & 1550 \\ & 1610 \\ & 2050 \end{aligned}$ | $\begin{aligned} & 7 \\ & 5 \\ & 5 \\ & 5 \\ & 4 \end{aligned}$ | $\begin{aligned} & 0.01 \\ & 0.03 \\ & 0.11 \\ & 0.11 \\ & 0.01 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3 \\ & 2 \\ & 3 \\ & 3 \\ & 3 \end{aligned}$ | $\begin{gathered} 125 \\ 86 \\ 118 \\ 76 \\ 125 \end{gathered}$ |
| $J 294146$ $J 294147$ $J 294148$ $J 294149$ $J 294150$ |  | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.19 \\ & 0.43 \\ & 0.32 \\ & 0.35 \\ & 1.02 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.06 \\ & 0.81 \\ & 0.48 \\ & 0.72 \\ & 1.21 \end{aligned}$ | $\begin{aligned} & \hline 752 \\ & 1660 \\ & 1305 \\ & 1610 \\ & 1105 \end{aligned}$ | $\begin{gathered} 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 19 \end{gathered}$ | $\begin{aligned} & 0.01 \\ & 0.03 \\ & 0.02 \\ & 0.02 \\ & 0.05 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & 6 \end{aligned}$ | $\begin{aligned} & 1470 \\ & 1900 \\ & 1940 \\ & 1560 \\ & 1810 \end{aligned}$ | $\begin{gathered} \hline 8 \\ 7 \\ 9 \\ 15 \\ 6 \end{gathered}$ | $\begin{aligned} & \hline 0.01 \\ & 0.54 \\ & 0.53 \\ & 1.31 \\ & 0.33 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 1 \\ & 2 \\ & 3 \end{aligned}$ | $\begin{gathered} 33 \\ 266 \\ 176 \\ 265 \\ 111 \end{gathered}$ |
| $\begin{aligned} & \mathrm{J} 294151 \\ & \mathrm{~J} 294152 \\ & \mathrm{~J} 294153 \\ & \mathrm{~J} 294154 \\ & \mathrm{~J} 294155 \end{aligned}$ |  | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{aligned} & c 1 \\ & 1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.71 \\ & 0.62 \\ & 0.30 \\ & 0.82 \\ & 0.84 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.81 \\ & 0.87 \\ & 0.75 \\ & 0.85 \\ & 0.98 \end{aligned}$ | $\begin{aligned} & 2330 \\ & 1110 \\ & 1570 \\ & 1120 \\ & 1065 \end{aligned}$ | $\begin{aligned} & 1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.04 \\ & 0.04 \\ & 0.02 \\ & 0.07 \\ & 0.07 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 1 \\ & 2 \\ & 2 \end{aligned}$ | $\begin{aligned} & 1540 \\ & 1530 \\ & 1430 \\ & 1630 \\ & 1730 \end{aligned}$ | $\begin{gathered} \hline 3 \\ 3 \\ 16 \\ 3 \\ 3 \end{gathered}$ | $\begin{aligned} & \hline 0.07 \\ & <C .01 \\ & 0.89 \\ & 0.32 \\ & 0.01 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3 \\ & 2 \\ & 1 \\ & 3 \\ & 2 \end{aligned}$ | $\begin{aligned} & 331 \\ & 120 \\ & 365 \\ & 135 \\ & 117 \end{aligned}$ |
| $\begin{aligned} & 1294156 \\ & J 294157 \\ & J 294158 \\ & 1294159 \\ & 1294160 \end{aligned}$ |  | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & 10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 0.27 \\ & 0.78 \\ & 0.50 \\ & 0.64 \\ & 0.72 \end{aligned}$ | $\begin{aligned} & <10 \\ & 10 \\ & 10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & \hline 0.87 \\ & 1.01 \\ & 0.93 \\ & 0.81 \\ & 0.81 \end{aligned}$ | $\begin{aligned} & 1550 \\ & 1785 \\ & 1985 \\ & 1185 \\ & 856 \end{aligned}$ | $\begin{gathered} c 1 \\ 1 \\ 1 \\ 33 \\ 14 \end{gathered}$ | $\begin{aligned} & \hline 0.08 \\ & 0.05 \\ & 0.04 \\ & 0.05 \\ & 0.09 \end{aligned}$ | $\begin{gathered} 1 \\ 2 \\ 1 \\ 11 \\ 2 \end{gathered}$ | $\begin{aligned} & 1540 \\ & 1650 \\ & 1650 \\ & 1160 \\ & 1670 \end{aligned}$ | $\begin{gathered} 7 \\ 7 \\ 11 \\ 5 \\ 3 \end{gathered}$ | $\begin{gathered} \hline 1.06 \\ 0.93 \\ 1.18 \\ 8.1 \\ 1.57 \end{gathered}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3 \\ & 3 \\ & 2 \\ & 4 \\ & 4 \end{aligned}$ | $\begin{aligned} & 389 \\ & 498 \\ & 449 \\ & 172 \\ & 94 \end{aligned}$ |
| $\begin{aligned} & J 294161 \\ & J 294162 \\ & 1294163 \\ & J 294164 \\ & 1294165 \end{aligned}$ |  | $\begin{aligned} & 10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & 1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 1.07 \\ & 0.75 \\ & 0.93 \\ & 0.63 \\ & 0.14 \end{aligned}$ | $\begin{aligned} & <10 \\ & 10 \\ & 10 \\ & 10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 1.28 \\ & 1.13 \\ & 0.98 \\ & 0.97 \\ & 0.84 \end{aligned}$ | $\begin{aligned} & 1225 \\ & 1710 \\ & 1975 \\ & 1975 \\ & 650 \end{aligned}$ | $\begin{gathered} 24 \\ 3 \\ <1 \\ 4 \\ 202 \end{gathered}$ | $\begin{aligned} & \hline 0.08 \\ & 0.06 \\ & 0.05 \\ & 0.04 \\ & 0.10 \end{aligned}$ | $\begin{gathered} 2 \\ 1 \\ <1 \\ 1 \\ 23 \end{gathered}$ | $\begin{aligned} & 1800 \\ & 1930 \\ & 1730 \\ & 1830 \\ & 630 \end{aligned}$ | $\begin{gathered} \hline 4 \\ 4 \\ 5 \\ 10 \\ 14 \end{gathered}$ | $\begin{aligned} & 0.26 \\ & 0.37 \\ & 1.24 \\ & 1.94 \\ & 0.71 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & 3 \end{aligned}$ | $\begin{aligned} & -4 \\ & 3 \\ & 3 \\ & 2 \\ & 5 \end{aligned}$ | $\begin{aligned} & 145 \\ & 406 \\ & 493 \\ & 630 \\ & 41 \end{aligned}$ |
| $\begin{aligned} & 1294166 \\ & J 294167 \\ & J 294168 \\ & 1294169 \\ & J 294170 \end{aligned}$ |  | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.87 \\ & 0.59 \\ & 0.59 \\ & 0.52 \\ & 0.39 \end{aligned}$ | $\begin{aligned} & \hline 10 \\ & 10 \\ & 10 \\ & 10 \\ & <10 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 0.94 \\ & 0.91 \\ & 0.89 \\ & 0.78 \\ & 0.81 \end{aligned}$ | $\begin{aligned} & 1405 \\ & 1725 \\ & 1565 \\ & 1445 \\ & 1940 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 2 \\ & 1 \end{aligned}$ | $\begin{aligned} & 0.05 \\ & 0.05 \\ & 0.05 \\ & 0.05 \\ & 0.04 \end{aligned}$ | $\begin{gathered} 1 \\ <1 \\ 1 \\ 1 \\ 1 \\ 1 \end{gathered}$ | $\begin{aligned} & 1760 \\ & 1840 \\ & 1850 \\ & 1570 \\ & 1590 \end{aligned}$ | $\begin{gathered} 5 \\ 10 \\ 7 \\ 12 \\ 16 \end{gathered}$ | $\begin{aligned} & 0.53 \\ & 0.68 \\ & 0.87 \\ & 0.66 \\ & 0.82 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 2 \\ & 2 \\ & 2 \end{aligned}$ | $\begin{aligned} & 758 \\ & 890 \\ & 818 \\ & 303 \\ & 586 \end{aligned}$ |
| $\begin{aligned} & 1294171 \\ & \mathrm{~J} 294172 \\ & \mathrm{~J} 294173 \\ & \mathrm{~J} 294174 \\ & \mathrm{~J} 294175 \end{aligned}$ |  | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.54 \\ & 0.62 \\ & 0.68 \\ & 0.38 \\ & 0.78 \end{aligned}$ | $\begin{gathered} <10 \\ <10 \\ 10 \\ <10 \\ 10 \end{gathered}$ | $\begin{aligned} & 0.89 \\ & 0.86 \\ & 1.86 \\ & 1.42 \\ & 1.29 \end{aligned}$ | $\begin{aligned} & 2540 \\ & 1465 \\ & 1835 \\ & 1515 \\ & 2140 \end{aligned}$ | $\begin{array}{r} 17 \\ 2 \\ 3 \\ 3 \\ 2 \end{array}$ | $\begin{aligned} & 0.02 \\ & 0.04 \\ & 0.03 \\ & 0.02 \\ & 0.02 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 8 \\ & 7 \\ & 3 \end{aligned}$ | $\begin{aligned} & 1800 \\ & 1650 \\ & 2040 \\ & 1670 \\ & 2150 \end{aligned}$ | $\begin{gathered} 15 \\ 48 \\ 9 \\ 27 \\ 9 \end{gathered}$ | $\begin{aligned} & \hline 2.17 \\ & 1.38 \\ & 1.38 \\ & 4.05 \\ & 1.39 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 5 \\ & 3 \\ & 2 \end{aligned}$ | $\begin{aligned} & 446 \\ & 471 \\ & 669 \\ & 595 \\ & 550 \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294176 \\ & \mathrm{~J} 294177 \end{aligned}$ |  | $\begin{aligned} & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.07 \\ & 0.98 \end{aligned}$ | $\begin{gathered} <10 \\ 10 \end{gathered}$ | $\begin{aligned} & 0.02 \\ & 1.13 \end{aligned}$ | $\begin{gathered} 81 \\ 1345 \end{gathered}$ | $\begin{gathered} 7 \\ <1 \end{gathered}$ | $\begin{aligned} & 0.01 \\ & 0.03 \end{aligned}$ | $\begin{aligned} & 3 \\ & 2 \end{aligned}$ | $\begin{aligned} & 100 \\ & 1930 \end{aligned}$ | $\begin{gathered} \hline 193 \\ 6 \end{gathered}$ | $\begin{gathered} >10.0 \\ 0.39 \end{gathered}$ | $\begin{aligned} & <2 \\ & <2 \end{aligned}$ | $\begin{gathered} <1 \\ 2 \end{gathered}$ | $\begin{gathered} 14 \\ 687 \end{gathered}$ |


| Sample DescriptionMethod <br> Analyte <br> Units <br> LOR | $\begin{gathered} \text { ME- }-1 C P 4] \\ \text { Th } \\ \mathrm{ppm} \\ 20 \end{gathered}$ | $\begin{gathered} \text { ME- }-\left[C_{4}\right] \\ T \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { TI } \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ U \\ \text { Ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- }-1 C P_{4} \mid \\ V \\ \mathrm{ppm} \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME. } \mathrm{ICP}_{41} \\ \mathrm{~W} \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \mathrm{Zn} \\ \mathrm{ppm} \\ 2 \end{gathered}$ | $\begin{gathered} \mathrm{Cu}-\mathrm{OC} 46 \\ \mathrm{Cu} \\ \% \\ 0.001 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & J 294141 \\ & J 294142 \\ & J 294143 \\ & J 294144 \\ & \mathrm{~J} 294145 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | 0.11 <br> 0.18 <br> 0.13 <br> 0.14 <br> 0.15 | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 97 \\ 69 \\ 86 \\ 109 \\ 124 \end{gathered}$ | $\begin{gathered} <10 \\ 90 \\ <10 \\ 30 \\ <10 \end{gathered}$ | $\begin{aligned} & 95 \\ & 32 \\ & 41 \\ & 40 \\ & 72 \end{aligned}$ |  |
| $\begin{aligned} & 1294146 \\ & 1294147 \\ & 1294148 \\ & 1294149 \\ & 1294150 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{gathered} <0.01 \\ 0.01 \\ 0.01 \\ <0.01 \\ 0.17 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 16 \\ & 19 \\ & 18 \\ & 18 \\ & 125 \end{aligned}$ | $\begin{aligned} & 10 \\ & <10 \\ & <10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 25 \\ & 33 \\ & 35 \\ & 54 \\ & 59 \end{aligned}$ |  |
| $J 294151$ $J 294152$ $J 294153$ $J 294154$ $J 294155$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.11 \\ & 0.14 \\ & 0.02 \\ & 0.14 \\ & 0.15 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 80 \\ 88 \\ 24 \\ 88 \\ 107 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & 50 \\ & <10 \end{aligned}$ | $\begin{gathered} 40 \\ 52 \\ 1055 \\ 36 \\ 50 \end{gathered}$ |  |
| 1294156 $J 294157$ $J 294158$ 1294159 $J 294160$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.02 \\ & 0.07 \\ & 0.02 \\ & 0.08 \\ & 0.11 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 65 \\ & 65 \\ & 51 \\ & 77 \\ & 75 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & 10 \\ & 40 \end{aligned}$ | $\begin{gathered} 98 \\ 64 \\ 55 \\ 311 \\ 54 \end{gathered}$ | 4.14 |
| J294161 J294162 1294163 $J 294164$ $J 294165$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | 019 006 009 002 014 | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 152 \\ & 73 \\ & 55 \\ & 38 \\ & 59 \end{aligned}$ | $\begin{gathered} <10 \\ 40 \\ 10 \\ <10 \\ <10 \end{gathered}$ | $\begin{aligned} & 107 \\ & 71 \\ & 94 \\ & 51 \\ & 76 \end{aligned}$ |  |
| 1294166 $J 294167$ $J 294168$ $J 294169$ 1294170 | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.07 \\ & 0.02 \\ & 0.01 \\ & 0.01 \\ & 0.01 \end{aligned}$ | $\begin{aligned} & \quad<10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 56 \\ & 40 \\ & 36 \\ & 35 \\ & 27 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{aligned} & \hline 72 \\ & 497 \\ & 61 \\ & 45 \\ & 67 \end{aligned}$ |  |
| $\begin{aligned} & 1294171 \\ & 1294172 \\ & J 294173 \\ & 1294174 \\ & 1294175 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.01 \\ & 0.06 \\ & 0.06 \\ & 0.03 \\ & 0.07 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 27 \\ & 52 \\ & 56 \\ & 45 \\ & 31 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} \hline 50 \\ 89 \\ 160 \\ 111 \\ 89 \end{gathered}$ |  |
| $\begin{aligned} & J 294176 \\ & J 294177 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \end{aligned}$ | $\begin{gathered} <0.01 \\ 0.11 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & \text { < } 10 \\ & <10 \end{aligned}$ | $\begin{gathered} \hline 2 \\ 39 \end{gathered}$ | $\begin{gathered} 10 \\ <10 \end{gathered}$ | $\begin{aligned} & 111 \\ & 71 \end{aligned}$ |  |

## CERTIFICATE VA11001920

## Project: Kenville Mine

P.O. No.:

This report is for 253 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 29- DEC-2010.
The following have access to data associated with this certificate: ANGLO SWISS RESOURCES LLOYD PENNE

|  | SAMPLE PREPARATION |
| :--- | :--- |
| ALS CODE | DESCRIPTION |
| WEI-21 | Received Sample Weight |
| LOG-21 | Sample logging - ClientBarCode |
| CRU-QC | Crushing QC Test |
| PUL-QC | Pulverizing QC Test |
| CRU-31 | Fine crushing $-70 \%<2 \mathrm{~mm}$ |
| SPL-21 | Split sample - riffle splitter |
| PUL-31 | Pulverize split to $85 \%<75$ um |
| LOG-23 | Pulp Login - Rcvd with Barcode |


|  |  |  |  | ANALYTICAL PROCEDURES |
| :--- | :--- | :--- | :---: | :---: |
| ALS CODE | DESCRIPTION | INSTRUMENT |  |  |
| ME-ICP41 | 35 Element Aqua Regia ICP-AES | ICP- AES |  |  |
| ME-OG46 | Ore Grade Elements - AquaRegia | ICP- AES |  |  |
| Cu-OG46 | Ore Grade Cu-Aqua Regia | VARIABLE |  |  |
| Au- AA23 | Au 30g FA-AA finish | AAS |  |  |
| Au- GRA21 | Au 30g FA- GRAV finish | WST-SIM |  |  |

To: ANGLO SWISS RESOURCES INC.
309-837 W HASTINGS ST.
VANCOUVER BC V6C 3N6

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

| Sample Description | Method Analyte Units LOR | WEF-21 <br> Recvd Wt kg 0.02 | $\begin{gathered} \mathrm{Au} \cdot \mathrm{AA} .23 \\ \mathrm{Au} \\ \mathrm{ppm} \\ 0.005 \end{gathered}$ | $\begin{gathered} \mathrm{Au}-\text { CRA21 } \\ \mathrm{Au} \\ \mathrm{ppm} \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ \mathrm{Ag} \\ \mathrm{Ppm} \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { AI } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME ICP41 } \\ \text { As } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ \text { B } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- }\|C P 4\| \\ \mathrm{Ba} \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Be } \\ \text { ppm } \\ 0.5 \end{gathered}$ | $\begin{gathered} \text { ME- ICP4 } \\ \mathrm{Bi} \\ \mathrm{ppm} \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Ca } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- } \mathrm{CCP} 41 \\ \mathrm{Cd} \\ \mathrm{ppm} \\ 0.5 \end{gathered}$ | $\begin{gathered} \text { ME- [CP4] } \\ \text { Co } \\ \text { ppm } \\ 1 \end{gathered}$ | ME- ICP41 <br> Cr <br> ppm 1 | $\begin{gathered} \text { ME-KCP41 } \\ \mathrm{Cu} \\ \mathrm{ppm} \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & J 294000 \\ & J 294001 \\ & J 294002 \\ & J 294003 \\ & J 294004 \end{aligned}$ |  | $\begin{aligned} & 2.80 \\ & 2.52 \\ & 2.66 \\ & 3.26 \\ & 2.90 \\ & \hline \end{aligned}$ | 0.064 <br> 0.023 <br> 0.099 <br> 0.112 <br> 0.032 |  | $\begin{aligned} & 0.5 \\ & 0.3 \\ & 0.7 \\ & 0.3 \\ & 0.3 \end{aligned}$ | $\begin{aligned} & 1.43 \\ & 1.40 \\ & 1.45 \\ & 1.14 \\ & 1.48 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 70 \\ & 60 \\ & 60 \\ & 60 \\ & 40 \end{aligned}$ | $\begin{gathered} 0.5 \\ 0.5 \\ 0.6 \\ <0.5 \\ 0.5 \end{gathered}$ | $\begin{gathered} <2 \\ <2 \\ <2 \\ 2 \\ <2 \end{gathered}$ | $\begin{aligned} & 3.17 \\ & 2.63 \\ & 2.54 \\ & 3.66 \\ & 3.69 \end{aligned}$ | $\begin{gathered} 0.7 \\ 1.3 \\ 1.6 \\ 5.2 \\ <0.5 \end{gathered}$ | $\begin{aligned} & 16 \\ & 15 \\ & 14 \\ & 14 \\ & 14 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 2 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{gathered} 279 \\ 292 \\ 313 \\ 66 \\ 107 \end{gathered}$ |
| $J 294005$ $J 294006$ $J 294007$ $J 294008$ $J 294009$ |  | $\begin{aligned} & 2.84 \\ & 3.60 \\ & 2.92 \\ & 1.86 \\ & 1.16 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 0.010 \\ 0.014 \\ <0.005 \\ 0.080 \\ 0.017 \end{gathered}$ |  | $\begin{gathered} \hline 0.2 \\ <0.2 \\ <0.2 \\ 0.5 \\ 0.6 \end{gathered}$ | $\begin{aligned} & 1.46 \\ & 1.70 \\ & 1.63 \\ & 1.74 \\ & 0.56 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | 30 80 40 60 30 | $\begin{gathered} \hline 0.5 \\ 0.5 \\ <0.5 \\ 0.5 \\ <0.5 \end{gathered}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3.36 \\ & 3.43 \\ & 3.05 \\ & 3.54 \\ & 4.04 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & 16 \\ & 14 \\ & 16 \\ & 15 \\ & 12 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 2 \\ & 2 \\ & 1 \end{aligned}$ | $\begin{array}{r} 78 \\ 84 \\ 64 \\ 220 \\ 367 \end{array}$ |
| $J 294010$ $J 294011$ $J 294012$ $J 294013$ $J 294014$ |  | $\begin{aligned} & 2.32 \\ & 3.36 \\ & 1.36 \\ & 1.34 \\ & 0.08 \end{aligned}$ | $\begin{gathered} 0.010 \\ <0.005 \\ 0.025 \\ 0.038 \\ 1.505 \end{gathered}$ |  | $\begin{gathered} <0.2 \\ <0.2 \\ <0.2 \\ 1.7 \\ 4.6 \end{gathered}$ | $\begin{aligned} & 1.63 \\ & 1.59 \\ & 1.68 \\ & 1.54 \\ & 1.28 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & 37 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 50 \\ & 40 \\ & 60 \\ & 40 \\ & 90 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{gathered} 2 \\ <2 \\ <2 \\ <2 \\ 6 \end{gathered}$ | $\begin{aligned} & 3.16 \\ & 2.98 \\ & 3.41 \\ & 2.16 \\ & 1.43 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & 2.2 \end{aligned}$ | $\begin{aligned} & 14 \\ & 15 \\ & 15 \\ & 15 \\ & 19 \end{aligned}$ | $\begin{gathered} 1 \\ 2 \\ 2 \\ 1 \\ 59 \end{gathered}$ | $\begin{gathered} \hline 121 \\ 116 \\ 98 \\ 1020 \\ >10000 \end{gathered}$ |
| $\begin{aligned} & \mathrm{J} 294015 \\ & \mathrm{~J} 294016 \\ & \mathrm{~J} 294017 \\ & \mathrm{~J} 294018 \\ & \mathrm{~J} 294019 \end{aligned}$ |  | $\begin{aligned} & 2.82 \\ & 1.60 \\ & 3.24 \\ & 0.82 \\ & 1.16 \end{aligned}$ | $\begin{aligned} & 0.008 \\ & 0.937 \\ & 0.077 \\ & 0.193 \\ & 0.024 \end{aligned}$ |  | $\begin{aligned} & 0.2 \\ & 1.1 \\ & 0.3 \\ & 0.5 \\ & 0.3 \end{aligned}$ | $\begin{aligned} & 1.79 \\ & 0.46 \\ & 1.72 \\ & 0.58 \\ & 1.47 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 50 \\ & 50 \\ & 50 \\ & 40 \\ & 50 \end{aligned}$ | $\begin{aligned} & 0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 2.92 \\ & 4.29 \\ & 236 \\ & 3.81 \\ & 2.62 \end{aligned}$ | $\begin{gathered} <0.5 \\ 1.5 \\ <0.5 \\ 0.5 \\ <0.5 \end{gathered}$ | $\begin{aligned} & 15 \\ & 16 \\ & 16 \\ & 13 \\ & 14 \end{aligned}$ | $\begin{aligned} & 2 \\ & 1 \\ & 2 \\ & 7 \\ & 1 \end{aligned}$ | $\begin{aligned} & 138 \\ & 176 \\ & 234 \\ & 225 \\ & 168 \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294020 \\ & \mathrm{~J} 294021 \\ & 1294022 \\ & \mathrm{~J} 294023 \\ & \mathrm{~J} 294024 \end{aligned}$ |  | $\begin{aligned} & 1.24 \\ & 1.20 \\ & 0.08 \\ & 1.64 \\ & 1.02 \end{aligned}$ | $\begin{gathered} \hline 0.015 \\ <0.005 \\ 0.437 \\ 0.235 \\ <0.005 \end{gathered}$ |  | $\begin{gathered} \hline 0.3 \\ <0.2 \\ 1.2 \\ 4.8 \\ <0.2 \end{gathered}$ | $\begin{aligned} & 1.15 \\ & 1.83 \\ & 1.95 \\ & 1.43 \\ & 1.32 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & 6 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 50 \\ & 50 \\ & 90 \\ & 50 \\ & 60 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & 0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 2.54 \\ & 2.51 \\ & 0.73 \\ & 3.45 \\ & 3.11 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & 14 \\ & 16 \\ & 12 \\ & 15 \\ & 15 \end{aligned}$ | $\begin{gathered} \hline 1 \\ 2 \\ 33 \\ 1 \\ 1 \end{gathered}$ | $\begin{gathered} 562 \\ 117 \\ 5590 \\ 2290 \\ 37 \end{gathered}$ |
| 1294025 1294026 1294027 $J 294028$ 1294029 |  | $\begin{aligned} & 1.74 \\ & 1.20 \\ & 1.38 \\ & 1.02 \\ & 0.90 \end{aligned}$ | $\begin{gathered} 0.033 \\ 0.100 \\ <0.005 \\ 0.008 \\ 0.008 \end{gathered}$ |  | $\begin{gathered} <0.2 \\ 1.0 \\ <0.2 \\ <0.2 \\ <0.2 \end{gathered}$ | $\begin{aligned} & 1.22 \\ & 1.74 \\ & 1.37 \\ & 2.08 \\ & 1.83 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 50 \\ & 40 \\ & 20 \\ & 50 \\ & 40 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & 0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \\ & 2 \end{aligned}$ | $\begin{aligned} & 3.24 \\ & 2.69 \\ & 3.13 \\ & 2.61 \\ & 2.64 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & 14 \\ & 19 \\ & 15 \\ & 17 \\ & 16 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 1 \\ & 1 \\ & 3 \\ & 3 \end{aligned}$ | $\begin{aligned} & 71 \\ & 895 \\ & 31 \\ & 41 \\ & 44 \end{aligned}$ |
| $\begin{array}{\|l\|} \hline 1294030 \\ J 294031 \\ J 294032 \\ J 294033 \\ J 294034 \\ \hline \end{array}$ |  | $\begin{aligned} & 1.10 \\ & 1.80 \\ & 0.72 \\ & 0.70 \\ & 1.48 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 0.007 \\ 0.007 \\ 0.006 \\ 0.006 \\ <0.005 \end{gathered}$ |  | $\begin{gathered} \hline 0.2 \\ <0.2 \\ 0.8 \\ 0.5 \\ 0.5 \end{gathered}$ | $\begin{aligned} & 1.91 \\ & 1.76 \\ & 1.82 \\ & 1.61 \\ & 1.87 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & 2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 40 \\ & 40 \\ & 70 \\ & 40 \\ & 50 \end{aligned}$ | $\begin{aligned} & 0.5 \\ & 0.5 \\ & 0.6 \\ & 0.5 \\ & 0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 2.64 \\ & 2.65 \\ & 3.93 \\ & 3.63 \\ & 3.67 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & 17 \\ & 15 \\ & 15 \\ & 14 \\ & 15 \end{aligned}$ | $\begin{aligned} & 3 \\ & 3 \\ & 2 \\ & 2 \\ & 2 \end{aligned}$ | $\begin{gathered} 16 \\ 24 \\ 152 \\ 157 \\ 63 \end{gathered}$ |
| J 294035 J 294036 J 294037 J 294038 J 294039 |  | $\begin{aligned} & 0.94 \\ & 1.76 \\ & 1.02 \\ & 1.02 \\ & 2.42 \end{aligned}$ | 0.007 0.007 0.014 0.123 0.157 |  | $\begin{aligned} & 0.8 \\ & 1.0 \\ & 1.2 \\ & 4.3 \\ & 1.3 \end{aligned}$ | $\begin{aligned} & 0.93 \\ & 1.57 \\ & 0.90 \\ & 1.54 \\ & 1.64 \end{aligned}$ | $\begin{gathered} <2 \\ 2 \\ 3 \\ <2 \\ 2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 50 \\ 100 \\ 70 \\ 100 \\ 40 \end{gathered}$ | $\begin{gathered} <0.5 \\ 0.5 \\ <0.5 \\ <0.5 \\ <0.5 \end{gathered}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3.87 \\ & 3.92 \\ & 4.24 \\ & 6.08 \\ & 4.40 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & 0.5 \\ & 1.3 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & 14 \\ & 15 \\ & 15 \\ & 18 \\ & 16 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 1 \\ & 2 \\ & 2 \end{aligned}$ | $\begin{gathered} 95 \\ 52 \\ 190 \\ 2180 \\ 1355 \end{gathered}$ |

Comments: Additional Au- AA23 check results for sample J294262 are 0.145 ppm and 0.321 ppm .

Project: Kenville Mine
CERTIFICATE OF ANALYSIS VA11001920

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME- } 1 \mathrm{CP} 41 \\ \mathrm{Fe} \\ \% \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- } 1 C P 41 \\ \mathrm{Ca} \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- } \mathrm{CCP41} \\ \mathrm{Hg} \\ \mathrm{ppm} \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ K \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME. ICP4] } \\ \text { La } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- KCP41 } \\ \mathrm{Mg} \\ \propto \\ \alpha .01 \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ \text { Mn } \\ \mathrm{ppm} \\ 5 \end{gathered}$ | $\begin{gathered} \text { ME- } \operatorname{CCP41} \\ \text { Mo } \\ \text { Ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME ICP41 } \\ \mathrm{Na} \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- }-1 C P 41 \\ \text { Ni } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- } 1 C P 41 \\ p \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ \text { Pb } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- [CP41 } \\ \text { S } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME - ICP4 } \\ \text { Sb } \\ \text { ppm } \\ 2 \end{gathered}$ | ME- ICP41 Sc ppm 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| J294000 <br> J294001 <br> J294002 <br> J294003 <br> J294004 |  | $\begin{aligned} & 3.42 \\ & 3.54 \\ & 3.33 \\ & 3.24 \\ & 3.32 \end{aligned}$ | $\begin{aligned} & <10 \\ & 10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.76 \\ & 0.60 \\ & 0.56 \\ & 0.46 \\ & 0.58 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.02 \\ & 1.07 \\ & 0.90 \\ & 0.98 \\ & 1.05 \end{aligned}$ | $\begin{aligned} & 1330 \\ & 1225 \\ & 1250 \\ & 1305 \\ & 1385 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & 1 \\ & 6 \\ & 1 \end{aligned}$ | $\begin{aligned} & 0.07 \\ & 0.05 \\ & 0.06 \\ & 0.05 \\ & 0.06 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 1 \\ & 2 \\ & 1 \end{aligned}$ | $\begin{aligned} & 1740 \\ & 1740 \\ & 1770 \\ & 1730 \\ & 1810 \end{aligned}$ | $\begin{gathered} 5 \\ 6 \\ 12 \\ 7 \\ 5 \end{gathered}$ | $\begin{aligned} & 0.01 \\ & <0.01 \\ & 0.13 \\ & 0.38 \\ & 0.18 \end{aligned}$ | $\begin{gathered} <2 \\ <2 \\ <2 \\ 2 \\ <2 \end{gathered}$ | $\begin{aligned} & 3 \\ & 3 \\ & 3 \\ & 3 \\ & 3 \end{aligned}$ |
| J294005 J294006 J294007 J294008 J294009 |  | $\begin{aligned} & 3.78 \\ & 3.37 \\ & 3.58 \\ & 3.60 \\ & 3.11 \end{aligned}$ | $\begin{aligned} & \hline 10 \\ & <10 \\ & 10 \\ & 10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & \hline 0.63 \\ & 1.11 \\ & 0.90 \\ & 0.97 \\ & 0.30 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.16 \\ & 1.05 \\ & 1.16 \\ & 1.10 \\ & 0.40 \end{aligned}$ | $\begin{aligned} & 1315 \\ & 1220 \\ & 1210 \\ & 1320 \\ & 1075 \end{aligned}$ | $\begin{gathered} \hline<1 \\ 2 \\ <1 \\ <1 \\ 2 \end{gathered}$ | $\begin{aligned} & 0.06 \\ & 0.07 \\ & 0.05 \\ & 0.08 \\ & 0.04 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 2 \\ & 3 \\ & 1 \end{aligned}$ | $\begin{aligned} & 1880 \\ & 1800 \\ & 1780 \\ & 1780 \\ & 1770 \end{aligned}$ | $\begin{aligned} & 4 \\ & 5 \\ & 3 \\ & 7 \\ & 6 \end{aligned}$ | $\begin{aligned} & 0.03 \\ & 0.16 \\ & 0.01 \\ & 0.16 \\ & 0.05 \end{aligned}$ | $\begin{gathered} <2 \\ 2 \\ 2 \\ <2 \\ <2 \end{gathered}$ | $\begin{aligned} & 4 \\ & 3 \\ & 3 \\ & 3 \\ & 2 \end{aligned}$ |
| $\begin{aligned} & J 294010 \\ & J 294011 \\ & J 294012 \\ & J 294013 \\ & J 294014 \end{aligned}$ |  | $\begin{aligned} & 3.34 \\ & 3.59 \\ & 3.57 \\ & 3.52 \\ & 4.56 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & <10 \\ & 10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.89 \\ & 1.02 \\ & 1.05 \\ & 1.02 \\ & 0.44 \end{aligned}$ | $\begin{aligned} & \hline 10 \\ & 10 \\ & 10 \\ & <10 \\ & 20 \end{aligned}$ | $\begin{aligned} & 1.05 \\ & 1.17 \\ & 1.09 \\ & 1.11 \\ & 0.76 \end{aligned}$ | $\begin{aligned} & 1210 \\ & 1245 \\ & 1245 \\ & 988 \\ & 337 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & 236 \end{aligned}$ | $\begin{aligned} & \hline 0.07 \\ & 0.07 \\ & 0.07 \\ & 0.05 \\ & 0.05 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 2 \\ & 1 \\ & 1 \\ & 31 \end{aligned}$ | $\begin{gathered} 1760 \\ 1750 \\ 1840 \\ 1820 \\ 680 \end{gathered}$ | $\begin{gathered} 4 \\ 3 \\ 5 \\ 5 \\ 69 \end{gathered}$ | $\begin{aligned} & <0.01 \\ & <0.01 \\ & 0.01 \\ & 0.06 \\ & 2.60 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & 19 \end{aligned}$ | $\begin{aligned} & 3 \\ & 3 \\ & 3 \\ & 3 \\ & 2 \\ & 5 \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294015 \\ & \text { J294016 } \\ & \text { J294017 } \\ & \text { J294018 } \\ & \text { J294019 } \end{aligned}$ |  | $\begin{aligned} & 3.55 \\ & 2.92 \\ & 3.62 \\ & 3.18 \\ & 3.17 \end{aligned}$ | $\begin{gathered} 10 \\ <10 \\ 10 \\ <10 \\ <10 \end{gathered}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & \hline 0.91 \\ & 0.29 \\ & 1.00 \\ & 0.35 \\ & 0.86 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 1.15 \\ & 0.74 \\ & 1.20 \\ & 0.97 \\ & 0.96 \end{aligned}$ | $\begin{aligned} & 1195 \\ & 1870 \\ & 1105 \\ & 1505 \\ & 1020 \end{aligned}$ | $\begin{gathered} c 1 \\ 1 \\ <1 \\ <1 \\ <1 \end{gathered}$ | $\begin{aligned} & 0.09 \\ & 0.03 \\ & 0.09 \\ & 0.06 \\ & 0.07 \end{aligned}$ | $\begin{aligned} & 2 \\ & 1 \\ & 2 \\ & 2 \\ & 3 \\ & 2 \end{aligned}$ | $\begin{aligned} & 1780 \\ & 1800 \\ & 1780 \\ & 1570 \\ & 1650 \end{aligned}$ | $\begin{gathered} 4 \\ 25 \\ 4 \\ 6 \\ 4 \end{gathered}$ | $\begin{aligned} & <0.01 \\ & 0.45 \\ & <0.01 \\ & 0.13 \\ & 0.15 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & \hline 3 \\ & 2 \\ & 3 \\ & 2 \\ & 3 \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294020 \\ & \mathrm{~J} 294021 \\ & \mathrm{~J} 294022 \\ & \mathrm{~J} 294023 \\ & \mathrm{~J} 294024 \end{aligned}$ |  | $\begin{aligned} & 3.56 \\ & 3.72 \\ & 3.90 \\ & 4.07 \\ & 4.10 \end{aligned}$ | $\begin{gathered} <10 \\ 10 \\ 10 \\ <10 \\ <10 \end{gathered}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & \hline 0.55 \\ & 0.93 \\ & 0.13 \\ & 0.67 \\ & 0.66 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & <10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.06 \\ & 1.13 \\ & 0.80 \\ & 1.01 \\ & 0.93 \end{aligned}$ | $\begin{aligned} & 1155 \\ & 1245 \\ & 638 \\ & 1390 \\ & 1195 \end{aligned}$ | $\begin{gathered} <1 \\ <1 \\ 200 \\ 2 \\ <1 \end{gathered}$ | $\begin{aligned} & 0.05 \\ & 0.07 \\ & 0.10 \\ & 0.05 \\ & 0.06 \end{aligned}$ | $\begin{gathered} \hline 2 \\ 1 \\ 24 \\ 1 \\ 1 \end{gathered}$ | 1750 1760 610 1670 1680 | $\begin{gathered} \hline 5 \\ 3 \\ 14 \\ 5 \\ 4 \end{gathered}$ | $\begin{aligned} & \hline 0.06 \\ & <0.01 \\ & 0.68 \\ & 0.15 \\ & 0.02 \end{aligned}$ | $\begin{gathered} <2 \\ <2 \\ 4 \\ <2 \\ <2 \end{gathered}$ | $\begin{aligned} & 2 \\ & 2 \\ & 2 \\ & 5 \\ & 2 \\ & 3 \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294025 \\ & \mathrm{~J} 294026 \\ & \mathrm{~J} 294027 \\ & \mathrm{~J} 294028 \\ & \mathrm{~J} 294029 \end{aligned}$ |  | $\begin{aligned} & 3.34 \\ & 3.78 \\ & 3.32 \\ & 3.88 \\ & 3.84 \end{aligned}$ | $\begin{aligned} & <10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.78 \\ & 0.89 \\ & 0.27 \\ & 1.42 \\ & 1.21 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.00 \\ & 1.15 \\ & 1.06 \\ & 1.39 \\ & 1.33 \end{aligned}$ | $\begin{aligned} & 1395 \\ & 1280 \\ & 1250 \\ & 1100 \\ & 1100 \end{aligned}$ | $\begin{aligned} & 1 \\ & <1 \\ & <1 \\ & <1 \\ & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 0.05 \\ & 0.08 \\ & 0.05 \\ & 0.09 \\ & 0.06 \end{aligned}$ | $\begin{aligned} & \hline 1 \\ & 1 \\ & 1 \\ & 4 \\ & 3 \end{aligned}$ | $\begin{aligned} & \hline 1730 \\ & 1750 \\ & 1700 \\ & 1730 \\ & 1670 \end{aligned}$ | $\begin{aligned} & 5 \\ & 5 \\ & 5 \\ & 5 \\ & 5 \\ & 3 \end{aligned}$ | $\begin{aligned} & 0.08 \\ & 0.09 \\ & 0.03 \\ & <0.01 \\ & 0.01 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3 \\ & 3 \\ & 3 \\ & 3 \\ & 4 \\ & 5 \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294030 \\ & \mathrm{~J} 294031 \\ & \mathrm{~J} 294032 \\ & \mathrm{~J} 294033 \\ & \mathrm{~J} 294034 \end{aligned}$ |  | $\begin{aligned} & 4.01 \\ & 4.16 \\ & 3.95 \\ & 3.78 \\ & 3.93 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 1.22 \\ & 1.05 \\ & 0.80 \\ & 0.64 \\ & 0.82 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.36 \\ & 1.37 \\ & 1.40 \\ & 1.39 \\ & 1.31 \end{aligned}$ | $\begin{aligned} & 1165 \\ & 1150 \\ & 1380 \\ & 1310 \\ & 1220 \end{aligned}$ | $\begin{gathered} c \\ 2 \\ 2 \\ 1 \\ <1 \\ <1 \end{gathered}$ | $\begin{aligned} & 0.09 \\ & 0.07 \\ & 0.05 \\ & 0.03 \\ & 0.05 \end{aligned}$ | $\begin{aligned} & 3 \\ & 6 \\ & 4 \\ & 3 \\ & 4 \end{aligned}$ | $\begin{aligned} & \hline 1680 \\ & 1910 \\ & 1860 \\ & 1790 \\ & 1790 \end{aligned}$ | $\begin{aligned} & \hline 4 \\ & 4 \\ & 4 \\ & 2 \\ & 3 \end{aligned}$ | $\begin{aligned} & <0.01 \\ & <0.01 \\ & 0.05 \\ & 0.02 \\ & 0.01 \end{aligned}$ | $\begin{gathered} <2 \\ 2 \\ <2 \\ <2 \\ <2 \end{gathered}$ | $\begin{aligned} & \hline 5 \\ & 5 \\ & 6 \\ & 6 \\ & 5 \\ & 5 \end{aligned}$ |
| $\begin{aligned} & J 294035 \\ & J 294036 \\ & J 294037 \\ & J 294038 \\ & j 294039 \end{aligned}$ |  | $\begin{aligned} & 3.59 \\ & 3.78 \\ & 3.49 \\ & 3.75 \\ & 3.76 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.49 \\ & 0.81 \\ & 0.50 \\ & 0.82 \\ & 0.88 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.24 \\ & 1.24 \\ & 1.18 \\ & 1.07 \\ & 1.22 \end{aligned}$ | $\begin{aligned} & 1280 \\ & 1265 \\ & 1435 \\ & 2410 \\ & 1665 \end{aligned}$ | $\begin{gathered} \hline<1 \\ <1 \\ 1 \\ 1 \\ 1 \\ 1 \end{gathered}$ | $\begin{aligned} & 0.04 \\ & 0.05 \\ & 0.03 \\ & 0.04 \\ & 0.03 \end{aligned}$ | $\begin{aligned} & \hline 3 \\ & 3 \\ & 2 \\ & 2 \\ & 3 \end{aligned}$ | $\begin{aligned} & 1790 \\ & 1730 \\ & 1770 \\ & 1600 \\ & 1730 \end{aligned}$ | $\begin{aligned} & \hline 5 \\ & <2 \\ & 5 \\ & 5 \\ & 5 \\ & 2 \end{aligned}$ | $\begin{aligned} & 0.07 \\ & 0.09 \\ & 0.13 \\ & 0.43 \\ & 0.15 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3 \\ & 4 \\ & 3 \\ & 4 \\ & 4 \end{aligned}$ |

Comments: Additional Au- AA23 check results for sample J294262 are 0.145 ppm and 0.321 ppm .

CERTIFICATE OF ANALYSIS VA11001920


Comments: Additional Au- AA23 check results for sample J294262 are 0.145 ppm and 0.321 ppm .

CERTIFICATE OF ANALYSIS VA11001920

| Sample Description | Method Analyte Units LOR | WEF 21 <br> Recved Wt. kg 0.02 | $\begin{gathered} \mathrm{Au}-\mathrm{AA} 23 \\ \mathrm{Au} \\ \mathrm{ppm} \\ 0.005 \end{gathered}$ | $\begin{gathered} \mathrm{Au}-\mathrm{CRA} \mathrm{Cl} \\ \mathrm{~A} u \\ \mathrm{ppm} \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-ICP4 } \\ \text { Ag } \\ \text { ppm } \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ \text { Al } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ \text { As } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { B } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- } \mathrm{ICP41} \\ \mathrm{Ba} \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Be } \\ \mathrm{ppm} \\ 0.5 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Bi } \\ \mathrm{ppm} \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- } 1 C P 41 \\ C a \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ \text { Cd } \\ \text { ppm } \\ 0.5 \end{gathered}$ | $\begin{gathered} \text { ME- }-\mathrm{CP} 41 \\ \text { Co } \\ \mathrm{ppm} \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME-ICP4 } \\ \mathrm{Cr} \\ \mathrm{ppm} \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \mathrm{Cu} \\ \mathrm{ppm} \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1294040 \\ & \mathrm{~J} 294041 \\ & \mathrm{~J} 294042 \\ & \mathrm{~J} 294043 \\ & \mathrm{~J} 294044 \end{aligned}$ |  | $\begin{aligned} & 0.56 \\ & 2.10 \\ & 2.40 \\ & 0.78 \\ & 3.16 \end{aligned}$ | $\begin{aligned} & 0.301 \\ & 0.015 \\ & 0.016 \\ & 0.006 \\ & 0.016 \end{aligned}$ |  | $\begin{aligned} & 0.7 \\ & 0.8 \\ & 0.3 \\ & 0.8 \\ & 0.6 \end{aligned}$ | $\begin{aligned} & 1.38 \\ & 1.40 \\ & 1.85 \\ & 1.24 \\ & 1.68 \end{aligned}$ | $\begin{gathered} <2 \\ 2 \\ <2 \\ <2 \\ <2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 60 \\ & 40 \\ & 50 \\ & 50 \\ & 50 \end{aligned}$ | $\begin{gathered} <0.5 \\ <0.5 \\ 0.5 \\ <0.5 \\ <0.5 \end{gathered}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3.77 \\ & 3.14 \\ & 2.60 \\ & 3.96 \\ & 3.26 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & 13 \\ & 14 \\ & 15 \\ & 13 \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 2 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{gathered} 114 \\ 147 \\ 85 \\ 83 \\ 214 \end{gathered}$ |
| $\begin{aligned} & 1294045 \\ & J 294046 \\ & J 294047 \\ & J 294048 \\ & J 294049 \end{aligned}$ |  | $\begin{aligned} & 0.08 \\ & 1.04 \\ & 1.02 \\ & 2.72 \\ & 0.92 \end{aligned}$ | $\begin{gathered} \hline 1.560 \\ 0.069 \\ 0.032 \\ <0.005 \\ 0.061 \end{gathered}$ |  | $\begin{aligned} & \hline 5.0 \\ & <0.2 \\ & 0.8 \\ & 0.4 \\ & 0.4 \end{aligned}$ | $\begin{aligned} & 1.35 \\ & 1.27 \\ & 1.81 \\ & 3.42 \\ & 1.49 \end{aligned}$ | $\begin{aligned} & 41 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 40 \\ 30 \\ 70 \\ 1960 \\ 50 \end{gathered}$ | $\begin{gathered} <0.5 \\ <0.5 \\ 0.5 \\ 0.6 \\ 0.5 \end{gathered}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 1.48 \\ & 3.30 \\ & 3.58 \\ & 2.55 \\ & 3.57 \end{aligned}$ | $\begin{aligned} & 2.3 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & 18 \\ & 14 \\ & 14 \\ & 32 \\ & 14 \end{aligned}$ | $\begin{gathered} \hline 63 \\ 1 \\ 2 \\ 128 \\ 2 \end{gathered}$ | $>10000$ 54 162 57 103 |
| $J 294050$ $J 294051$ $J 294052$ $J 294053$ $J 294054$ |  | $\begin{aligned} & 1.66 \\ & 1.36 \\ & 0.62 \\ & 1.42 \\ & 1.66 \end{aligned}$ | 0.040 0.007 0.006 0.289 0.036 |  | $\begin{aligned} & 0.5 \\ & 0.5 \\ & 0.7 \\ & 1.3 \\ & 1.0 \end{aligned}$ | $\begin{aligned} & 1.58 \\ & 1.60 \\ & 1.43 \\ & 1.16 \\ & 2.79 \end{aligned}$ | $\begin{gathered} \hline 2 \\ <2 \\ <2 \\ <2 \\ <2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 40 \\ & 40 \\ & 20 \\ & 30 \\ & 560 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & 0.6 \\ & 0.5 \\ & 0.6 \\ & 1.0 \end{aligned}$ | $\begin{gathered} <2 \\ <2 \\ <2 \\ 2 \\ <2 \end{gathered}$ | $\begin{aligned} & 3.36 \\ & 2.97 \\ & 4.62 \\ & 3.66 \\ & 4.18 \end{aligned}$ | $\begin{gathered} <0.5 \\ <0.5 \\ 1.8 \\ 8.0 \\ <0.5 \\ \hline \end{gathered}$ | $\begin{gathered} 14 \\ 14 \\ 8 \\ 14 \\ 23 \\ \hline \end{gathered}$ | $\begin{gathered} \hline 2 \\ 1 \\ 1 \\ 1 \\ 113 \end{gathered}$ | $\begin{gathered} \hline 144 \\ 93 \\ 24 \\ 249 \\ 297 \end{gathered}$ |
| $J 294055$ $J 294056$ $J 294057$ $J 294058$ $J 294059$ |  | $\begin{aligned} & 0.08 \\ & 1.48 \\ & 0.90 \\ & 3.78 \\ & 3.34 \end{aligned}$ | $\begin{aligned} & \hline 0.446 \\ & 0.099 \\ & 1.375 \\ & 0.093 \\ & 0.039 \end{aligned}$ |  | $\begin{aligned} & 1.3 \\ & 0.7 \\ & 1.1 \\ & 0.7 \\ & 1.3 \end{aligned}$ | $\begin{aligned} & 2.12 \\ & 2.69 \\ & 1.57 \\ & 1.32 \\ & 1.15 \end{aligned}$ | $\begin{gathered} 10 \\ 2 \\ 2 \\ <2 \\ <2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 100 \\ 1040 \\ 60 \\ 50 \\ 60 \end{gathered}$ | $\begin{gathered} <0.5 \\ 1.1 \\ 0.5 \\ 0.5 \\ <0.5 \end{gathered}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 0.82 \\ & 4.28 \\ & 3.95 \\ & 3.41 \\ & 3.48 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & 0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & 12 \\ & 29 \\ & 14 \\ & 12 \\ & 13 \end{aligned}$ | $\begin{gathered} 36 \\ 113 \\ 6 \\ 2 \\ 1 \\ \hline \end{gathered}$ | $\begin{array}{r} 5940 \\ 181 \\ 239 \\ 179 \\ 273 \end{array}$ |
| $\begin{aligned} & \mathrm{J} 294060 \\ & \text { J294061 } \\ & \text { J294062 } \\ & \text { J294063 } \\ & \text { J294064 } \end{aligned}$ |  | $\begin{aligned} & \hline 0.98 \\ & 2.68 \\ & 1.16 \\ & 0.54 \\ & 1.92 \end{aligned}$ | $\begin{aligned} & 0.212 \\ & 0.012 \\ & 1.485 \\ & 0.032 \\ & 1.290 \end{aligned}$ |  | $\begin{aligned} & 1.2 \\ & 0.6 \\ & 1.3 \\ & 0.6 \\ & 1.7 \end{aligned}$ | $\begin{aligned} & 1.22 \\ & 1.49 \\ & 0.62 \\ & 1.30 \\ & 0.92 \end{aligned}$ | $\begin{gathered} \hline<2 \\ 2 \\ <2 \\ 2 \\ <2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 30 \\ & 40 \\ & 40 \\ & 50 \\ & 40 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3.94 \\ & 3.15 \\ & 3.58 \\ & 3.35 \\ & 4.10 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & 2.5 \\ & <0.5 \\ & 0.7 \end{aligned}$ | $\begin{aligned} & 15 \\ & 13 \\ & 12 \\ & 13 \\ & 12 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 229 \\ & 179 \\ & 219 \\ & 124 \\ & 647 \\ & \hline \end{aligned}$ |
| $\begin{aligned} & \text { J294065 } \\ & \text { J294066 } \\ & \text { J294067 } \\ & \text { J294068 } \\ & \text { J294069 } \end{aligned}$ |  | $\begin{aligned} & 2.00 \\ & 1.64 \\ & 2.24 \\ & 1.08 \\ & 1.72 \end{aligned}$ | $\begin{aligned} & 0.019 \\ & 0.016 \\ & 0.010 \\ & 0.009 \\ & 0.018 \end{aligned}$ |  | $\begin{aligned} & 0.7 \\ & 0.6 \\ & 0.6 \\ & 0.4 \\ & 0.2 \end{aligned}$ | $\begin{aligned} & 1.42 \\ & 1.37 \\ & 1.36 \\ & 1.41 \\ & 1.55 \end{aligned}$ | $\begin{gathered} 2 \\ <2 \\ 2 \\ 3 \\ 3 \\ <2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 50 \\ & 50 \\ & 40 \\ & 50 \\ & 40 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3.63 \\ & 3.07 \\ & 3.13 \\ & 3.16 \\ & 3.22 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & 14 \\ & 13 \\ & 14 \\ & 13 \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 2 \\ & 1 \\ & 2 \end{aligned}$ | 89 90 318 45 7 |
| $\begin{aligned} & \mathrm{J} 294070 \\ & \mathrm{~J} 294071 \\ & \mathrm{~J} 294072 \\ & \mathrm{~J} 294073 \\ & \mathrm{~J} 294074 \end{aligned}$ |  | $\begin{aligned} & 1.68 \\ & 4.66 \\ & 0.32 \\ & 2.98 \\ & 0.54 \end{aligned}$ | $\begin{aligned} & \hline<0.005 \\ & 0.017 \\ & 0.301 \\ & 0.029 \\ & 0.098 \end{aligned}$ |  | $\begin{aligned} & \hline 0.2 \\ & 0.2 \\ & 0.6 \\ & 0.5 \\ & 0.6 \end{aligned}$ | $\begin{aligned} & 1.68 \\ & 1.77 \\ & 1.41 \\ & 1.69 \\ & 1.27 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & 3 \\ & 2 \\ & <2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 50 \\ & 50 \\ & 40 \\ & 40 \\ & 40 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3.46 \\ & 2.64 \\ & 3.47 \\ & 3.08 \\ & 3.64 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & 13 \\ & 14 \\ & 12 \\ & 14 \\ & 13 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 1 \\ & 2 \\ & 1 \end{aligned}$ | $\begin{gathered} 21 \\ 30 \\ 107 \\ 111 \\ 59 \end{gathered}$ |
| $\begin{aligned} & \mathrm{J} 294075 \\ & \mathrm{~J} 294076 \\ & \mathrm{~J} 294077 \\ & \mathrm{~J} 294078 \\ & \mathrm{~J} 294079 \end{aligned}$ |  | $\begin{aligned} & \hline 0.94 \\ & 1.26 \\ & 0.08 \\ & 1.84 \\ & 2.78 \end{aligned}$ | $\begin{aligned} & \hline 0.022 \\ & 1.420 \\ & 1.375 \\ & 0.191 \\ & 0.036 \end{aligned}$ |  | $\begin{aligned} & 0.5 \\ & 2.1 \\ & 4.7 \\ & 1.2 \\ & 0.4 \end{aligned}$ | $\begin{aligned} & 1.66 \\ & 1.20 \\ & 1.34 \\ & 1.12 \\ & 1.42 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & 45 \\ & <2 \\ & 4 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 50 \\ & 40 \\ & 50 \\ & 40 \\ & 40 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & 0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 2.96 \\ & 3.90 \\ & 1.47 \\ & 4.42 \\ & 3.94 \end{aligned}$ | $\begin{gathered} c 0.5 \\ 0.6 \\ 2.2 \\ 0.6 \\ <0.5 \end{gathered}$ | $\begin{aligned} & 14 \\ & 14 \\ & 18 \\ & 12 \\ & 15 \end{aligned}$ | $\begin{gathered} 2 \\ <1 \\ 62 \\ 62 \\ 1 \\ 17 \end{gathered}$ | $\begin{gathered} 71 \\ 120 \\ >10000 \\ 259 \\ 47 \end{gathered}$ |

Comments: Additional Au- AA23 check results for sample J294262 are 0.145 ppm and 0.321 ppm .

CERTIFICATE OF ANALYSIS VA11001920

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME- ICP41 } \\ \mathrm{Fe} \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- } \mathrm{CCP41} \\ \mathrm{Ca} \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} M E-\mid C P 41 \\ \mathrm{Hg} \\ \mathrm{ppm} \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ K \\ K \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- }\|C P 4\| \\ \text { La } \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ M_{g} \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ \text { Mn } \\ \text { ppm } \\ 5 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Mo } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME. }[C P 41 \\ \mathrm{Na} \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \mathrm{Ni} \\ \mathrm{ppm} \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ \text { P } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ \mathrm{Pb} \\ \mathrm{ppm} \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { S } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- } \text { [CP41 } \\ \text { Sb } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- } 1 C P 41 \\ \text { Sc } \\ \text { ppm } \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & J 294040 \\ & J 294041 \\ & J 294042 \\ & J 294043 \\ & J 294044 \end{aligned}$ |  | $\begin{aligned} & 3.34 \\ & 3.67 \\ & 3.83 \\ & 3.24 \\ & 3.58 \end{aligned}$ | $\begin{aligned} & <10 \\ & 10 \\ & 10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.66 \\ & 0.55 \\ & 1.14 \\ & 0.62 \\ & 0.85 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.99 \\ & 1.13 \\ & 1.27 \\ & 0.99 \\ & 1.13 \end{aligned}$ | $\begin{aligned} & 1415 \\ & 1205 \\ & 1215 \\ & 1425 \\ & 1290 \end{aligned}$ | $\begin{gathered} 1 \\ <1 \\ 1 \\ 1 \\ <1 \\ 2 \end{gathered}$ | $\begin{aligned} & 0.05 \\ & 0.04 \\ & 0.08 \\ & 0.03 \\ & 0.05 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 2 \\ & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 1750 \\ & 1840 \\ & 1850 \\ & 1800 \\ & 1810 \end{aligned}$ | $\begin{gathered} 2 \\ <2 \\ <2 \\ <2 \\ <2 \end{gathered}$ | $\begin{gathered} 0.23 \\ 0.03 \\ <0.01 \\ 0.06 \\ 0.04 \end{gathered}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3 \\ & 3 \\ & 3 \\ & 2 \\ & 4 \end{aligned}$ |
| $\begin{aligned} & 1294045 \\ & J 294046 \\ & J 294047 \\ & J 294048 \\ & J 294049 \end{aligned}$ |  | $\begin{aligned} & 4.60 \\ & 3.17 \\ & 3.77 \\ & 5.07 \\ & 3.43 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & 10 \\ & 10 \\ & <10 \end{aligned}$ | $\begin{aligned} & \text { <1 } \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & \hline 0.47 \\ & 0.59 \\ & 0.91 \\ & 3.28 \\ & 0.79 \end{aligned}$ | $\begin{aligned} & 20 \\ & 10 \\ & 10 \\ & 50 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.81 \\ & 1.06 \\ & 1.18 \\ & 4.51 \\ & 1.08 \end{aligned}$ | $\begin{gathered} 343 \\ 1100 \\ 1220 \\ 827 \\ 1260 \end{gathered}$ | $\begin{gathered} 252 \\ 1 \\ <1 \\ 1 \\ <1 \end{gathered}$ | $\begin{aligned} & 0.04 \\ & 0.05 \\ & 0.08 \\ & 0.07 \\ & 0.06 \end{aligned}$ | $\begin{gathered} 30 \\ 1 \\ 2 \\ 179 \\ 2 \end{gathered}$ | $\begin{aligned} & \hline 690 \\ & 1730 \\ & 1740 \\ & 5900 \\ & 1830 \end{aligned}$ | $\begin{aligned} & 69 \\ & <2 \\ & 4 \\ & 3 \\ & 2 \end{aligned}$ | $\begin{aligned} & 2.71 \\ & 0.12 \\ & 0.14 \\ & 0.06 \\ & 0.08 \end{aligned}$ | $\begin{aligned} & 16 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & \hline 6 \\ & 3 \\ & 5 \\ & 3 \\ & 4 \end{aligned}$ |
| $J 294050$ J 294051 J 294052 J 294053 J 294054 |  | $\begin{aligned} & 3.81 \\ & 3.76 \\ & 4.59 \\ & 3.53 \\ & 4.93 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 0.90 \\ & 0.99 \\ & 0.34 \\ & 0.48 \\ & 2.40 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 30 \end{aligned}$ | $\begin{aligned} & 1.16 \\ & 1.17 \\ & 1.32 \\ & 1.03 \\ & 3.17 \end{aligned}$ | $\begin{aligned} & 1250 \\ & 1140 \\ & 1695 \\ & 1340 \\ & 1665 \end{aligned}$ | $\begin{gathered} <1 \\ 4 \\ <1 \\ 1 \\ 1 \\ 1 \end{gathered}$ | $\begin{aligned} & 0.05 \\ & 0.04 \\ & 0.02 \\ & 0.04 \\ & 0.05 \end{aligned}$ | $\begin{gathered} \hline 2 \\ 2 \\ <1 \\ 3 \\ 89 \end{gathered}$ | $\begin{aligned} & 1820 \\ & 1790 \\ & 1650 \\ & 1790 \\ & 3270 \end{aligned}$ | $\begin{gathered} \hline 2 \\ 3 \\ 26 \\ 5 \\ 2 \end{gathered}$ | $\begin{aligned} & \hline 0.04 \\ & 0.05 \\ & 0.03 \\ & 0.47 \\ & 0.30 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 4 \\ & 5 \\ & 4 \\ & 3 \\ & 8 \end{aligned}$ |
| 1294055 $J 294056$ $J 294057$ $J 294058$ $J 294059$ |  | $\begin{aligned} & 4.14 \\ & 5.01 \\ & 3.19 \\ & 3.27 \\ & 3.19 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & <10 \\ & 10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.15 \\ & 2.70 \\ & 1.03 \\ & 0.82 \\ & 0.73 \end{aligned}$ | $\begin{aligned} & 10 \\ & 50 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.89 \\ & 3.71 \\ & 1.11 \\ & 0.99 \\ & 0.92 \end{aligned}$ | $\begin{gathered} \hline 685 \\ 1455 \\ 1565 \\ 1220 \\ 1215 \end{gathered}$ | $\begin{gathered} 219 \\ 1 \\ 1 \\ 1 \\ 1 \end{gathered}$ | $\begin{aligned} & \hline 0.09 \\ & 0.04 \\ & 0.03 \\ & 0.04 \\ & 0.03 \end{aligned}$ | $\begin{gathered} 23 \\ 116 \\ 5 \\ 2 \\ 2 \end{gathered}$ | $\begin{aligned} & \hline 670 \\ & 4390 \\ & 1890 \\ & 1700 \\ & 1730 \end{aligned}$ | $\begin{gathered} \hline 10 \\ 5 \\ 9 \\ 3 \\ 3 \end{gathered}$ | $\begin{aligned} & 0.76 \\ & 0.41 \\ & 1.28 \\ & 0.21 \\ & 0.22 \end{aligned}$ | $\begin{gathered} 4 \\ 3 \\ <2 \\ <2 \\ <2 \end{gathered}$ | $\begin{aligned} & 5 \\ & 7 \\ & 4 \\ & 3 \\ & 3 \end{aligned}$ |
| $\begin{aligned} & J 294060 \\ & J 294061 \\ & J 294062 \\ & J 294063 \\ & J 294064 \end{aligned}$ |  | $\begin{aligned} & 3.31 \\ & 3.43 \\ & 2.89 \\ & 3.08 \\ & 3.05 \end{aligned}$ | $\begin{aligned} & <10 \\ & 10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.73 \\ & 1.04 \\ & 0.46 \\ & 0.79 \\ & 0.33 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & \hline 0.94 \\ & 1.07 \\ & 0.91 \\ & 0.93 \\ & 0.86 \end{aligned}$ | $\begin{aligned} & 1385 \\ & 1205 \\ & 1215 \\ & 1215 \\ & 1445 \end{aligned}$ | $\begin{gathered} \hline 2 \\ <1 \\ 1 \\ 2 \\ 2 \\ <1 \end{gathered}$ | $\begin{aligned} & 0.03 \\ & 0.03 \\ & 0.02 \\ & 0.03 \\ & 0.02 \end{aligned}$ | $\begin{gathered} c 1 \\ 1 \\ 1 \\ 2 \\ 1 \end{gathered}$ | $\begin{aligned} & 1670 \\ & 1700 \\ & 1620 \\ & 1790 \\ & 1700 \end{aligned}$ | $\begin{gathered} \hline 8 \\ <2 \\ 3 \\ 4 \\ 4 \\ 4 \end{gathered}$ | $\begin{aligned} & 0.40 \\ & 0.06 \\ & 0.48 \\ & 0.13 \\ & 0.52 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3 \\ & 3 \\ & 2 \\ & 2 \\ & 2 \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294065 \\ & \mathrm{~J} 294066 \\ & \mathrm{~J} 294067 \\ & \mathrm{~J} 294068 \\ & \mathrm{~J} 294069 \end{aligned}$ |  | $\begin{aligned} & 3.39 \\ & 3.30 \\ & 3.05 \\ & 3.44 \\ & 3.60 \end{aligned}$ | $\begin{gathered} 10 \\ <10 \\ 10 \\ 10 \\ 10 \end{gathered}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.95 \\ & 0.92 \\ & 0.79 \\ & 0.93 \\ & 0.76 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.07 \\ & 1.02 \\ & 0.90 \\ & 1.09 \\ & 1.14 \end{aligned}$ | $\begin{aligned} & 1330 \\ & 1150 \\ & 1075 \\ & 1120 \\ & 1090 \end{aligned}$ | $\begin{gathered} <1 \\ <1 \\ 3 \\ <1 \\ <1 \\ <1 \end{gathered}$ | $\begin{aligned} & 0.03 \\ & 0.03 \\ & 0.05 \\ & 0.04 \\ & 0.06 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 2 \\ & 2 \end{aligned}$ | $\begin{aligned} & 1750 \\ & 1720 \\ & 1590 \\ & 1790 \\ & 1850 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & 2 \\ & 2 \\ & 2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 0.08 \\ & 0.06 \\ & 0.21 \\ & 0.22 \\ & 0.10 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3 \\ & 3 \\ & 2 \\ & 3 \\ & 5 \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294070 \\ & \mathrm{~J} 294071 \\ & \mathrm{~J} 294072 \\ & \mathrm{~J} 294073 \\ & \mathrm{~J} 294074 \end{aligned}$ |  | $\begin{aligned} & 3.49 \\ & 3.41 \\ & 3.36 \\ & 3.60 \\ & 3.05 \end{aligned}$ | $\begin{gathered} 10 \\ 10 \\ <10 \\ 10 \\ <10 \end{gathered}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 1.23 \\ & 1.27 \\ & 0.48 \\ & 1.00 \\ & 0.72 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.10 \\ & 1.18 \\ & 1.04 \\ & 1.21 \\ & 0.96 \end{aligned}$ | $\begin{aligned} & 1275 \\ & 1120 \\ & 1260 \\ & 1240 \\ & 1220 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 0.06 \\ & 0.06 \\ & 0.04 \\ & 0.06 \\ & 0.03 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 2 \\ & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 1850 \\ & 1770 \\ & 1860 \\ & 1820 \\ & 1750 \end{aligned}$ | $\begin{gathered} \hline 2 \\ <2 \\ 3 \\ 3 \\ 3 \\ 3 \end{gathered}$ | $\begin{aligned} & \hline 0.10 \\ & 0.12 \\ & 0.27 \\ & 0.06 \\ & 0.19 \end{aligned}$ | $\begin{gathered} <2 \\ 2 \\ <2 \\ <2 \\ <2 \\ <2 \end{gathered}$ | $\begin{aligned} & 3 \\ & 3 \\ & 3 \\ & 3 \\ & 3 \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294075 \\ & J 294076 \\ & J 294077 \\ & J 294078 \\ & J 294079 \end{aligned}$ |  | $\begin{aligned} & 3.46 \\ & 3.13 \\ & 4.55 \\ & 2.82 \\ & 3.49 \end{aligned}$ | $\begin{aligned} & \begin{array}{c} 10 \\ <10 \\ <10 \\ <10 \\ 10 \end{array} \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & 1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 1.18 \\ & 0.51 \\ & 0.47 \\ & 0.38 \\ & 0.56 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 20 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.14 \\ & 0.93 \\ & 0.80 \\ & 0.98 \\ & 1.19 \end{aligned}$ | $\begin{aligned} & 1135 \\ & 1330 \\ & 341 \\ & 1425 \\ & 1315 \end{aligned}$ | $\begin{gathered} 1 \\ 1 \\ 247 \\ 1 \\ <1 \end{gathered}$ | $\begin{aligned} & \hline 0.05 \\ & 0.04 \\ & 0.05 \\ & 0.04 \\ & 0.05 \end{aligned}$ | $\begin{gathered} \hline 2 \\ <1 \\ 29 \\ 1 \\ 8 \end{gathered}$ | $\begin{gathered} 1840 \\ 1770 \\ 700 \\ 1790 \\ 1850 \end{gathered}$ | $\begin{gathered} c 2 \\ 4 \\ 71 \\ 5 \\ 4 \\ 4 \end{gathered}$ | $\begin{aligned} & 0.06 \\ & 0.74 \\ & 2.67 \\ & 0.30 \\ & 0.13 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & 16 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3 \\ & 2 \\ & 6 \\ & 2 \\ & 4 \end{aligned}$ |

Comments: Additional Au- AA23 check results for sample J294262 are 0.145 ppm and 0.321 ppm .

CERTIFICATE OF ANALYSIS VA11001920


Comments: Additional Au-AA23 check results for sample J294262 are 0.145 ppm and 0.321 ppm .

CERTIFICATE OF ANALYSIS VA11001920

| Sample Description | Method Analyte Units LOR | WEF-21 | Au- AA23 | Au-CRA21 | ME- ICP41 | ME-ICP41 | ME. ICP4 ${ }_{\text {As }}$ | $\text { ME- } \operatorname{ICP4}$ | $M E-1 C P 41$ | $\text { ME. } 1 \subset P 41$ | $\text { ME- } \mid C P 41$ | ME-ICP41 | ME- ICP41 | ME. ICP41 | ME-ICP41 | ME- ICP41 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\mathrm{kg}$ | ppm | $\begin{gathered} \mathrm{Au} \\ \mathrm{ppm} \end{gathered}$ | $\begin{gathered} \mathrm{Ag} \\ \mathrm{ppm} \end{gathered}$ | $\begin{aligned} & \mathrm{Al} \\ & \mathrm{x} \end{aligned}$ | $\begin{aligned} & \text { As } \\ & \text { ppm } \end{aligned}$ | $\begin{gathered} \mathrm{B} \\ \mathrm{ppm} \end{gathered}$ | $\begin{gathered} \mathrm{Ba} \\ \mathrm{ppm} \end{gathered}$ | $\begin{gathered} \mathrm{Be} \\ \mathrm{ppm} \end{gathered}$ | ppm | $\begin{aligned} & \mathrm{Ca} \\ & \% \end{aligned}$ | $\begin{gathered} \mathrm{Cd} \\ \mathrm{ppm} \end{gathered}$ | Co ppm | $\begin{gathered} \mathrm{Cr} \\ \mathrm{ppm} \end{gathered}$ | $\begin{gathered} \mathrm{Cu} \\ \text { pom } \end{gathered}$ |
|  |  | 0.02 | 0.005 | 0.05 | 0.2 | 0.01 | 2 | 10 | 10 | 0.5 | 2 | 0.01 | 0.5 | 1 | 1 | 1 |
| J294080 |  | 0.52 | 1.510 |  | 22.5 | 1.25 | $<2$ | <10 | 60 | 0.5 | 12 | 6.94 | 4.4 | 24 | 1 | 5390 |
| J 294081 |  | 1.14 | $<0.005$ |  | 0.7 | 1.13 | 2 | <10 | 30 | $<0.5$ | $<2$ | 4.82 | $<0.5$ | 8 | 1 | 154 |
| 1294082 |  | 0.72 | 0.044 |  | 0.6 | 0.56 | <2 | <10 | 30 | $<0.5$ | <2 | 4.19 | 0.8 | 12 | 1 | 35 |
| J 294083 |  | 0.32 | 3.72 |  | 18.8 | 0.08 | <2 | <10 | 10 | $<0.5$ | 8 | 0.87 | 50.8 | 4 | 5 | 4490 |
| J294084 |  | 1.56 | 0.244 |  | 1.3 | 0.44 | $<2$ | <10 | 40 | <0.5 | 2 | 3.56 | 0.6 | 14 | 1 | 49 |
| J294085 |  | 0.82 | 0.423 |  | 1.1 | 0.70 | $<2$ | <10 | 50 | $<0.5$ | <2 | 3.75 | 0.5 | 14 | 1 | 262 |
| J294086 |  | 0.62 | 1.470 |  | 2.6 | 0.37 | 4 | $<10$ | 40 | $<0.5$ | 2 | 214 | 0.7 | 11 | 3 | 626 |
| J 294087 |  | 1.44 | 0.016 |  | 1.2 | 0.52 | $<2$ | $<10$ | 70 | $<0.5$ | $<2$ | 5.28 | $<0.5$ | 7 | 1 | 237 |
| J294088 |  | 0.08 | 0.553 |  | 1.2 | 2.06 | 5 | <10 | 90 | $<0.5$ | <2 | 0.81 | $<0.5$ | 11 | 35 | 5740 |
| J 294089 |  | 1.02 | 0.148 |  | 0.7 | 1.49 | $<2$ | $<10$ | 50 | 0.5 | $<2$ | 4.80 | <0.5 | 15 | 1 | 122 |
| 1294090 |  | 0.78 | 0.520 |  | 1.4 | 1.06 | $<2$ | <10 | 30 | 0.5 | <2 | 3.95 | 1.0 | 17 | 1 | 329 |
| J294091 |  | 1.58 | 0.078 |  | 1.3 | 1.18 | $<2$ | $<10$ | 50 | $<0.5$ | $<2$ | 4.02 | <0.5 | 14 | 1 | 133 |
| 1294092 |  | 0.74 | 2.86 |  | 4.2 | 0.61 | 7 | <10 | 30 | $<0.5$ | 7 | 4.93 | 1.6 | 19 | $<1$ | 83 |
| J 294093 |  | 0.46 | 0.056 |  | 1.0 | 1.26 | 3 | $<10$ | 30 | $<0.5$ | $<2$ | 5.73 | $<0.5$ | 12 | 2 | 369 |
| J294094 |  | 0.72 | 0.174 |  | 1.1 | 0.64 | <2 | <10 | 40 | $<0.5$ | $<2$ | 3.99 | $<0.5$ | 16 | 1 | 377 |
| J294095 |  | 2.96 | 0.005 |  | 1.2 | 1.35 | <2 | <10 | 20 | <0.5 | <2 | 5.28 | <0.5 | 13 | 1 | 327 |
| J294096 |  | 1.74 | 0.151 |  | 2.4 | 0.66 | $<2$ | $<10$ | 140 | $<0.5$ | $<2$ | 4.06 | 0.5 | 14 | 1 | 722 |
| J 294097 |  | 0.44 | 0.010 |  | 22 | 1.02 | $<2$ | <10 | 150 | <0.5 | $<2$ | 4.02 | $<0.5$ | 15 | 1 | 203 |
| J294098 |  | 0.54 | 0.176 |  | 1.5 | 0.44 | $<2$ | <10 | 200 | <0.5 | <2 | 3.74 | 0.8 | 15 | 1 | 54 |
| J294099 |  | 0.60 | 0.511 |  | 1.8 | 0.48 | $<2$ | $<10$ | 200 | $<0.5$ | $<2$ | 4.10 | 1.1 | 16 | 1 | 90 |
| J294178 |  | 0.94 | 0.921 |  | 17.5 | 2.37 | $<2$ | $<10$ | 240 | 1.0 | $<2$ | 5.59 | 3.7 | 19 | 71 | 6710 |
| 1294179 |  | 0.76 | 0.026 |  | 2.5 | 1.19 | $<2$ | <10 | 30 | $<0.5$ | $<2$ | 15.3 | $<0.5$ | 10 | 1 | 920 |
| J294180 |  | 1.12 | 0.142 |  | 0.8 | 1.47 | 2 | <10 | 70 | 0.5 | <2 | 3.00 | $<0.5$ | 14 | 2 | 171 |
| J294181 |  | 0.74 | 0.015 |  | 0.6 | 1.34 | $<2$ | <10 | 100 | 0.5 | $<2$ | 3.12 | $<0.5$ | 15 | 2 | 43 |
| J294182 |  | 0.70 | 0.244 |  | 2.4 | 1.03 | $<2$ | $<10$ | 40 | $<0.5$ | 7 | 3.40 | 4.5 | 11 | 2 | 361 |
| J294183 |  | 2.16 | 0.088 |  | 0.8 | 1.13 | $<2$ | <10 | 40 | 0.5 | $<2$ | 3.45 | $<0.5$ | 12 | 1 | 200 |
| J294184 |  | 0.34 | >10.0 | 23.6 | 29.0 | 0.53 | 2 | <10 | 30 | $<0.5$ | 67 | 0.91 | 2.7 | 15 | 3 | 1680 |
| J294185 |  | 0.80 | 0.151 |  | 0.9 | 1.08 | $<2$ | $<10$ | 40 | 0.5 | 2 | 3.52 | 0.7 | 13 | 2 | 181 |
| J294186 |  | 1.22 | 1.150 |  | 0.7 | 1.14 | <2 | $<10$ | 60 | 0.5 | 3 | 3.42 | $<0.5$ | 13 | 1 | 55 |
| 1294187 |  | 0.28 | 3.70 |  | 2.7 | 1.43 | $<2$ | $<10$ | 40 | $<0.5$ | 3 | 3.41 | 1.0 | 17 | 2 | 1465 |
| J294188 |  | 1.88 | 0.005 |  | $<0.2$ | 1.62 | $<2$ | <10 | 90 | $<0.5$ | 3 | 0.50 | $<0.5$ | 4 | 7 | 7 |
| J294189 |  | 1.34 | 1.000 |  | 25 | 1.18 | $<2$ | <10 | 40 | 0.6 | 3 | 3.59 | 0.8 | 13 | 1 | 841 |
| J294190 |  | 0.72 | 0.257 |  | 0.7 | 1.50 | $<2$ | <10 | 40 | 0.7 | $<2$ | 3.63 | $<0.5$ | 16 | 1 | 122 |
| J294191 |  | 0.76 | 0.583 |  | 0.5 | 1.32 | $<2$ | $<10$ | 30 | 0.6 | 2 | 2.80 | $<0.5$ | 14 | 1 | 78 |
| 1294192 |  | 0.78 | 0.021 |  | 0.5 | 1.42 | $<2$ | $<10$ | 40 | 0.5 | $<2$ | 2.40 | $<0.5$ | 14 | 2 | 115 |
| J294193 |  | 0.28 | 0.016 |  | 0.5 | 1.62 | $<2$ | <10 | 40 | $<0.5$ | $<2$ | 3.42 | $<0.5$ | 14 | 1 | 226 |
| J 294194 |  | 0.52 | 0.092 |  | 2.0 | 1.65 | 2 | <10 | 50 | $<0.5$ | 3 | 2.37 | 0.8 | 16 | 2 | 1320 |
| J294195 |  | 0.56 | 274 |  | 1.4 | 1.51 | $<2$ | $<10$ | 60 | $<0.5$ | 2 | 3.13 | $<0.5$ | 11 | 2 | 273 |
| J294196 |  | 1.64 | 0.079 |  | 1.0 | 1.34 | 2 | $<10$ | 40 | $<0.5$ | <2 | 5.89 | $<0.5$ | 13 | 1 | 25 |
| 1294197 |  | 0.28 | 0.077 |  | 0.5 | 1.78 | 2 | <10 | 50 | $<0.5$ | 2 | 3.60 | $<0.5$ | 21 | 2 | 30 |

Comments: Additional Au- AA23 check results for sample J 294262 are 0.145 ppm and 0.321 ppm .

CERTIFICATE OF ANALYSIS VA11001920

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME- ICP41 } \\ \mathrm{Fe} \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Ca } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \mathrm{ME}-\mathrm{ICP41} \\ \mathrm{Hg} \\ \mathrm{ppm} \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { K } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ \text { La } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ \text { Mg } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \mathrm{Mn} \\ \mathrm{ppm} \\ 5 \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ \text { M0 } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ \mathrm{Na} \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- } \operatorname{ICP41} \\ \mathrm{Ni} \\ \mathrm{ppm} \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- }-1 C P 41 \\ P \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- } \operatorname{ICP41} \\ \text { Pb } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { S } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME. } \operatorname{ICP4\|} \\ \text { Sb } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME. } \mathrm{ICP41} \\ \mathrm{Sc} \\ \mathrm{ppm} \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & J 294080 \\ & J 294081 \\ & J 294082 \\ & J 294083 \\ & J 294084 \end{aligned}$ |  | $\begin{aligned} & 5.78 \\ & 1.92 \\ & 3.11 \\ & 1.98 \\ & 3.07 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.12 \\ & 0.50 \\ & 0.41 \\ & 0.06 \\ & 0.28 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.66 \\ & 1.03 \\ & 1.00 \\ & 0.21 \\ & 0.94 \end{aligned}$ | $\begin{gathered} 3000 \\ 1215 \\ 1550 \\ 555 \\ 1520 \end{gathered}$ | $\begin{gathered} 3 \\ <1 \\ <1 \\ 1 \\ 2 \end{gathered}$ | 0.04 <br> 0.05 <br> 0.04 <br> 0.02 <br> 0.03 | $\begin{gathered} 1 \\ 1 \\ <1 \\ 1 \\ 1 \\ 1 \end{gathered}$ | $\begin{aligned} & 1390 \\ & 1820 \\ & 1790 \\ & 210 \\ & 1740 \end{aligned}$ | $\begin{gathered} 117 \\ 4 \\ 5 \\ 108 \\ 15 \end{gathered}$ | $\begin{aligned} & 4.36 \\ & 0.02 \\ & 0.32 \\ & 1.57 \\ & 0.58 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 7 \\ & 4 \\ & 2 \\ & 1 \\ & 2 \end{aligned}$ |
| $\begin{aligned} & J 294085 \\ & J 294086 \\ & J 294087 \\ & J 294088 \\ & J 294089 \end{aligned}$ |  | $\begin{aligned} & 3.31 \\ & 2.08 \\ & 2.53 \\ & 3.97 \\ & 3.99 \end{aligned}$ | $\begin{gathered} \hline<10 \\ <10 \\ <10 \\ 10 \\ <10 \end{gathered}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & \hline 0.39 \\ & 0.18 \\ & 0.32 \\ & 0.14 \\ & 0.79 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.96 \\ & 0.40 \\ & 0.47 \\ & 0.86 \\ & 1.29 \end{aligned}$ | $\begin{gathered} 1275 \\ 716 \\ 1200 \\ 656 \\ 1685 \end{gathered}$ | $\begin{gathered} 1 \\ 3 \\ 10 \\ 212 \\ 1 \end{gathered}$ | $\begin{aligned} & \hline 0.04 \\ & 0.04 \\ & 0.05 \\ & 0.10 \\ & 0.04 \end{aligned}$ | $\begin{gathered} \hline<1 \\ 1 \\ <1 \\ 23 \\ 2 \end{gathered}$ | $\begin{aligned} & \hline 1790 \\ & 1010 \\ & 1880 \\ & 640 \\ & 2100 \end{aligned}$ | $\begin{gathered} \hline 3 \\ 11 \\ 3 \\ 12 \\ 4 \end{gathered}$ | $\begin{aligned} & \hline 0.69 \\ & 1.21 \\ & 0.12 \\ & 0.73 \\ & 0.50 \end{aligned}$ | $\begin{gathered} <2 \\ <2 \\ <2 \\ 2 \\ <2 \end{gathered}$ | $\begin{aligned} & \hline 3 \\ & 1 \\ & 2 \\ & 5 \\ & 3 \end{aligned}$ |
| $J 294090$ $J 294091$ $J 294092$ $J 294093$ $J 294094$ |  | $\begin{aligned} & 3.24 \\ & 3.16 \\ & 4.20 \\ & 3.71 \\ & 3.73 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & 10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.56 \\ & 0.55 \\ & 0.27 \\ & 0.69 \\ & 0.48 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.92 \\ & 0.99 \\ & 0.66 \\ & 0.99 \\ & 0.78 \end{aligned}$ | $\begin{aligned} & 1635 \\ & 1430 \\ & 1770 \\ & 2030 \\ & 1460 \end{aligned}$ | $\begin{gathered} \hline 3 \\ 1 \\ 2 \\ <1 \\ 1 \end{gathered}$ | $\begin{aligned} & \hline 0.03 \\ & 0.04 \\ & 0.03 \\ & 0.05 \\ & 0.04 \end{aligned}$ | $\begin{gathered} \hline<1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \end{gathered}$ | $\begin{aligned} & \hline 1870 \\ & 1870 \\ & 1710 \\ & 1620 \\ & 1740 \end{aligned}$ | $\begin{gathered} \hline 6 \\ 8 \\ 29 \\ 2 \\ 3 \\ \hline \end{gathered}$ | $\begin{aligned} & 1.26 \\ & 0.25 \\ & 3.29 \\ & 0.05 \\ & 0.62 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 2 \\ & 4 \\ & 3 \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294095 \\ & \mathrm{~J} 294096 \\ & \mathrm{~J} 294097 \\ & \mathrm{~J} 294098 \\ & \mathrm{~J} 294099 \end{aligned}$ |  | $\begin{aligned} & 4.78 \\ & 3.10 \\ & 3.44 \\ & 3.38 \\ & 3.25 \end{aligned}$ | $\begin{aligned} & \hline 10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 1 \\ <1 \\ <1 \\ <1 \\ <1 \\ <1 \end{gathered}$ | $\begin{aligned} & \hline 0.20 \\ & 0.41 \\ & 0.57 \\ & 0.34 \\ & 0.35 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.15 \\ & 0.90 \\ & 1.05 \\ & 1.03 \\ & 0.82 \end{aligned}$ | $\begin{aligned} & 2060 \\ & 1395 \\ & 1450 \\ & 1505 \\ & 1485 \end{aligned}$ | $\begin{gathered} \hline 1 \\ 2 \\ <1 \\ <1 \\ <1 \end{gathered}$ | $\begin{aligned} & 0.04 \\ & 0.04 \\ & 0.05 \\ & 0.04 \\ & 0.05 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 1630 \\ & 1680 \\ & 1800 \\ & 1830 \\ & 1960 \end{aligned}$ | $\begin{gathered} c 2 \\ 6 \\ <2 \\ 4 \\ 4 \end{gathered}$ | $\begin{aligned} & \hline 0.05 \\ & 0.89 \\ & 0.33 \\ & 0.78 \\ & 1.08 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & \hline 6 \\ & 2 \\ & 4 \\ & 2 \\ & 2 \end{aligned}$ |
| $\begin{aligned} & J 294178 \\ & J 294179 \\ & J 294180 \\ & J 294181 \\ & J 294182 \end{aligned}$ |  | $\begin{aligned} & 4.85 \\ & 2.95 \\ & 3.36 \\ & 3.45 \\ & 2.78 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 2.29 \\ & 0.83 \\ & 1.03 \\ & 0.94 \\ & 0.50 \end{aligned}$ | $\begin{aligned} & 40 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & \hline 2.42 \\ & 0.81 \\ & 1.04 \\ & 0.95 \\ & 0.86 \end{aligned}$ | $\begin{aligned} & 1565 \\ & 2160 \\ & 1170 \\ & 1155 \\ & 1365 \end{aligned}$ | $\begin{gathered} 23 \\ 18 \\ 1 \\ 1 \\ 1 \end{gathered}$ | $\begin{aligned} & \hline 0.06 \\ & 0.04 \\ & 0.05 \\ & 0.06 \\ & 0.03 \end{aligned}$ | $\begin{gathered} \hline 55 \\ 2 \\ 1 \\ 4 \\ 1 \end{gathered}$ | 3560 1100 1750 1760 1650 | $\begin{gathered} \hline 112 \\ 6 \\ 3 \\ 6 \\ 10 \end{gathered}$ | $\begin{aligned} & 1.07 \\ & 1.12 \\ & 0.29 \\ & 0.39 \\ & 0.46 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 9 \\ & 2 \\ & 3 \\ & 3 \\ & 2 \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294183 \\ & \mathrm{~J} 294184 \\ & \mathrm{~J} 294185 \\ & \mathrm{~J} 294186 \\ & \mathrm{~J} 294187 \end{aligned}$ |  | $\begin{aligned} & 3.01 \\ & 4.31 \\ & 2.71 \\ & 2.94 \\ & 3.36 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & \hline 0.56 \\ & 0.29 \\ & 0.56 \\ & 0.67 \\ & 0.64 \end{aligned}$ | $\begin{gathered} \hline 10 \\ <10 \\ 10 \\ 10 \\ 10 \end{gathered}$ | $\begin{aligned} & \hline 0.92 \\ & 0.23 \\ & 0.88 \\ & 0.90 \\ & 0.98 \end{aligned}$ | $\begin{gathered} \hline 1325 \\ 455 \\ 1245 \\ 1210 \\ 1415 \end{gathered}$ | $\begin{gathered} \hline<1 \\ 12 \\ 2 \\ 1 \\ 1 \end{gathered}$ | $\begin{aligned} & 0.04 \\ & 0.01 \\ & 0.02 \\ & 0.04 \\ & 0.04 \end{aligned}$ | $\begin{aligned} & \hline 2 \\ & 1 \\ & 1 \\ & 2 \\ & 2 \end{aligned}$ | $\begin{gathered} 1680 \\ 730 \\ 1890 \\ 1800 \\ 1730 \end{gathered}$ | $\begin{gathered} \hline 4 \\ 296 \\ 7 \\ 6 \\ 5 \end{gathered}$ | $\begin{aligned} & 0.17 \\ & 4.39 \\ & 0.70 \\ & 0.48 \\ & 1.23 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 2 \\ & 1 \\ & 2 \\ & 2 \\ & 3 \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294188 \\ & \mathrm{~J} 294189 \\ & \mathrm{~J} 294190 \\ & \mathrm{~J} 294191 \\ & \mathrm{~J} 294192 \end{aligned}$ |  | $\begin{aligned} & 2.68 \\ & 3.27 \\ & 4.19 \\ & 3.35 \\ & 3.22 \end{aligned}$ | $\begin{aligned} & 10 \\ & <10 \\ & <10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{gathered} c 1 \\ 1 \\ <1 \\ <1 \\ 1 \end{gathered}$ | $\begin{aligned} & 1.06 \\ & 0.56 \\ & 0.92 \\ & 0.33 \\ & 0.81 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.70 \\ & 0.99 \\ & 1.24 \\ & 0.96 \\ & 1.00 \end{aligned}$ | $\begin{aligned} & \hline 553 \\ & 1520 \\ & 1475 \\ & 1175 \\ & 1060 \end{aligned}$ | $\begin{gathered} \hline 1 \\ 1 \\ 1 \\ 2 \\ 2 \\ 10 \end{gathered}$ | $\begin{aligned} & 0.10 \\ & 0.03 \\ & 0.04 \\ & 0.04 \\ & 0.06 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 2 \\ & 2 \\ & 2 \\ & 2 \end{aligned}$ | $\begin{aligned} & \hline 730 \\ & 1830 \\ & 2140 \\ & 1700 \\ & 1610 \end{aligned}$ | $\begin{aligned} & \hline 3 \\ & 6 \\ & 4 \\ & 5 \\ & 6 \end{aligned}$ | $\begin{aligned} & 0.03 \\ & 0.47 \\ & 0.64 \\ & 0.66 \\ & 0.24 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & \hline 2 \\ & 3 \\ & 4 \\ & 3 \\ & 3 \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294193 \\ & \mathrm{~J} 294194 \\ & \mathrm{~J} 294195 \\ & \mathrm{~J} 294196 \\ & \mathrm{~J} 294197 \end{aligned}$ |  | $\begin{aligned} & 3.55 \\ & 3.33 \\ & 2.87 \\ & 3.50 \\ & 3.97 \end{aligned}$ | $\begin{gathered} 10 \\ 10 \\ <10 \\ 10 \\ 10 \end{gathered}$ | $\begin{gathered} c< \\ 1 \\ <1 \\ <1 \\ 1 \end{gathered}$ | $\begin{aligned} & \hline 0.87 \\ & 1.13 \\ & 0.75 \\ & 0.16 \\ & 1.27 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.13 \\ & 1.11 \\ & 1.03 \\ & 1.10 \\ & 1.26 \end{aligned}$ | $\begin{aligned} & 1290 \\ & 1015 \\ & 1290 \\ & 1585 \\ & 1430 \end{aligned}$ | $\begin{gathered} 1 \\ 6 \\ 2 \\ <1 \\ 1 \end{gathered}$ | $\begin{aligned} & 0.05 \\ & 0.05 \\ & 0.04 \\ & 0.06 \\ & 0.04 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 2 \\ & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 1750 \\ & 1760 \\ & 1640 \\ & 1450 \\ & 1600 \end{aligned}$ | $\begin{aligned} & 7 \\ & 7 \\ & 7 \\ & 7 \\ & 6 \\ & 4 \end{aligned}$ | $\begin{aligned} & 0.20 \\ & 0.56 \\ & 0.54 \\ & 0.96 \\ & 0.73 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 4 \\ & 3 \\ & 3 \\ & 3 \\ & 4 \\ & 4 \end{aligned}$ |

Comments: Additional Au- AA23 check results for sample J294262 are 0.145 ppm and 0.321 ppm .

CERTIFICATE OF ANALYSIS VA11001920

| Sample DescriptionMethod <br> Analyte <br> Units <br> LOR | $\begin{gathered} \text { ME- ICP41 } \\ \text { Sr } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME-ICP4 } \\ \text { Th } \\ \text { ppm } \\ 20 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \mathrm{Ti} \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- } \operatorname{ICP4} 1 \\ \mathrm{TI} \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ U \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP4 } \\ V \\ \mathrm{ppm} \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { W } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \mathrm{Zn} \\ \mathrm{ppm} \\ 2 \end{gathered}$ | $\begin{gathered} \mathrm{Cu} \cdot \mathrm{OC} 46 \\ \mathrm{Cu} \\ \% \\ 0.001 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & J 294080 \\ & J 294081 \\ & J 294082 \\ & J 294083 \\ & J 294084 \end{aligned}$ | $\begin{gathered} 749 \\ 241 \\ 326 \\ 85 \\ 253 \end{gathered}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.02 \\ & 0.07 \\ & 0.02 \\ & <0.01 \\ & 0.01 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 42 \\ 65 \\ 43 \\ 3 \\ 34 \end{gathered}$ | $\begin{gathered} 10 \\ <10 \\ <10 \\ <10 \\ <10 \end{gathered}$ | $\begin{aligned} & 81 \\ & 42 \\ & 52 \\ & 810 \\ & 42 \end{aligned}$ |  |
| $J 294085$ $J 294086$ $J 294087$ $J 294088$ $J 294089$ | $\begin{gathered} \hline 395 \\ 171 \\ 755 \\ 43 \\ 526 \end{gathered}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & \hline 0.03 \\ & 0.01 \\ & 0.05 \\ & 0.14 \\ & 0.07 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 48 \\ & 18 \\ & 60 \\ & 62 \\ & 69 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 40 \\ & 25 \\ & 24 \\ & 77 \\ & 66 \end{aligned}$ |  |
| $J 294090$ $J 294091$ $J 294092$ $J 294093$ $J 294094$ | $\begin{aligned} & 479 \\ & 483 \\ & 343 \\ & 280 \\ & 502 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.05 \\ & 0.05 \\ & 0.01 \\ & 0.14 \\ & 0.05 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 43 \\ 58 \\ 14 \\ 141 \\ 59 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & \hline 41 \\ & 64 \\ & 46 \\ & 53 \\ & 51 \end{aligned}$ |  |
| J294095 J294096 J294097 J294098 J294099 | $\begin{aligned} & \hline 545 \\ & 1625 \\ & 1885 \\ & 1310 \\ & 1290 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & \hline 0.08 \\ & 0.02 \\ & 0.06 \\ & 0.02 \\ & 0.01 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 185 \\ 45 \\ 74 \\ 33 \\ 31 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 60 \\ & 41 \\ & 56 \\ & 54 \\ & 56 \end{aligned}$ |  |
| $J 294178$ $J 294179$ $J 294180$ $J 294181$ $J 294182$ | $\begin{gathered} \hline 810 \\ 1665 \\ 408 \\ 701 \\ 492 \end{gathered}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & \hline 0.41 \\ & 0.09 \\ & 0.13 \\ & 0.12 \\ & 0.05 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} <10 \\ 10 \\ <10 \\ <10 \\ <10 \end{gathered}$ | $\begin{aligned} & \hline 151 \\ & 98 \\ & 91 \\ & 95 \\ & 43 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & 10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} \hline 133 \\ 50 \\ 62 \\ 73 \\ 156 \end{gathered}$ |  |
| $J 294183$ $J 294184$ $J 294185$ $J 294186$ $J 294187$ | $\begin{gathered} 464 \\ 79 \\ 437 \\ 493 \\ 275 \end{gathered}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{gathered} 0.04 \\ <0.01 \\ 0.04 \\ 0.07 \\ 0.08 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 55 \\ & 12 \\ & 37 \\ & 53 \\ & 95 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 59 \\ & 26 \\ & 40 \\ & 38 \\ & 52 \end{aligned}$ |  |
| $\begin{aligned} & 1294188 \\ & J 294189 \\ & J 294190 \\ & 1294191 \\ & \mathrm{~J} 294192 \end{aligned}$ | $\begin{gathered} 30 \\ 529 \\ 468 \\ 224 \\ 244 \end{gathered}$ | $\begin{aligned} & \hline<20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & \hline 0.21 \\ & 0.05 \\ & 0.11 \\ & 0.09 \\ & 0.16 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} \hline 36 \\ 67 \\ 114 \\ 106 \\ 111 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & \hline 77 \\ & 52 \\ & 81 \\ & 57 \\ & 66 \end{aligned}$ |  |
| $\begin{aligned} & J 294193 \\ & J 294194 \\ & J 294195 \\ & J 294196 \\ & J 294197 \end{aligned}$ | $\begin{gathered} \hline 221 \\ 262 \\ 289 \\ 1190 \\ 347 \end{gathered}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & \hline 0.18 \\ & 0.19 \\ & 0.11 \\ & 0.10 \\ & 0.20 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} \hline 141 \\ 127 \\ 91 \\ 142 \\ 146 \end{gathered}$ | $\begin{aligned} & <10 \\ & 10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 75 \\ & 75 \\ & 82 \\ & 65 \\ & 101 \end{aligned}$ |  |

Comments: Additional Au- AA23 check results for sample J294262 are 0.145 ppm and 0.321 ppm .

| Sample Description | Method Analyte Units LOR | WEF- 21 <br> Recvd Wt: kg 0.02 | $\begin{gathered} \mathrm{Au} \cdot \mathrm{AA} 23 \\ \mathrm{Au} \\ \mathrm{ppm} \\ 0.005 \end{gathered}$ | $\begin{gathered} \mathrm{Au}-\mathrm{CRA} 21 \\ \mathrm{Au} \\ \mathrm{ppm} \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME- ICP4 } \\ \text { Ag } \\ \mathrm{ppm} \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { A] } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { As } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ \text { B } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- } 1 C P 41 \\ 8 \mathrm{Ba} \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Be } \\ \text { ppm } \\ 0.5 \end{gathered}$ | $\begin{gathered} \text { ME: ICP41 } \\ \mathrm{Bi} \\ \mathrm{ppm} \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Ca } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- }- \text { CP4 } \\ \text { Cd } \\ \text { ppm } \\ 0.5 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Co } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- } 1 C P 41 \\ \text { Cr } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- } 1 C P 41 \\ \mathrm{Cu} \\ \text { ppm } \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \mathrm{J} 294198 \\ & \mathrm{~J} 294199 \\ & \mathrm{~J} 294200 \\ & \mathrm{~J} 294201 \\ & \mathrm{~J} 294202 \end{aligned}$ |  | $\begin{aligned} & 1.68 \\ & 0.08 \\ & 0.94 \\ & 0.50 \\ & 0.82 \end{aligned}$ | $\begin{aligned} & 0.615 \\ & 0.557 \\ & 0.081 \\ & 2.09 \\ & 0.069 \end{aligned}$ |  | $\begin{gathered} \hline 26 \\ 2.9 \\ 1.0 \\ 11.2 \\ 2.3 \end{gathered}$ | $\begin{aligned} & 0.52 \\ & 1.34 \\ & 0.50 \\ & 0.10 \\ & 0.45 \end{aligned}$ | $\begin{aligned} & <2 \\ & 70 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 70 \\ 50 \\ 100 \\ 10 \\ 120 \end{gathered}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{gathered} \hline 3 \\ <2 \\ <2 \\ 31 \\ <2 \end{gathered}$ | $\begin{aligned} & 4.04 \\ & 3.84 \\ & 3.71 \\ & 0.62 \\ & 3.88 \end{aligned}$ | $\begin{aligned} & 0.6 \\ & 1.9 \\ & 0.5 \\ & 0.7 \\ & 1.0 \end{aligned}$ | $\begin{gathered} 11 \\ 17 \\ 15 \\ 6 \\ 15 \end{gathered}$ | $\begin{gathered} 1 \\ 24 \\ 1 \\ 5 \\ 2 \end{gathered}$ | $\begin{gathered} 846 \\ 4610 \\ 19 \\ 94 \\ 553 \end{gathered}$ |
| $J 294203$ $J 294204$ $J 294205$ $J 294206$ $J 294207$ |  | $\begin{aligned} & \hline 0.26 \\ & 0.66 \\ & 2.80 \\ & 2.12 \\ & 1.60 \end{aligned}$ | $\begin{gathered} \hline 0.331 \\ <0.005 \\ 0.017 \\ 2.33 \\ 2.09 \end{gathered}$ |  | $\begin{gathered} \hline 7.8 \\ 1.3 \\ 2.2 \\ 4.1 \\ 16.1 \end{gathered}$ | $\begin{aligned} & 1.22 \\ & 1.26 \\ & 1.48 \\ & 0.88 \\ & 1.40 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & 2 \\ & 2 \\ & 3 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 30 \\ 180 \\ 110 \\ 50 \\ 100 \end{gathered}$ | $\begin{gathered} <0.5 \\ <0.5 \\ 0.5 \\ <0.5 \\ <0.5 \end{gathered}$ | $\begin{gathered} c 2 \\ 2 \\ <2 \\ 3 \\ 3 \\ 11 \end{gathered}$ | $\begin{aligned} & 12.7 \\ & 3.73 \\ & 3.58 \\ & 3.72 \\ & 4.60 \end{aligned}$ | $\begin{gathered} \hline 0.5 \\ <0.5 \\ <0.5 \\ 1.1 \\ 1.6 \end{gathered}$ | $\begin{aligned} & 10 \\ & 14 \\ & 15 \\ & 14 \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 2 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{gathered} \hline 5750 \\ 413 \\ 167 \\ 1015 \\ 4380 \end{gathered}$ |
| $J 294208$ $J 294209$ $J 294210$ $J 294211$ $J 294212$ |  | $\begin{aligned} & 0.40 \\ & 0.98 \\ & 2.56 \\ & 0.08 \\ & 4.62 \end{aligned}$ | 0.108 0.343 0.536 1.535 0.318 |  | $\begin{aligned} & 1.5 \\ & 1.0 \\ & 1.3 \\ & 4.4 \\ & 1.8 \end{aligned}$ | $\begin{aligned} & 1.49 \\ & 0.58 \\ & 0.46 \\ & 1.31 \\ & 0.71 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & 41 \\ & <2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 30 \\ & 50 \\ & 90 \\ & 80 \\ & 130 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{gathered} <2 \\ <2 \\ 2 \\ <2 \\ 2 \\ 2 \end{gathered}$ | $\begin{aligned} & 4.34 \\ & 3.80 \\ & 3.97 \\ & 1.41 \\ & 4.02 \end{aligned}$ | $\begin{gathered} <0.5 \\ 1.0 \\ 0.7 \\ 2.3 \\ 0.6 \end{gathered}$ | $\begin{aligned} & 15 \\ & 14 \\ & 13 \\ & 18 \\ & 12 \end{aligned}$ | $\begin{gathered} 2 \\ 1 \\ 1 \\ 63 \\ 2 \end{gathered}$ | $\begin{gathered} 926 \\ 193 \\ 243 \\ >10000 \\ 429 \end{gathered}$ |
| $\begin{aligned} & J 294213 \\ & J 294214 \\ & J 294215 \\ & J 294216 \\ & J 294217 \end{aligned}$ |  | $\begin{aligned} & 3.48 \\ & 0.96 \\ & 1.70 \\ & 1.32 \\ & 0.98 \end{aligned}$ | 0.376 0.589 0.855 0.092 0.187 |  | $\begin{aligned} & 1.2 \\ & 0.6 \\ & 7.7 \\ & 1.1 \\ & 2.1 \end{aligned}$ | 0.46 1.47 0.88 1.18 1.38 | $\begin{aligned} & <2 \\ & <2 \\ & 2 \\ & 2 \\ & <2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 100 \\ 50 \\ 240 \\ 40 \\ 60 \end{gathered}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{gathered} <2 \\ 2 \\ 5 \\ 2 \\ <2 \end{gathered}$ | $\begin{aligned} & \hline 3.67 \\ & 3.69 \\ & 10.4 \\ & 4.01 \\ & 12.7 \end{aligned}$ | $\begin{aligned} & \hline 4.8 \\ & 0.8 \\ & 3.4 \\ & 0.7 \\ & 0.7 \end{aligned}$ | $\begin{aligned} & 12 \\ & 14 \\ & 13 \\ & 14 \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & \hline 143 \\ & 110 \\ & 765 \\ & 490 \\ & 2350 \end{aligned}$ |
| J 294218 J 294219 J 294220 J 294221 J 294222 |  | $\begin{aligned} & 1.14 \\ & 1.84 \\ & 5.04 \\ & 0.40 \\ & 0.08 \end{aligned}$ | $\begin{gathered} \hline<0.005 \\ 0.026 \\ 0.578 \\ >10.0 \\ 0.441 \end{gathered}$ | 17.60 | $\begin{gathered} c 0.2 \\ 0.9 \\ 2.3 \\ 18.2 \\ 1.2 \end{gathered}$ | $\begin{aligned} & \hline 1.61 \\ & 0.71 \\ & 1.16 \\ & 1.18 \\ & 2.00 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & 19 \\ & 10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 40 \\ 30 \\ 100 \\ 50 \\ 110 \end{gathered}$ | $\begin{gathered} <0.5 \\ <0.5 \\ 0.5 \\ 0.5 \\ <0.5 \end{gathered}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & 49 \\ & <2 \end{aligned}$ | 3.05 4.68 4.75 3.44 0.80 | $\begin{gathered} c 0.5 \\ <0.5 \\ 1.7 \\ 83.9 \\ 0.8 \end{gathered}$ | $\begin{gathered} \hline 17 \\ 8 \\ 16 \\ 23 \\ 12 \end{gathered}$ | $\begin{aligned} & \hline 2 \\ & 2 \\ & 1 \\ & 1 \\ & 34 \end{aligned}$ | $\begin{gathered} \hline 162 \\ 1360 \\ 1280 \\ 331 \\ 5520 \end{gathered}$ |
| J 294223 J 294224 J 294225 J 294226 J 294227 |  | $\begin{aligned} & 4.50 \\ & 0.68 \\ & 1.46 \\ & 1.48 \\ & 0.98 \end{aligned}$ | $\begin{aligned} & 0.033 \\ & 0.207 \\ & 0.430 \\ & 0.222 \\ & 0.069 \end{aligned}$ |  | $\begin{gathered} \hline 0.4 \\ 0.2 \\ 0.9 \\ 0.2 \\ <0.2 \end{gathered}$ | $\begin{aligned} & 1.49 \\ & 0.58 \\ & 1.18 \\ & 1.53 \\ & 0.62 \end{aligned}$ | $\begin{gathered} <2 \\ 5 \\ 4 \\ <2 \\ <2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 250 \\ 80 \\ 60 \\ 90 \\ 140 \end{gathered}$ | $\begin{gathered} \hline 0.5 \\ <0.5 \\ 0.6 \\ 0.6 \\ <0.5 \end{gathered}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3.34 \\ & 4.60 \\ & 5.86 \\ & 5.41 \\ & 4.08 \end{aligned}$ | $\begin{gathered} <0.5 \\ 0.9 \\ 1.1 \\ 0.7 \\ <0.5 \end{gathered}$ | $\begin{aligned} & 14 \\ & 16 \\ & 16 \\ & 18 \\ & 15 \end{aligned}$ | $\begin{gathered} \hline 56 \\ 1 \\ 1 \\ 1 \\ 2 \end{gathered}$ | $\begin{gathered} \hline 501 \\ 69 \\ 124 \\ 37 \\ 89 \end{gathered}$ |
| $\begin{aligned} & 1294228 \\ & J 294229 \\ & J 294230 \\ & 1294231 \\ & J 294232 \end{aligned}$ |  | $\begin{aligned} & 0.56 \\ & 0.30 \\ & 0.76 \\ & 0.60 \\ & 0.18 \end{aligned}$ | $\begin{aligned} & 0.234 \\ & 0.728 \\ & 3.74 \\ & 0.047 \\ & 0.011 \end{aligned}$ |  | $\begin{aligned} & \hline 0.4 \\ & 0.2 \\ & 1.7 \\ & 3.1 \\ & <0.2 \end{aligned}$ | $\begin{aligned} & 0.82 \\ & 1.56 \\ & 1.41 \\ & 1.69 \\ & 1.93 \end{aligned}$ | $\begin{gathered} \hline 3 \\ <2 \\ 4 \\ 3 \\ 3 \\ <2 \end{gathered}$ | $\begin{aligned} & \quad<10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 80 \\ 100 \\ 90 \\ 40 \\ 50 \end{gathered}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & 0.6 \\ & <0.5 \end{aligned}$ | $\begin{gathered} <2 \\ <2 \\ 2 \\ <2 \\ <2 \end{gathered}$ | $\begin{aligned} & 4.55 \\ & 4.72 \\ & 5.40 \\ & 3.88 \\ & 4.51 \end{aligned}$ | $\begin{aligned} & \hline 0.7 \\ & 0.7 \\ & 1.3 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & 16 \\ & 17 \\ & 19 \\ & 17 \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 3 \\ & 3 \end{aligned}$ | $\begin{aligned} & 148 \\ & 372 \\ & 252 \\ & 953 \\ & 28 \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294233 \\ & \mathrm{~J} 294234 \\ & \mathrm{~J} 294235 \\ & \mathrm{~J} 294236 \\ & \mathrm{~J} 294237 \end{aligned}$ |  | $\begin{aligned} & 0.18 \\ & 1.40 \\ & 0.60 \\ & 0.78 \\ & 0.94 \end{aligned}$ | $\begin{aligned} & 0.018 \\ & 0.229 \\ & 0.023 \\ & 0.015 \\ & 0.616 \end{aligned}$ |  | $\begin{aligned} & \hline 0.2 \\ & 5.4 \\ & 0.3 \\ & 0.2 \\ & 0.2 \end{aligned}$ | $\begin{aligned} & 1.72 \\ & 1.23 \\ & 0.71 \\ & 0.86 \\ & 1.67 \end{aligned}$ | $\begin{gathered} 3 \\ <2 \\ 2 \\ <2 \\ 5 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 50 \\ & 50 \\ & 40 \\ & 50 \\ & 70 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3.17 \\ & 2.68 \\ & 3.12 \\ & 1.79 \\ & 4.53 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & 0.5 \end{aligned}$ | $\begin{gathered} \hline 17 \\ 12 \\ 6 \\ 7 \\ 7 \\ 15 \end{gathered}$ | $\begin{aligned} & 2 \\ & 2 \\ & 1 \\ & 1 \\ & 1 \\ & 2 \end{aligned}$ | $\begin{gathered} 149 \\ 2450 \\ 658 \\ 233 \\ 66 \end{gathered}$ |

Comments: Additional Au- AA23 check results for sample J294262 are 0.145 ppm and 0.321 ppm .

CERTIFICATE OF ANALYSIS VA11001920

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME- ICP41 } \\ \mathrm{Fe} \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- } 1 \mathrm{CP} 41 \\ \mathrm{Ca} \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ \mathrm{Hg} \\ \mathrm{ppm} \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ K \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { La } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Mg } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- } C \text { CP4 } \\ \text { Mn } \\ \mathrm{ppm} \\ 5 \end{gathered}$ | $\begin{gathered} \text { ME. ICP4 } \\ \text { Mo } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME - ICP41 } \\ \mathrm{Na} \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME. } \mathbf{I C P 4 1} \\ \mathrm{Ni} \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- ICP4 } 1 \\ \text { P } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Pb } \\ \mathrm{ppm} \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { S } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ \text { Sb } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- KCP41 } \\ \mathrm{Sc} \\ \mathrm{ppm} \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \mathrm{J} 294198 \\ & \mathrm{~J} 294199 \\ & \mathrm{~J} 294200 \\ & \mathrm{~J} 294201 \\ & \mathrm{~J} 294202 \end{aligned}$ |  | $\begin{aligned} & 2.71 \\ & 4.97 \\ & 3.18 \\ & 1.89 \\ & 3.79 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.35 \\ & 0.22 \\ & 0.37 \\ & 0.08 \\ & 0.32 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.75 \\ & 1.20 \\ & 1.05 \\ & 0.09 \\ & 0.96 \end{aligned}$ | $\begin{gathered} 1605 \\ 719 \\ 1475 \\ 254 \\ 1450 \end{gathered}$ | $\begin{aligned} & 11 \\ & 37 \\ & <1 \\ & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 0.03 \\ & 0.07 \\ & 0.03 \\ & 0.01 \\ & 0.03 \end{aligned}$ | $\begin{gathered} <1 \\ 18 \\ 1 \\ <1 \\ 4 \end{gathered}$ | $\begin{gathered} 1740 \\ 1130 \\ 1830 \\ 210 \\ 1910 \end{gathered}$ | $\begin{gathered} 16 \\ 28 \\ 4 \\ 64 \\ 8 \end{gathered}$ | $\begin{aligned} & 0.87 \\ & 2.14 \\ & 0.38 \\ & 1.67 \\ & 0.45 \end{aligned}$ | $\begin{gathered} <2 \\ 9 \\ <2 \\ <2 \\ <2 \end{gathered}$ | $\begin{gathered} 1 \\ 8 \\ 2 \\ 2 \\ <1 \\ 2 \end{gathered}$ |
| J294203 J294204 J294205 J294206 J294207 |  | $\begin{aligned} & 2.76 \\ & 2.96 \\ & 3.84 \\ & 3.08 \\ & 3.93 \end{aligned}$ | $\begin{gathered} <10 \\ <10 \\ 10 \\ <10 \\ <10 \end{gathered}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.99 \\ & 0.68 \\ & 0.32 \\ & 0.53 \\ & 0.50 \end{aligned}$ | $\begin{aligned} & \mathrm{k} 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & \hline 0.85 \\ & 0.95 \\ & 1.23 \\ & 0.89 \\ & 1.04 \end{aligned}$ | $\begin{aligned} & \hline 3800 \\ & 1335 \\ & 1335 \\ & 1435 \\ & 1675 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 4 \\ <1 \\ 1 \\ 1 \\ 1 \\ 3 \end{gathered}$ | $\begin{aligned} & 0.03 \\ & 0.05 \\ & 0.04 \\ & 0.03 \\ & 0.04 \end{aligned}$ | $\begin{aligned} & 1 \\ & 3 \\ & 3 \\ & 2 \\ & 1 \end{aligned}$ | $\begin{aligned} & 1180 \\ & 1650 \\ & 1880 \\ & 1750 \\ & 1630 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 4 \\ & 3 \\ & 2 \\ & 4 \\ & 7 \end{aligned}$ | $\begin{aligned} & \hline 0.28 \\ & 0.16 \\ & 0.15 \\ & 0.65 \\ & 0.69 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 4 \\ & 3 \\ & 4 \\ & 4 \\ & 2 \\ & 3 \end{aligned}$ |
| $J 294208$ $J 294209$ $J 294210$ $J 294211$ $J 294212$ |  | $\begin{aligned} & 3.67 \\ & 3.12 \\ & 2.90 \\ & 4.41 \\ & 2.99 \end{aligned}$ | $\begin{gathered} \hline 10 \\ <10 \\ <10 \\ <10 \\ <10 \end{gathered}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & 1 \end{aligned}$ | $\begin{aligned} & \hline 0.61 \\ & 0.39 \\ & 0.33 \\ & 0.46 \\ & 0.32 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 20 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.13 \\ & 0.97 \\ & 0.90 \\ & 0.77 \\ & 0.87 \end{aligned}$ | $\begin{gathered} 1675 \\ 1545 \\ 1470 \\ 333 \\ 1305 \end{gathered}$ | $\begin{gathered} \hline<1 \\ 1 \\ 1 \\ 237 \\ 2 \end{gathered}$ | $\begin{aligned} & \hline 0.04 \\ & 0.03 \\ & 0.03 \\ & 0.04 \\ & 0.03 \end{aligned}$ | $\begin{gathered} 1 \\ 1 \\ 1 \\ 32 \\ 1 \end{gathered}$ | $\begin{gathered} 1680 \\ 1760 \\ 1700 \\ 670 \\ 1770 \\ \hline \end{gathered}$ | $\begin{gathered} 3 \\ 4 \\ 5 \\ 65 \\ 6 \end{gathered}$ | $\begin{aligned} & \hline 0.11 \\ & 0.69 \\ & 0.57 \\ & 2.64 \\ & 0.52 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & 14 \\ & <2 \end{aligned}$ | $\begin{aligned} & \hline 4 \\ & 2 \\ & 2 \\ & 6 \\ & 2 \end{aligned}$ |
| 1294213 $J 294214$ $J 294215$ $J 294216$ $J 294217$ |  | $\begin{aligned} & 2.80 \\ & 3.34 \\ & 3.21 \\ & 3.23 \\ & 3.86 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.33 \\ & 1.02 \\ & 0.21 \\ & 0.56 \\ & 0.95 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.91 \\ & 1.05 \\ & 0.80 \\ & 1.00 \\ & 1.08 \end{aligned}$ | $\begin{aligned} & 1345 \\ & 1545 \\ & 2630 \\ & 1540 \\ & 3170 \end{aligned}$ | $\begin{gathered} 1 \\ <1 \\ <1 \\ 14 \\ <1 \\ 15 \end{gathered}$ | $\begin{aligned} & \hline 0.03 \\ & 0.04 \\ & 0.03 \\ & 0.04 \\ & 0.04 \end{aligned}$ | $\begin{aligned} & 1 \\ & 3 \\ & 1 \\ & 2 \\ & 6 \end{aligned}$ | $\begin{aligned} & 1790 \\ & 1790 \\ & 1360 \\ & 1800 \\ & 1140 \end{aligned}$ | $\begin{gathered} \hline 4 \\ 5 \\ 23 \\ 4 \\ 4 \end{gathered}$ | $\begin{aligned} & \hline 0.48 \\ & 0.58 \\ & 1.38 \\ & 0.45 \\ & 0.27 \\ & \hline \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 2 \\ & 3 \\ & 2 \\ & 2 \\ & 3 \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294218 \\ & \mathrm{~J} 294219 \\ & \mathrm{~J} 294220 \\ & \mathrm{~J} 294221 \\ & \mathrm{~J} 294222 \end{aligned}$ |  | $\begin{aligned} & 3.88 \\ & 2.58 \\ & 3.98 \\ & 5.55 \\ & 4.02 \end{aligned}$ | $\begin{aligned} & \hline 10 \\ & <10 \\ & <10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.20 \\ & 0.18 \\ & 0.33 \\ & 0.34 \\ & 0.14 \end{aligned}$ | $\begin{gathered} 10 \\ <10 \\ 10 \\ 10 \\ 10 \end{gathered}$ | $\begin{aligned} & 1.38 \\ & 0.55 \\ & 0.96 \\ & 0.96 \\ & 0.84 \end{aligned}$ | $\begin{aligned} & 1260 \\ & 1335 \\ & 1405 \\ & 1075 \\ & 660 \end{aligned}$ | $\begin{gathered} \hline<1 \\ 19 \\ 3 \\ <1 \\ 208 \\ \hline \end{gathered}$ | $\begin{aligned} & 0.05 \\ & 0.07 \\ & 0.05 \\ & 0.04 \\ & 0.10 \end{aligned}$ | $\begin{aligned} & 3 \\ & 2 \\ & 2 \\ & 1 \\ & 23 \end{aligned}$ | 1960 1210 1840 1660 620 | $\begin{gathered} \hline 3 \\ 2 \\ 12 \\ 67 \\ 13 \end{gathered}$ | $\begin{aligned} & 0.02 \\ & 0.16 \\ & 1.02 \\ & 4.62 \\ & 0.74 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & 3 \end{aligned}$ | $\begin{aligned} & 6 \\ & 2 \\ & 3 \\ & 1 \\ & 5 \\ & \hline \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294223 \\ & \mathrm{~J} 294224 \\ & \mathrm{~J} 294225 \\ & \mathrm{~J} 294226 \\ & \mathrm{~J} 294227 \end{aligned}$ |  | $\begin{aligned} & 3.44 \\ & 3.55 \\ & 4.44 \\ & 4.17 \\ & 3.73 \end{aligned}$ | $\begin{aligned} & \hline 10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} <1 \\ <1 \\ <1 \\ 1 \\ <1 \end{gathered}$ | $\begin{aligned} & 0.30 \\ & 0.30 \\ & 0.46 \\ & 0.37 \\ & 0.40 \end{aligned}$ | $\begin{aligned} & 40 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.57 \\ & 1.26 \\ & 1.20 \\ & 1.45 \\ & 1.21 \end{aligned}$ | $\begin{aligned} & 1035 \\ & 1795 \\ & 2530 \\ & 2180 \\ & 1640 \end{aligned}$ | $\begin{aligned} & \hline 5 \\ & 1 \\ & 3 \\ & 1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.05 \\ & 0.04 \\ & 0.04 \\ & 0.03 \\ & 0.04 \end{aligned}$ | $\begin{aligned} & \hline 35 \\ & 2 \\ & 3 \\ & 3 \\ & 2 \end{aligned}$ | $\begin{aligned} & 2280 \\ & 1830 \\ & 1920 \\ & 2300 \\ & 1820 \end{aligned}$ | $\begin{gathered} \hline 4 \\ 5 \\ 10 \\ 8 \\ 4 \end{gathered}$ | $\begin{aligned} & \hline 0.16 \\ & 0.57 \\ & 2.16 \\ & 0.80 \\ & 0.56 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & \hline 3 \\ & 2 \\ & 3 \\ & 3 \\ & 2 \\ & \hline \end{aligned}$ |
| $\begin{aligned} & J 294228 \\ & J 294229 \\ & J 294230 \\ & J 294231 \\ & J 294232 \end{aligned}$ |  | $\begin{aligned} & 3.85 \\ & 3.77 \\ & 3.97 \\ & 4.57 \\ & 4.15 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{gathered} c 1 \\ 1 \\ <1 \\ <1 \\ 1 \end{gathered}$ | $\begin{aligned} & 0.49 \\ & 0.63 \\ & 0.70 \\ & 0.38 \\ & 1.08 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & <10 \\ & 10 \\ & 10 \\ & \hline \end{aligned}$ | $\begin{aligned} & 1.18 \\ & 1.30 \\ & 1.25 \\ & 1.42 \\ & 1.51 \\ & \hline \end{aligned}$ | $\begin{aligned} & 1695 \\ & 1755 \\ & 1920 \\ & 1240 \\ & 1545 \end{aligned}$ | $\begin{gathered} <1 \\ <1 \\ 1 \\ 1 \\ 1 \\ <1 \end{gathered}$ | 0.04 0.04 0.04 0.04 0.06 | $\begin{aligned} & 3 \\ & 2 \\ & 3 \\ & 4 \\ & 3 \\ & \hline \end{aligned}$ | $\begin{aligned} & 1790 \\ & 2010 \\ & 1710 \\ & 1900 \\ & 1610 \end{aligned}$ | $\begin{gathered} 5 \\ 3 \\ 3 \\ 10 \\ 5 \\ 3 \\ \hline \end{gathered}$ | $\begin{aligned} & \hline 0.97 \\ & 0.68 \\ & 1.70 \\ & 0.13 \\ & 0.03 \\ & \hline \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3 \\ & 2 \\ & 3 \\ & 5 \\ & 4 \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294233 \\ & \mathrm{~J} 294234 \\ & \mathrm{~J} 294235 \\ & \mathrm{~J} 294236 \\ & \mathrm{~J} 294237 \end{aligned}$ |  | $\begin{aligned} & 4.43 \\ & 4.63 \\ & 1.68 \\ & 1.84 \\ & 3.85 \end{aligned}$ | $\begin{aligned} & \hline 10 \\ & 10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} <1 \\ 1 \\ <1 \\ <1 \\ <1 \end{gathered}$ | $\begin{aligned} & \hline 0.90 \\ & 0.72 \\ & 0.23 \\ & 0.33 \\ & 0.76 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & <10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.29 \\ & 0.96 \\ & 0.46 \\ & 0.50 \\ & 1.28 \end{aligned}$ | $\begin{gathered} 1190 \\ 1010 \\ 905 \\ 563 \\ 1660 \end{gathered}$ | $\begin{aligned} & <1 \\ & <1 \\ & 1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.07 \\ & 0.05 \\ & 0.06 \\ & 0.06 \\ & 0.04 \end{aligned}$ | $\begin{aligned} & \hline 3 \\ & 2 \\ & 1 \\ & 1 \\ & 3 \end{aligned}$ | $\begin{gathered} \hline 1370 \\ 1110 \\ 700 \\ 900 \\ 1980 \end{gathered}$ | $\begin{aligned} & 3 \\ & 5 \\ & 3 \\ & 3 \\ & 5 \end{aligned}$ | $\begin{aligned} & 0.03 \\ & 0.15 \\ & 0.08 \\ & 0.02 \\ & 0.82 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3 \\ & 3 \\ & 1 \\ & 1 \\ & 1 \\ & 3 \end{aligned}$ |

Comments: Additional Au- AA23 check results for sample J294262 are 0.145 ppm and 0.321 ppm .

To:ANGLO SWISS RESOURCES INC. 309-837 W HASTINGS ST. VANCOUVER BC V6C 3N6
minerals
Project: Kenville Mine
CERTIFICATE OF ANALYSIS VA11001920

|  <br> Sample Description <br> Method <br> Analyte <br> Units <br> LOR | $\begin{gathered} \text { ME- ICP4I } \\ \text { Sr } \\ \mathrm{ppm} \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ \text { Th } \\ \text { ppm } \\ 20 \end{gathered}$ | $\begin{gathered} \text { ME- ICP4 } \\ T i \\ \% \\ 0.01 \end{gathered}$ | ME- ICP41 TI ppm 10 | $\begin{gathered} \text { ME-ICP41 } \\ U \\ \text { Ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ V \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ \text { W } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- } \operatorname{ICP41} \\ \mathrm{Zn} \\ \mathrm{ppm} \\ 2 \end{gathered}$ | $\begin{gathered} \mathrm{Cu}-\mathrm{OC}_{46} \\ \mathrm{Cu} \\ \% \\ 0.001 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $J 294198$ $J 294199$ $J 294200$ $J 294201$ $J 294202$ | $\begin{gathered} 590 \\ 138 \\ 1020 \\ 61 \\ 1310 \end{gathered}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | 0.01 <br> 0.01 <br> 0.03 <br> $<0.01$ <br> 0.01 | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 27 \\ 85 \\ 42 \\ 4 \\ 47 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 40 \\ 170 \\ 47 \\ 11 \\ 46 \end{gathered}$ |  |
| $\begin{aligned} & 1294203 \\ & \mathrm{~J} 294204 \\ & \mathrm{~J} 294205 \\ & \mathrm{~J} 294206 \\ & \mathrm{~J} 294207 \end{aligned}$ | $\begin{gathered} \hline 585 \\ 1410 \\ 2710 \\ 394 \\ 1180 \end{gathered}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.15 \\ & 0.09 \\ & 0.04 \\ & 0.04 \\ & 0.08 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} \hline 106 \\ 76 \\ 126 \\ 40 \\ 116 \\ \hline \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 40 \\ & 55 \\ & 70 \\ & 65 \\ & 69 \end{aligned}$ |  |
| $J 294208$ $J 294209$ $J 294210$ $J 294211$ $J 294212$ | $\begin{gathered} \hline 268 \\ 470 \\ 762 \\ 57 \\ 1540 \end{gathered}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.12 \\ & 0.02 \\ & 0.01 \\ & 0.04 \\ & 0.01 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{gathered} 136 \\ 36 \\ 32 \\ 54 \\ 39 \\ \hline \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & \hline 76 \\ & 62 \\ & 44 \\ & 119 \\ & 44 \end{aligned}$ | 1.010 |
| $\begin{aligned} & \mathrm{J} 294213 \\ & \mathrm{~J} 294214 \\ & \mathrm{~J} 294215 \\ & \mathrm{~J} 294216 \\ & \mathrm{~J} 294217 \end{aligned}$ | $\begin{gathered} 1010 \\ 357 \\ 6290 \\ 441 \\ 1430 \end{gathered}$ | $\begin{aligned} & <20 \\ & <20 \\ & 20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.01 \\ & 0.13 \\ & 0.01 \\ & 0.05 \\ & 0.12 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & 30 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{gathered} 25 \\ 86 \\ 32 \\ 55 \\ 113 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} \hline 144 \\ 134 \\ 80 \\ 67 \\ 67 \end{gathered}$ |  |
| $J 294218$ $J 294219$ $J 294220$ $J 294221$ $J 294222$ | $\begin{gathered} \hline 223 \\ 202 \\ 547 \\ 198 \\ 42 \end{gathered}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.10 \\ & 0.06 \\ & 0.02 \\ & 0.01 \\ & 0.14 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} \hline 148 \\ 86 \\ 75 \\ 53 \\ 59 \\ \hline \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 82 \\ 32 \\ 83 \\ 1895 \\ 81 \end{gathered}$ |  |
| $\begin{aligned} & \mathrm{J} 294223 \\ & \mathrm{~J} 294224 \\ & \mathrm{~J} 294225 \\ & \mathrm{~J} 294226 \\ & \mathrm{~J} 294227 \end{aligned}$ | $\begin{aligned} & 340 \\ & 516 \\ & 550 \\ & 320 \\ & 852 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.06 \\ & 0.01 \\ & 0.02 \\ & 0.02 \\ & 0.02 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 83 \\ & 30 \\ & 41 \\ & 45 \\ & 40 \\ & \hline \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & \hline 75 \\ & 50 \\ & 59 \\ & 54 \\ & 44 \end{aligned}$ |  |
| $J 294228$ $J 294229$ $J 294230$ $J 294231$ $J 294232$ | $\begin{aligned} & 561 \\ & 860 \\ & 709 \\ & 354 \\ & 350 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.03 \\ & 0.06 \\ & 0.06 \\ & 0.03 \\ & 0.13 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & 10 \\ & <10 \end{aligned}$ | $\begin{gathered} 42 \\ 51 \\ 49 \\ 127 \\ 149 \\ \hline \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 52 \\ & 78 \\ & 90 \\ & 89 \\ & 91 \end{aligned}$ |  |
| $\begin{aligned} & \mathrm{J} 294233 \\ & \mathrm{~J} 294234 \\ & \mathrm{~J} 294235 \\ & \mathrm{~J} 294236 \\ & \mathrm{~J} 294237 \end{aligned}$ | $\begin{aligned} & 298 \\ & 249 \\ & 272 \\ & 124 \\ & 633 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.13 \\ & 0.12 \\ & 0.04 \\ & 0.08 \\ & 0.08 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} <10 \\ 20 \\ <10 \\ <10 \\ <10 \end{gathered}$ | $\begin{aligned} & \hline 148 \\ & 144 \\ & 54 \\ & 54 \\ & 74 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & \hline 77 \\ & 55 \\ & 24 \\ & 24 \\ & 77 \end{aligned}$ |  |

Comments: Additional Au- AA23 check results for sample J294262 are 0.145 ppm and 0.321 ppm .

CERTIFICATE OF ANALYSIS VA11001920

| Sample Description | Method <br> Analyte Units LOR | WER-21 <br> Recvd Wt kg 0.02 | Au- AA 23 <br> Au <br> ppm 0.005 | $\begin{gathered} \mathrm{Au}-\mathrm{CRA} \mathrm{C}_{1} \\ \mathrm{Au} \\ \mathrm{ppm} \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME-ICP4 }] \\ \text { Ag } \\ \mathrm{ppm} \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Al } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { As } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ 8 \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- }\|C P 4\| \\ \text { Ba } \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP4 } \\ \text { Be } \\ \text { ppm } \\ 0.5 \end{gathered}$ | $\begin{gathered} \text { ME- ICP4] } \\ \text { Bi } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Ca } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- ICP4I } \\ \text { Cd } \\ \mathrm{ppm} \\ 0.5 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Co } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME: ICP41 } \\ \text { Cr } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Cu } \\ \text { ppm } \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \mathrm{J} 294238 \\ & \mathrm{~J} 294239 \\ & \mathrm{~J} 294240 \\ & \mathrm{~J} 294241 \\ & \mathrm{~J} 294242 \end{aligned}$ |  | $\begin{aligned} & 0.32 \\ & 0.32 \\ & 0.78 \\ & 0.40 \\ & 0.80 \end{aligned}$ | 0.583 8.53 0.144 0.036 2.70 |  | $\begin{aligned} & 1.2 \\ & 8.7 \\ & 0.2 \\ & 0.6 \\ & 3.1 \end{aligned}$ | $\begin{aligned} & 0.93 \\ & 0.19 \\ & 0.84 \\ & 1.86 \\ & 0.62 \end{aligned}$ | $\begin{gathered} 2 \\ <2 \\ 3 \\ 4 \\ 3 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 60 \\ 30 \\ 90 \\ 50 \\ 120 \end{gathered}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{gathered} <2 \\ 9 \\ <2 \\ <2 \\ 11 \end{gathered}$ | $\begin{aligned} & 4.00 \\ & 1.01 \\ & 4.51 \\ & 3.26 \\ & 4.32 \end{aligned}$ | $\begin{gathered} 0.9 \\ 1.2 \\ 0.8 \\ <0.5 \\ 24.4 \end{gathered}$ | $\begin{gathered} 19 \\ 6 \\ 16 \\ 19 \\ 13 \end{gathered}$ | $\begin{aligned} & 1 \\ & 8 \\ & 1 \\ & 3 \\ & 1 \end{aligned}$ | $\begin{gathered} 497 \\ 2150 \\ 138 \\ 426 \\ 978 \end{gathered}$ |
| J 294243 J 294244 J 294245 J 294246 J 294247 |  | $\begin{aligned} & \hline 0.56 \\ & 1.58 \\ & 0.60 \\ & 1.40 \\ & 0.78 \end{aligned}$ | 0.094 0.013 1.595 0.426 0.263 |  | $\begin{gathered} 3.4 \\ <0.2 \\ 4.1 \\ 13.7 \\ 13.2 \end{gathered}$ | $\begin{aligned} & 1.84 \\ & 1.79 \\ & 0.93 \\ & 1.07 \\ & 2.07 \end{aligned}$ | $\begin{gathered} <2 \\ <2 \\ 4 \\ <2 \\ 3 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 60 \\ 120 \\ 80 \\ 30 \\ 80 \end{gathered}$ | $\begin{aligned} & \hline 0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & 11 \\ & <2 \\ & 14 \end{aligned}$ | $\begin{gathered} \hline 3.74 \\ 0.68 \\ 4.95 \\ 8.6 \\ 3.04 \end{gathered}$ | $\begin{gathered} \hline 0.5 \\ <0.5 \\ 1.5 \\ 1.3 \\ 0.8 \end{gathered}$ | $\begin{gathered} 19 \\ 5 \\ 18 \\ 10 \\ 22 \end{gathered}$ | $\begin{aligned} & \hline 8 \\ & 8 \\ & 2 \\ & 1 \\ & 2 \end{aligned}$ | $\begin{gathered} \hline 2680 \\ 22 \\ 416 \\ 9910 \\ 8170 \end{gathered}$ |
| $\begin{aligned} & J 294248 \\ & J 294249 \\ & J 294250 \\ & J 294251 \\ & J 294252 \end{aligned}$ |  | $\begin{aligned} & \hline 0.42 \\ & 0.16 \\ & 1.52 \\ & 2.32 \\ & 0.30 \end{aligned}$ | 1.685 0.065 0.055 0.506 0.683 |  | $\begin{gathered} 3.6 \\ 0.8 \\ 1.0 \\ <0.2 \\ 0.2 \end{gathered}$ | $\begin{aligned} & 1.82 \\ & 1.49 \\ & 1.54 \\ & 1.51 \\ & 1.08 \end{aligned}$ | $\begin{gathered} 2 \\ <2 \\ 3 \\ <2 \\ <2 \\ <2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 90 \\ 50 \\ 50 \\ 140 \\ 160 \end{gathered}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & 0.5 \\ & 0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 4.35 \\ & 3.41 \\ & 4.89 \\ & 4.11 \\ & 3.82 \end{aligned}$ | $\begin{aligned} & \hline 0.7 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & 21 \\ & 15 \\ & 17 \\ & 15 \\ & 17 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 2 \\ & 2 \\ & 2 \\ & 2 \end{aligned}$ | $\begin{gathered} \hline 718 \\ 589 \\ 1160 \\ 224 \\ 531 \end{gathered}$ |
| $\begin{aligned} & 1294253 \\ & \mathrm{~J} 294254 \\ & \mathrm{~J} 294255 \\ & \mathrm{~J} 294256 \\ & \mathrm{~J} 294257 \end{aligned}$ |  | $\begin{aligned} & \hline 0.98 \\ & 1.02 \\ & 0.08 \\ & 0.48 \\ & 4.14 \end{aligned}$ | $\begin{aligned} & 0.069 \\ & 0.005 \\ & 1.520 \\ & 0.685 \\ & 0.308 \end{aligned}$ |  | $\begin{aligned} & 3.3 \\ & 1.0 \\ & 4.4 \\ & 1.9 \\ & 1.3 \end{aligned}$ | $\begin{aligned} & 1.39 \\ & 1.56 \\ & 1.30 \\ & 1.28 \\ & 0.89 \end{aligned}$ | $\begin{gathered} \hline 2 \\ 3 \\ 43 \\ 2 \\ <2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 20 \\ & 40 \\ & 40 \\ & 90 \\ & 80 \end{aligned}$ | $\begin{gathered} <0.5 \\ <0.5 \\ <0.5 \\ 0.5 \\ <0.5 \end{gathered}$ | $\begin{gathered} <2 \\ <2 \\ 3 \\ <2 \\ <2 \end{gathered}$ | 5.03 4.30 1.42 4.41 4.10 | $\begin{aligned} & <0.5 \\ & <0.5 \\ & 2.2 \\ & 0.5 \\ & 0.6 \end{aligned}$ | $\begin{aligned} & 16 \\ & 15 \\ & 18 \\ & 14 \\ & 14 \end{aligned}$ | $\begin{gathered} \hline 2 \\ 2 \\ 61 \\ 1 \\ 1 \end{gathered}$ | $\begin{aligned} & \hline 1595 \\ & 126 \\ & 9810 \\ & 900 \\ & 248 \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294258 \\ & \mathrm{~J} 294259 \\ & \mathrm{j} 294260 \\ & \mathrm{~J} 294261 \\ & \mathrm{~J} 294262 \end{aligned}$ |  | $\begin{aligned} & 1.80 \\ & 2.38 \\ & 1.42 \\ & 0.90 \\ & 0.18 \end{aligned}$ | $\begin{aligned} & >10.0 \\ & 0.635 \\ & 0.246 \\ & 0.387 \\ & 0.526 \end{aligned}$ | 84.5 | $\begin{gathered} 22.3 \\ 2.2 \\ 1.6 \\ 0.9 \\ 0.6 \end{gathered}$ | $\begin{aligned} & \hline 0.55 \\ & 1.20 \\ & 1.22 \\ & 0.95 \\ & 1.42 \end{aligned}$ | $\begin{gathered} \hline 2 \\ <2 \\ 6 \\ <2 \\ 5 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 20 \\ 130 \\ 80 \\ 60 \\ 60 \end{gathered}$ | $\begin{gathered} <0.5 \\ <0.5 \\ 0.5 \\ <0.5 \\ <0.5 \end{gathered}$ | $\begin{gathered} 120 \\ <2 \\ 3 \\ <2 \\ <2 \end{gathered}$ | 2.31 4.20 5.03 4.23 4.41 | $\begin{aligned} & 3.1 \\ & <0.5 \\ & <0.5 \\ & 0.8 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & 23 \\ & 11 \\ & 15 \\ & 16 \\ & 14 \end{aligned}$ | $\begin{aligned} & 4 \\ & 2 \\ & 2 \\ & 2 \\ & 1 \end{aligned}$ | $\begin{gathered} 1070 \\ 427 \\ 283 \\ 152 \\ 41 \end{gathered}$ |
| $\begin{aligned} & 1294263 \\ & 1294264 \\ & 1294265 \\ & 1294266 \\ & 1294267 \end{aligned}$ |  | $\begin{aligned} & 1.36 \\ & 0.18 \\ & 0.08 \\ & 2.18 \\ & 0.68 \end{aligned}$ | $\begin{aligned} & 0.101 \\ & 0.099 \\ & 0.486 \\ & 0.167 \\ & 0.027 \end{aligned}$ |  | $\begin{aligned} & \hline 2.4 \\ & 1.8 \\ & 1.2 \\ & 9.8 \\ & 1.4 \end{aligned}$ | $\begin{aligned} & \hline 0.91 \\ & 1.36 \\ & 1.97 \\ & 0.77 \\ & 1.26 \end{aligned}$ | $\begin{gathered} c 2 \\ 6 \\ 9 \\ c 2 \\ 2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 210 \\ 50 \\ 100 \\ 20 \\ 30 \end{gathered}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{gathered} <2 \\ <2 \\ <2 \\ 8 \\ <2 \end{gathered}$ | $\begin{gathered} \hline 4.56 \\ 4.32 \\ 0.77 \\ 10.8 \\ 7.5 \end{gathered}$ | $\begin{gathered} \hline 0.6 \\ 0.6 \\ <0.5 \\ 0.8 \\ <0.5 \end{gathered}$ | $\begin{gathered} \hline 16 \\ 14 \\ 11 \\ 9 \\ 14 \end{gathered}$ | $\begin{gathered} \hline 2 \\ 1 \\ 33 \\ 1 \\ 2 \end{gathered}$ | $\begin{aligned} & 525 \\ & 335 \\ & 5530 \\ & 6940 \\ & 995 \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294268 \\ & \mathrm{~J} 294269 \\ & \mathrm{~J} 294270 \\ & \mathrm{~J} 294271 \\ & \mathrm{~J} 294272 \end{aligned}$ |  | $\begin{aligned} & 0.20 \\ & 0.16 \\ & 1.18 \\ & 0.26 \\ & 0.80 \end{aligned}$ | $\begin{aligned} & \hline 0.009 \\ & 5.64 \\ & 0.148 \\ & 0.010 \\ & 0.059 \end{aligned}$ |  | $\begin{aligned} & \hline 0.6 \\ & 7.4 \\ & 3.8 \\ & 0.5 \\ & 5.4 \end{aligned}$ | $\begin{aligned} & 1.76 \\ & 1.22 \\ & 1.21 \\ & 1.34 \\ & 1.72 \end{aligned}$ | $\begin{gathered} <2 \\ 4 \\ 2 \\ 2 \\ 5 \\ <2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 50 \\ 160 \\ 60 \\ 50 \\ 60 \end{gathered}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & 2 \end{aligned}$ | $\begin{gathered} \hline 4.97 \\ 3.33 \\ 7.6 \\ 4.54 \\ 2.08 \end{gathered}$ | $\begin{aligned} & <0.5 \\ & 2.0 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & 15 \\ & 23 \\ & 13 \\ & 15 \\ & 17 \end{aligned}$ | $\begin{aligned} & \hline 2 \\ & 1 \\ & 5 \\ & 1 \\ & 2 \end{aligned}$ | $\begin{gathered} \hline 74 \\ 1275 \\ 2340 \\ 95 \\ 3060 \end{gathered}$ |
| $\begin{aligned} & J 294273 \\ & J 294274 \\ & J 294275 \\ & J 294276 \\ & \mathrm{~J} 294277 \end{aligned}$ |  | $\begin{aligned} & 2.10 \\ & 0.56 \\ & 0.54 \\ & 0.22 \\ & 0.22 \end{aligned}$ | $\begin{gathered} \hline 0.131 \\ 0.091 \\ <0.005 \\ 0.067 \\ 0.051 \end{gathered}$ |  | $\begin{aligned} & 1.3 \\ & 0.5 \\ & 0.3 \\ & 6.6 \\ & 3.0 \end{aligned}$ | $\begin{aligned} & 1.83 \\ & 1.70 \\ & 1.61 \\ & 1.20 \\ & 1.41 \end{aligned}$ | $\begin{gathered} 5 \\ 3 \\ <2 \\ 4 \\ 5 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 60 \\ & 60 \\ & 40 \\ & 70 \\ & 80 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 2.90 \\ & 3.92 \\ & 3.98 \\ & 4.11 \\ & 3.39 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & 2.4 \\ & 0.9 \end{aligned}$ | $\begin{aligned} & 15 \\ & 15 \\ & 14 \\ & 12 \\ & 13 \end{aligned}$ | $\begin{aligned} & 2 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | 896 96 55 4430 1225 |

Comments: Additional Au- AAZ3 check results for sample J294262 are 0.145 ppm and 0.321 ppm .

TO: ANGLO SWISS RESOURCES INC.
309-837 W HASTINGS ST.
VANCOUVER BC V6C 3N6

CERTIFICATE OF ANALYSIS VA11001920

| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME-ICP4] } \\ \mathrm{Fe} \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- } 1 C P 41 \\ \text { Ca } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-ICP4 } \\ \mathrm{Hg} \\ \mathrm{ppm} \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME. ICP4 } \\ K \\ \% \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- } \text { [CP4 } \\ \text { La } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ \text { Mg } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME. ICP4 } \\ \text { Mn } \\ \text { ppm } \\ 5 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Mo } \\ \text { Ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \mathrm{Na} \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Ni } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ p \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- } 1 \mathrm{CP4} 41 \\ \mathrm{~Pb} \\ \mathrm{ppm} \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { S } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- ICP4] } \\ \text { Sb } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- ICP4I } \\ \text { Sc } \\ \mathrm{ppm} \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & J 294238 \\ & J 294239 \\ & \mathrm{~J} 294240 \\ & \mathrm{~J} 294241 \\ & \mathrm{~J} 294242 \end{aligned}$ |  | $\begin{aligned} & 3.49 \\ & 2.21 \\ & 3.37 \\ & 4.28 \\ & 3.20 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & 10 \\ & <10 \end{aligned}$ | $\begin{gathered} <1 \\ <1 \\ <1 \\ 1 \\ <1 \end{gathered}$ | $\begin{aligned} & 0.54 \\ & 0.13 \\ & 0.46 \\ & 0.64 \\ & 0.43 \end{aligned}$ | $\begin{aligned} & 10 \\ & <10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.17 \\ & 0.24 \\ & 1.14 \\ & 1.61 \\ & 1.01 \end{aligned}$ | $\begin{gathered} 1665 \\ 637 \\ 1900 \\ 1375 \\ 1730 \end{gathered}$ | $\begin{gathered} 3 \\ 14 \\ 1 \\ <1 \\ 3 \end{gathered}$ | $\begin{aligned} & 0.03 \\ & 0.02 \\ & 0.03 \\ & 0.05 \\ & 0.03 \end{aligned}$ | $\begin{gathered} 3 \\ <1 \\ 1 \\ 4 \\ 2 \\ 2 \end{gathered}$ | $\begin{gathered} 2310 \\ 330 \\ 1910 \\ 1890 \\ 1740 \end{gathered}$ | $\begin{gathered} 9 \\ 28 \\ 6 \\ 3 \\ 20 \end{gathered}$ | $\begin{aligned} & 1.33 \\ & 1.93 \\ & 0.78 \\ & 0.04 \\ & 1.01 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 2 \\ & 1 \\ & 2 \\ & 5 \\ & 2 \end{aligned}$ |
| $J 294243$ $J 294244$ $J 294245$ $J 294246$ $J 294247$ |  | $\begin{aligned} & 4.74 \\ & 2.84 \\ & 4.18 \\ & 5.53 \\ & 6.03 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & <10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 1.06 \\ & 1.13 \\ & 0.58 \\ & 0.19 \\ & 1.45 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.38 \\ & 0.73 \\ & 1.23 \\ & 0.83 \\ & 1.50 \end{aligned}$ | $\begin{gathered} 1380 \\ 598 \\ 1975 \\ 2170 \\ 1170 \end{gathered}$ | $\begin{gathered} \hline 2 \\ 1 \\ 1 \\ 46 \\ 27 \end{gathered}$ | $\begin{aligned} & \hline 0.04 \\ & 0.11 \\ & 0.03 \\ & 0.04 \\ & 0.06 \end{aligned}$ | $\begin{aligned} & 4 \\ & 1 \\ & 2 \\ & 2 \\ & 4 \end{aligned}$ | $\begin{gathered} 1910 \\ 750 \\ 1710 \\ 1250 \\ 2020 \end{gathered}$ | $\begin{gathered} 4 \\ 3 \\ 26 \\ 18 \\ 6 \end{gathered}$ | $\begin{aligned} & 0.38 \\ & 0.04 \\ & 1.72 \\ & 1.02 \\ & 0.79 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 4 \\ & 4 \\ & 2 \\ & 5 \\ & 4 \end{aligned}$ |
| $J 294248$ $J 294249$ $J 294250$ $J 294251$ $J 294252$ |  | $\begin{aligned} & 4.14 \\ & 4.02 \\ & 4.45 \\ & 3.87 \\ & 2.64 \end{aligned}$ | $\begin{gathered} 10 \\ 10 \\ 10 \\ <10 \\ <10 \end{gathered}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 1.17 \\ & 0.68 \\ & 0.73 \\ & 1.00 \\ & 0.50 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.41 \\ & 1.09 \\ & 1.21 \\ & 1.21 \\ & 0.82 \end{aligned}$ | $\begin{aligned} & 1750 \\ & 1115 \\ & 1330 \\ & 1430 \\ & 1285 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 8 \\ & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 0.06 \\ & 0.07 \\ & 0.06 \\ & 0.05 \\ & 0.04 \end{aligned}$ | $\begin{aligned} & 4 \\ & 3 \\ & 3 \\ & 3 \\ & 2 \end{aligned}$ | $\begin{aligned} & 1940 \\ & 1270 \\ & 1770 \\ & 1780 \\ & 1520 \end{aligned}$ | $\begin{aligned} & \hline 5 \\ & 5 \\ & 6 \\ & 5 \\ & 5 \end{aligned}$ | 0.95 0.12 0.12 0.34 0.89 | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & \hline 6 \\ & 3 \\ & 4 \\ & 4 \\ & 2 \end{aligned}$ |
| $\begin{aligned} & J 294253 \\ & J 294254 \\ & J 294255 \\ & 1294256 \\ & J 294257 \end{aligned}$ |  | $\begin{aligned} & \hline 4.41 \\ & 3.84 \\ & 4.44 \\ & 3.73 \\ & 3.47 \end{aligned}$ | $\begin{aligned} & \hline 10 \\ & 10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.21 \\ & 0.57 \\ & 0.45 \\ & 0.37 \\ & 0.33 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 20 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.28 \\ & 1.42 \\ & 0.81 \\ & 1.30 \\ & 1.14 \end{aligned}$ | $\begin{gathered} 1315 \\ 1510 \\ 332 \\ 1680 \\ 1355 \end{gathered}$ | $\begin{gathered} \hline 4 \\ 1 \\ 236 \\ 1 \\ 2 \end{gathered}$ | $\begin{aligned} & \hline 0.04 \\ & 0.04 \\ & 0.04 \\ & 0.03 \\ & 0.03 \end{aligned}$ | $\begin{gathered} 6 \\ 4 \\ 30 \\ 2 \\ 2 \end{gathered}$ | $\begin{aligned} & \hline 1620 \\ & 1730 \\ & 660 \\ & 1810 \\ & 1730 \end{aligned}$ | $\begin{gathered} 6 \\ 4 \\ 45 \\ 65 \\ <2 \end{gathered}$ | $\begin{aligned} & 1.00 \\ & 0.09 \\ & 2.59 \\ & 0.32 \\ & 0.42 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & 14 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & \hline 5 \\ & 5 \\ & 6 \\ & 2 \\ & 3 \end{aligned}$ |
| $\begin{aligned} & J 294258 \\ & J 294259 \\ & J 294260 \\ & J 294261 \\ & J 294262 \end{aligned}$ |  | $\begin{aligned} & 5.17 \\ & 3.36 \\ & 3.54 \\ & 3.59 \\ & 3.55 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & \hline 0.14 \\ & 0.49 \\ & 0.40 \\ & 0.73 \\ & 0.68 \end{aligned}$ | $\begin{aligned} & <10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & \hline 0.50 \\ & 1.04 \\ & 1.09 \\ & 1.22 \\ & 1.20 \end{aligned}$ | $\begin{gathered} \hline 741 \\ 1210 \\ 1580 \\ 1655 \\ 1660 \end{gathered}$ | $\begin{aligned} & 12 \\ & 3 \\ & 2 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & \hline 0.02 \\ & 0.04 \\ & 0.04 \\ & 0.03 \\ & 0.03 \end{aligned}$ | $\begin{aligned} & 2 \\ & 3 \\ & 3 \\ & 3 \\ & 3 \end{aligned}$ | 640 2050 1750 1780 1790 | $\begin{aligned} & \hline 39 \\ & 3 \\ & 4 \\ & 2 \\ & 2 \end{aligned}$ | $\begin{aligned} & \hline 4.94 \\ & 0.54 \\ & 0.78 \\ & 0.66 \\ & 0.62 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 1 \\ & 4 \\ & 4 \\ & 3 \\ & 2 \end{aligned}$ |
| J294263 J294264 $J 294265$ $J 294266$ $J 294267$ |  | $\begin{aligned} & 3.35 \\ & 3.12 \\ & 3.83 \\ & 3.13 \\ & 3.53 \end{aligned}$ | $\begin{gathered} <10 \\ <10 \\ 10 \\ <10 \\ 10 \end{gathered}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & \hline 0.63 \\ & 0.58 \\ & 0.13 \\ & 0.44 \\ & 0.63 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.13 \\ & 1.01 \\ & 0.85 \\ & 0.65 \\ & 1.06 \end{aligned}$ | $\begin{aligned} & \hline 1460 \\ & 1560 \\ & 634 \\ & 701 \\ & 765 \end{aligned}$ | $\begin{gathered} 1 \\ 1 \\ 201 \\ 6 \\ 2 \end{gathered}$ | $\begin{aligned} & 0.04 \\ & 0.03 \\ & 0.09 \\ & 0.01 \\ & 0.02 \end{aligned}$ | $\begin{gathered} 2 \\ 2 \\ 23 \\ 2 \\ 2 \\ 3 \end{gathered}$ | $\begin{aligned} & \hline 1600 \\ & 1550 \\ & 600 \\ & 850 \\ & 1450 \end{aligned}$ | $\begin{gathered} \hline 4 \\ 5 \\ 12 \\ 7 \\ <2 \end{gathered}$ | $\begin{aligned} & 0.60 \\ & 0.75 \\ & 0.70 \\ & 9.5 \\ & 5.9 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3 \\ & 2 \\ & 5 \\ & 5 \\ & 1 \\ & 2 \end{aligned}$ |
| $J 294268$ <br> $J 294269$ <br> $J 294270$ <br> $J 294271$ <br> $J 294272$ |  | $\begin{aligned} & 3.70 \\ & 4.03 \\ & 3.25 \\ & 3.45 \\ & 3.81 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & 10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & \hline 0.92 \\ & 0.55 \\ & 0.67 \\ & 0.79 \\ & 1.32 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 20 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.36 \\ & 0.92 \\ & 1.06 \\ & 1.08 \\ & 1.23 \end{aligned}$ | $\begin{aligned} & 1570 \\ & 1125 \\ & 1995 \\ & 1710 \\ & 1105 \end{aligned}$ | $\begin{gathered} 1 \\ 1 \\ 52 \\ 1 \\ 2 \end{gathered}$ | $\begin{aligned} & 0.03 \\ & 0.04 \\ & 0.04 \\ & 0.04 \\ & 0.05 \end{aligned}$ | $\begin{aligned} & \hline 2 \\ & 2 \\ & 4 \\ & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 1820 \\ & 1680 \\ & 1490 \\ & 1770 \\ & 1800 \end{aligned}$ | $\begin{gathered} \hline 2 \\ 24 \\ 3 \\ <2 \\ <2 \end{gathered}$ | $\begin{aligned} & 0.62 \\ & 2.36 \\ & 0.66 \\ & 0.38 \\ & 0.59 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 4 \\ & 3 \\ & 4 \\ & 3 \\ & 1 \end{aligned}$ |
| $\begin{aligned} & 1294273 \\ & J 294274 \\ & j 294275 \\ & j 294276 \\ & j 294277 \end{aligned}$ |  | $\begin{aligned} & 3.93 \\ & 3.61 \\ & 3.57 \\ & 3.20 \\ & 3.26 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 1.46 \\ & 1.36 \\ & 0.79 \\ & 0.71 \\ & 0.91 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.32 \\ & 1.20 \\ & 1.27 \\ & 0.88 \\ & 1.03 \end{aligned}$ | $\begin{aligned} & 1425 \\ & 1545 \\ & 1555 \\ & 1430 \\ & 1305 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 0.06 \\ & 0.05 \\ & 0.05 \\ & 0.04 \\ & 0.05 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 3 \\ & 3 \\ & 2 \\ & 1 \end{aligned}$ | $\begin{aligned} & 1810 \\ & 1820 \\ & 1850 \\ & 1470 \\ & 1750 \end{aligned}$ | $\begin{gathered} \hline<2 \\ 2 \\ 2 \\ 3 \\ 3 \end{gathered}$ | $\begin{aligned} & 0.16 \\ & 0.22 \\ & 0.05 \\ & 1.16 \\ & 0.39 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 2 \\ & 3 \\ & 4 \\ & 3 \\ & 3 \end{aligned}$ |

Comments: Additional Au- AA23 check results for sample J 294262 are 0.145 ppm and 0.321 ppm

Project: Kenville Mine

CERTIFICATE OF ANALYSIS VA11001920


Comments: Additional Au-AA23 check results for sample J294262 are 0.145 ppm and 0.321 ppm .

Project: Kenville Mine
minerals
CERTIFICATE OF ANALYSIS VA11001920

| Sample Description | Method Analyte Units LOR | WEF-21 <br> Recvd WI kg 0.02 | Au- AA23 <br> Au ppm 0.005 | Aur-CRA21 <br> Au <br> ppm <br> 0.05 | ME-ICP41 Ag ppm 0.2 | $\begin{gathered} \text { ME- ICP41 } \\ \text { A1 } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME. ICP4 } \\ \text { As } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ \mathrm{B} \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- } 1 C P_{41} \\ \text { Ba } \\ \text { ppm } \\ 10 \end{gathered}$ | ME - [CP4 Be ppm 0.5 | $\begin{gathered} \text { ME- ICP41 } \\ \text { Bi } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Ca } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ \text { Cd } \\ \text { ppm } \\ 0.5 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Co } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Cr } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \mathrm{Cu} \\ \mathrm{ppm} \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \mathrm{J} 294278 \\ & \mathrm{~J} 294279 \\ & \mathrm{~J} 294280 \\ & \mathrm{~J} 294281 \\ & \mathrm{~J} 294282 \end{aligned}$ |  | $\begin{aligned} & 2.34 \\ & 1.36 \\ & 1.02 \\ & 0.44 \\ & 0.86 \end{aligned}$ | 0.013 <br> 0.498 <br> 0.419 <br> 1.125 <br> 0.184 |  | $\begin{gathered} \hline 1.1 \\ 6.4 \\ 16.8 \\ 1.7 \\ 14.9 \end{gathered}$ | $\begin{aligned} & 1.50 \\ & 1.15 \\ & 1.23 \\ & 1.22 \\ & 1.49 \end{aligned}$ | $\begin{gathered} 2 \\ <2 \\ <2 \\ 3 \\ <2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 60 \\ 120 \\ 110 \\ 80 \\ 50 \end{gathered}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & 11 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3.20 \\ & 3.86 \\ & 3.91 \\ & 3.78 \\ & 3.36 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & 1.2 \\ & 2.2 \\ & <0.5 \\ & 2.4 \end{aligned}$ | $\begin{aligned} & 16 \\ & 17 \\ & 23 \\ & 19 \\ & 21 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{gathered} 585 \\ 2480 \\ 7720 \\ 278 \\ 7660 \end{gathered}$ |
| $J 294283$ $J 294284$ $J 294285$ $J 294286$ $J 294287$ |  | $\begin{aligned} & 2.10 \\ & 0.82 \\ & 0.72 \\ & 1.40 \\ & 0.58 \end{aligned}$ | $\begin{aligned} & \hline 0.104 \\ & 0.105 \\ & 0.115 \\ & 0.040 \\ & 0.315 \end{aligned}$ |  | $\begin{aligned} & 18.2 \\ & 1.3 \\ & 4.4 \\ & 23 \\ & 4.6 \end{aligned}$ | $\begin{aligned} & 1.65 \\ & 0.67 \\ & 1.65 \\ & 1.66 \\ & 1.42 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & 2 \\ & 3 \\ & 3 \\ & 3 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 30 \\ & 90 \\ & 50 \\ & 50 \\ & 60 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & \hline 6 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3.61 \\ & 4.57 \\ & 2.44 \\ & 2.74 \\ & 3.44 \end{aligned}$ | $\begin{gathered} 0.6 \\ 1.0 \\ <0.5 \\ <0.5 \\ 0.7 \end{gathered}$ | $\begin{aligned} & 22 \\ & 14 \\ & 25 \\ & 19 \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 2 \\ & 2 \\ & 1 \end{aligned}$ | $>10000$ 184 2740 1895 3330 |
| 1294288 $J 294289$ $J 294290$ $J 294291$ $J 294292$ |  | $\begin{aligned} & \hline 2.08 \\ & 1.34 \\ & 1.34 \\ & 0.72 \\ & 0.46 \end{aligned}$ | $\begin{gathered} <0.005 \\ 1.310 \\ 0.057 \\ 0.693 \\ 2.93 \end{gathered}$ |  | $\begin{aligned} & \hline<0.2 \\ & 1.2 \\ & 1.4 \\ & 3.0 \\ & 2.1 \end{aligned}$ | $\begin{aligned} & 1.71 \\ & 1.62 \\ & 1.07 \\ & 0.82 \\ & 0.49 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & \hline 100 \\ & 60 \\ & 60 \\ & 40 \\ & 40 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{gathered} c 2 \\ 2 \\ <2 \\ 3 \\ 3 \\ 6 \end{gathered}$ | $\begin{aligned} & \hline 0.54 \\ & 3.37 \\ & 3.54 \\ & 3.90 \\ & 2.46 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & 1.0 \\ & 1.3 \end{aligned}$ | $\begin{aligned} & \hline 5 \\ & 17 \\ & 16 \\ & 15 \\ & 11 \end{aligned}$ | $\begin{aligned} & \hline 7 \\ & 3 \\ & 2 \\ & 1 \\ & 4 \end{aligned}$ | $\begin{gathered} 17 \\ 170 \\ 433 \\ 1050 \\ 135 \end{gathered}$ |
| $\begin{aligned} & 1294293 \\ & \mathrm{~J} 294294 \\ & \mathrm{~J} 294295 \\ & \mathrm{~J} 294296 \\ & \mathrm{~J} 294297 \end{aligned}$ |  | $\begin{aligned} & 1.88 \\ & 0.28 \\ & 0.32 \\ & 2.52 \\ & 0.56 \end{aligned}$ | $\begin{aligned} & 0.212 \\ & 0.073 \\ & 0.447 \\ & 0.992 \\ & 0.071 \end{aligned}$ |  | $\begin{aligned} & 3.1 \\ & 1.6 \\ & 1.7 \\ & 3.6 \\ & 1.0 \end{aligned}$ | $\begin{aligned} & 0.63 \\ & 1.37 \\ & 1.24 \\ & 0.98 \\ & 1.41 \end{aligned}$ | $\begin{aligned} & <2 \\ & 2 \\ & <2 \\ & <2 \\ & 3 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 80 \\ 100 \\ 170 \\ 300 \\ 40 \end{gathered}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 3 \\ & 3 \\ & 2 \end{aligned}$ | $\begin{aligned} & 3.89 \\ & 3.70 \\ & 4.09 \\ & 4.41 \\ & 3.97 \end{aligned}$ | $\begin{aligned} & 1.6 \\ & <0.5 \\ & <0.5 \\ & 0.9 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & 14 \\ & 16 \\ & 16 \\ & 16 \\ & 17 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{gathered} 1210 \\ 209 \\ 137 \\ 744 \\ 393 \end{gathered}$ |
| $\begin{aligned} & J 294298 \\ & J 294299 \\ & J 294300 \\ & J 294301 \\ & J 294302 \end{aligned}$ |  | $\begin{aligned} & 0.56 \\ & 0.08 \\ & 0.66 \\ & 0.40 \\ & 0.38 \end{aligned}$ | $\begin{aligned} & \hline 0.032 \\ & 0.486 \\ & 0.140 \\ & 0.299 \\ & 0.177 \end{aligned}$ |  | $\begin{aligned} & \hline 0.6 \\ & 3.1 \\ & 0.9 \\ & 1.0 \\ & 0.4 \end{aligned}$ | $\begin{aligned} & 1.52 \\ & 1.41 \\ & 1.45 \\ & 1.32 \\ & 1.60 \end{aligned}$ | $\begin{gathered} \hline 2 \\ 71 \\ 2 \\ 2 \\ <2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 50 \\ & 70 \\ & 60 \\ & 50 \\ & 60 \end{aligned}$ | $\begin{gathered} <0.5 \\ 0.5 \\ <0.5 \\ <0.5 \\ <0.5 \end{gathered}$ | $\begin{gathered} \hline<2 \\ 3 \\ 2 \\ 2 \\ <2 \end{gathered}$ | $\begin{aligned} & 3.97 \\ & 4.24 \\ & 4.12 \\ & 4.19 \\ & 3.66 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & 1.9 \\ & 0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & 14 \\ & 18 \\ & 16 \\ & 15 \\ & 11 \end{aligned}$ | 2 25 1 33 2 | $\begin{gathered} \hline 183 \\ 4850 \\ 291 \\ 125 \\ 76 \end{gathered}$ |
| $J 294303$ $J 294304$ $J 294305$ $J 294306$ $J 294307$ |  | $\begin{aligned} & \hline 0.88 \\ & 0.80 \\ & 0.32 \\ & 0.36 \\ & 1.62 \end{aligned}$ | $\begin{aligned} & >10.0 \\ & 0.275 \\ & 0.165 \\ & 0.007 \\ & 0.049 \end{aligned}$ | 15.45 | $\begin{aligned} & 4.1 \\ & 0.6 \\ & 1.7 \\ & 0.6 \\ & 5.5 \end{aligned}$ | $\begin{aligned} & 1.23 \\ & 1.21 \\ & 1.68 \\ & 1.84 \\ & 0.99 \end{aligned}$ | $\begin{gathered} \hline 3 \\ <2 \\ 2 \\ <2 \\ 2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 50 \\ & 50 \\ & 70 \\ & 50 \\ & 20 \end{aligned}$ | $\begin{gathered} <0.5 \\ <0.5 \\ 0.5 \\ <0.5 \\ <0.5 \end{gathered}$ | $\begin{aligned} & \hline 8 \\ & 2 \\ & 2 \\ & 2 \\ & 2 \end{aligned}$ | $\begin{aligned} & 4.30 \\ & 3.76 \\ & 3.21 \\ & 2.80 \\ & 11.5 \end{aligned}$ | $\begin{aligned} & 1.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & 0.8 \end{aligned}$ | $\begin{aligned} & 15 \\ & 12 \\ & 17 \\ & 18 \\ & 14 \end{aligned}$ | $\begin{aligned} & \hline 1 \\ & 1 \\ & 1 \\ & 2 \\ & 1 \end{aligned}$ | $\begin{aligned} & 769 \\ & 123 \\ & 753 \\ & 431 \\ & 4920 \end{aligned}$ |
| $J 294308$ $J 294309$ $J 294310$ $J 294311$ $J 294312$ |  | $\begin{aligned} & 2.00 \\ & 1.80 \\ & 0.70 \\ & 0.08 \\ & 0.60 \end{aligned}$ | 0.095 0.035 0.191 1.430 0.263 |  | $\begin{aligned} & 1.6 \\ & 1.2 \\ & 0.7 \\ & 4.6 \\ & 20 \end{aligned}$ | $\begin{aligned} & 1.33 \\ & 1.42 \\ & 1.47 \\ & 1.40 \\ & 1.39 \end{aligned}$ | $\begin{gathered} <2 \\ <2 \\ 2 \\ 44 \\ <2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 30 \\ & 20 \\ & 50 \\ & 60 \\ & 80 \end{aligned}$ | $\begin{gathered} <0.5 \\ <0.5 \\ 0.5 \\ <0.5 \\ <0.5 \end{gathered}$ | $\begin{aligned} & 2 \\ & 2 \\ & 2 \\ & 4 \\ & 3 \end{aligned}$ | $\begin{aligned} & 2.88 \\ & 5.20 \\ & 3.71 \\ & 1.46 \\ & 3.86 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & 22 \\ & 0.6 \end{aligned}$ | $\begin{aligned} & 16 \\ & 16 \\ & 15 \\ & 19 \\ & 15 \end{aligned}$ | $\begin{gathered} \hline 2 \\ 2 \\ 1 \\ 64 \\ 1 \end{gathered}$ | $\begin{gathered} \hline 790 \\ 573 \\ 258 \\ >10000 \\ 597 \end{gathered}$ |
| $J 294313$ $J 294314$ $J 294315$ $J 294316$ $J 294317$ |  | $\begin{aligned} & \hline 0.16 \\ & 0.70 \\ & 0.86 \\ & 0.40 \\ & 0.68 \end{aligned}$ | $\begin{gathered} 4.03 \\ 0.118 \\ 0.087 \\ 3.56 \\ 0.114 \end{gathered}$ |  | $\begin{aligned} & 4.0 \\ & 4.6 \\ & 1.6 \\ & 4.2 \\ & 1.8 \end{aligned}$ | $\begin{aligned} & 0.39 \\ & 1.17 \\ & 1.22 \\ & 0.13 \\ & 1.09 \end{aligned}$ | $\begin{aligned} & <2 \\ & 2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 20 \\ 170 \\ 70 \\ 20 \\ 50 \end{gathered}$ | $\begin{gathered} <0.5 \\ <0.5 \\ 0.5 \\ <0.5 \\ 0.5 \end{gathered}$ | $\begin{gathered} \hline 8 \\ 2 \\ 2 \\ 7 \\ \hline<2 \end{gathered}$ | $\begin{aligned} & 1.79 \\ & 3.91 \\ & 3.65 \\ & 0.45 \\ & 3.75 \end{aligned}$ | $\begin{gathered} 1.1 \\ 1.2 \\ <0.5 \\ 0.9 \\ 0.7 \end{gathered}$ | $\begin{gathered} 14 \\ 13 \\ 13 \\ 3 \\ 12 \end{gathered}$ | $\begin{aligned} & 2 \\ & 1 \\ & 1 \\ & 4 \\ & 1 \end{aligned}$ | $\begin{gathered} \hline 185 \\ 1890 \\ 383 \\ 764 \\ 536 \end{gathered}$ |

Comments: Additional Au- AA23 check results for sample J 294262 are 0.145 ppm and 0.321 ppm .

ALS Canada Ltd.

CERTIFICATE OF ANALYSIS VA11001920


Comments: Additional Au- AA23 check results for sample J294262 are 0.145 ppm and 0.321 ppm .

ALS Canada Ltd.
2103 Dollarton Hw
North Vancouver BC V7H OA7
Phone: 6049840221 Fax: 6049840218 www.alsglobal.com

TO: ANGLO SWISS RESOURCES INC.
309-837 W HASTINGS ST VANCOUVER BC V6C 3N6

CERTIFICATE OF ANALYSIS VA11001920


Comments: Additional Au- AA23 check results for sample J294262 are 0.145 ppm and 0.321 ppm

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Total \# Pages: 8 ( A - C) Finalized Date: 16-JAN-2011 Account: ANSWRE

Project: Kenville Mine
CERTIFICATE OF ANALYSIS VA11001920


[^1]Project: Kenville Mine


[^2]| Sample Description | Method Analyte Units LOR | $\begin{gathered} \text { ME. ICP41 } \\ \text { Sr } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ \text { Th } \\ \text { ppm } \\ 20 \end{gathered}$ | $\begin{gathered} \text { ME- } 1 C P 41 \\ T i \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- } 1 C P 4\} \\ \mathrm{TI} \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP4] } \\ U \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- }-1 C P 41 \\ \checkmark \\ \mathrm{ppm} \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME-ICP4] } \\ \text { W } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP4 } \mid \\ \mathrm{Zn} \\ \mathrm{ppm} \\ 2 \end{gathered}$ | $\begin{gathered} \mathrm{Cu}-0 \subset 46 \\ \mathrm{Cu} \\ \% \\ 0.001 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| J294318 <br> J294319 <br> J294320 <br> J294321 <br> J 294322 |  | $\begin{aligned} & 376 \\ & 345 \\ & 414 \\ & 864 \\ & 42 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.01 \\ & 0.01 \\ & 0.03 \\ & 0.03 \\ & 0.15 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & 10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 46 \\ & 11 \\ & 76 \\ & 56 \\ & 61 \end{aligned}$ | $\begin{aligned} & <10 \\ & 320 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 84 \\ & 62 \\ & 71 \\ & 69 \\ & 77 \end{aligned}$ |  |
| $\begin{aligned} & \mathrm{J} 294323 \\ & \mathrm{~J} 294324 \\ & \mathrm{~J} 294325 \\ & \mathrm{~J} 294326 \\ & \mathrm{~J} 294327 \end{aligned}$ |  | $\begin{aligned} & 473 \\ & 650 \\ & 418 \\ & 411 \\ & 210 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & \hline 0.02 \\ & 0.03 \\ & 0.07 \\ & 0.17 \\ & 0.19 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} \hline 27 \\ 54 \\ 95 \\ 129 \\ 163 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & \hline 629 \\ & 216 \\ & 99 \\ & 77 \\ & 90 \end{aligned}$ |  |
| $\begin{aligned} & J 294328 \\ & J 294329 \\ & J 294330 \end{aligned}$ |  | $\begin{aligned} & \hline 213 \\ & 519 \\ & 180 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.06 \\ & 0.03 \\ & 0.07 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} \hline 144 \\ 53 \\ 158 \end{gathered}$ | $\begin{aligned} & <10 \\ & 150 \\ & <10 \end{aligned}$ | $\begin{aligned} & 75 \\ & 60 \\ & 76 \end{aligned}$ |  |

Comments: Additional Au- AA23 check results for sample J294262 are 0.145 ppm and 0.321 ppm .

## CERTIFICATE VA11000829

## Project: Kenville Mine

P.O. No.:

This report is for 115 Drill Core samples submitted to our lab in Vancouver, BC Canada on 29- DEC-2010.
The following have access to data associated with this certificate: ANGLO SWISS RESOURCES
$\lambda$

To: ANGLO SWISS RESOURCES INC
309-837 W HASTINGS ST.
VANCOUVER BC V6C 3N6

LLOYD PENNER
$\square$
$\qquad$

| SAMPLE PREPARATION |  |  |
| :---: | :---: | :---: |
| ALS CODE | DESCRIPTION |  |
| WE1-21 | Received Sample Weight |  |
| LOG. 21 | Sample logging - ClientBarCode |  |
| LOC. 23 | Pulp Login - Rcvd with Barcode |  |
| CRU- QC | Crushing QC Test |  |
| PUL- QC | Pulverizing QC Test |  |
| CRU- 31 | Fine crushing - $70 \%<2 \mathrm{~mm}$ |  |
| SPL- 21 | Split sample - riffle splitter |  |
| PUL-31 | Pulverize split to $85 \%<75$ um |  |
|  | ANALYTICAL PROCEDURES |  |
| ALS CODE | DESCRIPTION | INSTRUMENT |
| ME- ICP4 1 | 35 Element Aqua Regia ICP- AES | ICP-AES |
| ME- OG46 | Ore Grade Elements - AquaRegia | ICP-AES |
| Cu-OG46 | Ore Grade Cu - Aqua Regia | VARIABLE |
| Au- AA23 | Au 30g FA- AA finish | AAS |
| Au-GRA21 | Au 30g FA- GRAV finish | WST-SIM |

Phone: 604984022

Signature:


Colin Ramshaw, Vancouver Laboratory Manager

| Sample Description | Method Analyte Units LOR | WEL- 21 Recvd Wt: kg 0.02 | $\begin{gathered} \mathrm{Au}-\mathrm{AA}, 23 \\ \mathrm{Au} \\ \mathrm{ppm} \\ 0.005 \end{gathered}$ | $\begin{gathered} \mathrm{Au}-\mathrm{GRA} 21 \\ \mathrm{Au} \\ \mathrm{ppm} \\ 0.05 \end{gathered}$ | $\begin{gathered} \text { ME- } \operatorname{ICP4} 4 \\ \mathrm{Ag} \\ \mathrm{ppm} \\ 0.2 \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ \text { Al } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- ©CP41 } \\ \text { As } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- KCP41 } \\ \text { B } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Ea } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME - CPP41 } \\ \text { Be } \\ \text { ppm } \\ 0.5 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ \text { Bi } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME-[CP4] } \\ \mathrm{Ca} \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- }\{C P 4\} \\ \text { Cd } \\ \text { pom } \\ 0.5 \end{gathered}$ | $\begin{gathered} \text { ME. ICPC1 } \\ \text { Co } \\ \text { Ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- ICP4I } \\ \text { Cr } \\ \text { fpm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ \mathrm{Cu} \\ \mathrm{ppm} \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & j 294331 \\ & j 294332 \\ & j 294333 \\ & j 294334 \\ & j 294335 \end{aligned}$ |  | $\begin{aligned} & 0.86 \\ & 0.20 \\ & 0.14 \\ & 1.08 \\ & 0.56 \end{aligned}$ | 0.132 <br> 0.091 <br> 0.054 <br> 0.170 <br> 0.013 |  | $\begin{aligned} & 1.7 \\ & 1.5 \\ & 1.0 \\ & 1.1 \\ & 1.3 \end{aligned}$ | $\begin{aligned} & 0.55 \\ & 1.22 \\ & 1.20 \\ & 1.14 \\ & 1.01 \end{aligned}$ | $\begin{gathered} 3 \\ 3 \\ <2 \\ 2 \\ <2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 80 \\ 80 \\ 60 \\ 110 \\ 180 \end{gathered}$ | $\begin{gathered} <0.5 \\ 0.5 \\ 0.5 \\ <0.5 \\ <0.5 \end{gathered}$ | $\begin{aligned} & <2 \\ & 2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 1.84 \\ & 3.46 \\ & 3.73 \\ & 3.74 \\ & 3.78 \end{aligned}$ | $\begin{aligned} & 0.5 \\ & 0.5 \\ & 0.5 \\ & 0.5 \\ & 0.5 \end{aligned}$ | $\begin{gathered} 9 \\ 9 \\ 15 \\ 15 \\ 17 \\ 14 \end{gathered}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 431 \\ & 636 \\ & 343 \\ & 232 \\ & 285 \end{aligned}$ |
| $j 294336$ $j 294337$ $j 294338$ $j 294339$ $j 294340$ |  | $\begin{aligned} & \hline 0.58 \\ & 1.34 \\ & 0.28 \\ & 1.20 \\ & 0.12 \end{aligned}$ | $\begin{gathered} 0.007 \\ 0.259 \\ <0.005 \\ 0.036 \\ 0.539 \end{gathered}$ |  | $\begin{aligned} & 1.4 \\ & 4.1 \\ & 0.3 \\ & 1.6 \\ & 5.9 \end{aligned}$ | $\begin{aligned} & 1.05 \\ & 1.23 \\ & 1.43 \\ & 1.05 \\ & 0.56 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & 2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | 200 70 30 60 20 | $\begin{gathered} <0.5 \\ <0.5 \\ <0.5 \\ 0.7 \\ <0.5 \end{gathered}$ | $\begin{gathered} c 2 \\ 4 \\ 4 \\ <2 \\ <2 \\ 4 \end{gathered}$ | $\begin{aligned} & 3.33 \\ & 1.02 \\ & 1.66 \\ & 3.52 \\ & 1.31 \end{aligned}$ | $\begin{gathered} <0.5 \\ <0.5 \\ <0.5 \\ 0.5 \\ 3.1 \end{gathered}$ | $\begin{aligned} & 14 \\ & 14 \\ & 16 \\ & 15 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 2 \\ & 1 \\ & 4 \end{aligned}$ | $\begin{gathered} 321 \\ 6030 \\ 136 \\ 730 \\ 3150 \end{gathered}$ |
| $\begin{aligned} & 1294341 \\ & J 294342 \\ & 1294343 \\ & J 294344 \\ & 1294345 \end{aligned}$ |  | $\begin{aligned} & 0.32 \\ & 0.34 \\ & 0.32 \\ & 1.70 \\ & 0.86 \end{aligned}$ | 0.021 0.023 0.021 $<0.005$ 0.363 |  | $\begin{gathered} 0.9 \\ 1.3 \\ 0.6 \\ <0.2 \\ 0.9 \end{gathered}$ | $\begin{aligned} & 1.06 \\ & 1.02 \\ & 0.96 \\ & 1.49 \\ & 0.56 \end{aligned}$ | $\begin{gathered} <2 \\ 2 \\ <2 \\ <2 \\ <2 \end{gathered}$ | $\begin{aligned} & <10 \\ & 10 \\ & 10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 30 \\ & 40 \\ & 40 \\ & 30 \\ & 20 \end{aligned}$ | $\begin{aligned} & 0.6 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & 2 \\ & 2 \end{aligned}$ | $\begin{aligned} & 4.03 \\ & 1.18 \\ & 3.97 \\ & 0.47 \\ & 3.87 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & 1.1 \end{aligned}$ | 14 18 12 5 16 | $\begin{aligned} & 1 \\ & 2 \\ & 2 \\ & 7 \\ & 1 \end{aligned}$ | $\begin{gathered} 236 \\ 2210 \\ 892 \\ 9 \\ 205 \end{gathered}$ |
| $\begin{array}{\|l\|} \hline J 294346 \\ J 294347 \\ J 294348 \\ J 294349 \\ J 294350 \end{array}$ |  | $\begin{aligned} & 0.66 \\ & 0.40 \\ & 0.80 \\ & 0.70 \\ & 0.64 \end{aligned}$ | $\begin{aligned} & 0.070 \\ & 0.105 \\ & 0.594 \\ & 0.015 \\ & >100 \end{aligned}$ | 23.6 | $\begin{gathered} 6.6 \\ 1.4 \\ 1.4 \\ 1.0 \\ 14.6 \end{gathered}$ | $\begin{aligned} & 1.14 \\ & 0.61 \\ & 0.37 \\ & 0.66 \\ & 0.60 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & 2 \\ & 2 \\ & <2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 50 \\ & 60 \\ & 30 \\ & 60 \\ & 100 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{gathered} 3 \\ 2 \\ 3 \\ <2 \\ 10 \end{gathered}$ | $\begin{aligned} & 3.98 \\ & 4.10 \\ & 3.03 \\ & 3.97 \\ & 3.34 \end{aligned}$ | $\begin{aligned} & 0.9 \\ & 1.1 \\ & 1.2 \\ & <0.5 \\ & 1.9 \end{aligned}$ | $\begin{aligned} & 15 \\ & 15 \\ & 17 \\ & 13 \\ & 16 \end{aligned}$ | $\begin{gathered} 1 \\ 1 \\ 24 \\ 2 \\ 1 \end{gathered}$ | $\begin{array}{r} \hline 3990 \\ 442 \\ 312 \\ 238 \\ 2180 \end{array}$ |
| $J 294351$ $J 294352$ $J 294353$ 1294354 $J 294355$ |  | $\begin{aligned} & 0.32 \\ & 0.40 \\ & 0.36 \\ & 1.00 \\ & 0.08 \end{aligned}$ | $\begin{aligned} & 1.100 \\ & 0.107 \\ & 0.237 \\ & 0.010 \\ & 1.500 \end{aligned}$ |  | $\begin{gathered} 14.9 \\ 2.0 \\ 0.8 \\ 0.8 \\ 4.9 \end{gathered}$ | 0.30 0.46 0.27 0.40 1.30 | $\begin{gathered} <2 \\ 2 \\ <2 \\ <2 \\ 39 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 100 \\ & 70 \\ & 30 \\ & 40 \\ & 80 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{gathered} 2 \\ <2 \\ 2 \\ <2 \\ <2 \end{gathered}$ | $\begin{aligned} & 2.47 \\ & 3.76 \\ & 2.25 \\ & 3.51 \\ & 1.45 \end{aligned}$ | $\begin{aligned} & 5.1 \\ & 1.8 \\ & 1.1 \\ & 0.7 \\ & 2.2 \end{aligned}$ | $\begin{aligned} & 16 \\ & 13 \\ & 10 \\ & 12 \\ & 20 \end{aligned}$ | $\begin{gathered} 1 \\ 1 \\ <1 \\ 2 \\ 1 \\ 60 \end{gathered}$ | $\begin{gathered} 7250 \\ 673 \\ 165 \\ 153 \\ 9920 \end{gathered}$ |
| $\begin{aligned} & 1294356 \\ & J 294357 \\ & 1294358 \\ & 1294359 \\ & 1294360 \end{aligned}$ |  | $\begin{aligned} & 0.42 \\ & 0.52 \\ & 0.52 \\ & 0.50 \\ & 1.04 \end{aligned}$ | $\begin{aligned} & 0.143 \\ & 0.040 \\ & 0.674 \\ & 0.007 \\ & 0.277 \end{aligned}$ |  | $\begin{gathered} 1.4 \\ 0.4 \\ 13.4 \\ 1.1 \\ 1.0 \end{gathered}$ | 0.46 0.20 0.36 1.43 1.15 | $\begin{aligned} & <2 \\ & 2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 40 \\ 20 \\ 180 \\ 50 \\ 30 \end{gathered}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & 0.5 \end{aligned}$ | $\begin{array}{r} 2 \\ 2 \\ 3 \\ 3 \\ <2 \\ <2 \end{array}$ | $\begin{aligned} & 3.58 \\ & 1.95 \\ & 4.26 \\ & 3.71 \\ & 3.82 \end{aligned}$ | $\begin{gathered} 1.1 \\ <0.5 \\ 2.7 \\ 0.5 \\ 0.7 \end{gathered}$ | $\begin{gathered} 13 \\ 7 \\ 73 \\ 14 \\ 15 \end{gathered}$ | $\begin{aligned} & 1 \\ & <1 \\ & <1 \\ & 2 \\ & 1 \end{aligned}$ | $\begin{gathered} 319 \\ 68 \\ 5320 \\ 855 \\ 560 \end{gathered}$ |
| $J 294361$ $J 294362$ $J 294363$ $J 294364$ $J 294365$ |  | $\begin{aligned} & 0.96 \\ & 0.56 \\ & 1.24 \\ & 0.78 \\ & 0.08 \end{aligned}$ | 0.403 0.562 0.397 0.216 1.380 |  | $\begin{gathered} 1.2 \\ 12.8 \\ 10.3 \\ 4.0 \\ 4.4 \end{gathered}$ | $\begin{aligned} & 1.10 \\ & 1.09 \\ & 1.29 \\ & 1.47 \\ & 1.30 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & 38 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 30 \\ & 40 \\ & 40 \\ & 40 \\ & 60 \end{aligned}$ | $\begin{aligned} & 0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{gathered} 2 \\ <2 \\ <2 \\ <2 \\ <2 \\ <2 \end{gathered}$ | $\begin{aligned} & 3.81 \\ & 2.82 \\ & 2.64 \\ & 3.73 \\ & 1.44 \end{aligned}$ | $\begin{gathered} \hline 0.6 \\ 1.1 \\ 1.9 \\ <0.5 \\ 2.2 \end{gathered}$ | $\begin{aligned} & 14 \\ & 18 \\ & 21 \\ & 15 \\ & 19 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 60 \end{aligned}$ | $\begin{gathered} \hline 554 \\ 8600 \\ 9580 \\ 751 \\ 10000 \end{gathered}$ |
| $J 294366$ $J 294367$ $J 294368$ $j 294369$ $J 294370$ |  | $\begin{aligned} & \hline 0.72 \\ & 0.94 \\ & 1.24 \\ & 0.58 \\ & 0.74 \end{aligned}$ | $\begin{aligned} & \hline 0.053 \\ & 0.059 \\ & 0.072 \\ & 0.245 \\ & 0.098 \end{aligned}$ |  | $\begin{aligned} & 0.6 \\ & 1.6 \\ & 2.7 \\ & 5.5 \\ & 4.4 \end{aligned}$ | $\begin{aligned} & 1.54 \\ & 1.16 \\ & 0.69 \\ & 1.46 \\ & 1.46 \end{aligned}$ | $\begin{aligned} & <2 \\ & 2 \\ & 4 \\ & 3 \\ & <2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 50 \\ & 40 \\ & 60 \\ & 80 \\ & 60 \end{aligned}$ | $\begin{gathered} <0.5 \\ <0.5 \\ <0.5 \\ 0.5 \\ <0.5 \end{gathered}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3.34 \\ & 4.72 \\ & 3.11 \\ & 3.30 \\ & 3.43 \end{aligned}$ | $\begin{gathered} <0.5 \\ <0.5 \\ 0.5 \\ 0.6 \\ 0.6 \end{gathered}$ | $\begin{aligned} & 13 \\ & 12 \\ & 13 \\ & 17 \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 1 \\ & 1 \\ & 2 \end{aligned}$ | $\begin{gathered} 245 \\ 485 \\ 785 \\ 2570 \\ 2560 \end{gathered}$ |

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| Sample DescriptionMethod <br> Analyte <br> Units <br> LOR | $\begin{gathered} \text { ME. CCF41 } \\ \text { Fe } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- } 1 \mathrm{CP4} 4 \\ \mathrm{Ca} \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-- } C P \text { Pl } \\ \mathrm{Hg} \\ \mathrm{ppm} \\ 1 \end{gathered}$ | $\begin{gathered} M E-\mid C P 41 \\ K \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ \text { La } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-ECP41 } \\ N_{G} \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ \text { Mn } \\ \text { ppm } \\ \overline{5} \end{gathered}$ | $\begin{gathered} \text { ME- } 1 C P 41 \\ \text { Mo } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \mathrm{Na} \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME. }-1 C P 41 \\ \mathrm{Ni} \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- KCP4 } \\ p \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ \text { Pb } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME ICP41 } \\ \text { S } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- ICP4 } \\ \text { Sb } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- }- \text { CP4 } \\ \text { Sc } \\ \text { ppm } \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & J 294331 \\ & j 294332 \\ & j 294333 \\ & j 294334 \\ & J 294335 \end{aligned}$ | $\begin{aligned} & 1.82 \\ & 3.21 \\ & 3.14 \\ & 3.30 \\ & 3.33 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} <1 \\ 1 \\ <1 \\ 1 \\ 1 \end{gathered}$ | $\begin{aligned} & 0.35 \\ & 0.94 \\ & 0.90 \\ & 0.93 \\ & 0.56 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.26 \\ & 0.78 \\ & 0.71 \\ & 0.78 \\ & 0.96 \end{aligned}$ | $\begin{aligned} & 605 \\ & 1280 \\ & 1320 \\ & 1400 \\ & 1670 \end{aligned}$ | $\begin{aligned} & 7 \\ & 3 \\ & 4 \\ & 2 \\ & 3 \end{aligned}$ | 0.03 <br> 0.04 <br> 0.04 <br> 0.04 <br> 0.04 | $\begin{aligned} & 5 \\ & 1 \\ & 2 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 480 \\ & 1560 \\ & 1600 \\ & 1730 \\ & 1850 \end{aligned}$ | $\begin{aligned} & 6 \\ & 5 \\ & 6 \\ & 5 \\ & 5 \end{aligned}$ | $\begin{aligned} & 0.66 \\ & 0.50 \\ & 0.52 \\ & 0.54 \\ & 0.17 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 2 \\ & 2 \\ & 2 \end{aligned}$ |
| $J 294336$ $J 294337$ $J 294338$ $J 294339$ $J 294340$ | $\begin{aligned} & 3.27 \\ & 3.33 \\ & 3.90 \\ & 3.56 \\ & 3.05 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & 10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.69 \\ & 0.75 \\ & 0.69 \\ & 0.47 \\ & 0.18 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & <10 \\ & 10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 0.98 \\ & 0.82 \\ & 1.13 \\ & 1.09 \\ & 0.46 \end{aligned}$ | $\begin{gathered} 1470 \\ 850 \\ 1060 \\ 1440 \\ 577 \end{gathered}$ | $\begin{aligned} & \hline 2 \\ & 2 \\ & <1 \\ & 2 \\ & 2 \end{aligned}$ | $\begin{aligned} & 0.03 \\ & 0.04 \\ & 0.04 \\ & 0.03 \\ & 0.05 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 2 \\ & 2 \\ & 2 \\ & 3 \end{aligned}$ | $\begin{aligned} & 1800 \\ & 1810 \\ & 1760 \\ & 1770 \\ & 710 \end{aligned}$ | $\begin{aligned} & 5 \\ & 4 \\ & 4 \\ & 4 \\ & 5 \\ & 35 \end{aligned}$ | $\begin{aligned} & 0.15 \\ & 0.29 \\ & 0.01 \\ & 0.19 \\ & 1.86 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3 \\ & 2 \\ & 2 \\ & 3 \\ & 2 \end{aligned}$ |
| $j 294341$ $j 294342$ $j 294343$ $j 294344$ $j 294345$ | $\begin{aligned} & 3.39 \\ & 2.34 \\ & 2.02 \\ & 2.75 \\ & 3.29 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 1 \\ <1 \\ <1 \\ 1 \\ <1 \end{gathered}$ | $\begin{aligned} & 0.29 \\ & 0.85 \\ & 0.82 \\ & 1.00 \\ & 0.36 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.06 \\ & 0.67 \\ & 0.60 \\ & 0.69 \\ & 1.00 \end{aligned}$ | $\begin{gathered} 1360 \\ 483 \\ 1060 \\ 540 \\ 1500 \end{gathered}$ | $\begin{gathered} 1 \\ 2 \\ 43 \\ 1 \\ 1 \end{gathered}$ | $\begin{aligned} & 0.03 \\ & 0.03 \\ & 0.03 \\ & 0.09 \\ & 0.02 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 1 \\ & 2 \\ & 1 \end{aligned}$ | $\begin{gathered} 1830 \\ 1990 \\ 1740 \\ 700 \\ 1630 \end{gathered}$ | 6 3 4 4 11 | $\begin{aligned} & 0.24 \\ & 0.26 \\ & 0.15 \\ & 0.04 \\ & 0.66 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3 \\ & 2 \\ & 2 \\ & 2 \\ & 2 \\ & \hline \end{aligned}$ |
| J 294346 $J 294347$ $J 294348$ $J 294349$ $J 294350$ | $\begin{aligned} & 3.36 \\ & 3.05 \\ & 2.72 \\ & 3.39 \\ & 4.00 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | 0.65 0.48 0.27 0.48 0.40 | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 40 \end{aligned}$ | $\begin{aligned} & 0.83 \\ & 1.05 \\ & 0.69 \\ & 0.95 \\ & 0.72 \end{aligned}$ | $\begin{aligned} & 1270 \\ & 1470 \\ & 1390 \\ & 1490 \\ & 1290 \end{aligned}$ | $\begin{gathered} 13 \\ 1 \\ 37 \\ 1 \\ 54 \end{gathered}$ | $\begin{aligned} & 0.04 \\ & 0.02 \\ & 0.01 \\ & 0.03 \\ & 0.02 \end{aligned}$ | $\begin{aligned} & 3 \\ & 2 \\ & 8 \\ & 8 \\ & 2 \end{aligned}$ | $\begin{aligned} & 1820 \\ & 1880 \\ & 1430 \\ & 1910 \\ & 1720 \end{aligned}$ | 9 7 7 14 6 90 | $\begin{aligned} & 0.48 \\ & 0.40 \\ & 1.40 \\ & 0.08 \\ & 0.83 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 1 \\ & 2 \\ & 1 \end{aligned}$ |
| $J 294351$ <br> $J 294352$ <br> $J 294353$ <br> $j 294354$ <br> $J 294355$ | $\begin{aligned} & 4.75 \\ & 2.86 \\ & 2.07 \\ & 2.96 \\ & 4.75 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} <1 \\ <1 \\ <1 \\ <1 \\ 1 \end{gathered}$ | $\begin{aligned} & 0.26 \\ & 0.37 \\ & 0.22 \\ & 0.33 \\ & 0.47 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 20 \end{aligned}$ | $\begin{aligned} & 0.60 \\ & 0.97 \\ & 0.57 \\ & 0.94 \\ & 0.79 \end{aligned}$ | $\begin{gathered} 968 \\ 1400 \\ 945 \\ 1280 \\ 341 \end{gathered}$ | $\begin{gathered} \hline 20 \\ 4 \\ 7 \\ 1 \\ 245 \end{gathered}$ | $\begin{aligned} & 0.02 \\ & 0.02 \\ & 0.03 \\ & 0.02 \\ & 0.04 \end{aligned}$ | $\begin{gathered} \hline 2 \\ 1 \\ 1 \\ 1 \\ 32 \end{gathered}$ | $\begin{gathered} \hline 970 \\ 1770 \\ 890 \\ 1770 \\ 660 \end{gathered}$ | 44 9 7 5 71 | 2.74 0.54 0.80 0.08 2.66 | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 6 \end{aligned}$ |
| J 294356 J 294357 J 294358 J 294359 J 294360 | $\begin{aligned} & 2.88 \\ & 1.54 \\ & 2.59 \\ & 3.52 \\ & 3.19 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & \hline 0.36 \\ & 0.17 \\ & 0.27 \\ & 0.99 \\ & 0.49 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & \hline 0.92 \\ & 0.44 \\ & 0.57 \\ & 1.03 \\ & 1.05 \end{aligned}$ | $\begin{aligned} & 1470 \\ & 698 \\ & 1220 \\ & 1330 \\ & 1440 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 6 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 0.03 \\ & 0.01 \\ & 0.02 \\ & 0.03 \\ & 0.03 \end{aligned}$ | $\begin{gathered} 1 \\ <1 \\ 1 \\ 1 \\ 2 \\ 2 \end{gathered}$ | $\begin{gathered} 1650 \\ 860 \\ 1740 \\ 1750 \\ 1790 \end{gathered}$ | $\begin{gathered} 6 \\ 3 \\ 14 \\ 3 \\ 3 \end{gathered}$ | $\begin{aligned} & 0.59 \\ & 0.07 \\ & 1.38 \\ & 0.13 \\ & 0.46 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & \hline 2 \\ & 1 \\ & 1 \\ & 3 \\ & 2 \end{aligned}$ |
| $\begin{aligned} & 1294361 \\ & 1294362 \\ & 1294363 \\ & 1294364 \\ & 1294365 \end{aligned}$ | $\begin{aligned} & 3.78 \\ & 3.69 \\ & 5.82 \\ & 3.55 \\ & 4.66 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & 10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} <1 \\ 1 \\ <1 \\ <1 \\ <1 \end{gathered}$ | $\begin{aligned} & 0.37 \\ & 0.80 \\ & 0.75 \\ & 1.02 \\ & 0.47 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 20 \\ & 10 \\ & 20 \end{aligned}$ | $\begin{aligned} & 1.13 \\ & 0.76 \\ & 1.08 \\ & 1.11 \\ & 0.79 \end{aligned}$ | $\begin{gathered} 1500 \\ 590 \\ 1120 \\ 1350 \\ 335 \end{gathered}$ | $\begin{gathered} \hline 1 \\ 1 \\ 13 \\ 1 \\ 239 \end{gathered}$ | $\begin{aligned} & 0.03 \\ & 0.04 \\ & 0.04 \\ & 0.03 \\ & 0.04 \end{aligned}$ | $\begin{gathered} 1 \\ 3 \\ 2 \\ 3 \\ 32 \end{gathered}$ | $\begin{aligned} & 1850 \\ & 1510 \\ & 1620 \\ & 1840 \\ & 650 \end{aligned}$ | 4 3 6 7 68 | 0.60 1.16 0.99 0.28 2.63 | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & 14 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 3 \\ & 3 \\ & 6 \end{aligned}$ |
| $J 294366$ <br> $j 294367$ <br> $J 294368$ <br> $J 294369$ <br> $J 294370$ | $\begin{aligned} & 3.46 \\ & 3.33 \\ & 4.03 \\ & 3.82 \\ & 3.51 \end{aligned}$ | $\begin{aligned} & 10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 1.18 \\ & 0.72 \\ & 0.37 \\ & 0.97 \\ & 1.00 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.15 \\ & 1.06 \\ & 1.04 \\ & 1.19 \\ & 1.15 \end{aligned}$ | $\begin{aligned} & 1210 \\ & 1585 \\ & 1335 \\ & 1200 \\ & 1280 \end{aligned}$ | $\begin{aligned} & 1 \\ & 3 \\ & 3 \\ & 2 \\ & 2 \end{aligned}$ | $\begin{aligned} & 0.04 \\ & 0.04 \\ & 0.03 \\ & 0.04 \\ & 0.03 \end{aligned}$ | $\begin{aligned} & 3 \\ & 2 \\ & 2 \\ & 3 \\ & 2 \end{aligned}$ | $\begin{aligned} & 1740 \\ & 1580 \\ & 1810 \\ & 1860 \\ & 1780 \end{aligned}$ | $\begin{aligned} & \hline 4 \\ & 3 \\ & 5 \\ & 3 \\ & 3 \end{aligned}$ | $\begin{aligned} & 0.15 \\ & 0.13 \\ & 0.36 \\ & 0.28 \\ & 0.33 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 4 \\ & 4 \\ & 3 \\ & 4 \\ & 3 \end{aligned}$ |

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| Sample DescriptionMethod <br> Analyte <br> Units <br> LOR | $\begin{gathered} \text { ME- } 1 \mathrm{CP} 41 \\ \mathrm{Sr} \\ \mathrm{ppm} \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Th } \\ \text { pprn } \\ 20 \end{gathered}$ | $\begin{gathered} \text { ME- } 1 C^{2} 41 \\ T i \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- ICP4 } \\ \mathrm{TI} \\ \mathrm{Ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ U \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ V \\ p p m \\ 1 \\ \hline \end{gathered}$ | $\begin{gathered} \text { ME-KCP41 } \\ \text { W } \\ \text { Ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP4 } 1 \\ 2 \mathrm{n} \\ \mathrm{ppm} \\ 2 \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{Cu}-\mathrm{OC} 46 \\ \mathrm{CL} \\ \% \\ 0.001 \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \mathrm{J} 294331 \\ & \mathrm{j} 294332 \\ & \mathrm{~J} 294333 \\ & \mathrm{~J} 294334 \\ & \mathrm{~J} 294335 \end{aligned}$ | $\begin{aligned} & 684 \\ & 314 \\ & 249 \\ & 761 \\ & 944 \end{aligned}$ | $\begin{aligned} & 30 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.01 \\ & 0.11 \\ & 0.10 \\ & 0.11 \\ & 0.04 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 27 \\ & 75 \\ & 66 \\ & 78 \\ & 58 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 24 \\ & 77 \\ & 73 \\ & 89 \\ & 80 \end{aligned}$ |  |
| $\begin{aligned} & 1294336 \\ & J 294337 \\ & J 294338 \\ & J 294339 \\ & J 294340 \end{aligned}$ | $\begin{gathered} \hline 1040 \\ 65 \\ 82 \\ 359 \\ 167 \end{gathered}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.08 \\ & 0.15 \\ & 0.14 \\ & 0.07 \\ & 0.03 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 75 \\ 79 \\ 123 \\ 66 \\ 23 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & 20 \end{aligned}$ | $\begin{aligned} & 86 \\ & 40 \\ & 72 \\ & 64 \\ & 40 \end{aligned}$ |  |
| $\begin{aligned} & J 294341 \\ & J 294342 \\ & J 294343 \\ & J 294344 \\ & J 294345 \end{aligned}$ | $\begin{gathered} \hline 421 \\ 67 \\ 144 \\ 29 \\ 364 \end{gathered}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.08 \\ & 0.15 \\ & 0.14 \\ & 0.19 \\ & 0.02 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 63 \\ & 63 \\ & 54 \\ & 33 \\ & 38 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & 20 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 49 \\ & 35 \\ & 26 \\ & 69 \\ & 50 \end{aligned}$ |  |
| $\begin{aligned} & J 294346 \\ & J 294347 \\ & J 294348 \\ & J 294349 \\ & J 294350 \end{aligned}$ | $\begin{aligned} & 182 \\ & 382 \\ & 277 \\ & 512 \\ & 861 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.09 \\ & 0.02 \\ & 0.01 \\ & 0.03 \\ & 0.01 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & 40 \end{aligned}$ | $\begin{aligned} & 81 \\ & 27 \\ & 17 \\ & 52 \\ & 45 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 49 \\ & 52 \\ & 36 \\ & 49 \\ & 46 \end{aligned}$ |  |
| $\begin{aligned} & J 294351 \\ & j 294352 \\ & j 294353 \\ & j 294354 \\ & J 294355 \end{aligned}$ | $\begin{aligned} & 739 \\ & 489 \\ & 217 \\ & 377 \\ & 59 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.01 \\ & 0.01 \\ & <0.01 \\ & 0.01 \\ & 0.04 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 30 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 24 \\ 13 \\ 8 \\ 25 \\ 52 \\ \hline \end{gathered}$ | $\begin{aligned} & 140 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{array}{r} \hline 48 \\ 53 \\ 34 \\ 52 \\ 116 \\ \hline \end{array}$ |  |
| $\begin{aligned} & 1294356 \\ & 1294357 \\ & 1294358 \\ & 1294359 \\ & 1294360 \end{aligned}$ | $\begin{aligned} & 387 \\ & 200 \\ & 413 \\ & 252 \\ & 262 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.01 \\ & 0.01 \\ & 0.01 \\ & 0.14 \\ & 0.04 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 19 \\ & 13 \\ & 17 \\ & 96 \\ & 43 \\ & \hline \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 46 \\ & 16 \\ & 40 \\ & 78 \\ & 60 \end{aligned}$ |  |
| $\begin{aligned} & 1294361 \\ & J 294362 \\ & 1294363 \\ & j 294364 \\ & J 294365 \end{aligned}$ | $\begin{aligned} & 236 \\ & 128 \\ & 150 \\ & 275 \\ & 58 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.02 \\ & 0.12 \\ & 0.15 \\ & 0.14 \\ & 0.04 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & 30 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} \hline 46 \\ 73 \\ 167 \\ 105 \\ 53 \end{gathered}$ | $\begin{gathered} <10 \\ <10 \\ 10 \\ <10 \\ <10 \end{gathered}$ | $\begin{aligned} & \hline 52 \\ & 45 \\ & 69 \\ & 69 \\ & 113 \end{aligned}$ | 0.973 |
| $\begin{aligned} & 1294366 \\ & j 294367 \\ & j 294363 \\ & 1294369 \\ & 1294370 \end{aligned}$ | $\begin{aligned} & 228 \\ & 471 \\ & 565 \\ & 502 \\ & 290 \end{aligned}$ | $\begin{aligned} & <20 \\ & <20 \\ & <20 \\ & <20 \\ & <20 \end{aligned}$ | $\begin{aligned} & 0.17 \\ & 0.10 \\ & 0.03 \\ & 0.12 \\ & 0.13 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} \hline 121 \\ 101 \\ 69 \\ 101 \\ 94 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 72 \\ & 61 \\ & 50 \\ & 78 \\ & 83 \end{aligned}$ |  |

ALS Canada Ltd.

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| Sample DescriptionMethod <br> Analyte <br> Units <br> LOR | WE- 21 <br> Recvd Wt. kg 0.02 | $\begin{gathered} \mathrm{Au}-\mathrm{AA} A 3 \\ \mathrm{Au} \\ \mathrm{ppm} \\ 0.005 \end{gathered}$ | $\begin{gathered} \mathrm{Au}-\mathrm{GRA} 21 \\ \mathrm{Au} \\ \mathrm{ppm} \\ 0.05 \end{gathered}$ | ME-ICP41 Ag Ppm 0.2 | $\begin{gathered} \text { ME- ICP41 } \\ \text { Al } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { As } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ 8 \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- } 1 \mathrm{CP41} \\ \mathrm{Ba} \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME ICP41 } \\ \text { Be } \\ \text { ppm } \\ 0.5 \end{gathered}$ | $\begin{gathered} \text { ME. ICP4 } \\ \mathrm{Bi} \\ \mathrm{ppm} \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Ca } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME. ICP41 } \\ \text { Cd } \\ \text { ppm } \\ 0.5 \end{gathered}$ | $\begin{gathered} \text { ME- ICP4I } \\ \text { Co } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Cr } \\ \mathrm{fpm} \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- }-1 C P 41 \\ \mathrm{Cu} \\ \mathrm{ppm} \\ \mathrm{~T} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & J 294371 \\ & J 294372 \\ & \mathrm{~J} 294373 \\ & \mathrm{~J} 294374 \\ & \mathrm{~J} 294375 \end{aligned}$ | $\begin{aligned} & 1.50 \\ & 0.34 \\ & 1.48 \\ & 0.84 \\ & 0.34 \end{aligned}$ | $\begin{aligned} & 0.076 \\ & 0.022 \\ & 0.085 \\ & 0.006 \\ & 0.018 \end{aligned}$ |  | $\begin{aligned} & 2.1 \\ & 0.7 \\ & 1.0 \\ & 1.4 \\ & 0.6 \end{aligned}$ | $\begin{aligned} & 0.79 \\ & 1.17 \\ & 0.59 \\ & 0.88 \\ & 1.35 \end{aligned}$ | $\begin{gathered} c 2 \\ 3 \\ 4 \\ <2 \\ 2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 50 \\ 50 \\ 50 \\ 110 \\ 50 \end{gathered}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & 0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 4.08 \\ & 3.96 \\ & 3.35 \\ & 4.16 \\ & 2.88 \end{aligned}$ | $\begin{gathered} 0.5 \\ <0.5 \\ 0.9 \\ 0.7 \\ <0.5 \end{gathered}$ | $\begin{aligned} & 13 \\ & 13 \\ & 12 \\ & 13 \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 746 \\ & 201 \\ & 172 \\ & 100 \\ & 118 \end{aligned}$ |
| $\begin{aligned} & j 294375 \\ & j 294377 \\ & j 294378 \\ & j 294379 \\ & J 294380 \end{aligned}$ | $\begin{aligned} & 1.38 \\ & 1.42 \\ & 0.78 \\ & 1.60 \\ & 0.36 \end{aligned}$ | $\begin{aligned} & 0.096 \\ & 0.444 \\ & 0.125 \\ & 0.079 \\ & 0.138 \end{aligned}$ |  | $\begin{aligned} & 0.5 \\ & 0.9 \\ & 0.3 \\ & 2.4 \\ & 1.2 \end{aligned}$ | $\begin{aligned} & \hline 0.62 \\ & 0.58 \\ & 1.83 \\ & 0.99 \\ & 1.75 \end{aligned}$ | $\begin{aligned} & \hline 3 \\ & 2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 30 \\ & 30 \\ & 50 \\ & 50 \\ & 50 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & 3 \\ & <2 \end{aligned}$ | $\begin{aligned} & 4.49 \\ & 4.31 \\ & 3.93 \\ & 4.01 \\ & 1.89 \end{aligned}$ | $\begin{gathered} 0.9 \\ 1.1 \\ <0.5 \\ 1.5 \\ \infty .5 \end{gathered}$ | $\begin{aligned} & 14 \\ & 14 \\ & 16 \\ & 13 \\ & 16 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 2 \\ & 1 \\ & 2 \end{aligned}$ | $\begin{gathered} \hline 62 \\ 67 \\ 135 \\ 333 \\ 1540 \end{gathered}$ |
| 1294381 $J 294382$ 1294383 $J 294384$ $J 294385$ | $\begin{aligned} & 1.24 \\ & 0.32 \\ & 0.54 \\ & 2.00 \\ & 0.56 \end{aligned}$ | $\begin{aligned} & 0.325 \\ & 0.133 \\ & 0.096 \\ & 0.723 \\ & 0.677 \end{aligned}$ |  | $\begin{aligned} & 0.7 \\ & 0.6 \\ & 0.4 \\ & 1.5 \\ & 1.0 \end{aligned}$ | $\begin{aligned} & 0.75 \\ & 1.31 \\ & 1.49 \\ & 0.47 \\ & 1.05 \end{aligned}$ | $\begin{gathered} c 2 \\ 3 \\ <2 \\ 2 \\ 3 \\ 3 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 40 \\ 40 \\ 50 \\ 100 \\ 50 \end{gathered}$ | $\begin{gathered} <0.5 \\ 0.5 \\ <0.5 \\ <0.5 \\ <0.5 \end{gathered}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & 2 \end{aligned}$ | $\begin{aligned} & 3.46 \\ & 3.50 \\ & 3.19 \\ & 3.69 \\ & 3.88 \end{aligned}$ | $\begin{aligned} & 1.9 \\ & <0.5 \\ & <0.5 \\ & 3.0 \\ & 0.7 \end{aligned}$ | $\begin{aligned} & 14 \\ & 14 \\ & 14 \\ & 12 \\ & 12 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{gathered} 97 \\ 139 \\ 43 \\ 295 \\ 212 \end{gathered}$ |
| $\begin{aligned} & \hline 1294386 \\ & J 294387 \\ & 1294388 \\ & 1294389 \\ & J 294390 \end{aligned}$ | $\begin{aligned} & 0.92 \\ & 1.64 \\ & 2.14 \\ & 1.74 \\ & 1.22 \end{aligned}$ | $\begin{gathered} 5.59 \\ 3.09 \\ <0.005 \\ 1.105 \\ 0.340 \end{gathered}$ |  | $\begin{aligned} & 9.7 \\ & 7.6 \\ & <0.2 \\ & 2.2 \\ & 1.1 \end{aligned}$ | $\begin{aligned} & 1.41 \\ & 1.53 \\ & 1.60 \\ & 0.63 \\ & 0.77 \end{aligned}$ | $\begin{gathered} 8 \\ <2 \\ <2 \\ <2 \\ 2 \\ 2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{gathered} 70 \\ 190 \\ 90 \\ 60 \\ 50 \end{gathered}$ | $\begin{gathered} <0.5 \\ 0.8 \\ <0.5 \\ <0.5 \\ <0.5 \end{gathered}$ | $\begin{gathered} 7 \\ 3 \\ <2 \\ <2 \\ 2 \end{gathered}$ | $\begin{aligned} & 2.92 \\ & 3.81 \\ & 0.54 \\ & 3.90 \\ & 3.51 \end{aligned}$ | $\begin{gathered} 2.4 \\ 1.4 \\ <0.5 \\ 0.9 \\ 3.4 \end{gathered}$ | $\begin{gathered} 16 \\ 13 \\ 4 \\ 12 \\ 13 \end{gathered}$ | $\begin{gathered} 22 \\ 23 \\ 8 \\ 1 \\ 1 \end{gathered}$ | $\begin{gathered} 2410 \\ 2040 \\ 15 \\ 473 \\ 186 \end{gathered}$ |
| $\begin{aligned} & \mathrm{J} 294391 \\ & \mathrm{~J} 294392 \\ & \mathrm{~J} 294393 \\ & \mathrm{~J} 294394 \\ & \mathrm{~J} 294395 \end{aligned}$ | $\begin{aligned} & 1.12 \\ & 1.98 \\ & 0.80 \\ & 2.24 \\ & 0.80 \end{aligned}$ | $\begin{aligned} & 0.344 \\ & 0.344 \\ & 0.313 \\ & 0.195 \\ & 0.011 \end{aligned}$ |  | $\begin{aligned} & 1.1 \\ & 1.7 \\ & 0.9 \\ & 0.7 \\ & 0.5 \end{aligned}$ | $\begin{aligned} & 0.60 \\ & 0.65 \\ & 0.83 \\ & 0.60 \\ & 1.11 \end{aligned}$ | $\begin{gathered} 2 \\ <2 \\ <2 \\ 2 \\ <2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 40 \\ & 30 \\ & 40 \\ & 30 \\ & 30 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | 3.82 3.33 3.97 3.72 4.54 | $\begin{gathered} \hline 0.9 \\ 4.1 \\ 0.7 \\ 1.0 \\ <0.5 \end{gathered}$ | $\begin{aligned} & 13 \\ & 11 \\ & 11 \\ & 13 \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 277 \\ & 607 \\ & 110 \\ & 134 \\ & 52 \end{aligned}$ |
| $\begin{aligned} & \hline J 294396 \\ & J 294397 \\ & J 294398 \\ & J 294399 \\ & J 294400 \end{aligned}$ | $\begin{aligned} & 0.82 \\ & 0.86 \\ & 0.40 \\ & 0.08 \\ & 2.06 \end{aligned}$ | $\begin{gathered} \hline 0.046 \\ 0.113 \\ 0.041 \\ 0.629 \\ 9.61 \end{gathered}$ |  | $\begin{aligned} & 1.3 \\ & 0.5 \\ & 0.2 \\ & 2.8 \\ & 8.0 \end{aligned}$ | $\begin{aligned} & 1.21 \\ & 1.30 \\ & 1.55 \\ & 1.37 \\ & 0.23 \end{aligned}$ | $\begin{aligned} & \hline 4 \\ & 2 \\ & 3 \\ & 65 \\ & <2 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 50 \\ & 50 \\ & 50 \\ & 50 \\ & 30 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & 14 \end{aligned}$ | $\begin{aligned} & 4.12 \\ & 3.65 \\ & 3.04 \\ & 4.18 \\ & 0.95 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & 1.8 \\ & 4.9 \end{aligned}$ | $\begin{gathered} 13 \\ 12 \\ 12 \\ 17 \\ 8 \end{gathered}$ | $\begin{gathered} 1 \\ 1 \\ 2 \\ 24 \\ 4 \end{gathered}$ | $\begin{gathered} 282 \\ 87 \\ 132 \\ 4550 \\ 411 \end{gathered}$ |
| $\begin{aligned} & \mathrm{J} 294401 \\ & \mathrm{~J} 294402 \\ & \mathrm{~J} 294403 \\ & \mathrm{~J} 294404 \\ & \mathrm{~J} 294405 \end{aligned}$ | $\begin{aligned} & 1.00 \\ & 0.44 \\ & 0.68 \\ & 1.26 \\ & 0.60 \end{aligned}$ | $\begin{aligned} & 9.93 \\ & >10.0 \\ & 0.667 \\ & 0.179 \\ & 0.371 \end{aligned}$ | 11.55 | $\begin{gathered} \hline 16.6 \\ 11.6 \\ 0.8 \\ 1.1 \\ 3.1 \end{gathered}$ | $\begin{aligned} & 0.62 \\ & 0.62 \\ & 1.01 \\ & 1.12 \\ & 1.71 \end{aligned}$ | $\begin{gathered} <2 \\ 2 \\ <2 \\ 2 \\ 2 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 30 \\ & 20 \\ & 30 \\ & 30 \\ & 90 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & 49 \\ & 17 \\ & <2 \\ & <2 \\ & 4 \end{aligned}$ | $\begin{aligned} & 2.19 \\ & 3.02 \\ & 4.12 \\ & 3.36 \\ & 3.41 \end{aligned}$ | $\begin{gathered} 23.1 \\ 30.6 \\ 0.5 \\ <0.5 \\ 0.5 \end{gathered}$ | $\begin{aligned} & 20 \\ & 14 \\ & 13 \\ & 13 \\ & 21 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 2 \\ & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 388 \\ & 434 \\ & 214 \\ & 441 \\ & 3140 \end{aligned}$ |
| $J 294406$ $J 294407$ J 294408 J 294409 J 294410 | $\begin{aligned} & 1.38 \\ & 0.82 \\ & 0.28 \\ & 0.42 \\ & 0.84 \end{aligned}$ | $\begin{gathered} 0.042 \\ <0.005 \\ <0.005 \\ 0.014 \\ 2.49 \end{gathered}$ |  | $\begin{gathered} <0.2 \\ 0.2 \\ 0.2 \\ <0.2 \\ <0.2 \end{gathered}$ | $\begin{aligned} & 0.72 \\ & 0.54 \\ & 0.67 \\ & 1.68 \\ & 1.47 \end{aligned}$ | $\begin{gathered} \hline 2 \\ 2 \\ <2 \\ 4 \\ 3 \end{gathered}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 50 \\ & 20 \\ & 30 \\ & 80 \\ & 60 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 2.34 \\ & 0.86 \\ & 2.58 \\ & 3.43 \\ & 4.80 \end{aligned}$ | $\begin{aligned} & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \\ & <0.5 \end{aligned}$ | $\begin{gathered} \hline 8 \\ 5 \\ 6 \\ 14 \\ 17 \end{gathered}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 2 \\ & 2 \\ & 2 \end{aligned}$ | $\begin{gathered} 28 \\ 41 \\ 28 \\ 8 \\ 71 \end{gathered}$ |

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| Sample DescriptionMethod <br> Analyte <br> Units <br> LOR | $\begin{gathered} \text { ME- } \mathrm{CCF} 41 \\ \mathrm{Fe} \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- } \mathrm{CP} 41 \\ \mathrm{Ca} \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- }-\mathrm{CCP}_{4} \mathrm{HI} \\ \mathrm{Hg} \\ \mathrm{ppm} \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME. ICF41 } \\ K \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- KCP41 } \\ \text { Lo } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- KCP41 } \\ M_{G} \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ \text { Mn } \\ \text { ppm } \\ 5 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Mo } \\ \mathrm{ppn} \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME - ICP41 } \\ \mathrm{Na} \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- } 1 C P 41 \\ N i \\ \text { Ppm } \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME: } \mathbf{C P P 4 1} \\ P \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { Pb } \\ \text { Ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \text { S } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME. ICP4 } \\ \text { Sb } \\ \text { Ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME- }\|C P 4\| \\ \text { Sc } \\ \text { ppm } \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & j 294371 \\ & j 294372 \\ & j 294373 \\ & j 294374 \\ & j 294375 \end{aligned}$ | $\begin{aligned} & 3.28 \\ & 3.26 \\ & 2.99 \\ & 3.56 \\ & 3.41 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.60 \\ & 0.93 \\ & 0.40 \\ & 0.64 \\ & 0.87 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.03 \\ & 1.04 \\ & 0.84 \\ & 1.24 \\ & 1.15 \end{aligned}$ | $\begin{aligned} & 1475 \\ & 1415 \\ & 1225 \\ & 1385 \\ & 1140 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 2 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 0.03 \\ & 0.03 \\ & 0.03 \\ & 0.03 \\ & 0.04 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 2 \\ & 3 \\ & 3 \end{aligned}$ | $\begin{aligned} & 1790 \\ & 1790 \\ & 1590 \\ & 1680 \\ & 1630 \end{aligned}$ | $\begin{gathered} 2 \\ <2 \\ 9 \\ 5 \\ 2 \end{gathered}$ | $\begin{aligned} & 0.23 \\ & 0.11 \\ & 0.52 \\ & 0.21 \\ & 0.12 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3 \\ & 3 \\ & 2 \\ & 4 \\ & 4 \end{aligned}$ |
| $\begin{aligned} & J 294376 \\ & J 294377 \\ & J 294378 \\ & J 294379 \\ & j 294380 \end{aligned}$ | $\begin{aligned} & 3.38 \\ & 3.38 \\ & 4.09 \\ & 3.16 \\ & 3.64 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & 10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.38 \\ & 0.38 \\ & 1.23 \\ & 0.57 \\ & 1.46 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.21 \\ & 1.20 \\ & 1.43 \\ & 1.06 \\ & 1.17 \end{aligned}$ | $\begin{aligned} & 1560 \\ & 1550 \\ & 1455 \\ & 1355 \\ & 945 \end{aligned}$ | $\begin{aligned} & 2 \\ & 1 \\ & 2 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 0.03 \\ & 0.02 \\ & 0.04 \\ & 0.03 \\ & 0.04 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 3 \\ & 2 \\ & 3 \end{aligned}$ | $\begin{aligned} & 1710 \\ & 1760 \\ & 1850 \\ & 1680 \\ & 1790 \end{aligned}$ | $\begin{gathered} 4 \\ 3 \\ 2 \\ 20 \\ <2 \end{gathered}$ | $\begin{aligned} & 0.44 \\ & 0.59 \\ & 0.12 \\ & 0.23 \\ & 0.29 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3 \\ & 3 \\ & 4 \\ & 4 \\ & 3 \\ & 2 \end{aligned}$ |
| $\begin{aligned} & j 294381 \\ & j 294382 \\ & j 294383 \\ & j 294384 \\ & 1294385 \end{aligned}$ | $\begin{aligned} & 3.31 \\ & 3.56 \\ & 3.54 \\ & 2.79 \\ & 2.99 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & \hline 0.61 \\ & 0.95 \\ & 1.09 \\ & 0.35 \\ & 0.74 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1.01 \\ & 1.05 \\ & 1.12 \\ & 0.85 \\ & 0.80 \end{aligned}$ | $\begin{aligned} & 1415 \\ & 1390 \\ & 1255 \\ & 1345 \\ & 1365 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 7 \\ & 2 \end{aligned}$ | $\begin{aligned} & 0.03 \\ & 0.04 \\ & 0.03 \\ & 0.03 \\ & 0.03 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 1 \\ & 1 \\ & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 1700 \\ & 1770 \\ & 1770 \\ & 1770 \\ & 1750 \end{aligned}$ | $\begin{aligned} & 3 \\ & 3 \\ & 4 \\ & 4 \\ & 4 \end{aligned}$ | $\begin{aligned} & 0.52 \\ & 0.52 \\ & 0.35 \\ & 0.90 \\ & 0.74 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 2 \\ & 3 \\ & 3 \\ & 1 \\ & 2 \\ & 2 \end{aligned}$ |
| $\begin{aligned} & J 294386 \\ & J 294387 \\ & j 294388 \\ & j 294389 \\ & 1294390 \end{aligned}$ | $\begin{aligned} & 4.13 \\ & 3.33 \\ & 2.70 \\ & 3.20 \\ & 3.01 \end{aligned}$ | $\begin{aligned} & 10 \\ & <10 \\ & 10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 1.02 \\ & 0.89 \\ & 1.03 \\ & 0.41 \\ & 0.51 \end{aligned}$ | $\begin{aligned} & 10 \\ & 20 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.94 \\ & 1.31 \\ & 0.74 \\ & 1.03 \\ & 0.90 \end{aligned}$ | $\begin{gathered} 1080 \\ 1600 \\ 557 \\ 1540 \\ 1265 \end{gathered}$ | $\begin{aligned} & 4 \\ & 2 \\ & 2 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 0.04 \\ & 0.03 \\ & 0.08 \\ & 0.03 \\ & 0.03 \end{aligned}$ | $\begin{gathered} 8 \\ 18 \\ 2 \\ 4 \\ 41 \end{gathered}$ | $\begin{gathered} 1680 \\ 2060 \\ 740 \\ 1720 \\ 1690 \end{gathered}$ | $\begin{aligned} & 21 \\ & 13 \\ & <2 \\ & 6 \\ & 4 \end{aligned}$ | $\begin{aligned} & 1.73 \\ & 1.30 \\ & 0.02 \\ & 0.52 \\ & 0.57 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 3 \\ & 4 \\ & 3 \\ & 2 \\ & 2 \\ & 2 \end{aligned}$ |
| $\begin{aligned} & \mathrm{J} 294391 \\ & \mathrm{~J} 294392 \\ & \mathrm{~J} 294393 \\ & \mathrm{~J} 294394 \\ & \mathrm{~J} 294395 \end{aligned}$ | $\begin{aligned} & 2.95 \\ & 2.89 \\ & 2.57 \\ & 3.18 \\ & 3.54 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.40 \\ & 0.35 \\ & 0.36 \\ & 0.34 \\ & 0.47 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.97 \\ & 0.84 \\ & 0.69 \\ & 1.04 \\ & 1.09 \end{aligned}$ | $\begin{aligned} & 1390 \\ & 1230 \\ & 1335 \\ & 1455 \\ & 1570 \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 6 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 0.03 \\ & 0.03 \\ & 0.03 \\ & 0.03 \\ & 0.03 \end{aligned}$ | $\begin{aligned} & <1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | 1780 1650 1540 1710 1720 | $\begin{gathered} \hline 4 \\ 8 \\ 16 \\ 6 \\ 5 \end{gathered}$ | $\begin{aligned} & 0.52 \\ & 0.45 \\ & 0.41 \\ & 0.43 \\ & 0.20 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \\ & 2 \\ & 2 \\ & 3 \end{aligned}$ |
| $\begin{aligned} & J 294396 \\ & J 294397 \\ & J 294398 \\ & J 294399 \\ & J 294400 \end{aligned}$ | $\begin{aligned} & 3.42 \\ & 3.35 \\ & 3.27 \\ & 5.14 \\ & 2.06 \end{aligned}$ | $\begin{aligned} & 10 \\ & <10 \\ & 10 \\ & 10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.30 \\ & 0.53 \\ & 1.19 \\ & 0.23 \\ & 0.19 \end{aligned}$ | $\begin{aligned} & 10 \\ & 10 \\ & 10 \\ & 10 \\ & <10 \end{aligned}$ | $\begin{aligned} & 1.10 \\ & 1.09 \\ & 1.07 \\ & 1.27 \\ & 0.13 \end{aligned}$ | $\begin{aligned} & 1325 \\ & 1225 \\ & 1175 \\ & 725 \\ & 445 \end{aligned}$ | $\begin{gathered} 1 \\ 1 \\ 1 \\ 3 \\ 40 \\ 10 \end{gathered}$ | $\begin{aligned} & 0.04 \\ & 0.03 \\ & 0.05 \\ & 0.08 \\ & 0.01 \end{aligned}$ | $\begin{gathered} \hline 2 \\ 2 \\ 3 \\ 18 \\ <1 \end{gathered}$ | $\begin{gathered} 1720 \\ 1770 \\ 1820 \\ 1150 \\ 630 \end{gathered}$ | $\begin{gathered} \hline 3 \\ 2 \\ <2 \\ 31 \\ 64 \end{gathered}$ | $\begin{aligned} & 0.07 \\ & 0.14 \\ & 0.12 \\ & 2.17 \\ & 1.87 \end{aligned}$ | $\begin{gathered} <2 \\ <2 \\ <2 \\ 8 \\ <2 \end{gathered}$ | $\begin{gathered} \hline 3 \\ 2 \\ 3 \\ 8 \\ <1 \end{gathered}$ |
| $\begin{aligned} & 1294401 \\ & 1294402 \\ & 1294403 \\ & 1294404 \\ & 1294405 \end{aligned}$ | $\begin{aligned} & 4.27 \\ & 2.51 \\ & 2.96 \\ & 3.27 \\ & 3.96 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & <1 \\ & 1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.29 \\ & 0.26 \\ & 0.35 \\ & 0.22 \\ & 1.30 \end{aligned}$ | $\begin{gathered} 10 \\ <10 \\ 10 \\ <10 \\ <10 \end{gathered}$ | $\begin{aligned} & 0.49 \\ & 0.50 \\ & 0.93 \\ & 0.98 \\ & 1.23 \end{aligned}$ | $\begin{aligned} & 841 \\ & 1220 \\ & 1565 \\ & 1320 \\ & 1360 \end{aligned}$ | $\begin{gathered} 15 \\ 9 \\ 1 \\ 2 \\ 2 \\ 43 \end{gathered}$ | $\begin{aligned} & 0.02 \\ & 0.01 \\ & 0.02 \\ & 0.03 \\ & 0.04 \end{aligned}$ | $\begin{gathered} 1 \\ 1 \\ 1 \\ 1 \\ <1 \\ 1 \end{gathered}$ | $\begin{aligned} & 990 \\ & 1300 \\ & 1760 \\ & 1610 \\ & 1980 \end{aligned}$ | $\begin{gathered} 118 \\ 198 \\ 6 \\ 3 \\ 4 \end{gathered}$ | $\begin{aligned} & 4.06 \\ & 1.92 \\ & 0.64 \\ & 0.67 \\ & 0.87 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 2 \\ & 3 \\ & 3 \\ & 3 \end{aligned}$ |
| $\begin{aligned} & J 294406 \\ & J 294407 \\ & J 294408 \\ & J 294409 \\ & J 294410 \end{aligned}$ | $\begin{aligned} & 1.98 \\ & 1.33 \\ & 1.85 \\ & 3.66 \\ & 3.48 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & 1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.50 \\ & 0.38 \\ & 0.49 \\ & 1.17 \\ & 0.99 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & \hline 0.43 \\ & 0.23 \\ & 0.36 \\ & 1.19 \\ & 1.07 \end{aligned}$ | $\begin{aligned} & 792 \\ & 361 \\ & 739 \\ & 1425 \\ & 17 \angle 5 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 0.05 \\ & 0.04 \\ & 0.03 \\ & 0.03 \\ & 0.04 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & 2 \\ & 2 \end{aligned}$ | $\begin{aligned} & \hline 670 \\ & 440 \\ & 610 \\ & 2010 \\ & 1690 \end{aligned}$ | $\begin{aligned} & 4 \\ & 3 \\ & 3 \\ & 6 \\ & 4 \end{aligned}$ | $\begin{aligned} & 0.18 \\ & 0.15 \\ & 0.80 \\ & 0.36 \\ & 0.47 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{gathered} 1 \\ c \\ <1 \\ 1 \\ 3 \\ 3 \end{gathered}$ |

CERTIFICATE OF ANALYSIS VA11000829


Project: Kenville Mine


Project: Kenville Mine

| Sample DescriptionMethod <br> Analyte <br> Units <br> LOR | $\begin{gathered} \text { ME- ICP41 } \\ \mathrm{Fe} \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- }[C P 41 \\ \text { Ga } \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ \mathrm{Hg} \\ \mathrm{ppm} \\ 1 \end{gathered}$ | $\begin{gathered} \text { ME- ICP41 } \\ K \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME. KCP4] } \\ \text { La } \\ \mathrm{ppm} \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- KCP41 } \\ \text { M9 } \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME. ICP4 } \\ \text { Mn } \\ \text { ppm } \\ 5 \end{gathered}$ | $\begin{gathered} \text { ME-ICP41 } \\ \text { Mo } \\ \text { ppm } \\ 1 \end{gathered}$ | $\begin{gathered} M E-C P 41 \\ \mathrm{Na} \\ \% \\ 0.01 \end{gathered}$ |  | $\begin{gathered} \text { ME- ICP41 } \\ P \\ \text { ppm } \\ 10 \end{gathered}$ | $\begin{gathered} \text { ME- [CP4 } \\ \text { Pb } \\ \text { ppm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME-KP41 } \\ 5 \\ \% \\ 0.01 \end{gathered}$ | $\begin{gathered} \text { ME- }[C P 41 \\ \text { Sb } \\ \text { Opm } \\ 2 \end{gathered}$ | $\begin{gathered} \text { ME. } \mid C P 41 \\ \text { Sc } \\ \text { ppm } \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \mathrm{J} 294411 \\ & \mathrm{~J} 294412 \\ & \mathrm{~J} 294413 \\ & \mathrm{~J} 294414 \\ & \mathrm{~J} 294415 \end{aligned}$ | $\begin{aligned} & 4.80 \\ & 3.45 \\ & 3.46 \\ & 7.30 \\ & 3.07 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \\ & <10 \\ & 10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \\ & <1 \\ & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.48 \\ & 0.82 \\ & 0.96 \\ & 0.42 \\ & 0.79 \end{aligned}$ | $\begin{aligned} & 20 \\ & <10 \\ & <10 \\ & <10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 0.83 \\ & 1.18 \\ & 1.00 \\ & 0.70 \\ & 1.09 \end{aligned}$ | $\begin{gathered} 356 \\ 2200 \\ 1990 \\ 1960 \\ 2330 \end{gathered}$ | $\begin{gathered} 258 \\ <1 \\ 3 \\ 140 \\ 1 \end{gathered}$ | $\begin{aligned} & 0.04 \\ & 0.05 \\ & 0.02 \\ & 0.03 \\ & 0.03 \end{aligned}$ | $\begin{gathered} 31 \\ 2 \\ 1 \\ <1 \\ 1 \end{gathered}$ | $\begin{gathered} 690 \\ 1900 \\ 1840 \\ 750 \\ 1810 \end{gathered}$ | $\begin{gathered} 71 \\ 6 \\ 3 \\ 2 \\ 4 \end{gathered}$ | $\begin{aligned} & 2.70 \\ & 1.06 \\ & 0.80 \\ & 1.54 \\ & 0.51 \end{aligned}$ | $\begin{aligned} & 16 \\ & <2 \\ & <2 \\ & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 6 \\ & 3 \\ & 2 \\ & 2 \\ & 3 \end{aligned}$ |
| J294416 <br> J 294417 <br> J294418 <br> 1294419 <br> 1294420 | $\begin{aligned} & 3.39 \\ & 1.63 \end{aligned}$ | $\begin{aligned} & <10 \\ & <10 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \end{aligned}$ | $\begin{aligned} & 0.56 \\ & 0.34 \end{aligned}$ | $\begin{gathered} 10 \\ <10 \end{gathered}$ | $\begin{aligned} & 1.08 \\ & 0.41 \end{aligned}$ | $\begin{gathered} 2110 \\ 894 \end{gathered}$ | $\begin{aligned} & 5 \\ & 1 \end{aligned}$ | $\begin{aligned} & 0.03 \\ & 0.04 \end{aligned}$ | $\begin{aligned} & <1 \\ & <1 \end{aligned}$ | $\begin{gathered} 1720 \\ 810 \end{gathered}$ | $\begin{aligned} & 6 \\ & 3 \end{aligned}$ | $\begin{aligned} & 0.84 \\ & 0.23 \end{aligned}$ | $\begin{aligned} & <2 \\ & <2 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \end{aligned}$ |
| $J 294421$ $J 294422$ 1294423 $j 294424$ $j 294425$ |  |  |  |  |  |  |  |  |  |  |  |  |  | 6 |  |
| $\begin{aligned} & 1294426 \\ & J 294427 \\ & J 294428 \\ & 1294429 \\ & 1294430 \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $J 294431$ $J 294432$ $J 294433$ $J 294434$ $J 294435$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & J 294436 \\ & J 294437 \\ & J 294438 \\ & J 294439 \\ & J 294440 \end{aligned}$ | 6.05 | $<10$ | <1 | 0.46 | <10 | 0.76 | 1910 | 3 | 0.02 | 2 | 1450 | 31 | 5.4 | $<2$ | 2 |
| $\begin{array}{\|l\|} \hline J 294441 \\ J 294442 \\ J 294443 \\ J 294444 \\ J 294447 \\ \hline \end{array}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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Page: 4-C
Total \# Pages: 4 ( A - C) Finalized Date: 14-JAN-2011 Account: ANSWRE

Project: Kenville Mine
CERTIFICATE OF ANALYSIS VA11000829



[^0]:    108.40 112.78 SHR DIOR Sheared diorite. Shear sub paralel tca; uniform shearing

[^1]:    Comments: Additional Au- AA23 check results for sample J 294262 are 0.145 ppm and 0.321 ppm .

[^2]:    Comments: Additional Au- AA23 check results for sample 1294262 are 0.145 ppm and 0.321 ppm

