

| DATA MATRIX WITH clr TRANSFORMATION | | | | | | | | | | | | |
|-------------------------------------|----------|-----------------|------------|--------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Original ID | Paper ID | UTM coordinates | | main heavy minerals (CLR data) | | | | | | | | |
| | | X | Y | clr.Am | clr.Mi | clr.And | clr.To | clr.Ga | clr.Py | clr.St | clr.Zi | clr.Ap |
| 6562 | P | 490354.99 | 4593506.13 | 0.4189 | 0.7032 | 1.0557 | 0.5828 | 0.7919 | -1.7921 | -0.1827 | -0.5393 | -1.0383 |
| 6564 | P | 486670.07 | 4593652.17 | 0.8091 | 0.3442 | 1.4563 | 1.3723 | 1.0475 | -3.5476 | 0.4777 | -0.7144 | -1.2451 |
| 6566 | P | 482637.53 | 4593613.26 | 1.4488 | -0.7360 | 2.0012 | 1.7581 | 1.2411 | -1.5470 | 1.0557 | -0.2252 | -4.9967 |
| 6609 | P | 484715.54 | 4588225.68 | 0.9676 | -1.2912 | 1.4169 | 0.6341 | 1.0804 | -1.6276 | 0.0210 | -0.5290 | -0.6721 |
| 6611 | P | 488619.68 | 4588416.33 | 0.5215 | -0.2841 | 1.5913 | 1.3809 | 0.9480 | -3.6958 | 0.0386 | 0.7489 | -1.2492 |
| 6613 | P | 492067.65 | 4588254.38 | 0.6604 | 0.1794 | 1.3715 | 1.3444 | 0.9705 | -3.3470 | 0.5449 | 0.5242 | -2.2484 |
| 6638 | P | 489860.57 | 4586354.32 | 0.9684 | -3.2224 | 1.7838 | 1.5107 | 1.6615 | -2.9436 | 0.8406 | -0.0533 | -0.5457 |
| 6640 | P | 486240.29 | 4586227.57 | 0.6278 | -0.8762 | 1.2871 | 0.9956 | 0.9155 | -2.0802 | 0.3177 | -0.4062 | -0.7809 |
| 6643 | P | 482174.27 | 4586337.17 | 1.6711 | 0.8707 | 1.9374 | 1.0113 | -1.4902 | -3.4730 | 0.3344 | -0.3270 | -0.5346 |
| 6676 | P | 492478.36 | 4582680.31 | 0.6101 | 0.0685 | 1.3649 | 1.0216 | 1.0216 | -3.3973 | 0.0367 | -0.1014 | -0.6247 |
| 6678 | P | 488659.62 | 4582631.99 | 0.7722 | -1.3873 | 1.4459 | 0.9953 | 0.8283 | -1.3873 | 0.2549 | -0.2887 | -1.2332 |
| 6680 | P | 484941.28 | 4582646.90 | 1.0968 | -0.3647 | 0.9736 | 0.7339 | 0.5263 | -1.3455 | -0.1416 | -0.7394 | -0.7394 |
| 6683 | P | 482044.92 | 4583458.87 | 0.8234 | -0.3662 | 1.1219 | 0.7164 | 0.7790 | -0.5203 | -0.7026 | -0.6381 | -1.2135 |
| 6689 | P | 486900.24 | 4580758.82 | 0.6977 | 0.3212 | 1.0966 | 0.1671 | 0.0981 | -1.1547 | -0.7492 | -0.4615 | -0.0152 |
| 6691 | P | 490415.22 | 4580612.36 | 0.6875 | -0.1533 | 1.5264 | 1.3304 | 1.2665 | -1.4526 | 0.3933 | -1.0471 | -2.5512 |
| 6694 | P | 494167.81 | 4581045.45 | 0.5728 | 0.6656 | 1.1865 | 0.8394 | 0.9875 | -2.6052 | 0.0573 | 0.2082 | -1.9121 |
| 6726 | P | 487324.59 | 4578933.20 | 0.8444 | -0.3701 | 0.8286 | 0.6173 | 0.6558 | -0.9166 | -0.1364 | -0.6064 | -0.9166 |
| 6735 | P | 490961.02 | 4576886.34 | 0.9200 | -1.3991 | 1.3838 | 0.5468 | 0.7409 | -0.6260 | 0.0280 | -0.0129 | -1.5815 |
| 6764 | P | 493208.86 | 4575133.16 | 0.9531 | -0.5084 | 1.3634 | 1.2834 | 0.4802 | -2.5878 | -0.1455 | -0.3906 | -0.4478 |
| 6766 | P | 489571.54 | 4575328.05 | 0.6676 | -1.7303 | 0.7120 | 0.4943 | 1.2778 | -0.8140 | -0.2263 | 0.2507 | -0.6317 |
| 6770 | P | 485961.39 | 4575204.96 | 1.0050 | -2.5359 | 0.9756 | 0.6829 | 1.4623 | 0.7222 | 0.1031 | -0.2847 | -2.1305 |
| 6772 | P | 482199.23 | 4575660.59 | 1.1854 | 1.7331 | 0.9171 | 0.2981 | 0.5039 | 0.4804 | -0.2128 | -1.6479 | -3.2573 |
| 6778 | P | 484577.55 | 4573607.83 | 1.0896 | -0.6892 | 0.8730 | 0.6776 | 1.0633 | 0.2116 | -0.1187 | -1.6447 | -1.4624 |
| 6780 | P | 488504.39 | 4573947.92 | 0.4927 | 0.5587 | 0.3461 | 0.2050 | 0.5152 | -0.8936 | -0.4583 | -0.2470 | -0.5189 |
| 6781 | P | 490349.01 | 4573646.32 | 0.6729 | -1.0068 | 1.0727 | 0.7385 | 0.5074 | -1.7952 | 0.0919 | 0.2329 | -0.5143 |
| 6783 | P | 493891.17 | 4573831.81 | 0.6869 | -0.9024 | 1.2724 | 1.2494 | 1.4772 | -3.5786 | 0.1962 | 0.4060 | -0.8071 |
| 6819 | P | 485409.83 | 4571467.82 | 1.4378 | 0.0833 | 1.3711 | 1.0719 | 1.1393 | -0.2914 | 0.0187 | -0.0503 | -4.7803 |
| 6822 | P | 480461.14 | 4571119.03 | 1.1940 | 0.3128 | 0.6591 | 0.9158 | 0.5831 | -0.5696 | -0.1641 | -0.5696 | -2.3614 |
| 6827 | P | 482109.50 | 4569654.81 | 1.1115 | -1.3872 | 1.0552 | 0.7331 | 0.9482 | 0.4320 | -0.4063 | -1.7926 | -0.6940 |
| 6831 | P | 487634.46 | 4569898.77 | 0.5271 | -0.4633 | 0.4682 | 0.1906 | 0.8429 | -0.5434 | 0.1072 | 0.1072 | -1.2365 |
| 8664 | A | 478783.81 | 4508174.07 | 1.8238 | -2.2538 | 1.6174 | 1.4839 | 1.2120 | 0.6366 | 0.1441 | -0.3079 | -4.3562 |
| 8671 | A | 480242.04 | 4506169.79 | 1.8849 | -1.3602 | 1.4123 | 1.1787 | 1.5114 | 1.2547 | 0.0261 | -1.3602 | -4.5477 |
| 8673 | A | 483710.14 | 4506061.68 | 1.3561 | -0.7542 | 1.7914 | 1.4971 | 0.9041 | 0.3445 | 0.1621 | -1.0418 | -4.2593 |
| 8689 | A | 474241.99 | 4502056.74 | 1.6661 | -3.0722 | 2.0591 | 1.7376 | 1.0093 | -0.9366 | 0.8552 | 0.4497 | -3.7682 |
| 8692 | A | 479476.85 | 4502137.08 | 1.8339 | -1.5160 | 0.7353 | 1.5975 | 1.1582 | 0.8354 | 0.2758 | -0.5997 | -4.3203 |
| 8792 | A | 485448.17 | 4500373.99 | 1.7620 | 0.0942 | 1.2574 | 1.6418 | 0.7361 | -1.5152 | 0.3566 | -0.0111 | -4.3218 |
| 8794 | A | 481888.28 | 4500227.78 | 1.8003 | -3.0529 | 1.8503 | 1.7743 | 1.2277 | 0.7758 | 0.7758 | -1.1702 | -3.9810 |
| 8881 | A | 479076.84 | 4490884.30 | 1.6349 | -3.0122 | 1.1700 | 1.2672 | 2.0144 | 1.7441 | 0.6104 | -0.6424 | -4.7863 |
| 8885 | A | 484555.46 | 4490925.78 | 1.6827 | -2.6761 | 2.4787 | 2.1316 | 2.0072 | -2.4117 | 1.4801 | -0.2145 | -4.4781 |
| 8971 | A | 470577.20 | 4500918.99 | 2.2604 | -1.2260 | 1.2017 | 0.3144 | 1.2589 | 1.3890 | 0.1603 | -0.9383 | -4.4204 |
| 8980 | A | 476051.18 | 4494454.96 | 1.5732 | -0.9723 | 1.1071 | 0.8602 | 1.5534 | 1.1071 | 0.2063 | -0.9723 | -4.4626 |
| 8985 | A | 473375.55 | 4492836.00 | 1.2218 | -1.5508 | 1.2526 | 1.0519 | 1.5403 | 1.5847 | 0.3951 | -1.1453 | -4.3503 |
| 8988 | A | 470006.47 | 4490970.98 | 1.5949 | -0.9891 | 0.8827 | 0.8435 | 1.7355 | 1.2081 | 0.1896 | -0.9891 | -4.4760 |
| 8989 | A | 471998.23 | 4491015.65 | 1.3883 | -3.2162 | 1.5861 | 0.9671 | 1.4489 | 1.5732 | 0.4075 | -1.3843 | -2.7706 |
| 8992 | A | 477142.51 | 4490887.11 | 1.8136 | -2.0984 | 1.5652 | 1.9620 | 1.6858 | 1.2689 | 0.0988 | -2.0984 | -4.1975 |
| 8994 | A | 480525.89 | 4489005.89 | 1.0696 | -0.7034 | 1.1598 | 1.5061 | 1.3188 | 0.5958 | 0.5333 | -0.5028 | -4.9772 |
| 8996 | A | 475396.75 | 4489141.30 | 0.9322 | -2.9860 | 1.7719 | 2.3698 | 1.3890 | 1.1658 | 0.3857 | -0.9136 | -4.1148 |
| 9000 | A | 468038.30 | 4489304.86 | 2.2352 | -1.6498 | 0.0242 | 0.5474 | 2.2074 | 2.1036 | -0.1093 | -0.5512 | -4.8076 |
| 9003 | A | 465183.22 | 4487313.40 | 2.0978 | -2.4665 | 1.3621 | 1.2947 | 1.9761 | 1.8773 | 0.1725 | -1.7734 | -4.5406 |
| 9004 | A | 467065.20 | 4487304.85 | 2.9400 | -2.1229 | -0.3558 | -0.3558 | 2.9400 | 3.2905 | -0.3558 | -2.4449 | -3.5353 |
| 9034 | A | 464314.24 | 4485649.38 | 2.3936 | -1.8549 | 0.9783 | 0.7100 | 2.2226 | 2.2722 | 0.0910 | -2.8612 | -3.9517 |
| 9036 | A | 461476.99 | 4485752.88 | 2.8096 | -2.1249 | 1.5887 | 0.9662 | 1.9356 | 2.1792 | -1.0263 | -2.1249 | -4.2031 |
| 9076 | A | 460737.78 | 4481652.70 | 2.0142 | -2.9890 | 0.9728 | 0.9038 | 2.1463 | 1.5969 | 0.3442 | -0.4825 | -4.5068 |
| 9079 | A | 455895.18 | 4482102.10 | 2.5613 | -0.4427 | 0.9010 | 0.5988 | 1.7545 | 1.8431 | 0.3305 | -3.2280 | -4.3185 |
| 9126 | A | 457910.55 | 4477523.95 | 2.3443 | -2.0563 | 1.0572 | 0.3861 | 1.3449 | 1.9140 | -0.1845 | -2.0563 | -2.7494 |
| 9129 | A | 452886.18 | 4477566.20 | 2.2408 | -2.9343 | 1.7132 | 0.7267 | 1.9123 | 1.4199 | 0.3437 | -0.9780 | -4.4443 |
| P27 | N | 487978.47 | 4382262.20 | 2.2871 | 2.3096 | 1.9041 | 1.7218 | 0.2947 | -3.2636 | 0.1124 | -1.0916 | -4.2745 |
| P26 | N | 489695.84 | 4382259.72 | 2.9580 | 3.8644 | 1.5552 | 1.0984 | -0.0543 | -2.2254 | -0.4597 | -2.8231 | -3.9136 |
| P25 | N | 492271.88 | 4382256.71 | 2.2730 | 3.9290 | 1.3791 | 0.7401 | 0.3606 | -2.5749 | -2.2044 | 0.3606 | -4.2631 |
| P24 | N | 493130.56 | 4382255.90 | 2.5595 | 3.2467 | 1.2582 | 1.0932 | 0.8636 | -2.9405 | -0.4910 | -0.9610 | -4.6287 |
| P20 | N | 492284.11 | 4394464.89 | 2.9855 | 3.9312 | 1.8434 | 1.3326 | 0.0517 | -2.4103 | -1.5578 | -2.5430 | -3.6334 |
| P21 | N | 489706.21 | 4390028.53 | 2.0293 | 2.8554 | 1.3810 | 0.8643 | 0.8345 | -3.0381 | -0.0230 | -0.1771 | -4.7263 |
| P22 | N | 488843.58 | 4386700.22 | 1.5305 | 0.9709 | 1.9264 | 1.7008 | 1.1940 | -3.5437 | 0.1152 | 0.8929 | -4.7870 |
| P23 | N | 487121.65 | 4383373.41 | 3.1762 | 4.8294 | 1.5233 | 1.0308 | -1.6921 | -1.7382 | -1.3671 | -2.3360 | -3.4264 |
| P28 | N | 486261.11 | 4382265.07 | 3.4076 | 4.4955 | 1.6158 | 0.3630 | -0.3301 | -1.8043 | -1.8530 | -2.4020 | -3.4925 |
| P29 | N | 486259.14 | 4381155.24 | 2.6186 | 5.0645 | 0.9446 | 0.3568 | -0.1540 | -1.6240 | -1.6726 | -2.2217 | -3.3122 |
| P30 | N | 485398.24 | 4380046.00 | 1.3795 | 2.4689 | 1.9069 | 2.0155 | -0.5945 | -3.3369 | 0.5686 | -2.2040 | -2.2040 |
| P32 | N | 483671.01 | 4375611.17 | -0.1636 | 1.1633 | 1.4910 | 1.9254 | 0.8268 | -3.8119 | 0.5296 | -0.3306 | -1.6299 |
| P34 | N | 481944.40 | 4372285.56 | -0.0993 | 1.1404 | 1.2405 | 2.7962 | 1.7224 | -2.8763 | 1.5282 | -0.8877 | -4.5645 |
| P33 | N | 481092.74 | 4375617.04 | 1.6203 | 3.5943 | 1.2476 | 2.1956 | 0.4526 | -2.5644 | -0.1070 | -2.1864 | -4.2526 |
| P31 | N | 479382.78 | 4378950.88 | 2.3877 | 3.8596 | 1.7636 | 1.4069 | -0.2513 | -2.5728 | -0.2513 | -2.6259 | -3.7164 |
| P15 | N | 483713.25 | 4395588.12 | 1.7068 | 3.4245 | 1.9010 | 1.6924 | 0.4028 | -2.9108 | 0.2309 | -1.8485 | -4.5990 |
| P16 | N | 482851.10 | 4393370.29 | 2.4468 | 3.9852 | 1.6095 | 1.1866 | -0.1484 | -2.1407 | -0.3716 | -2.7384 | -3.8289 |
| P17 | N | 481991.06 | 4392262.40 | 1.4081 | 3.1427 | 1.5622 | 1.2258 | 0.5326 | -3.1772 | -0.3837 | -1.0768 | -3.2336 |
| P18 | N | 480270.23 | 4390046.93 | 3.0490 | 4.3620 | 2.0232 | 0.9506 | -1.6144 | -1.9896 | -0.5158 | -2.5873 | -3.6778 |
| P19 | N | 478548.42 | 4387831.84 | 2.9585 | 4.3794 | 2.2512 | 1.0938 | -2.0288 | -1.6880 | -1.3041 | -2.2857 | -3.3762 |
| P35 | N | 471630.96 | 4373426.29 | 1.8637 | 4.6595 | 1.0371 | 1.6561 | -0.2157 | -2.0223 | -2.0794 | -1.9042 | -2.9947 |
| P36 | N | 477623.03 | 4364528.16 | 0.6271 | 0.0394 | 1.0326 | 2.8901 | 1.5869 | -3.2989 | 1.4257 | 0.0394 | -4.3422 |