

## Appendix A: The actual raw data of the selected sediment elements

| Paddocks (Interval Depth) | Fe %  | Ca %   | S (mg/kg) | Cl (mg/kg) | Cr (mg/kg) | Cu (mg/kg) | Zn (mg/kg) | U (mg/kg) | Na  | Hg  |
|---------------------------|-------|--------|-----------|------------|------------|------------|------------|-----------|-----|-----|
| WW1.1 (0-2 cm)            | 4.677 | 0.3716 | 5.03      | 0.85       | 0.0051     | 0.0464     | 0.642      | 0.005     | <14 | <14 |
| WW1.1 (2-10 cm)           | 9.491 | 0.1562 | 1.559     | 0.503      | 0.2914     | 0.048      | 0.4361     | 0.0012    | <14 | <14 |
| WW1.1 (10-30cm)           | 9.491 | 0.1562 | 1.559     | 0.503      | 0.2914     | 0.048      | 0.4361     | 0.0012    | <14 | <14 |
| WW1.2 (0-2cm)             | 6.546 | 0.1947 | 1.963     | 0.459      | 0.1435     | 0.0372     | 0.4341     | 0.0013    | <14 | <14 |
| WW1.2 (2-10cm)            | 8.388 | 0.1746 | 1.402     | 0.22       | 0.191      | 0.0483     | 0.3861     | 0.0022    | <14 | <14 |
| WW1.2 (10-30cm)           | 9.491 | 0.1562 | 1.559     | 0.503      | 0.2914     | 0.048      | 0.4361     | 0.0012    | <14 | <14 |
| WW1.3 (0-2 cm)            | 6.058 | 0.3069 | 4.282     | 1.087      | 0.1195     | 0.0483     | 0.617      | 0.0036    | <14 | <14 |
| WW1.3 (2-10cm)            | 7.008 | 0.1632 | 1.039     | 0.236      | 0.1441     | 0.0429     | 0.3285     | 0.0014    | <14 | <14 |
| WW1.3 (10-30 cm)          | 7.968 | 0.1637 | 1.225     | 0.209      | 0.1623     | 0.0424     | 0.3184     | 0.0013    | <14 | <14 |
| WW2.1 (0-2 cm)            | 6.074 | 0.1829 | 1.838     | 0.442      | 0.1106     | 0.0355     | 0.3909     | 0.0013    | <14 | <14 |
| WW2.1 (2-10cm)            | 7.429 | 0.1123 | 0.4457    | 0.154      | 0.2692     | 0.0435     | 0.2914     | 0.0013    | <14 | <14 |
| WW2.1 (10-30 cm)          | 6.02  | 0.1524 | 1.236     | 0.33       | 0.1497     | 0.0393     | 0.2915     | 0.0013    | <14 | <14 |
| WW2.2 (0-2 cm)            | 5.629 | 0.4297 | 3.044     | 0.791      | 0.1098     | 0.0409     | 0.95       | 0.0038    | <14 | <14 |
| WW2.2 (2-10 cm)           | 6.716 | 0.1375 | 1.05      | 0.182      | 0.1355     | 0.0348     | 0.3001     | 0.0013    | <14 | <14 |
| WW2.2 (10-30 cm)          | 5.995 | 0.1295 | 1.018     | 0.306      | 0.139      | 0.034      | 0.2097     | 0.0013    | <14 | <14 |
| WW2.3 (0-10 cm)           | 6.854 | 0.1499 | 1.222     | 0.406      | 0.1631     | 0.0405     | 0.3575     | 0.0019    | <14 | <14 |
| WW2.3 (2-10 cm)           | 10.89 | 0.1399 | 1.067     | 0.313      | 0.2048     | 0.0447     | 0.4172     | 0.0015    | <14 | <14 |
| WW2.3 (10-30 cm)          | 6.882 | 0.1329 | 1.226     | 0.366      | 0.13       | 0.039      | 0.4231     | 0.0014    | <14 | <14 |
| WW4.1 (0-2 cm)            | 7.321 | 0.2184 | 1.968     | 0.784      | 0.1331     | 0.0384     | 0.498      | 0.0013    | <14 | <14 |
| WW4.1 (2-10 cm)           | 8.286 | 0.1491 | 1.108     | 0.478      | 0.2203     | 0.035      | 0.523      | 0.0012    | <14 | <14 |
| WW4.1 (10-30 cm)          | 9.62  | 0.1093 | 0.6077    | 0.29       | 0.463      | 0.0242     | 0.558      | 0.0012    | <14 | <14 |
| WW4.2 (0-2cm)             | 9.95  | 0.3057 | 2.775     | 0.644      | 0.2654     | 0.0423     | 0.777      | 0.0014    | <14 | <14 |
| WW4.2 (2-10 cm)           | 7.847 | 0.1686 | 1.516     | 0.643      | 0.2057     | 0.0386     | 0.537      | 0.0013    | <14 | <14 |
| WW4.2 (10-30 cm)          | 8.793 | 0.1432 | 1.15      | 0.557      | 0.2153     | 0.0418     | 0.503      | 0.0014    | <14 | <14 |
| WW4.3 (0-2 cm)            | 5.747 | 0.2474 | 2.069     | 1.22       | 0.1227     | 0.0354     | 0.708      | 0.0018    | <14 | <14 |
| WW4.3 (2-10 cm)           | 7.06  | 0.1576 | 1.793     | 0.531      | 0.151      | 0.0405     | 0.638      | 0.0014    | <14 | <14 |
| WW4.3 (10-30 cm)          | 7.978 | 0.1352 | 1.654     | 0.47       | 0.1762     | 0.039      | 0.601      | 0.0014    | <14 | <14 |
| WW6.1 (0-2 cm)            | 6.279 | 0.1454 | 2.323     | 0.911      | 0.2309     | 0.0458     | 0.531      | 0.0018    | <14 | <14 |

| <b>Paddocks (Interval Depth)</b> | <b>Fe<br/>%</b> | <b>Ca<br/>%</b> | <b>S<br/>(mg/kg)</b> | <b>Cl<br/>(mg/kg)</b> | <b>Cr<br/>(mg/kg)</b> | <b>Cu<br/>(mg/kg)</b> | <b>Zn<br/>(mg/kg)</b> | <b>U<br/>(mg/kg)</b> | <b>Na</b> | <b>Hg</b> |
|----------------------------------|-----------------|-----------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------|-----------|
| WW6.1 (2-10 cm)                  | 7.23            | 0.1862          | 2.085                | 0.841                 | 0.1899                | 0.0394                | 0.532                 | 0.0013               | <14       | <14       |
| WW6.1 (10-30 cm)                 | 9.779           | 0.1607          | 1.901                | 0.559                 | 0.386                 | 0.0444                | 0.602                 | 0.0014               | <14       | <14       |
| WW6.2 (0-2 cm)                   | 6.417           | 0.3358          | 3.483                | 0.994                 | 0.1491                | 0.0399                | 0.5341                | 0.0013               | <14       | <14       |
| WW6.2 (2-10 cm)                  | 5.486           | 0.2861          | 2.985                | 0.745                 | 0.1357                | 0.0361                | 0.3437                | 0.0013               | <14       | <14       |
| WW6.2 (10-30 cm)                 | 7.124           | 0.1642          | 1.856                | 0.475                 | 0.2028                | 0.0401                | 0.441                 | 0.0013               | <14       | <14       |
| WW6.3 (0-2 cm)                   | 4.824           | 0.4261          | 3.821                | 1.076                 | 0.1454                | 0.0412                | 0.734                 | 0.0051               | <14       | <14       |
| WW6.3 (2-10 cm)                  | 4.996           | 0.5146          | 5.208                | 1.039                 | 0.1327                | 0.0322                | 0.601                 | 0.0012               | <14       | <14       |
| WW6.3 (10-30 cm)                 | 5.878           | 0.262           | 2.752                | 0.618                 | 0.1839                | 0.039                 | 0.5286                | 0.0013               | <14       | <14       |
| WW7.1 (0-2cm)                    | 8.327           | 0.3198          | 3.411                | 0.984                 | 0.214                 | 0.0519                | 0.677                 | 0.0089               | <14       | <14       |
| WW7.1 (2-10cm)                   | 8.298           | 0.1534          | 1.76                 | 0.493                 | 0.2327                | 0.035                 | 0.481                 | 0.0013               | <14       | <14       |
| WW7.1 (10-30 cm)                 | 8.067           | 0.1846          | 1.899                | 0.405                 | 0.2545                | 0.0363                | 0.485                 | 0.0013               | <14       | <14       |
| WW7.2 (0-2 cm)                   | 9.208           | 0.3427          | 2.87                 | 0.509                 | 0.2581                | 0.0453                | 0.545                 | 0.0029               | <14       | <14       |
| WW7.2 (2-10cm)                   | 13.86           | 0.1844          | 1.809                | 0.533                 | 0.3363                | 0.0494                | 0.663                 | 0.0014               | <14       | <14       |
| WW7.2 (10-30 cm)                 | 11.71           | 0.1696          | 1.809                | 0.568                 | 0.2536                | 0.0436                | 0.514                 | 0.0014               | <14       | <14       |
| WW7.3 (0-2 cm)                   | 6.82            | 0.2653          | 2.272                | 0.588                 | 0.277                 | 0.0363                | 0.7                   | 0.0035               | <14       | <14       |
| WW7.3 (2-10 cm)                  | 5.213           | 0.171           | 1.785                | 0.581                 | 0.1981                | 0.034                 | 0.5609                | 0.0037               | <14       | <14       |
| WW7.3 (10-30 cm)                 | 8.967           | 0.1748          | 1.147                | 0.314                 | 0.2772                | 0.0394                | 0.537                 | 0.0013               | <14       | <14       |

## Appendix B 1 : The actual raw data of the selected plant elements

| Paddocks and Plants              | Elements |       |          |        |          |        |        |        |     |     |
|----------------------------------|----------|-------|----------|--------|----------|--------|--------|--------|-----|-----|
|                                  | S        | Cl    | Ca       | Cr     | Fe       | Cu     | Zn     | U      | Na  | Hg  |
|                                  | mg/kg    | mg/kg | %        | mg/kg  | %        | mg/kg  | mg/kg  | mg/kg  |     |     |
| WW1 TOP P. AUSTRALIS SHOOTS      | 32.46    | 17.53 | 0.04608  | 0.0337 | 0.007785 | 0.0219 | 0.207  | 0.0111 | Na  | Hg  |
| WW1 MID 1 P. AUSTRALIS SHOOTS    | 23.17    | 19.9  | 0.02766  | 0.0051 | 0.001336 | 0.0167 | 0.0907 | 0.0046 | <14 | <14 |
| WW1 MID 2 P. AUSTRALIS SHOOTS    | 15.38    | 5.638 | 0.0176   | 0.0849 | 0.01224  | 0.0294 | 0.1316 | 0.0112 | <14 | <14 |
| WW1 BOTTOM P. AUSTRALIS SHOOTS   | 23.53    | 16.65 | 0.01723  | 0.0051 | 0.001054 | 0.0119 | 0.0635 | 0.0068 | <14 | <14 |
| WW1 TOP P. AUSTRALIS ROOTS       | 19.08    | 12.88 | 0.01112  | 0.0864 | 0.05383  | 0.079  | 0.3439 | 0.0211 | <14 | <14 |
| WW1 MID 1 P. AUSTRALIS ROOTS     | 36.31    | 19.56 | 0.03771  | 0.027  | 0.005932 | 0.0376 | 0.1301 | 0.0158 | <14 | <14 |
| WW1 MID 2 P. AUSTRALIS ROOTS     | 23.11    | 8.537 | 0.02025  | 0.1706 | 0.06536  | 0.2246 | 0.8138 | 0.0322 | <14 | <14 |
| WW1 BOTTOM P. AUSTRALIS ROOTS    | 26.62    | 14.61 | 0.01734  | 0.0856 | 0.05197  | 0.2995 | 0.6383 | 0.0285 | <14 | <14 |
| WW1 TOP P. AUSTRALIS RHIZOMES    | 19.35    | 12.56 | 0.02444  | 0.1206 | 0.04954  | 0.2453 | 0.4356 | 0.0189 | <14 | <14 |
| WW1 MID 1 P. Australis RHIZOMES  | 7.667    | 6.403 | 0.007154 | 0.0051 | 0.003271 | 0.0161 | 0.121  | 0.0084 | <14 | <14 |
| WW1 MID 2 P. AUSTRALIS RHIZOMES  | 20.4     | 16.75 | 0.00623  | 0.0138 | 0.01697  | 0.0302 | 0.2024 | 0.0085 | <14 | <14 |
| WW1 BOTTOM P. AUSTRALIS RHIZOMES | 11.53    | 17.76 | 0.003994 | 0.0052 | 0.009322 | 0.0156 | 0.1491 | 0.0073 | <14 | <14 |
| WW2 TOP P. AUSTRALIS SHOOTS      | 24.62    | 14.78 | 0.03022  | 0.01   | 0.004665 | 0.03   | 0.1262 | 0.0089 | <14 | <14 |
| WW2 MID 1 P. AUSTRALIS SHOOTS    | 16.7     | 6.51  | 0.0261   | 0.0687 | 0.009324 | 0.0259 | 0.1732 | 0.0099 | <14 | <14 |
| WW2 MID 2 P. AUSTRALIS SHOOTS    | 20.32    | 32.46 | 0.01679  | 0.0051 | 0.001526 | 0.0326 | 0.0968 | 0.0105 | <14 | <14 |
| WW2 BOTTOM P. AUSTRALIS SHOOTS   | 16.7     | 28.64 | 0.01807  | 0.0051 | 0.001767 | 0.0366 | 0.0869 | 0.0098 | <14 | <14 |
| WW2 TOP P. AUSTRALIS ROOTS       | 25.24    | 6.109 | 0.02288  | 0.1431 | 0.06705  | 0.205  | 0.4195 | 0.0326 | <14 | <14 |
| WW2 MID 1 P. AUSTRALIS ROOTS     | 18.73    | 9.492 | 0.01703  | 0.1575 | 0.05236  | 0.1354 | 0.4589 | 0.0183 | <14 | <14 |
| WW2 MID 2 P. AUSTRALIS ROOTS     | 30.47    | 12.25 | 0.02123  | 0.0901 | 0.04287  | 0.2438 | 0.277  | 0.0227 | <14 | <14 |
| WW2 BOTTOM P. AUSTRALIS ROOTS    | 30.16    | 18.36 | 0.01532  | 0.0881 | 0.03844  | 0.204  | 0.4437 | 0.0173 | <14 | <14 |
| WW2 TOP P. AUSTRALIS RHIZOMES    | 9.662    | 8.419 | 0.003394 | 0.0092 | 0.008459 | 0.0542 | 0.3588 | 0.0094 | <14 | <14 |
| WW2 MID 1 P. AUSTRALIS RHIZOMES  | 8.844    | 14.98 | 0.004439 | 0.0214 | 0.01859  | 0.0305 | 0.1577 | 0.0105 | <14 | <14 |
| WW2 MID 2 P.AUSTRALIS RHIZOMES   | 10.76    | 7.094 | 0.004916 | 0.0148 | 0.01281  | 0.0498 | 0.1813 | 0.0088 | <14 | <14 |
| WW2 BOTTOM P. AUSTRALIS RHIZOMES | 23.22    | 14.69 | 0.01065  | 0.0704 | 0.01822  | 0.0553 | 0.1368 | 0.0115 | <14 | <14 |
| WW4 TOP P. AUSTRALIS SHOOTS      | 17.36    | 21.07 | 0.01544  | 0.0051 | 0.001291 | 0.0242 | 0.1495 | 0.0085 | <14 | <14 |
| WW4 MID 1 P. AUSTRALIS SHOOTS    | 14.5     | 8.129 | 0.01242  | 0.1004 | 0.03963  | 0.2009 | 0.2485 | 0.0235 | <14 | <14 |

| Paddocks and Plants                | Elements |       |          |        |          |        |        |        |     |     |
|------------------------------------|----------|-------|----------|--------|----------|--------|--------|--------|-----|-----|
|                                    | S        | Cl    | Ca       | Cr     | Fe       | Cu     | Zn     | U      | Na  | Hg  |
|                                    | mg/kg    | mg/kg | %        | mg/kg  | %        | mg/kg  | mg/kg  | mg/kg  |     |     |
| WW4 Mid 2 P. AUSTRALIS SHOOTS      | 18.02    | 12.02 | 0.02056  | 0.137  | 0.04054  | 0.2304 | 0.442  | 0.0185 | <14 | <14 |
| WW4 BOTTOM P. AUSTRALIS SHOOTS     | 10.32    | 8.76  | 0.0182   | 0.0343 | 0.003728 | 0.0167 | 0.1361 | 0.0068 | <14 | <14 |
| WW4 TOP P. AUSTRALIS ROOTS         | 27.55    | 14.63 | 0.01666  | 0.0443 | 0.02043  | 0.177  | 0.5774 | 0.0173 | <14 | <14 |
| WW4 MID 1 P. AUSTRALIS ROOTS       | 14.5     | 8.129 | 0.01242  | 0.1004 | 0.03963  | 0.2009 | 0.2485 | 0.0235 | <14 | <14 |
| WW4 MID 2 P. AUSTRALIS ROOTS       | 25.53    | 10.48 | 0.01854  | 0.1166 | 0.04118  | 0.1615 | 0.596  | 0.0219 | <14 | <14 |
| WW4 BOTTOM P. AUSTRALIS ROOTS      | 18.94    | 8.872 | 0.01748  | 0.0643 | 0.03061  | 0.177  | 0.3228 | 0.0167 | <14 | <14 |
| WW4 TOP P. AUSTRALIS RHIZOMES      | 17.73    | 7.64  | 0.01656  | 0.0136 | 0.01083  | 0.0329 | 0.1205 | 0.0094 | <14 | <14 |
| WW4 MID 1 P. P. AUSTRALIS RHIZOMES | 7.785    | 8.884 | 0.003498 | 0.026  | 0.01386  | 0.0442 | 0.1923 | 0.0079 | Na  | Hg  |
| WW4 MID 2 P. AUSTRALIS RHIZOMES    | 12.53    | 7.471 | 0.005752 | 0.0325 | 0.0152   | 0.0586 | 0.4001 | 0.0138 | <14 | <14 |
| WW4 BOTTOM P. AUSTRALIS RHIZOMES   | 16.2     | 11.92 | 0.0127   | 0.0649 | 0.01422  | 0.0837 | 0.3891 | 0.0108 | <14 | <14 |
| WW6 TOP P. AUSTRALIS SHOOTS        | 47.06    | 5.677 | 0.08251  | 0.103  | 0.0153   | 0.036  | 0.1603 | 0.0126 | <14 | <14 |
| WW6 MID 1 P. AUSTRALIS SHOOTS      | 23.68    | 25.54 | 0.01876  | 0.0051 | 0.002673 | 0.0326 | 0.1644 | 0.0085 | <14 | <14 |
| WW6 MID 2. P. AUSTRALIS SHOOTS     | 30.83    | 26.67 | 0.01871  | 0.0051 | 0.002516 | 0.0241 | 0.0959 | 0.0088 | <14 | <14 |
| WW6 BOTTOM P. AUSTRALIS SHOOTS     | 24.5     | 15.92 | 0.01262  | 0.0737 | 0.0398   | 0.1011 | 0.2503 | 0.0141 | <14 | <14 |
| WW6 TOP P. AUSTRALIS ROOTS         | 17.2     | 8.602 | 0.01524  | 0.0929 | 0.05908  | 0.1618 | 0.2494 | 0.0489 | <14 | <14 |
| WW6 MID 1 P. AUSTRALIS ROOTS       | 24.74    | 16.2  | 0.01201  | 0.0734 | 0.03851  | 0.0892 | 0.207  | 0.0116 | <14 | <14 |
| WW6 MID 2 P. AUSTRALIS ROOTS       | 21.61    | 11.78 | 0.01918  | 0.1765 | 0.05856  | 0.1373 | 0.2909 | 0.0226 | <14 | <14 |
| WW6 BOTTOM P. AUSTRALIS ROOTS      | 34.04    | 34.31 | 0.02954  | 0.0073 | 0.003778 | 0.024  | 0.1314 | 0.0101 | <14 | <14 |
| WW6 TOP P. AUSTRALIS RHIZOMES      | 13.19    | 16.91 | 0.004357 | 0.0051 | 0.01605  | 0.0265 | 0.2104 | 0.0107 | <14 | <14 |
| WW6 MID 1 P. AUSTRALIS RHIZOMES    | 12.44    | 10.13 | 0.004883 | 0.0183 | 0.01255  | 0.0414 | 0.1886 | 0.0108 | <14 | <14 |
| WW6 MID 2 P. AUSTRALIS RHIZOMES    | 15.29    | 10.67 | 0.005456 | 0.0303 | 0.0108   | 0.0414 | 0.1366 | 0.0116 | <14 | <14 |
| WW6 BOTTOM P. AUSTRALIS RHIZOMES   | 13.05    | 4.927 | 0.006625 | 0.0688 | 0.02204  | 0.0438 | 0.1427 | 0.0072 | <14 | <14 |
| WW7 TOP P. AUSTRALIS SHOOTS        | 31.65    | 5.677 | 0.08251  | 0.103  | 0.0153   | 0.036  | 0.1603 | 0.0126 | <14 | <14 |
| WW7 MID 1 P. AUSTRALIS SHOOTS      | 24.25    | 25.54 | 0.01876  | 0.0051 | 0.002673 | 0.0326 | 0.1644 | 0.0085 | <14 | <14 |
| WW7 MID 2 P. AUSTRALIS SHOOTS      | 26.18    | 26.67 | 0.01871  | 0.0051 | 0.002516 | 0.0241 | 0.0959 | 0.0088 | <14 | <14 |
| WW7 BOTTOM P. AUSTRALIS SHOOTS     | 29.65    | 15.92 | 0.01262  | 0.0737 | 0.0398   | 0.1011 | 0.2503 | 0.0141 | <14 | <14 |
| WW7 TOP P. P. AUSTRALIS ROOTS      | 15.76    | 8.602 | 0.01524  | 0.0929 | 0.05908  | 0.1618 | 0.2494 | 0.0489 | <14 | <14 |
| WW7 MID 1 P. AUSTRALIS ROOTS       | 19.57    | 16.2  | 0.01201  | 0.0734 | 0.03851  | 0.0892 | 0.207  | 0.0116 | <14 | <14 |

| Paddocks and Plants             | Elements |       |          |        |          |        |        |        |     |     |
|---------------------------------|----------|-------|----------|--------|----------|--------|--------|--------|-----|-----|
|                                 | S        | Cl    | Ca       | Cr     | Fe       | Cu     | Zn     | U      | Na  | Hg  |
|                                 | mg/kg    | mg/kg | %        | mg/kg  | %        | mg/kg  | mg/kg  | mg/kg  |     |     |
| WW7 MID 2 P. AUSTRALIS ROOTS    | 26.52    | 11.78 | 0.01918  | 0.1765 | 0.05856  | 0.1373 | 0.2909 | 0.0226 | <14 | <14 |
| WW7 BOTTOM P. AUSTRALIS ROOTS   | 23.64    | 34.31 | 0.02954  | 0.0073 | 0.003778 | 0.024  | 0.1314 | 0.0101 | <14 | <14 |
| WW7 TOP P. AUSTRALIS RHIZOMES   | 20       | 16.91 | 0.004357 | 0.0051 | 0.01605  | 0.0265 | 0.2104 | 0.0107 | <14 | <14 |
| WW7 MID 1 P. AUSTRALIS RHIZOMES | 12.59    | 10.13 | 0.004883 | 0.0183 | 0.01255  | 0.0414 | 0.1886 | 0.0108 | <14 | <14 |
| WW7 MID 2 P. AUSTRALIS RHIZOMES | 7.86     | 10.67 | 0.005456 | 0.0303 | 0.0108   | 0.0414 | 0.1366 | 0.0116 | <14 | <14 |
| WW7 BOTTOM P. AUST RHIZOMES     | 9.446    | 4.927 | 0.006625 | 0.0688 | 0.02204  | 0.0438 | 0.1427 | 0.0072 | <14 | <14 |
| WW1 TOP SCHOENO SHOOTS          | 31.08    | 27.2  | 2.202    | 0.0051 | 0.04661  | 0.021  | 0.0138 | 0.0118 | <14 | <14 |
| WW1 MID 1 SCHOENO SHOOTS        | 30.89    | 19.95 | 3.393    | 0.0209 | 0.006252 | 0.041  | 0.011  | 0.0106 | <14 | <14 |
| WW1 MID 2 SCHOENO SHOOTS        | 22.47    | 17    | 2.179    | 0.0077 | 0.003355 | 0.0232 | 0.0119 | 0.0104 | <14 | <14 |
| WW1 BOTTOM SCHOENO SHOOTS       | 20.87    | 15.07 | 1.404    | 0.1785 | 0.004013 | 0.0805 | 0.0485 | 0.0147 | <14 | <14 |
| WW1 TOP SCHOENO. ROOTS          | 23.56    | 14.81 | 2.301    | 0.0837 | 0.1003   | 0.0888 | 0.0234 | 0.0196 | <14 | <14 |
| WW1 MID 1 SCHOENO. ROOTS        | 22.62    | 7.223 | 2.681    | 0.0927 | 0.04961  | 0.0806 | 0.0159 | 0.0139 | <14 | <14 |
| WW1 MID 2 SCHOENO. ROOTS        | 18.93    | 4.492 | 1.397    | 0.0897 | 0.07733  | 0.0566 | 0.0427 | 0.0136 | <14 | <14 |
| WW1 BOTTOM SCHOENO. ROOTS       | 22.86    | 15.93 | 1.595    | 0.0979 | 0.05338  | 0.095  | 0.0175 | 0.0131 | <14 | <14 |
| WW1 TOP SCHOENO. RHIZOMES       | 17.48    | 5.865 | 0.9776   | 0.043  | 0.01589  | 0.0463 | 0.0342 | 0.0057 | <14 | <14 |
| WW1 MID 1 SCHOENO. RHIZOMES     | 19.64    | 3.428 | 1.179    | 0.1053 | 0.02924  | 0.0428 | 0.0702 | 0.0086 | <14 | <14 |
| WW1 MID 2 SCHOENO RHIZOMES      | 23.94    | 4.954 | 1.916    | 0.0898 | 0.03117  | 0.0448 | 0.0492 | 0.0092 | <14 | <14 |
| WW1 BOTTOM SCHOENO. RHIZOMES    | 28.77    | 21.93 | 1.661    | 0.1006 | 0.02507  | 0.0527 | 0.0257 | 0.0128 | <14 | <14 |
| WW2 TOP SCHOENO. SHOOTS         | 29.68    | 19.84 | 3.407    | 0.0324 | 0.007469 | 0.029  | 0.0166 | 0.0113 | <14 | <14 |
| WW2 MID 1 SCHOENO. SHOOTS       | 24.41    | 23.08 | 2.541    | 0.0516 | 0.001974 | 0.0326 | 0.0054 | 0.006  | <14 | <14 |
| WW2 MID 2 SCHOENO. SHOOTS       | 37.83    | 18.99 | 4.844    | 0.0518 | 0.004198 | 0.0297 | 0.0096 | 0.0095 | <14 | <14 |
| WW2 BOTTOM SCHOENO SHOOT        | 26.96    | 23.62 | 2.973    | 0.0061 | 0.00501  | 0.0257 | 0.0112 | 0.0092 | <14 | <14 |
| WW2 TOP SCHOENO. ROOTS          | 35.71    | 21.56 | 1.427    | 0.1035 | 0.05811  | 0.1404 | 0.0201 | 0.0186 | <14 | <14 |
| WW2 MID 1 SCHOENO. ROOTS        | 16.85    | 7.282 | 1.828    | 0.0733 | 0.0534   | 0.1714 | 0.0247 | 0.0276 | <14 | <14 |
| WW2 MID 2 SCHOENO. ROOTS        | 20.35    | 9.573 | 2.183    | 0.0676 | 0.04833  | 0.1373 | 0.0127 | 0.0213 | <14 | <14 |
| WW2 BOTTOM SCHOENO. ROOTS       | 20.31    | 25.73 | 1.894    | 0.0437 | 0.03607  | 0.057  | 0.008  | 0.01   | <14 | <14 |
| WW2 TOP SCHOENO. RHIZOMES       | 20.86    | 9.449 | 1.486    | 0.1842 | 0.03507  | 0.0935 | 0.0399 | 0.0146 | <14 | <14 |
| WW2 MID 1 SCHOENO. RHIZOMES     | 24.7     | 8.471 | 1.955    | 0.1707 | 0.03671  | 0.0774 | 0.04   | 0.0137 | <14 | <14 |

| Paddocks and Plants          | Elements |       |        |        |          |        |        |        |     |     |
|------------------------------|----------|-------|--------|--------|----------|--------|--------|--------|-----|-----|
|                              | S        | Cl    | Ca     | Cr     | Fe       | Cu     | Zn     | U      | Na  | Hg  |
|                              | mg/kg    | mg/kg | %      | mg/kg  | %        | mg/kg  | mg/kg  | mg/kg  |     |     |
| WW2 MID 2 SCHOENO. RHIZOMES  | 10.52    | 1.834 | 0.6049 | 0.1178 | 0.0308   | 0.0436 | 0.1062 | 0.0022 | <14 | <14 |
| WW2 BOTTOM SCHOENO. RHIZOMES | 19.46    | 5.253 | 1.355  | 0.0449 | 0.07364  | 0.0635 | 0.0287 | 0.018  | <14 | <14 |
| WW4 TOP SCHOENO. SHOOTS      | 46.2     | 17.51 | 4.871  | 0.0387 | 0.01213  | 0.0255 | 0.0183 | 0.0093 | <14 | <14 |
| WW4 MID 1 SCHOENO.SHOOTS     | 58.72    | 26.85 | 7.565  | 0.046  | 0.01073  | 0.0383 | 0.0188 | 0.012  | <14 | <14 |
| WW4 MID 2 SCHOENO.SHOOTS     | 36.87    | 21.69 | 3.983  | 0.0073 | 0.005517 | 0.0214 | 0.0176 | 0.0114 | <14 | <14 |
| WW4 BOTTOM SCHOENO.SHOOTS    | 26.56    | 20.73 | 2.858  | 0.0024 | 0.00246  | 0.0214 | 0.0066 | 0.0065 | <14 | <14 |
| WW4 TOP SCHOENO. ROOTS       | 15.8     | 16.97 | 2.485  | 0.0723 | 0.03452  | 0.1133 | 0.0129 | 0.0096 | <14 | <14 |
| WW4 MID 1 SCHOENO. ROOTS     | 19.97    | 11.05 | 2.138  | 0.0959 | 0.03426  | 0.2818 | 0.0162 | 0.0155 | <14 | <14 |
| WW4 MID 2 SCHOENO. ROOTS     | 18.73    | 12.72 | 2.277  | 0.0866 | 0.03011  | 0.1584 | 0.0221 | 0.0133 | <14 | <14 |
| WW4 BOTTOM SCHOENO. ROOTS    | 17.86    | 17.75 | 2.839  | 0.0857 | 0.03006  | 0.1285 | 0.0125 | 0.0147 | <14 | <14 |
| WW4 TOP SHOENO. RHIZOMES     | 24.73    | 6.819 | 1.583  | 0.1505 | 0.03648  | 0.0801 | 0.0578 | 0.0127 | <14 | <14 |
| WW4 MID 1 SCHOENO. RHIZOMES  | 20.09    | 9.346 | 1.253  | 0.0794 | 0.02442  | 0.0996 | 0.0362 | 0.0129 | <14 | <14 |
| WW4 MID 2 SCHOENO. RHIZOMES  | 13.49    | 3.016 | 0.6681 | 0.0352 | 0.0146   | 0.0511 | 0.0297 | 0.002  | <14 | <14 |
| WW4 BOTTOM SCHOENO. RHIZOMES | 17.49    | 7.662 | 0.7543 | 0.061  | 0.02126  | 0.0736 | 0.0276 | 0.0067 | <14 | <14 |
| WW6 TOP SCHOENO.SHOOTS       | 34.34    | 15.34 | 4.765  | 0.0262 | 0.005325 | 0.0216 | 0.0087 | 0.0067 | <14 | <14 |
| WW6 MID 1 SCHOENO.SHOOTS     | 38.46    | 32.38 | 3.18   | 0.0248 | 0.008242 | 0.0314 | 0.0175 | 0.0109 | <14 | <14 |
| WW6 MID 2 SCHOENO. SHOOTS    | 23.5     | 28.75 | 2.038  | 0.0104 | 0.004417 | 0.0276 | 0.011  | 0.0062 | <14 | <14 |
| WW6 BOTTOM SCHOENO. SHOOTS   | 41.7     | 38.53 | 2.657  | 0.0227 | 0.008584 | 0.0349 | 0.0175 | 0.011  | <14 | <14 |
| WW6 TOP SCHOENO. ROOTS       | 16.9     | 12.11 | 1.198  | 0.2792 | 0.05035  | 0.0744 | 0.0515 | 0.0105 | <14 | <14 |
| WW6 MID 1 SCHOENO. ROOTS     | 20.08    | 16.37 | 1.358  | 0.0732 | 0.02308  | 0.0578 | 0.0207 | 0.0116 | <14 | <14 |
| WW6 MID 2 SCHOENO. ROOTS     | 20.58    | 17.55 | 1.408  | 0.1304 | 0.03714  | 0.0608 | 0.0153 | 0.0085 | <14 | <14 |
| WW6 BOTTOM SCHOENO. ROOTS    | 31.22    | 23.38 | 1.942  | 0.0531 | 0.02802  | 0.1131 | 0.0139 | 0.0131 | <14 | <14 |
| WW6 TOP SCHOENO. RHIZOMES    | 22.64    | 5.817 | 0.7229 | 0.1039 | 0.02178  | 0.0484 | 0.0549 | 0.0065 | <14 | <14 |
| WW6 MID 1 SCHOENO. RHIZOMES  | 28.69    | 17.77 | 1.37   | 0.1662 | 0.03486  | 0.0646 | 0.0459 | 0.0121 | <14 | <14 |
| WW6 MID 2 SCHOENO RHIZOMES   | 22.47    | 9.807 | 0.8607 | 0.0459 | 0.01758  | 0.0575 | 0.0363 | 0.008  | <14 | <14 |
| WW6 BOTTOM SCHOENO. RHIZOMES | 23.89    | 14.59 | 1.464  | 0.0351 | 0.01876  | 0.0492 | 0.023  | 0.0079 | <14 | <14 |

Appendix B 2: The calculation of elemental mass and concentration in vegetation species

| Paddock and Plants                  |                    |                     | Estimated<br>Total<br>number of<br>plants in<br>paddock | S     | Pollutant<br>Mass<br>(mg) | Average<br>plants<br>compartmen<br>t pollutant<br>mass (mg)<br>within a<br>paddock<br>with<br>number of<br>plots | Total<br>Average<br>pollutant<br>mass<br>(mg)<br>within<br>paddock | Total<br>pollutan<br>t mass<br>per<br>plant<br>(N=4)<br>within a<br>paddoc<br>k | weighted<br>concentration<br>per plant<br>(N=4) within a<br>paddock | weighted<br>concentratio<br>n per kg of<br>Shoot, Roots<br>and<br>Rhizomes<br>(N=3) within<br>a paddock | CI    | Total<br>pollutant<br>mass (mg) | Average<br>plants<br>compartment<br>pollutant<br>mass (mg)<br>within a<br>paddock with<br>number of<br>plots | Total<br>Average<br>pollutant<br>mass (mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant (N=4)<br>within a<br>paddock | weighted<br>concentratio<br>n per plant<br>(N=4) within<br>a paddock | weighted<br>concentratio<br>n per kg of<br>Shoot, Roots<br>and<br>Rhizomes<br>(N=3) within<br>a paddock |
|-------------------------------------|--------------------|---------------------|---------------------------------------------------------|-------|---------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------|---------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|                                     | Dry<br>Mass<br>(g) | Dry<br>Mass<br>(kg) |                                                         | mg/kg |                           |                                                                                                                  |                                                                    |                                                                                 | mg/kg                                                               |                                                                                                         | mg/kg |                                 |                                                                                                              |                                                                 |                                                                      | mg/kg                                                                |                                                                                                         |
| WW1 TOP P. AUSTRALIS<br>SHOOTS      | 3.34               | 0.00334             | 150                                                     | 32.46 | 0.1084                    | 30.6742                                                                                                          | 47.3529                                                            | 0.2226                                                                          | 23.9832                                                             | 21.9415                                                                                                 | 17.53 | 0.0585502                       | 20.06745375                                                                                                  | 30.9041801                                                      | 0.1340942                                                            | 14.449806                                                            | 14.3544                                                                                                 |
| WW1 MID 1 P. AUSTRALIS<br>SHOOTS    | 8.51               | 0.00851             |                                                         | 23.17 | 0.1972                    |                                                                                                                  |                                                                    | 0.3041                                                                          | 22.1156                                                             |                                                                                                         | 19.90 | 0.169349                        |                                                                                                              |                                                                 | 0.23355653                                                           | 16.9859295                                                           |                                                                                                         |
| WW1 MID 2 P. AUSTRALIS<br>SHOOTS    | 10.55              | 0.01055             |                                                         | 15.38 | 0.1623                    |                                                                                                                  |                                                                    | 0.3098                                                                          | 17.9613                                                             |                                                                                                         | 5.64  | 0.0594809                       |                                                                                                              |                                                                 | 0.13868964                                                           | 8.03997913                                                           |                                                                                                         |
| WW1 BOTTOM P. AUSTRALIS<br>SHOOTS   | 14.88              | 0.01488             |                                                         | 23.53 | 0.3501                    |                                                                                                                  |                                                                    | 0.4263                                                                          | 22.2704                                                             |                                                                                                         | 16.65 | 0.247752                        |                                                                                                              |                                                                 | 0.3177711                                                            | 16.6024608                                                           |                                                                                                         |
| WW1 TOP P. AUSTRALIS<br>ROOTS       | 2.93               | 0.00293             | 150                                                     | 19.08 | 0.0559                    | 10.5397                                                                                                          |                                                                    |                                                                                 |                                                                     | 25.3892                                                                                                 | 12.88 | 0.0377384                       | 5.391894                                                                                                     |                                                                 |                                                                      |                                                                      | 12.9886                                                                                                 |
| WW1 MID 1 P. AUSTRALIS<br>ROOTS     | 2.33               | 0.00233             |                                                         | 36.31 | 0.0846                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 19.56 | 0.0455748                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW1 MID 2 P. AUSTRALIS<br>ROOTS     | 4.02               | 0.00402             |                                                         | 23.11 | 0.0929                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 8.54  | 0.0343187                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW1 BOTTOM P. AUSTRALIS<br>ROOTS    | 1.79               | 0.00179             |                                                         | 26.62 | 0.0476                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 14.61 | 0.0261519                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW1 TOP P. AUSTRALIS<br>RHIZOMES    | 3.01               | 0.00301             | 150                                                     | 19.35 | 0.0582                    | 6.1390                                                                                                           |                                                                    |                                                                                 |                                                                     | 14.7882                                                                                                 | 12.56 | 0.0378056                       | 5.444832375                                                                                                  |                                                                 |                                                                      |                                                                      | 13.1161                                                                                                 |
| WW1 MID 1 P. Australis<br>RHIZOMES  | 2.91               | 0.00291             |                                                         | 7.67  | 0.0223                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 6.40  | 0.0186327                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW1 MID 2 P. AUSTRALIS<br>RHIZOMES  | 2.68               | 0.00268             |                                                         | 20.40 | 0.0547                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 16.75 | 0.04489                         |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW1 BOTTOM P. AUSTRALIS<br>RHIZOMES | 2.47               | 0.00247             |                                                         | 11.53 | 0.0285                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 17.76 | 0.0438672                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW2 TOP P. AUSTRALIS<br>SHOOTS      | 13.05              | 0.01305             | 300                                                     | 24.62 | 0.3213                    | 46.0378                                                                                                          | 75.6157                                                            | 0.4358                                                                          | 22.2570                                                             | 20.9286                                                                                                 | 14.78 | 0.192879                        | 40.11693                                                                                                     | 55.33                                                           | 0.24023207                                                           | 12.2692579                                                           | 18.2370                                                                                                 |
| WW2 MID 1 P. AUSTRALIS<br>SHOOTS    | 6.6                | 0.0066              |                                                         | 16.70 | 0.1102                    |                                                                                                                  |                                                                    | 0.2004                                                                          | 15.4739                                                             |                                                                                                         | 6.51  | 0.042966                        |                                                                                                              |                                                                 | 0.11921028                                                           | 9.20542703                                                           |                                                                                                         |
| WW2 MID 2 P. AUSTRALIS<br>SHOOTS    | 5.71               | 0.00571             |                                                         | 20.32 | 0.1160                    |                                                                                                                  |                                                                    | 0.2267                                                                          | 21.6693                                                             |                                                                                                         | 32.46 | 0.1853466                       |                                                                                                              |                                                                 | 0.23461422                                                           | 22.4296577                                                           |                                                                                                         |
| WW2 BOTTOM P. AUSTRALIS<br>SHOOTS   | 3.97               | 0.00397             |                                                         | 16.70 | 0.0663                    |                                                                                                                  |                                                                    | 0.1999                                                                          | 22.8943                                                             |                                                                                                         | 28.64 | 0.1137008                       |                                                                                                              |                                                                 | 0.1958096                                                            | 22.4295074                                                           |                                                                                                         |
| WW2 TOP P. AUSTRALIS<br>ROOTS       | 3.3                | 0.0033              | 300                                                     | 25.24 | 0.0833                    | 25.4905                                                                                                          |                                                                    |                                                                                 |                                                                     | 25.9842                                                                                                 | 6.11  | 0.0201597                       | 11.3071785                                                                                                   |                                                                 |                                                                      |                                                                      | 11.5262                                                                                                 |
| WW2 MID 1 P. AUSTRALIS<br>ROOTS     | 3.44               | 0.00344             |                                                         | 18.73 | 0.0644                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 9.49  | 0.0326525                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |

| Paddock and Plants                    |                    |                     | Estimated<br>Total<br>number of<br>plants in<br>paddock | S     | Pollutant<br>Mass<br>(mg) | Average<br>plants<br>compartmen<br>t pollutant<br>mass (mg)<br>within a<br>paddock<br>with<br>number of<br>plots | Total<br>Average<br>pollutant<br>mass<br>(mg)<br>within<br>paddock | Total<br>pollutan<br>t mass<br>per<br>plant<br>(N=4)<br>within a<br>paddoc<br>k | weighted<br>concentration<br>per plant<br>(N=4) within a<br>paddock | weighted<br>concentratio<br>n per kg of<br>Shoot, Roots<br>and<br>Rhizomes<br>(N=3) within<br>a paddock | CI    | Total<br>pollutant<br>mass (mg) | Average<br>plants<br>compartment<br>pollutant<br>mass (mg)<br>within a<br>paddock with<br>number of<br>plots | Total<br>Average<br>pollutant<br>mass (mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant (N=4)<br>within a<br>paddock | weighted<br>concentratio<br>n per plant<br>(N=4) within<br>a paddock | weighted<br>concentratio<br>n per kg of<br>Shoot, Roots<br>and<br>Rhizomes<br>(N=3) within<br>a paddock |
|---------------------------------------|--------------------|---------------------|---------------------------------------------------------|-------|---------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------|---------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|                                       | Dry<br>Mass<br>(g) | Dry<br>Mass<br>(kg) |                                                         | mg/kg |                           |                                                                                                                  |                                                                    |                                                                                 | mg/kg                                                               |                                                                                                         | mg/kg |                                 |                                                                                                              |                                                                 |                                                                      | mg/kg                                                                |                                                                                                         |
| WW2 MID 2 P. AUSTRALIS<br>ROOTS       | 3.02               | 0.00302             |                                                         | 30.47 | 0.0920                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 12.25 | 0.036995                        |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW2 BOTTOM P. AUSTRALIS<br>ROOTS      | 3.32               | 0.00332             |                                                         | 30.16 | 0.1001                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 18.36 | 0.0609552                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW2 TOP P. AUSTRALIS<br>RHIZOMES      | 3.23               | 0.00323             | 150                                                     | 9.66  | 0.0312                    | 4.0873                                                                                                           |                                                                    |                                                                                 |                                                                     | 11.7074                                                                                                 | 8.42  | 0.0271934                       | 3.907927125                                                                                                  |                                                                 |                                                                      |                                                                      | 11.1935                                                                                                 |
| WW2 MID 1 P. AUSTRALIS<br>RHIZOMES    | 2.91               | 0.00291             |                                                         | 8.84  | 0.0257                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 14.98 | 0.0435918                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW2 MID 2 P.AUSTRALIS<br>RHIZOMES     | 1.73               | 0.00173             |                                                         | 10.76 | 0.0186                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 7.09  | 0.0122726                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW2 BOTTOM P. AUSTRALIS<br>RHIZOMES   | 1.44               | 0.00144             |                                                         | 23.22 | 0.0334                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 14.69 | 0.0211536                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW4 TOP P. AUSTRALIS<br>SHOOTS        | 6.27               | 0.00627             | 500                                                     | 17.36 | 0.1088                    | 46.5608                                                                                                          | 90.0846                                                            | 0.2496                                                                          | 19.8579                                                             | 15.3984                                                                                                 | 21.07 | 0.1321089                       | 38.57573125                                                                                                  | 61.74                                                           | 0.2009313                                                            | 15.9849881                                                           | 12.7576                                                                                                 |
| WW4 MID 1 P. AUSTRALIS<br>SHOOTS      | 5.75               | 0.00575             |                                                         | 14.50 | 0.0834                    |                                                                                                                  |                                                                    | 0.1437                                                                          | 13.6638                                                             |                                                                                                         | 8.13  | 0.0467418                       |                                                                                                              |                                                                 | 0.08650613                                                           | 8.22301616                                                           |                                                                                                         |
| WW4 Mid 2 P. AUSTRALIS<br>SHOOTS      | 7.1                | 0.0071              |                                                         | 18.02 | 0.1279                    |                                                                                                                  |                                                                    | 0.1874                                                                          | 18.6654                                                             |                                                                                                         | 12.02 | 0.085342                        |                                                                                                              |                                                                 | 0.1125424                                                            | 11.2094024                                                           |                                                                                                         |
| WW4 BOTTOM P. AUSTRALIS<br>SHOOTS     | 5.07               | 0.00507             |                                                         | 10.32 | 0.0523                    |                                                                                                                  |                                                                    | 0.1399                                                                          | 14.0200                                                             |                                                                                                         | 8.76  | 0.0444132                       |                                                                                                              |                                                                 | 0.09397928                                                           | 9.41676152                                                           |                                                                                                         |
| WW4 TOP P. AUSTRALIS<br>ROOTS         | 2.96               | 0.00296             | 500                                                     | 27.55 | 0.0815                    | 28.9780                                                                                                          |                                                                    |                                                                                 |                                                                     | 20.8850                                                                                                 | 14.63 | 0.0433048                       | 14.4687525                                                                                                   |                                                                 |                                                                      |                                                                      | 10.4279                                                                                                 |
| WW4 MID 1 P. AUSTRALIS<br>ROOTS       | 3.46               | 0.00346             |                                                         | 14.50 | 0.0502                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 8.13  | 0.0281263                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW4 MID 2 P. AUSTRALIS<br>ROOTS       | 1.74               | 0.00174             |                                                         | 25.53 | 0.0444                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 10.48 | 0.0182352                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW4 BOTTOM P. AUSTRALIS<br>ROOTS      | 2.94               | 0.00294             |                                                         | 18.94 | 0.0557                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 8.87  | 0.0260837                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW4 TOP P. AUSTRALIS<br>RHIZOMES      | 3.34               | 0.00334             | 500                                                     | 17.73 | 0.0592                    | 14.5458                                                                                                          |                                                                    |                                                                                 |                                                                     | 14.8806                                                                                                 | 7.64  | 0.0255176                       | 8.700405                                                                                                     |                                                                 |                                                                      |                                                                      | 8.9007                                                                                                  |
| WW4 MID 1 P. P. AUSTRALIS<br>RHIZOMES | 1.31               | 0.00131             |                                                         | 7.79  | 0.0102                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 8.88  | 0.011638                        |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW4 MID 2 P. AUSTRALIS<br>RHIZOMES    | 1.2                | 0.0012              |                                                         | 12.53 | 0.0150                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 7.47  | 0.0089652                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW4 BOTTOM P. AUSTRALIS<br>RHIZOMES   | 1.97               | 0.00197             |                                                         | 16.20 | 0.0319                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 11.92 | 0.0234824                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW6 TOP P. AUSTRALIS<br>SHOOTS        | 12.42              | 0.01242             | 150                                                     | 47.06 | 0.5845                    | 57.1544                                                                                                          | 64.8021                                                            | 0.6342                                                                          | 41.2898                                                             | 19.1397                                                                                                 | 5.68  | 0.0705083                       | 32.46870525                                                                                                  | 38.44                                                           | 0.0975429                                                            | 6.35044922                                                           | 18.0607                                                                                                 |

| Paddock and Plants               |                    |                     | Estimated<br>Total<br>number of<br>plants in<br>paddock | S     | Pollutant<br>Mass<br>(mg) | Average<br>plants<br>compartmen<br>t pollutant<br>mass (mg)<br>within a<br>paddock<br>with<br>number of<br>plots | Total<br>Average<br>pollutant<br>mass<br>(mg)<br>within<br>paddock | Total<br>pollutan<br>t mass<br>per<br>plant<br>(N=4)<br>within a<br>paddoc<br>k | weighted<br>concentration<br>per plant<br>(N=4) within a<br>paddock | weighted<br>concentratio<br>n per kg of<br>Shoot, Roots<br>and<br>Rhizomes<br>(N=3) within<br>a paddock | CI    | Total<br>pollutant<br>mass (mg) | Average<br>plants<br>compartment<br>pollutant<br>mass (mg)<br>within a<br>paddock with<br>number of<br>plots | Total<br>Average<br>pollutant<br>mass (mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant (N=4)<br>within a<br>paddock | weighted<br>concentratio<br>n per plant<br>(N=4) within<br>a paddock | weighted<br>concentratio<br>n per kg of<br>Shoot, Roots<br>and<br>Rhizomes<br>(N=3) within<br>a paddock |
|----------------------------------|--------------------|---------------------|---------------------------------------------------------|-------|---------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------|---------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|                                  | Dry<br>Mass<br>(g) | Dry<br>Mass<br>(kg) |                                                         |       | mg/kg                     |                                                                                                                  |                                                                    |                                                                                 | mg/kg                                                               |                                                                                                         | mg/kg |                                 |                                                                                                              |                                                                 |                                                                      | mg/kg                                                                |                                                                                                         |
| WW6 MID 1 P. AUSTRALIS SHOOTS    | 10.17              | 0.01017             |                                                         | 23.68 | 0.2408                    |                                                                                                                  |                                                                    | 0.2988                                                                          | 23.8502                                                             |                                                                                                         | 25.54 | 0.2597418                       |                                                                                                              |                                                                 | 0.2977917                                                            | 23.7662969                                                           |                                                                                                         |
| WW6 MID 2. P. AUSTRALIS SHOOTS   | 12.28              | 0.01228             |                                                         | 30.83 | 0.3786                    |                                                                                                                  |                                                                    | 0.3822                                                                          | 30.6990                                                             |                                                                                                         | 26.67 | 0.3275076                       |                                                                                                              |                                                                 | 0.3294991                                                            | 26.4657912                                                           |                                                                                                         |
| WW6 BOTTOM P. AUSTRALIS SHOOTS   | 13.07              | 0.01307             |                                                         | 24.50 | 0.3202                    |                                                                                                                  |                                                                    | 0.4128                                                                          | 26.0112                                                             |                                                                                                         | 15.92 | 0.2080744                       |                                                                                                              |                                                                 | 0.30032261                                                           | 18.92392                                                             |                                                                                                         |
| WW6 TOP P. AUSTRALIS ROOTS       | 2.73               | 0.00273             | 150                                                     | 17.20 | 0.0470                    | 7.4604                                                                                                           |                                                                    |                                                                                 |                                                                     | 25.2148                                                                                                 | 8.60  | 0.0234835                       | 5.8020735                                                                                                    |                                                                 |                                                                      |                                                                      | 19.6099                                                                                                 |
| WW6 MID 1 P. AUSTRALIS ROOTS     | 2.33               | 0.00233             |                                                         | 24.74 | 0.0576                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 16.20 | 0.037746                        |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW6 MID 2 P. AUSTRALIS ROOTS     | 0.16               | 0.00016             |                                                         | 21.61 | 0.0035                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 11.78 | 0.0018848                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW6 BOTTOM P. AUSTRALIS ROOTS    | 2.67               | 0.00267             |                                                         | 34.04 | 0.0909                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 34.31 | 0.0916077                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW6 TOP P.AUSTRALIS RHIZOMES     | 0.21               | 0.00021             | 150                                                     | 13.19 | 0.0028                    | 0.1872                                                                                                           | 39.6325                                                            |                                                                                 |                                                                     | 13.1382                                                                                                 | 16.91 | 0.0035511                       | 0.172582875                                                                                                  | 27.05                                                           |                                                                      |                                                                      | 12.1111                                                                                                 |
| WW6 MID 1 P. AUSTRALIS RHIZOMES  | 0.03               | 3E-05               |                                                         | 12.44 | 0.0004                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 10.13 | 0.0003039                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW6 MID 2 P. AUSTRALIS RHIZOMES  | 0.01               | 0.00001             |                                                         | 15.29 | 0.0002                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 10.67 | 0.0001067                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW6 BOTTOM P. AUSTRALIS RHIZOMES | 0.13               | 0.00013             |                                                         | 13.05 | 0.0017                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 4.93  | 0.0006405                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW7 TOP P. AUSTRALIS SHOOTS      | 8.14               | 0.00814             | 150                                                     | 31.65 | 0.2576                    | 33.0314                                                                                                          | 45.6523                                                            | 0.3443                                                                          | 27.0497                                                             | 19.1397                                                                                                 | 5.68  | 0.0462108                       | 21.33                                                                                                        | 31.73                                                           | 0.11385808                                                           | 8.94407541                                                           | 18.0448                                                                                                 |
| WW7 MID 1 P. AUSTRALIS SHOOTS    | 9.36               | 0.00936             |                                                         | 24.25 | 0.2270                    |                                                                                                                  |                                                                    | 0.3362                                                                          | 20.5989                                                             |                                                                                                         | 25.54 | 0.2390544                       |                                                                                                              |                                                                 | 0.3283155                                                            | 20.1173713                                                           |                                                                                                         |
| WW7 MID 2 P. AUSTRALIS SHOOTS    | 5.61               | 0.00561             |                                                         | 26.18 | 0.1469                    |                                                                                                                  |                                                                    | 0.2005                                                                          | 23.8716                                                             |                                                                                                         | 26.67 | 0.1496187                       |                                                                                                              |                                                                 | 0.181275                                                             | 21.5803571                                                           |                                                                                                         |
| WW7 BOTTOM P. AUSTRALIS SHOOTS   | 8.41               | 0.00841             |                                                         | 29.65 | 0.2494                    |                                                                                                                  |                                                                    | 0.3364                                                                          | 22.9438                                                             |                                                                                                         | 15.92 | 0.1338872                       |                                                                                                              |                                                                 | 0.22256546                                                           | 15.1818186                                                           |                                                                                                         |
| WW7 TOP P. P. AUSTRALIS ROOTS    | 1.2                | 0.0012              | 150                                                     | 15.76 | 0.0189                    | 6.4139                                                                                                           |                                                                    |                                                                                 |                                                                     | 19.1397                                                                                                 | 8.60  | 0.0103224                       | 5.55                                                                                                         |                                                                 |                                                                      |                                                                      | 18.5926                                                                                                 |
| WW7 MID 1 P. AUSTRALIS ROOTS     | 3.09               | 0.00309             |                                                         | 19.57 | 0.0605                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 16.20 | 0.050058                        |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW7 MID 2 P. AUSTRALIS ROOTS     | 1.7                | 0.0017              |                                                         | 26.52 | 0.0451                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 11.78 | 0.020026                        |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW7 BOTTOM P. AUSTRALIS ROOTS    | 1.97               | 0.00197             |                                                         | 23.64 | 0.0466                    |                                                                                                                  |                                                                    |                                                                                 |                                                                     |                                                                                                         | 34.31 | 0.0675907                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |

| Paddock and Plants                  |                    |                     | Estimated<br>Total<br>number of<br>plants in<br>paddock | S     | Pollutant<br>Mass<br>(mg) | Average<br>plants<br>compartmen<br>t pollutmen<br>t mass (mg)<br>within a<br>paddock<br>with<br>number of<br>plots | Total<br>Average<br>pollutant<br>mass<br>(mg)<br>within<br>paddock | Total<br>pollutan<br>t mass<br>per<br>plant<br>(N=4)<br>within a<br>paddoc<br>k | weighted<br>concentration<br>per plant<br>(N=4) within a<br>paddock | weighted<br>concentratio<br>n per kg of<br>Shoot, Roots<br>and<br>Rhizomes<br>(N=3) within<br>a paddock | Cl    | Total<br>pollutant<br>mass (mg) | Average<br>plants<br>compartment<br>pollutant<br>mass (mg)<br>within a<br>paddock with<br>number of<br>plots | Total<br>Average<br>pollutant<br>mass (mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant (N=4)<br>within a<br>paddock | weighted<br>concentratio<br>n per plant<br>(N=4) within<br>a paddock | weighted<br>concentratio<br>n per kg of<br>Shoot, Roots<br>and<br>Rhizomes<br>(N=3) within<br>a paddock |
|-------------------------------------|--------------------|---------------------|---------------------------------------------------------|-------|---------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------|---------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|                                     | Dry<br>Mass<br>(g) | Dry<br>Mass<br>(kg) |                                                         | mg/kg |                           |                                                                                                                    |                                                                    |                                                                                 | mg/kg                                                               |                                                                                                         | mg/kg |                                 |                                                                                                              |                                                                 |                                                                      | mg/kg                                                                |                                                                                                         |
| WW7 TOP P. AUSTRALIS<br>RHIZOMES    | 3.39               | 0.00339             | 150                                                     | 20.00 | 0.0678                    | 6.2070                                                                                                             |                                                                    |                                                                                 |                                                                     | 19.1397                                                                                                 | 16.91 | 0.0573249                       | 4.84671975                                                                                                   |                                                                 |                                                                      |                                                                      | 10.2332                                                                                                 |
| WW7 MID 1 P. AUSTRALIS<br>RHIZOMES  | 3.87               | 0.00387             |                                                         | 12.59 | 0.0487                    |                                                                                                                    |                                                                    |                                                                                 |                                                                     |                                                                                                         | 10.13 | 0.0392031                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW7 MID 2 P. AUSTRALIS<br>RHIZOMES  | 1.09               | 0.00109             |                                                         | 7.86  | 0.0086                    |                                                                                                                    |                                                                    |                                                                                 |                                                                     |                                                                                                         | 10.67 | 0.0116303                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |
| WW7 BOTTOM P. AUSTRALIS<br>RHIZOMES | 4.28               | 0.00428             |                                                         | 9.45  | 0.0404                    |                                                                                                                    |                                                                    |                                                                                 |                                                                     |                                                                                                         | 4.93  | 0.0210876                       |                                                                                                              |                                                                 |                                                                      |                                                                      |                                                                                                         |

**NB.** It should be noted that the dry mass and the estimated number of plant per are for all plants paddocks, these rows will be presented only in the first table in both species

| Paddock and Plants                 | Cu    | Total<br>pollutant<br>mass (mg) | Average<br>plants<br>compartment<br>pollutant<br>mass (mg)<br>within a<br>paddock with<br>number of<br>plots | Total<br>Average<br>pollutant<br>mass<br>(mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentration<br>per plant<br>(N=4) within<br>a paddock | weighted<br>concentration<br>per kg of<br>Shoot, Roots<br>and Rhizomes<br>(N=3) within<br>a paddock | Fe       | Total<br>pollutant<br>mass (kg) | Average<br>plants<br>compartment<br>pollutant<br>mass (mg)<br>within a<br>paddock with<br>number of<br>plots | Total<br>Average<br>pollutant<br>mass<br>(mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentration<br>per plant<br>(N=4) within<br>a paddock | weighted<br>concentration<br>per kg of<br>Shoot, Roots<br>and Rhizomes<br>(N=3) within<br>a paddock |
|------------------------------------|-------|---------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------|---------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|                                    | mg/kg |                                 |                                                                                                              |                                                                    |                                                                         | mg/kg                                                               |                                                                                                     | %        |                                 |                                                                                                              |                                                                    |                                                                         | mg/kg                                                               |                                                                                                     |
| WW1 TOP P. AUSTRALIS SHOOTS        |       |                                 |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |          |                                 |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW1 MID 1 P. AUSTRALIS SHOOTS      | 0.020 | 0.000073                        | 0.026344                                                                                                     | 0.126197                                                           | 0.00104                                                                 | 0.1124                                                              | 0.0188                                                                                              | 0.007785 | 0.00002600                      | 0.006832                                                                                                     | 0.035124                                                           | 0.00033                                                                 | 0.0359                                                              | 0.0049                                                                                              |
| WW1 MID 2 P. AUSTRALIS SHOOTS      | 0.020 | 0.000142                        |                                                                                                              |                                                                    | 0.00028                                                                 | 0.0201                                                              |                                                                                                     | 0.001336 | 0.00001137                      |                                                                                                              |                                                                    | 0.00001                                                                 | 0.0025                                                              |                                                                                                     |
| WW1 BOTTOM P. AUSTRALIS SHOOTS     | 0.030 | 0.000310                        |                                                                                                              |                                                                    | 0.00129                                                                 | 0.075                                                               |                                                                                                     | 0.012240 | 0.00012913                      |                                                                                                              |                                                                    | 0.00013                                                                 | 0.0254                                                              |                                                                                                     |
| WW1 TOP P. AUSTRALIS ROOTS         | 0.010 | 0.000177                        |                                                                                                              |                                                                    | 0.00075                                                                 | 0.0393                                                              |                                                                                                     | 0.001054 | 0.00001568                      |                                                                                                              |                                                                    | 0.00002                                                                 | 0.0069                                                              |                                                                                                     |
| WW1 MID 1 P. AUSTRALIS ROOTS       | 0.080 | 0.000231                        | 0.065928                                                                                                     |                                                                    |                                                                         |                                                                     | 0.1588                                                                                              | 0.053830 | 0.00015772                      | 0.019774                                                                                                     |                                                                    |                                                                         |                                                                     | 0.0476                                                                                              |
| WW1 MID 2 P. AUSTRALIS ROOTS       | 0.040 | 0.000088                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.005932 | 0.00001382                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW1 BOTTOM P. AUSTRALIS ROOTS      | 0.220 | 0.000903                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.065360 | 0.00026275                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW1 TOP P. AUSTRALIS RHIZOMES      | 0.300 | 0.000536                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.051970 | 0.00009303                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW1 MID 1 P. Australis RHIZOMES    | 0.250 | 0.000738                        | 0.033925                                                                                                     |                                                                    |                                                                         |                                                                     | 0.0817                                                                                              | 0.049540 | 0.00014476                      | 0.008518                                                                                                     |                                                                    |                                                                         |                                                                     | 0.0205                                                                                              |
| WW1 MID 2 P. AUSTRALIS RHIZOMES    | 0.020 | 0.000047                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.003271 | 0.00014912                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW1 BOTTOM P. AUSTRALIS RHIZOMES   | 0.030 | 0.000081                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.016970 | 0.00000952                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW2 TOP P. AUSTRALIS SHOOTS        | 0.020 | 0.000039                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.009322 | 0.00004548                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW2 MID 1 P. AUSTRALIS SHOOTS      | 0.030 | 0.000392                        | 0.067042                                                                                                     | 0.274839                                                           | 0.00124                                                                 | 0.0635                                                              | 0.0305                                                                                              | 0.004665 | 0.00002303                      | 0.010361                                                                                                     | 0.064614                                                           | 0.00031                                                                 | 0.0158                                                              | 0.0047                                                                                              |
| WW2 MID 2 P. AUSTRALIS SHOOTS      | 0.030 | 0.000171                        |                                                                                                              |                                                                    | 0.00073                                                                 | 0.056                                                               |                                                                                                     | 0.009324 | 0.00006088                      |                                                                                                              |                                                                    | 0.00006                                                                 | 0.0228                                                              |                                                                                                     |
| WW2 BOTTOM P. AUSTRALIS SHOOTS     | 0.030 | 0.000186                        |                                                                                                              |                                                                    | 0.00101                                                                 | 0.0964                                                              |                                                                                                     | 0.001526 | 0.00006154                      |                                                                                                              |                                                                    | 0.00001                                                                 | 0.0153                                                              |                                                                                                     |
| WW2 TOP P. AUSTRALIS ROOTS         | 0.040 | 0.000145                        |                                                                                                              |                                                                    | 0.0009                                                                  | 0.1033                                                              |                                                                                                     | 0.001767 | 0.00000871                      |                                                                                                              |                                                                    | 0.00001                                                                 | 0.0184                                                              |                                                                                                     |
| WW2 MID 1 P. AUSTRALIS ROOTS       | 0.210 | 0.000677                        | 0.191687                                                                                                     |                                                                    |                                                                         |                                                                     | 0.1954                                                                                              | 0.067050 | 0.00000701                      | 0.049385                                                                                                     |                                                                    |                                                                         |                                                                     | 0.0503                                                                                              |
| WW2 MID 2 P. AUSTRALIS ROOTS       | 0.140 | 0.000466                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.052360 | 0.00022127                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW2 BOTTOM P. AUSTRALIS ROOTS      | 0.240 | 0.000736                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.042870 | 0.00018012                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW2 TOP P. AUSTRALIS RHIZOMES      | 0.200 | 0.000677                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.038440 | 0.00012947                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW2 MID 1 P. AUSTRALIS RHIZOMES    | 0.050 | 0.000175                        | 0.01611                                                                                                      |                                                                    |                                                                         |                                                                     | 0.0461                                                                                              | 0.008459 | 0.00012762                      | 0.004868                                                                                                     |                                                                    |                                                                         |                                                                     | 0.0139                                                                                              |
| WW2 MID 2 P.AUSTRALIS RHIZOMES     | 0.030 | 0.000089                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.018590 | 0.00002732                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW2 BOTTOM P. AUSTRALIS RHIZOMES   | 0.050 | 0.000086                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.012810 | 0.00005410                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW4 TOP P. AUSTRALIS SHOOTS        | 0.060 | 0.000080                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.018220 | 0.00002216                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW4 MID 1 P. AUSTRALIS SHOOTS      | 0.020 | 0.000152                        | 0.378427                                                                                                     | 0.681355                                                           | 0.00079                                                                 | 0.0625                                                              | 0.1252                                                                                              | 0.001291 | 0.00002624                      | 0.067838                                                                                                     | 0.125315                                                           | 0.0001                                                                  | 0.0083                                                              | 0.0224                                                                                              |
| WW4 Mid 2 P. AUSTRALIS SHOOTS      | 0.200 | 0.001155                        |                                                                                                              |                                                                    | 0.00191                                                                 | 0.1814                                                              |                                                                                                     | 0.039630 | 0.00000809                      |                                                                                                              |                                                                    | 0.00023                                                                 | 0.0364                                                              |                                                                                                     |
| WW4 BOTTOM P. AUSTRALIS SHOOTS     | 0.230 | 0.001636                        |                                                                                                              |                                                                    | 0.00199                                                                 | 0.1979                                                              |                                                                                                     | 0.040540 | 0.00022787                      |                                                                                                              |                                                                    | 0.00029                                                                 | 0.0376                                                              |                                                                                                     |
| WW4 TOP P. AUSTRALIS ROOTS         | 0.020 | 0.000085                        |                                                                                                              |                                                                    | 0.00077                                                                 | 0.0771                                                              |                                                                                                     | 0.003728 | 0.00028783                      |                                                                                                              |                                                                    | 0.00002                                                                 | 0.0137                                                              |                                                                                                     |
| WW4 MID 1 P. AUSTRALIS ROOTS       | 0.180 | 0.000524                        | 0.252553                                                                                                     |                                                                    |                                                                         |                                                                     | 0.182                                                                                               | 0.020430 | 0.00001890                      | 0.044905                                                                                                     |                                                                    |                                                                         |                                                                     | 0.0324                                                                                              |
| WW4 MID 2 P. AUSTRALIS ROOTS       | 0.200 | 0.000695                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.039630 | 0.00006047                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW4 BOTTOM P. AUSTRALIS ROOTS      | 0.160 | 0.000281                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.041180 | 0.00013712                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW4 TOP P. AUSTRALIS RHIZOMES      | 0.180 | 0.000520                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.030610 | 0.00007165                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW4 MID 1 P. P. AUSTRALIS RHIZOMES | 0.030 | 0.000110                        | 0.050375                                                                                                     |                                                                    |                                                                         |                                                                     | 0.0515                                                                                              | 0.010830 | 0.00008999                      | 0.012573                                                                                                     |                                                                    |                                                                         |                                                                     | 0.0129                                                                                              |
| WW4 MID 2 P. AUSTRALIS RHIZOMES    | 0.040 | 0.000058                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.013860 | 0.00003617                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW4 BOTTOM P. AUSTRALIS RHIZOMES   | 0.060 | 0.000070                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.015200 | 0.00001816                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW6 TOP P. AUSTRALIS SHOOTS        | 0.080 | 0.000165                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.014220 | 0.00001824                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW6 MID 1 P. AUSTRALIS SHOOTS      | 0.040 | 0.000447                        | 0.08985                                                                                                      | 0.117919                                                           | 0.00089                                                                 | 0.0582                                                              | 0.05                                                                                                | 0.015300 | 0.00002801                      | 0.028811                                                                                                     | 0.039206                                                           | 0.00035                                                                 | 0.0231                                                              | 0.016                                                                                               |
| WW6 MID 2. P. AUSTRALIS SHOOTS     | 0.030 | 0.000332                        |                                                                                                              |                                                                    | 0.00054                                                                 | 0.0431                                                              |                                                                                                     | 0.002673 | 0.00019003                      |                                                                                                              |                                                                    | 0.00003                                                                 | 0.0094                                                              |                                                                                                     |

| Paddock and Plants               | Cu    | Total<br>pollutant<br>mass (mg) | Average<br>plants<br>compartment<br>pollutant<br>mass (mg)<br>within a<br>paddock with<br>number of<br>plots | Total<br>Average<br>pollutant<br>mass<br>(mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentration<br>per plant<br>(N=4) within<br>a paddock | weighted<br>concentration<br>per kg of<br>Shoot, Roots<br>and Rhizomes<br>(N=3) within<br>a paddock | Fe       | Total<br>pollutant<br>mass (kg) | Average<br>plants<br>compartment<br>pollutant<br>mass (mg)<br>within a<br>paddock with<br>number of<br>plots | Total<br>Average<br>pollutant<br>mass<br>(mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentration<br>per plant<br>(N=4) within<br>a paddock | weighted<br>concentration<br>per kg of<br>Shoot, Roots<br>and Rhizomes<br>(N=3) within<br>a paddock |
|----------------------------------|-------|---------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------|---------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|                                  | mg/kg |                                 |                                                                                                              |                                                                    |                                                                         | mg/kg                                                               |                                                                                                     | %        |                                 |                                                                                                              |                                                                    |                                                                         | mg/kg                                                               |                                                                                                     |
| WW6 BOTTOM P. AUSTRALIS SHOOTS   | 0.020 | 0.000296                        |                                                                                                              |                                                                    | 0.00032                                                                 | 0.0256                                                              |                                                                                                     | 0.002516 | 0.00002718                      |                                                                                                              |                                                                    | 0.00003                                                                 | 0.0032                                                              |                                                                                                     |
| WW6 TOP P. AUSTRALIS ROOTS       | 0.100 | 0.001321                        |                                                                                                              |                                                                    | 0.00139                                                                 | 0.0877                                                              |                                                                                                     | 0.039800 | 0.00003090                      |                                                                                                              |                                                                    | 0.00052                                                                 | 0.0336                                                              |                                                                                                     |
| WW6 MID 1 P. AUSTRALIS ROOTS     | 0.160 | 0.000442                        | 0.027585                                                                                                     |                                                                    |                                                                         |                                                                     | 0.0932                                                                                              | 0.059080 | 0.00052019                      | 0.010143                                                                                                     |                                                                    |                                                                         |                                                                     | 0.0343                                                                                              |
| WW6 MID 2 P. AUSTRALIS ROOTS     | 0.090 | 0.000208                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.038510 | 0.00016129                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW6 BOTTOM P. AUSTRALIS ROOTS    | 0.140 | 0.000022                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.058560 | 0.00008973                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW6 TOP P.AUSTRALIS RHIZOMES     | 0.020 | 0.000064                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.003778 | 0.00000937                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW6 MID 1 P. AUSTRALIS RHIZOMES  | 0.030 | 0.000006                        | 0.000484                                                                                                     |                                                                    |                                                                         |                                                                     | 0.034                                                                                               | 0.016050 | 0.00001009                      | 0.000252                                                                                                     | 0.030075                                                           |                                                                         |                                                                     | 0.0177                                                                                              |
| WW6 MID 2 P. AUSTRALIS RHIZOMES  | 0.040 | 0.000001                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.012550 | 0.00000337                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW6 BOTTOM P. AUSTRALIS RHIZOMES | 0.040 | 0.000006                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.010800 | 0.00000038                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW7 TOP P. AUSTRALIS SHOOTS      | 0.040 | 0.000006                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.022040 | 0.00000011                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW7 MID 1 P. AUSTRALIS SHOOTS    | 0.040 | 0.000293                        | 0.059386                                                                                                     | 0.105628                                                           | 0.00058                                                                 | 0.0453                                                              | 0.0502                                                                                              | 0.015300 | 0.00000287                      | 0.01869                                                                                                      | 0.037664                                                           | 0.00025                                                                 | 0.0196                                                              | 0.0158                                                                                              |
| WW7 MID 2 P. AUSTRALIS SHOOTS    | 0.030 | 0.000305                        |                                                                                                              |                                                                    | 0.00074                                                                 | 0.0454                                                              |                                                                                                     | 0.002673 | 0.00012454                      |                                                                                                              |                                                                    | 0.00003                                                                 | 0.0118                                                              |                                                                                                     |
| WW7 BOTTOM P. AUSTRALIS SHOOTS   | 0.020 | 0.000135                        |                                                                                                              |                                                                    | 0.00041                                                                 | 0.0493                                                              |                                                                                                     | 0.002516 | 0.00002502                      |                                                                                                              |                                                                    | 0.00001                                                                 | 0.0149                                                              |                                                                                                     |
| WW7 TOP P. P. AUSTRALIS ROOTS    | 0.100 | 0.000850                        |                                                                                                              |                                                                    | 0.00108                                                                 | 0.074                                                               |                                                                                                     | 0.039800 | 0.00001411                      |                                                                                                              |                                                                    | 0.00033                                                                 | 0.0298                                                              |                                                                                                     |
| WW7 MID 1 P. AUSTRALIS ROOTS     | 0.160 | 0.000194                        | 0.028143                                                                                                     |                                                                    |                                                                         |                                                                     | 0.0943                                                                                              | 0.059080 | 0.00033472                      | 0.011133                                                                                                     |                                                                    |                                                                         |                                                                     | 0.0373                                                                                              |
| WW7 MID 2 P. AUSTRALIS ROOTS     | 0.090 | 0.000276                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.038510 | 0.00007090                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW7 BOTTOM P. AUSTRALIS ROOTS    | 0.140 | 0.000233                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.058560 | 0.00011900                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW7 TOP P. AUSTRALIS RHIZOMES    | 0.020 | 0.000047                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.003778 | 0.00009955                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW7 MID 1 P. AUSTRA RHIZOMES     | 0.030 | 0.000090                        | 0.018099                                                                                                     |                                                                    |                                                                         |                                                                     | 0.0382                                                                                              | 0.016050 | 0.00000744                      | 0.007841                                                                                                     |                                                                    |                                                                         |                                                                     | 0.0166                                                                                              |
| WW7 MID 2 P. AUSTRALIS RHIZOMES  | 0.040 | 0.000160                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.012550 | 0.00005441                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW7 BOTTOM P. AUST RHIZOMES      | 0.040 | 0.000045                        |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.010800 | 0.00004857                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     |

| Paddock and Plants                 | Cu    | Total<br>pollutant<br>mass<br>(mg) | Average<br>plants<br>compartment<br>pollutant<br>mass (mg)<br>within a<br>paddock with<br>number of<br>plots | Total<br>Average<br>pollutant<br>mass<br>(mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentration<br>per plant<br>(N=4) within a<br>paddock | weighted<br>concentration<br>per kg of<br>Shoot, Roots<br>and Rhizomes<br>(N=3) within<br>a paddock | Zn    | Total<br>pollutant<br>mass (mg) | Average plants<br>compartment<br>pollutant mass<br>(mg) within a<br>paddock with<br>number of<br>plots | Total<br>Average<br>pollutan<br>t mass<br>(mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentratio<br>n per plant<br>(N=4) within<br>a paddock | weighted<br>concentration per<br>kg of Shoot,<br>Roots and<br>Rhizomes (N=3)<br>within a paddock |
|------------------------------------|-------|------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------|---------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|                                    | mg/kg |                                    |                                                                                                              |                                                                    |                                                                         | mg/kg                                                               |                                                                                                     | mg/kg |                                 |                                                                                                        |                                                                     |                                                                         | mg/kg                                                                |                                                                                                  |
| WW1 TOP P. AUSTRALIS SHOOTS        | 0.02  | 7.32E-05                           | 0.026344                                                                                                     | 0.126197                                                           | 0.00104                                                                 | 0.1124                                                              | 0.0188                                                                                              | 0.21  | 0.000691                        | 0.142369                                                                                               | 0.453572                                                            | 0.00301                                                                 | 0.3244                                                               | 0.1018                                                                                           |
| WW1 MID 1 P. AUSTRALIS SHOOTS      | 0.02  | 0.000142                           |                                                                                                              |                                                                    | 0.00028                                                                 | 0.0201                                                              |                                                                                                     | 0.09  | 0.000772                        |                                                                                                        |                                                                     | 0.00143                                                                 | 0.1038                                                               |                                                                                                  |
| WW1 MID 2 P. AUSTRALIS SHOOTS      | 0.03  | 0.00031                            |                                                                                                              |                                                                    | 0.00129                                                                 | 0.075                                                               |                                                                                                     | 0.13  | 0.001388                        |                                                                                                        |                                                                     | 0.0052                                                                  | 0.3016                                                               |                                                                                                  |
| WW1 BOTTOM P. AUSTRALIS SHOOTS     | 0.01  | 0.000177                           |                                                                                                              |                                                                    | 0.00075                                                                 | 0.0393                                                              |                                                                                                     | 0.06  | 0.000945                        |                                                                                                        |                                                                     | 0.00246                                                                 | 0.1283                                                               |                                                                                                  |
| WW1 TOP P. AUSTRALIS ROOTS         | 0.08  | 0.000231                           | 0.065928                                                                                                     |                                                                    |                                                                         |                                                                     | 0.1588                                                                                              | 0.34  | 0.001008                        | 0.21468                                                                                                |                                                                     |                                                                         |                                                                      | 0.5171                                                                                           |
| WW1 MID 1 P. AUSTRALIS ROOTS       | 0.04  | 8.76E-05                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.13  | 0.000303                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW1 MID 2 P. AUSTRALIS ROOTS       | 0.22  | 0.000903                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.81  | 0.003271                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW1 BOTTOM P. AUSTRALIS ROOTS      | 0.3   | 0.000536                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.64  | 0.001143                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW1 TOP P. AUSTRALIS RHIZOMES      | 0.25  | 0.000738                           | 0.033925                                                                                                     |                                                                    |                                                                         |                                                                     | 0.0817                                                                                              | 0.44  | 0.001311                        | 0.096524                                                                                               |                                                                     |                                                                         |                                                                      | 0.2325                                                                                           |
| WW1 MID 1 P. Australis RHIZOMES    | 0.02  | 4.69E-05                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.12  | 0.000352                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW1 MID 2 P. AUSTRALIS RHIZOMES    | 0.03  | 8.09E-05                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.2   | 0.000542                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW1 BOTTOM P. AUSTRALIS RHIZOMES   | 0.02  | 3.85E-05                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.15  | 0.000368                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW2 TOP P. AUSTRALIS SHOOTS        | 0.03  | 0.000392                           | 0.067042                                                                                                     | 0.274839                                                           | 0.00124                                                                 | 0.0635                                                              | 0.0305                                                                                              | 0.13  | 0.001647                        | 0.276581                                                                                               | 0.751843                                                            | 0.00419                                                                 | 0.214                                                                | 0.1257                                                                                           |
| WW2 MID 1 P. AUSTRALIS SHOOTS      | 0.03  | 0.000171                           |                                                                                                              |                                                                    | 0.00073                                                                 | 0.056                                                               |                                                                                                     | 0.17  | 0.001143                        |                                                                                                        |                                                                     | 0.00318                                                                 | 0.2456                                                               |                                                                                                  |
| WW2 MID 2 P. AUSTRALIS SHOOTS      | 0.03  | 0.000186                           |                                                                                                              |                                                                    | 0.00101                                                                 | 0.0964                                                              |                                                                                                     | 0.1   | 0.000553                        |                                                                                                        |                                                                     | 0.0017                                                                  | 0.1628                                                               |                                                                                                  |
| WW2 BOTTOM P. AUSTRALIS SHOOTS     | 0.04  | 0.000145                           |                                                                                                              |                                                                    | 0.0009                                                                  | 0.1033                                                              |                                                                                                     | 0.09  | 0.000345                        |                                                                                                        |                                                                     | 0.00202                                                                 | 0.2308                                                               |                                                                                                  |
| WW2 TOP P. AUSTRALIS ROOTS         | 0.21  | 0.000677                           | 0.191687                                                                                                     |                                                                    |                                                                         |                                                                     | 0.1954                                                                                              | 0.42  | 0.001384                        | 0.395444                                                                                               |                                                                     |                                                                         |                                                                      | 0.4031                                                                                           |
| WW2 MID 1 P. AUSTRALIS ROOTS       | 0.14  | 0.000466                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.46  | 0.001579                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW2 MID 2 P. AUSTRALIS ROOTS       | 0.24  | 0.000736                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.28  | 0.000837                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW2 BOTTOM P. AUSTRALIS ROOTS      | 0.2   | 0.000677                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.44  | 0.001473                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW2 TOP P. AUSTRALIS RHIZOMES      | 0.05  | 0.000175                           | 0.01611                                                                                                      |                                                                    |                                                                         |                                                                     | 0.0461                                                                                              | 0.36  | 0.001159                        | 0.079818                                                                                               |                                                                     |                                                                         |                                                                      | 0.2286                                                                                           |
| WW2 MID 1 P. AUSTRALIS RHIZOMES    | 0.03  | 8.88E-05                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.16  | 0.000459                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW2 MID 2 P.AUSTRALIS RHIZOMES     | 0.05  | 8.62E-05                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.18  | 0.000314                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW2 BOTTOM P. AUSTRALIS RHIZOMES   | 0.06  | 7.96E-05                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.14  | 0.000197                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW4 TOP P. AUSTRALIS SHOOTS        | 0.02  | 0.000152                           | 0.378427                                                                                                     | 0.681355                                                           | 0.00079                                                                 | 0.0625                                                              | 0.1252                                                                                              | 0.15  | 0.000937                        | 0.774308                                                                                               | 1.58131                                                             | 0.00305                                                                 | 0.2426                                                               | 0.2561                                                                                           |
| WW4 MID 1 P. AUSTRALIS SHOOTS      | 0.2   | 0.001155                           |                                                                                                              |                                                                    | 0.00191                                                                 | 0.1814                                                              |                                                                                                     | 0.25  | 0.001429                        |                                                                                                        |                                                                     | 0.00254                                                                 | 0.2415                                                               |                                                                                                  |
| WW4 Mid 2 P. AUSTRALIS SHOOTS      | 0.23  | 0.001636                           |                                                                                                              |                                                                    | 0.00199                                                                 | 0.1979                                                              |                                                                                                     | 0.44  | 0.003138                        |                                                                                                        |                                                                     | 0.00466                                                                 | 0.4637                                                               |                                                                                                  |
| WW4 BOTTOM P. AUSTRALIS SHOOTS     | 0.02  | 8.47E-05                           |                                                                                                              |                                                                    | 0.00077                                                                 | 0.0771                                                              |                                                                                                     | 0.14  | 0.00069                         |                                                                                                        |                                                                     | 0.00241                                                                 | 0.241                                                                |                                                                                                  |
| WW4 TOP P. AUSTRALIS ROOTS         | 0.18  | 0.000524                           | 0.252553                                                                                                     |                                                                    |                                                                         |                                                                     | 0.182                                                                                               | 0.58  | 0.001709                        | 0.569373                                                                                               |                                                                     |                                                                         |                                                                      | 0.4104                                                                                           |
| WW4 MID 1 P. AUSTRALIS ROOTS       | 0.2   | 0.000695                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.25  | 0.00086                         |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW4 MID 2 P. AUSTRALIS ROOTS       | 0.16  | 0.000281                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.6   | 0.001037                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW4 BOTTOM P. AUSTRALIS ROOTS      | 0.18  | 0.00052                            |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.32  | 0.000949                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW4 TOP P. AUSTRALIS RHIZOMES      | 0.03  | 0.00011                            | 0.050375                                                                                                     |                                                                    |                                                                         |                                                                     | 0.0515                                                                                              | 0.12  | 0.000402                        | 0.237629                                                                                               |                                                                     |                                                                         |                                                                      | 0.2431                                                                                           |
| WW4 MID 1 P. P. AUSTRALIS RHIZOMES | 0.04  | 5.79E-05                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.19  | 0.000252                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW4 MID 2 P. AUSTRALIS RHIZOMES    | 0.06  | 7.03E-05                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.4   | 0.00048                         |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW4 BOTTOM P. AUSTRALIS RHIZOMES   | 0.08  | 0.000165                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.39  | 0.000767                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |

| Paddock and Plants               | Cu    | Total<br>pollutant<br>mass<br>(mg) | Average<br>plants<br>compartment<br>pollutant<br>mass (mg)<br>within a<br>paddock with<br>number of<br>plots | Total<br>Average<br>pollutant<br>mass<br>(mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentration<br>per plant<br>(N=4) within a<br>paddock | weighted<br>concentration<br>per kg of<br>Shoot, Roots<br>and Rhizomes<br>(N=3) within<br>a paddock | Zn    | Total<br>pollutant<br>mass (mg) | Average plants<br>compartment<br>pollutant mass<br>(mg) within a<br>paddock with<br>number of<br>plots | Total<br>Average<br>pollutan<br>t mass<br>(mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentratio<br>n per plant<br>(N=4) within<br>a paddock | weighted<br>concentration per<br>kg of Shoot,<br>Roots and<br>Rhizomes (N=3)<br>within a paddock |
|----------------------------------|-------|------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------|---------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|                                  | mg/kg |                                    |                                                                                                              |                                                                    |                                                                         | mg/kg                                                               |                                                                                                     | mg/kg |                                 |                                                                                                        |                                                                     |                                                                         | mg/kg                                                                |                                                                                                  |
| WW6 TOP P. AUSTRALIS SHOOTS      | 0.04  | 0.000447                           | 0.08985                                                                                                      | 0.117919                                                           | 0.00089                                                                 | 0.0582                                                              | 0.05                                                                                                | 0.16  | 0.001991                        | 0.304198                                                                                               | 0.365335                                                            | 0.00272                                                                 | 0.1768                                                               | 0.1692                                                                                           |
| WW6 MID 1 P. AUSTRALIS SHOOTS    | 0.03  | 0.000332                           |                                                                                                              |                                                                    | 0.00054                                                                 | 0.0431                                                              |                                                                                                     | 0.16  | 0.001672                        |                                                                                                        |                                                                     | 0.00216                                                                 | 0.1724                                                               |                                                                                                  |
| WW6 MID 2. P. AUSTRALIS SHOOTS   | 0.02  | 0.000296                           |                                                                                                              |                                                                    | 0.00032                                                                 | 0.0256                                                              |                                                                                                     | 0.1   | 0.001178                        |                                                                                                        |                                                                     | 0.00123                                                                 | 0.0984                                                               |                                                                                                  |
| WW6 BOTTOM P. AUSTRALIS SHOOTS   | 0.1   | 0.001321                           |                                                                                                              |                                                                    | 0.00139                                                                 | 0.0877                                                              |                                                                                                     | 0.25  | 0.003271                        |                                                                                                        |                                                                     | 0.00364                                                                 | 0.2294                                                               |                                                                                                  |
| WW6 TOP P. AUSTRALIS ROOTS       | 0.16  | 0.000442                           | 0.027585                                                                                                     |                                                                    |                                                                         |                                                                     | 0.0932                                                                                              | 0.25  | 0.000681                        | 0.058521                                                                                               |                                                                     |                                                                         |                                                                      | 0.1978                                                                                           |
| WW6 MID 1 P. AUSTRALIS ROOTS     | 0.09  | 0.000208                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.21  | 0.000482                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW6 MID 2 P. AUSTRALIS ROOTS     | 0.14  | 2.2E-05                            |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.29  | 0.000047                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW6 BOTTOM P. AUSTRALIS ROOTS    | 0.02  | 6.41E-05                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.13  | 0.000351                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW6 TOP P.AUSTRALIS RHIZOMES     | 0.03  | 5.57E-06                           | 0.000484                                                                                                     |                                                                    |                                                                         |                                                                     | 0.034                                                                                               | 0.21  | 0.000044                        | 0.002616                                                                                               | 0.271826                                                            |                                                                         |                                                                      | 0.1836                                                                                           |
| WW6 MID 1 P. AUSTRALIS RHIZOMES  | 0.04  | 1.24E-06                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.19  | 0.000006                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW6 MID 2 P. AUSTRALIS RHIZOMES  | 0.04  | 4.1E-07                            |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.14  | 0.000001                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW6 BOTTOM P. AUSTRALIS RHIZOMES | 0.04  | 5.69E-06                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.14  | 0.000019                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW7 TOP P. AUSTRALIS SHOOTS      | 0.04  | 0.000293                           | 0.059386                                                                                                     | 0.105628                                                           | 0.00058                                                                 | 0.0453                                                              | 0.0502                                                                                              | 0.16  | 0.001305                        | 0.205749                                                                                               | 0.351815                                                            | 0.00232                                                                 | 0.182                                                                | 0.1741                                                                                           |
| WW7 MID 1 P. AUSTRALIS SHOOTS    | 0.03  | 0.000305                           |                                                                                                              |                                                                    | 0.00074                                                                 | 0.0454                                                              |                                                                                                     | 0.16  | 0.001539                        |                                                                                                        |                                                                     | 0.00291                                                                 | 0.1782                                                               |                                                                                                  |
| WW7 MID 2 P. AUSTRALIS SHOOTS    | 0.02  | 0.000135                           |                                                                                                              |                                                                    | 0.00041                                                                 | 0.0493                                                              |                                                                                                     | 0.1   | 0.000538                        |                                                                                                        |                                                                     | 0.00118                                                                 | 0.1406                                                               |                                                                                                  |
| WW7 BOTTOM P. AUSTRALIS SHOOTS   | 0.1   | 0.00085                            |                                                                                                              |                                                                    | 0.00108                                                                 | 0.074                                                               |                                                                                                     | 0.25  | 0.002105                        |                                                                                                        |                                                                     | 0.00297                                                                 | 0.2029                                                               |                                                                                                  |
| WW7 TOP P. P. AUSTRALIS ROOTS    | 0.16  | 0.000194                           | 0.028143                                                                                                     |                                                                    |                                                                         |                                                                     | 0.0943                                                                                              | 0.25  | 0.000299                        | 0.063461                                                                                               |                                                                     |                                                                         |                                                                      | 0.2126                                                                                           |
| WW7 MID 1 P. AUSTRALIS ROOTS     | 0.09  | 0.000276                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.21  | 0.00064                         |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW7 MID 2 P. AUSTRALIS ROOTS     | 0.14  | 0.000233                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.29  | 0.000495                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW7 BOTTOM P. AUSTRALIS ROOTS    | 0.02  | 4.73E-05                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.13  | 0.000259                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW7 TOP P. AUSTRALIS RHIZOMES    | 0.03  | 8.98E-05                           | 0.018099                                                                                                     |                                                                    |                                                                         |                                                                     | 0.0382                                                                                              | 0.21  | 0.000713                        | 0.082605                                                                                               |                                                                     |                                                                         |                                                                      | 0.1744                                                                                           |
| WW7 MID 1 P. AUSTRALIS RHIZOMES  | 0.04  | 0.00016                            |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.19  | 0.00073                         |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW7 MID 2 P. AUSTRALIS RHIZOMES  | 0.04  | 4.51E-05                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.14  | 0.000149                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |
| WW7 BOTTOM P. AUST RHIZOMES      | 0.04  | 0.000187                           |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                     | 0.14  | 0.000611                        |                                                                                                        |                                                                     |                                                                         |                                                                      |                                                                                                  |

| Paddock and Plants                 | U     | Total pollutant mass (mg) | Average plants compartment pollutant mass (mg) within a paddock with number of plots | Total Average pollutant mass (mg) within paddock | Total pollutant mass per plant (N=4) within a paddock | weighted concentration per plant (N=4) within a paddock | weighted concentration per kg of Shoot, Roots and Rhizomes (N=3) within a paddock |
|------------------------------------|-------|---------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|
|                                    | mg/kg |                           |                                                                                      |                                                  |                                                       | mg/kg                                                   |                                                                                   |
| WW1 TOP P. AUSTRALIS SHOOTS        | 0.01  | 0.000037                  | 0.011084                                                                             | 0.02613                                          | 0.00016                                               | 0.0168                                                  | 0.0079                                                                            |
| WW1 MID 1 P. AUSTRALIS SHOOTS      | 0     | 0.000039                  |                                                                                      |                                                  | 0.0001                                                | 0.0073                                                  |                                                                                   |
| WW1 MID 2 P. AUSTRALIS SHOOTS      | 0.01  | 0.000118                  |                                                                                      |                                                  | 0.00027                                               | 0.0157                                                  |                                                                                   |
| WW1 BOTTOM P. AUSTRALIS SHOOTS     | 0.01  | 0.000101                  |                                                                                      |                                                  | 0.00017                                               | 0.0089                                                  |                                                                                   |
| WW1 TOP P. AUSTRALIS ROOTS         | 0.02  | 0.000062                  | 0.010466                                                                             |                                                  |                                                       |                                                         | 0.0252                                                                            |
| WW1 MID 1 P. AUSTRALIS ROOTS       | 0.02  | 0.000037                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 MID 2 P. AUSTRALIS ROOTS       | 0.03  | 0.000129                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 BOTTOM P. AUSTRALIS ROOTS      | 0.03  | 0.000051                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 TOP P. AUSTRALIS RHIZOMES      | 0.02  | 0.000057                  | 0.00458                                                                              |                                                  |                                                       |                                                         | 0.011                                                                             |
| WW1 MID 1 P. Australis RHIZOMES    | 0.01  | 0.000024                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 MID 2 P. AUSTRALIS RHIZOMES    | 0.01  | 0.000023                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 BOTTOM P. AUSTRALIS RHIZOMES   | 0.01  | 0.000018                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 TOP P. AUSTRALIS SHOOTS        | 0.01  | 0.000116                  | 0.021026                                                                             | 0.046741                                         | 0.00025                                               | 0.013                                                   | 0.0096                                                                            |
| WW2 MID 1 P. AUSTRALIS SHOOTS      | 0.01  | 0.000065                  |                                                                                      |                                                  | 0.00016                                               | 0.0123                                                  |                                                                                   |
| WW2 MID 2 P. AUSTRALIS SHOOTS      | 0.01  | 0.00006                   |                                                                                      |                                                  | 0.00014                                               | 0.0137                                                  |                                                                                   |
| WW2 BOTTOM P. AUSTRALIS SHOOTS     | 0.01  | 0.000039                  |                                                                                      |                                                  | 0.00011                                               | 0.0129                                                  |                                                                                   |
| WW2 TOP P. AUSTRALIS ROOTS         | 0.03  | 0.000108                  | 0.022239                                                                             |                                                  |                                                       |                                                         | 0.0227                                                                            |
| WW2 MID 1 P. AUSTRALIS ROOTS       | 0.02  | 0.000063                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 MID 2 P. AUSTRALIS ROOTS       | 0.02  | 0.000069                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 BOTTOM P. AUSTRALIS ROOTS      | 0.02  | 0.000057                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 TOP P. AUSTRALIS RHIZOMES      | 0.01  | 0.00003                   | 0.003476                                                                             |                                                  |                                                       |                                                         | 0.01                                                                              |
| WW2 MID 1 P. AUSTRALIS RHIZOMES    | 0.01  | 0.000031                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 MID 2 P.AUSTRALIS RHIZOMES     | 0.01  | 0.000015                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 BOTTOM P. AUSTRALIS RHIZOMES   | 0.01  | 0.000017                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 TOP P. AUSTRALIS SHOOTS        | 0.01  | 0.000053                  | 0.044281                                                                             | 0.081694                                         | 0.00014                                               | 0.0108                                                  | 0                                                                                 |
| WW4 MID 1 P. AUSTRALIS SHOOTS      | 0.02  | 0.000135                  |                                                                                      |                                                  | 0.00023                                               | 0.0216                                                  |                                                                                   |
| WW4 Mid 2 P. AUSTRALIS SHOOTS      | 0.02  | 0.000131                  |                                                                                      |                                                  | 0.00019                                               | 0.0185                                                  |                                                                                   |
| WW4 BOTTOM P. AUSTRALIS SHOOTS     | 0.01  | 0.000034                  |                                                                                      |                                                  | 0.0001                                                | 0.0105                                                  |                                                                                   |
| WW4 TOP P. AUSTRALIS ROOTS         | 0.02  | 0.000051                  | 0.027465                                                                             |                                                  |                                                       |                                                         | 0.0198                                                                            |
| WW4 MID 1 P. AUSTRALIS ROOTS       | 0.02  | 0.000081                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 MID 2 P. AUSTRALIS ROOTS       | 0.02  | 0.000038                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 BOTTOM P. AUSTRALIS ROOTS      | 0.02  | 0.000049                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 TOP P. AUSTRALIS RHIZOMES      | 0.01  | 0.000031                  | 0.009948                                                                             |                                                  |                                                       |                                                         | 0.0102                                                                            |
| WW4 MID 1 P. P. AUSTRALIS RHIZOMES | 0.01  | 0.00001                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 MID 2 P. AUSTRALIS RHIZOMES    | 0.01  | 0.000017                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 BOTTOM P. AUSTRALIS RHIZOMES   | 0.01  | 0.000021                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW6 TOP P. AUSTRALIS SHOOTS        | 0.01  | 0.000156                  | 0.020073                                                                             | 0.027376                                         | 0.00029                                               | 0.019                                                   | 0.0112                                                                            |
| WW6 MID 1 P. AUSTRALIS SHOOTS      | 0.01  | 0.000086                  |                                                                                      |                                                  | 0.00011                                               | 0.0091                                                  |                                                                                   |

| Paddock and Plants               | U     | Total pollutant mass (mg) | Average plants compartment pollutant mass (mg) within a paddock with number of plots | Total Average pollutant mass (mg) within a paddock | Total pollutant mass per plant (N=4) within a paddock | weighted concentration per plant (N=4) within a paddock | weighted concentration per kg of Shoot, Roots and Rhizomes (N=3) within a paddock |
|----------------------------------|-------|---------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|
|                                  | mg/kg |                           |                                                                                      |                                                    |                                                       | mg/kg                                                   |                                                                                   |
| WW6 MID 2. P. AUSTRALIS SHOOTS   | 0.01  | 0.000108                  |                                                                                      |                                                    | 0.00011                                               | 0.009                                                   |                                                                                   |
| WW6 BOTTOM P. AUSTRALIS SHOOTS   | 0.01  | 0.000184                  |                                                                                      |                                                    | 0.00021                                               | 0.0134                                                  |                                                                                   |
| WW6 TOP P. AUSTRALIS ROOTS       | 0.05  | 0.000133                  | 0.007167                                                                             |                                                    |                                                       |                                                         | 0.0242                                                                            |
| WW6 MID 1 P. AUSTRALIS ROOTS     | 0.01  | 0.000027                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW6 MID 2 P. AUSTRALIS ROOTS     | 0.02  | 0.000004                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW6 BOTTOM P. AUSTRALIS ROOTS    | 0.01  | 0.000027                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW6 TOP P. AUSTRALIS RHIZOMES    | 0.01  | 0.000002                  | 0.000136                                                                             | 0.018995                                           |                                                       |                                                         | 0.0095                                                                            |
| WW6 MID 1 P. AUSTRALIS RHIZOMES  | 0.01  | 0                         |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW6 MID 2 P. AUSTRALIS RHIZOMES  | 0.01  | 0                         |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW6 BOTTOM P. AUSTRALIS RHIZOMES | 0.01  | 0.000001                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW7 TOP P. AUSTRALIS SHOOTS      | 0.01  | 0.000103                  | 0.013128                                                                             | 0.023417                                           | 0.0002                                                | 0.0155                                                  | 0.0111                                                                            |
| WW7 MID 1 P. AUSTRALIS SHOOTS    | 0.01  | 0.00008                   |                                                                                      |                                                    | 0.00016                                               | 0.0096                                                  |                                                                                   |
| WW7 MID 2 P. AUSTRALIS SHOOTS    | 0.01  | 0.000049                  |                                                                                      |                                                    | 0.0001                                                | 0.012                                                   |                                                                                   |
| WW7 BOTTOM P. AUSTRALIS SHOOTS   | 0.01  | 0.000119                  |                                                                                      |                                                    | 0.00017                                               | 0.0115                                                  |                                                                                   |
| WW7 TOP P. P. AUSTRALIS ROOTS    | 0.05  | 0.000059                  | 0.005732                                                                             |                                                    |                                                       |                                                         | 0.0192                                                                            |
| WW7 MID 1 P. AUSTRALIS ROOTS     | 0.01  | 0.000036                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW7 MID 2 P. AUSTRALIS ROOTS     | 0.02  | 0.000038                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW7 BOTTOM P. AUSTRALIS ROOTS    | 0.01  | 0.00002                   |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW7 TOP P. AUSTRALIS RHIZOMES    | 0.01  | 0.000036                  | 0.004557                                                                             |                                                    |                                                       |                                                         | 0.0096                                                                            |
| WW7 MID 1 P. AUSTRALIS RHIZOMES  | 0.01  | 0.000042                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW7 MID 2 P. AUSTRALIS RHIZOMES  | 0.01  | 0.000013                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW7 BOTTOM P. AUST RHIZOMES      | 0.01  | 0.000031                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |

| Paddock and Plants                  | Ca   | Total<br>pollutant<br>mass (kg) | Average<br>plants<br>compartment<br>pollutant<br>mass (kg)<br>within a<br>paddock with<br>number of<br>plots | Total<br>Average<br>pollutant<br>mass (kg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentration<br>per plant<br>(N=4) within a<br>paddock | weighted<br>concentration<br>per kg of<br>Shoot, Roots<br>and Rhizomes<br>(N=3) within<br>a paddock | Cr    | Total<br>pollutant<br>mass (mg) | Average<br>plants<br>compartment<br>pollutant mass<br>(mg) within a<br>paddock with<br>number of<br>plots | Total<br>Average<br>pollutant<br>mass<br>(mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentration<br>per plant<br>(N=4) within a<br>paddock | weighted<br>concentration<br>per kg of<br>Shoot, Roots<br>and Rhizomes<br>(N=3) within<br>a paddock |
|-------------------------------------|------|---------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------|---------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|                                     | %    |                                 |                                                                                                              |                                                                 |                                                                         | mg/kg                                                               |                                                                                                     | mg/kg |                                 |                                                                                                           |                                                                    |                                                                         | mg/kg                                                               |                                                                                                     |
| WW1 TOP P. AUSTRALIS SHOOTS         | 0.05 | 0.00015                         | 0.0312                                                                                                       | 0.0458                                                          | 0.0003                                                                  | 0.0280                                                              | 0.0223                                                                                              | 0.03  | 0.00011256                      | 0.0423                                                                                                    | 0.1084                                                             | 0.0007                                                                  | 0.0785                                                              | 0.0302                                                                                              |
| WW1 MID 1 P. AUSTRALIS SHOOTS       | 0.03 | 0.00024                         |                                                                                                              |                                                                 | 0.0003                                                                  | 0.0250                                                              |                                                                                                     | 0.01  | 0.00004340                      |                                                                                                           |                                                                    | 0.0001                                                                  | 0.0088                                                              |                                                                                                     |
| WW1 MID 2 P. AUSTRALIS SHOOTS       | 0.02 | 0.00019                         |                                                                                                              |                                                                 | 0.0003                                                                  | 0.0165                                                              |                                                                                                     | 0.08  | 0.00089570                      |                                                                                                           |                                                                    | 0.0016                                                                  | 0.0938                                                              |                                                                                                     |
| WW1 BOTTOM P. AUSTRALIS SHOOTS      | 0.02 | 0.00026                         |                                                                                                              |                                                                 | #REF!                                                                   | #REF!                                                               |                                                                                                     | 0.01  | 0.00007589                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW1 TOP P. AUSTRALIS ROOTS          | 0.01 | 0.00003                         | 0.0101                                                                                                       |                                                                 |                                                                         |                                                                     | 0.0218                                                                                              | 0.09  | 0.00025315                      | 0.0501                                                                                                    |                                                                    |                                                                         |                                                                     | 0.1080                                                                                              |
| WW1 MID 1 P. AUSTRALIS ROOTS        | 0.04 | 0.00009                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.03  | 0.00006291                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW1 MID 2 P. AUSTRALIS ROOTS        | 0.02 | 0.00008                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.17  | 0.00068581                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW1 TOP P. AUSTRALIS RHIZOMES       | 0.02 | 0.00007                         | 0.0045                                                                                                       |                                                                 |                                                                         |                                                                     | 0.0109                                                                                              | 0.12  | 0.00036301                      | 0.0160                                                                                                    |                                                                    |                                                                         |                                                                     | 0.0386                                                                                              |
| WW1 MID 1 P. Australis RHIZOMES     | 0.01 | 0.00002                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.01  | 0.00001484                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW1 MID 2 P. AUSTRALIS RHIZOMES     | 0.01 | 0.00002                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.01  | 0.00003698                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW1 BOTTOM P. AUSTRALIS<br>RHIZOMES | 0.00 | 0.00001                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.01  | 0.00001284                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW2 TOP P. AUSTRALIS SHOOTS         | 0.03 | 0.00039                         | 0.0551                                                                                                       | 0.0755                                                          | 0.0005                                                                  | 0.0246                                                              | 0.0250                                                                                              | 0.01  | 0.00013050                      | 0.0475                                                                                                    | 0.1741                                                             | 0.0006                                                                  | 0.0323                                                              | 0.0216                                                                                              |
| WW2 MID 1 P. AUSTRALIS SHOOTS       | 0.03 | 0.00017                         |                                                                                                              |                                                                 | 0.0002                                                                  | 0.0188                                                              |                                                                                                     | 0.07  | 0.00045342                      |                                                                                                           |                                                                    | 0.0011                                                                  | 0.0817                                                              |                                                                                                     |
| WW2 MID 2 P. AUSTRALIS SHOOTS       | 0.02 | 0.00010                         |                                                                                                              |                                                                 | 0.0002                                                                  | 0.0161                                                              |                                                                                                     | 0.01  | 0.00002912                      |                                                                                                           |                                                                    | 0.0003                                                                  | 0.0312                                                              |                                                                                                     |
| WW2 BOTTOM P. AUSTRALIS SHOOTS      | 0.02 | 0.00007                         |                                                                                                              |                                                                 | 0.0001                                                                  | 0.0158                                                              |                                                                                                     | 0.01  | 0.00002025                      |                                                                                                           |                                                                    | 0.0004                                                                  | 0.0474                                                              |                                                                                                     |
| WW2 TOP P. AUSTRALIS ROOTS          | 0.02 | 0.00008                         | 0.0187                                                                                                       |                                                                 |                                                                         |                                                                     | 0.0190                                                                                              | 0.14  | 0.00047223                      | 0.1184                                                                                                    |                                                                    |                                                                         |                                                                     | 0.1207                                                                                              |
| WW2 MID 1 P. AUSTRALIS ROOTS        | 0.02 | 0.00006                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.16  | 0.00054180                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW2 MID 2 P. AUSTRALIS ROOTS        | 0.02 | 0.00006                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.09  | 0.00027210                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW2 BOTTOM P. AUSTRALIS ROOTS       | 0.02 | 0.00005                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.09  | 0.00029249                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW2 TOP P. AUSTRALIS RHIZOMES       | 0.00 | 0.00001                         | 0.0018                                                                                                       |                                                                 |                                                                         |                                                                     | 0.0051                                                                                              | 0.01  | 0.00002972                      | 0.0082                                                                                                    |                                                                    |                                                                         |                                                                     | 0.0235                                                                                              |
| WW2 MID 1 P. AUSTRALIS RHIZOMES     | 0.00 | 0.00001                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.02  | 0.00006227                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW2 MID 2 P.AUSTRALIS RHIZOMES      | 0.00 | 0.00001                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.01  | 0.00002560                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW2 BOTTOM P. AUSTRALIS<br>RHIZOMES | 0.01 | 0.00002                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.07  | 0.00010138                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW4 TOP P. AUSTRALIS SHOOTS         | 0.02 | 0.00010                         | 0.0508                                                                                                       | 0.0843                                                          | 0.0002                                                                  | 0.0160                                                              | 0.0168                                                                                              | 0.01  | 0.00003198                      | 0.2195                                                                                                    | 0.3591                                                             | 0.0002                                                                  | 0.0166                                                              | 0.0726                                                                                              |
| WW4 MID 1 P. AUSTRALIS SHOOTS       | 0.01 | 0.00007                         |                                                                                                              |                                                                 | 0.0001                                                                  | 0.0113                                                              |                                                                                                     | 0.10  | 0.00057730                      |                                                                                                           |                                                                    | 0.0010                                                                  | 0.0911                                                              |                                                                                                     |
| WW4 Mid 2 P. AUSTRALIS SHOOTS       | 0.02 | 0.00015                         |                                                                                                              |                                                                 | 0.0002                                                                  | 0.0184                                                              |                                                                                                     | 0.14  | 0.00097270                      |                                                                                                           |                                                                    | 0.0012                                                                  | 0.1210                                                              |                                                                                                     |
| WW4 BOTTOM P. AUSTRALIS SHOOTS      | 0.02 | 0.00009                         |                                                                                                              |                                                                 | 0.0002                                                                  | 0.0169                                                              |                                                                                                     | 0.03  | 0.00017390                      |                                                                                                           |                                                                    | 0.0005                                                                  | 0.0492                                                              |                                                                                                     |
| WW4 TOP P. AUSTRALIS ROOTS          | 0.02 | 0.00005                         | 0.0220                                                                                                       |                                                                 |                                                                         |                                                                     | 0.0159                                                                                              | 0.04  | 0.00013113                      | 0.1088                                                                                                    |                                                                    |                                                                         |                                                                     | 0.0784                                                                                              |
| WW4 MID 1 P. AUSTRALIS ROOTS        | 0.01 | 0.00004                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.10  | 0.00034738                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW4 MID 2 P. AUSTRALIS ROOTS        | 0.02 | 0.00003                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.12  | 0.00020288                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW4 BOTTOM P. AUSTRALIS ROOTS       | 0.02 | 0.00005                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.06  | 0.00018904                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW4 TOP P. AUSTRALIS RHIZOMES       | 0.02 | 0.00006                         | 0.0115                                                                                                       |                                                                 |                                                                         |                                                                     | 0.0117                                                                                              | 0.01  | 0.00004542                      | 0.0308                                                                                                    |                                                                    |                                                                         |                                                                     | 0.0315                                                                                              |
| WW4 MID 1 P. P. AUSTRALIS RHIZOMES  | 0.00 | 0.00000                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.03  | 0.00003406                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW4 MID 2 P. AUSTRALIS RHIZOMES     | 0.01 | 0.00001                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.03  | 0.00003900                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW4 BOTTOM P. AUSTRALIS<br>RHIZOMES | 0.01 | 0.00003                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.06  | 0.00012785                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW6 TOP P. AUSTRALIS SHOOTS         | 0.08 | 0.00102                         | 0.0604                                                                                                       | 0.0661                                                          | 0.0011                                                                  | 0.0695                                                              | 0.0336                                                                                              | 0.10  | 0.00127926                      | 0.0884                                                                                                    | 0.0914                                                             | 0.0015                                                                  | 0.0999                                                              | 0.0492                                                                                              |
| WW6 MID 1 P. AUSTRALIS SHOOTS       | 0.02 | 0.00019                         |                                                                                                              |                                                                 | 0.0002                                                                  | 0.0175                                                              |                                                                                                     | 0.01  | 0.00005187                      |                                                                                                           |                                                                    | 0.0002                                                                  | 0.0178                                                              |                                                                                                     |

| Paddock and Plants                  | Ca   | Total<br>pollutant<br>mass (kg) | Average<br>plants<br>compartment<br>pollutant<br>mass (kg)<br>within a<br>paddock with<br>number of<br>plots | Total<br>Average<br>pollutant<br>mass (kg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentration<br>per plant<br>(N=4) within a<br>paddock | weighted<br>concentration<br>per kg of<br>Shoot, Roots<br>and Rhizomes<br>(N=3) within<br>a paddock | Cr    | Total<br>pollutant<br>mass (mg) | Average<br>plants<br>compartment<br>pollutant mass<br>(mg) within a<br>paddock with<br>number of<br>plots | Total<br>Average<br>pollutant<br>mass<br>(mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentration<br>per plant<br>(N=4) within a<br>paddock | weighted<br>concentration<br>per kg of<br>Shoot, Roots<br>and Rhizomes<br>(N=3) within<br>a paddock |
|-------------------------------------|------|---------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------|---------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|                                     | %    |                                 |                                                                                                              |                                                                 |                                                                         | mg/kg                                                               |                                                                                                     | mg/kg |                                 |                                                                                                           |                                                                    |                                                                         | mg/kg                                                               |                                                                                                     |
| WW6 MID 2. P. AUSTRALIS SHOOTS      | 0.02 | 0.00023                         |                                                                                                              |                                                                 | 0.0002                                                                  | 0.0187                                                              |                                                                                                     | 0.01  | 0.00006263                      |                                                                                                           |                                                                    | 0.0001                                                                  | 0.0073                                                              |                                                                                                     |
| WW6 BOTTOM P. AUSTRALIS SHOOTS      | 0.01 | 0.00016                         |                                                                                                              |                                                                 | 0.0002                                                                  | 0.0154                                                              |                                                                                                     | 0.07  | 0.00096326                      |                                                                                                           |                                                                    | 0.0010                                                                  | 0.0625                                                              |                                                                                                     |
| WW6 TOP P. AUSTRALIS ROOTS          | 0.02 | 0.00004                         | 0.0057                                                                                                       |                                                                 |                                                                         |                                                                     | 0.0192                                                                                              | 0.09  | 0.00025362                      | 0.0030                                                                                                    |                                                                    |                                                                         |                                                                     | 0.0599                                                                                              |
| WW6 MID 1 P. AUSTRALIS ROOTS        | 0.01 | 0.00003                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.07  | 0.00017102                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW6 MID 2 P. AUSTRALIS ROOTS        | 0.02 | 0.00000                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.18  | 0.00002824                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW6 BOTTOM P. AUSTRALIS ROOTS       | 0.03 | 0.00008                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.01  | 0.00001949                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW6 TOP P.AUSTRALIS RHIZOMES        | 0.00 | 0.00000                         | 0.0001                                                                                                       | 0.0452                                                          |                                                                         |                                                                     | 0.0052                                                                                              | 0.01  | 0.00000107                      | 0.0000                                                                                                    | 0.0105                                                             |                                                                         |                                                                     | 0.0286                                                                                              |
| WW6 MID 1 P. AUSTRALIS RHIZOMES     | 0.00 | 0.00000                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.02  | 0.00000055                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW6 MID 2 P. AUSTRALIS RHIZOMES     | 0.01 | 0.00000                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.03  | 0.00000030                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW6 BOTTOM P. AUSTRALIS<br>RHIZOMES | 0.01 | 0.00000                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.07  | 0.00000894                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW7 TOP P. AUSTRALIS SHOOTS         | 0.08 | 0.00067                         | 0.0397                                                                                                       | 0.0455                                                          | 0.0007                                                                  | 0.0554                                                              | 0.0336                                                                                              | 0.10  | 0.00083842                      | 0.0073                                                                                                    | 0.0120                                                             | 0.0010                                                                  | 0.0760                                                              | 0.0487                                                                                              |
| WW7 MID 1 P. AUSTRALIS SHOOTS       | 0.02 | 0.00018                         |                                                                                                              |                                                                 | 0.0002                                                                  | 0.0142                                                              |                                                                                                     | 0.01  | 0.00004774                      |                                                                                                           |                                                                    | 0.0003                                                                  | 0.0212                                                              |                                                                                                     |
| WW7 MID 2 P. AUSTRALIS SHOOTS       | 0.02 | 0.00010                         |                                                                                                              |                                                                 | 0.0001                                                                  | 0.0171                                                              |                                                                                                     | 0.01  | 0.00002861                      |                                                                                                           |                                                                    | 0.0004                                                                  | 0.0431                                                              |                                                                                                     |
| WW7 BOTTOM P. AUSTRALIS SHOOTS      | 0.01 | 0.00011                         |                                                                                                              |                                                                 | 0.0002                                                                  | 0.0131                                                              |                                                                                                     | 0.07  | 0.00061982                      |                                                                                                           |                                                                    | 0.0009                                                                  | 0.0633                                                              |                                                                                                     |
| WW7 TOP P. P. AUSTRALIS ROOTS       | 0.02 | 0.00002                         | 0.0055                                                                                                       |                                                                 |                                                                         |                                                                     | 0.0184                                                                                              | 0.09  | 0.00011148                      | 0.0031                                                                                                    |                                                                    |                                                                         |                                                                     | 0.0820                                                                                              |
| WW7 MID 1 P. AUSTRALIS ROOTS        | 0.01 | 0.00004                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.07  | 0.00022681                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW7 MID 2 P. AUSTRALIS ROOTS        | 0.02 | 0.00003                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.18  | 0.00030005                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW7 BOTTOM P. AUSTRALIS ROOTS       | 0.03 | 0.00006                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.01  | 0.00001438                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW7 TOP P. AUSTRALIS RHIZOMES       | 0.00 | 0.00001                         | 0.0004                                                                                                       |                                                                 |                                                                         |                                                                     | 0.0054                                                                                              | 0.01  | 0.00001729                      | 0.0015                                                                                                    |                                                                    |                                                                         |                                                                     | 0.0329                                                                                              |
| WW7 MID 1 P. AUSTRALIS RHIZOMES     | 0.00 | 0.00002                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.02  | 0.00007082                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW7 MID 2 P. AUSTRALIS RHIZOMES     | 0.01 | 0.00001                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.03  | 0.00003303                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |
| WW7 BOTTOM P. AUST RHIZOMES         | 0.01 | 0.00003                         |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                     | 0.07  | 0.00029446                      |                                                                                                           |                                                                    |                                                                         |                                                                     |                                                                                                     |

| Paddock and Plants           | Total biomass<br>Dry Mass (g) | Total<br>biomass Dry<br>Mass (kg) | Estimated Total<br>number of plants<br>(plots) in paddock | S (mg/kg) | Total pollutant<br>mass (mg) | Average plants<br>compartment<br>pollutant mass<br>(mg) within a<br>paddock with<br>number of plots | Total<br>Average<br>pollutant<br>mass (mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentration<br>per plant<br>(N=4) within a<br>paddock | weighted<br>concentration per<br>kg of Shoot, Roots<br>and Rhizomes<br>(N=3) within a<br>paddock |
|------------------------------|-------------------------------|-----------------------------------|-----------------------------------------------------------|-----------|------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|                              |                               |                                   |                                                           | mg/kg     |                              |                                                                                                     |                                                                 |                                                                         | mg/kg                                                               |                                                                                                  |
| WW1 TOP SCHOENO SHOOTS       | 4.05                          | 0.00405                           | 150                                                       | 31.08     | 0.1259                       | 13.9813                                                                                             | 27.1194                                                         | 0.1977                                                                  | 26.0426                                                             | 26.0907                                                                                          |
| WW1 MID 1 SCHOENO SHOOTS     | 2.83                          | 0.00283                           |                                                           | 30.89     | 0.0874                       |                                                                                                     |                                                                 | 0.1781                                                                  | 25.3010                                                             |                                                                                                  |
| WW1 MID 2 SCHOENO SHOOTS     | 3.06                          | 0.00306                           |                                                           | 22.47     | 0.0688                       |                                                                                                     |                                                                 | 0.1182                                                                  | 21.4097                                                             |                                                                                                  |
| WW1 BOTTOM SCHOENO SHOOTS    | 4.35                          | 0.00435                           |                                                           | 20.87     | 0.0908                       |                                                                                                     |                                                                 | 0.2292                                                                  | 24.0019                                                             |                                                                                                  |
| WW1 TOP SCHOENO. ROOTS       | 1.63                          | 0.00163                           | 150                                                       | 23.56     | 0.0384                       | 6.6838                                                                                              |                                                                 |                                                                         |                                                                     | 22.0042                                                                                          |
| WW1 MID 1 SCHOENO. ROOTS     | 2.69                          | 0.00269                           |                                                           | 22.62     | 0.0608                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW1 MID 2 SCHOENO, ROOTS     | 1.89                          | 0.00189                           |                                                           | 18.93     | 0.0358                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW1 BOTTOM SCHOENO. ROOTS    | 1.89                          | 0.00189                           |                                                           | 22.86     | 0.0432                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW1 TOP SCHOENO. RHIZOMES    | 1.91                          | 0.00191                           | 150                                                       | 17.48     | 0.0334                       | 6.4543                                                                                              |                                                                 |                                                                         |                                                                     | 23.5450                                                                                          |
| WW1 MID 1 SCHOENO. RHIZOMES  | 1.52                          | 0.00152                           |                                                           | 19.64     | 0.0299                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW1 MID 2 SCHOENO RHIZOMES   | 0.57                          | 0.00057                           |                                                           | 23.94     | 0.0136                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW1 BOTTOM SCHOENO. RHIZOMES | 3.31                          | 0.00331                           |                                                           | 28.77     | 0.0952                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW2 TOP SCHOENO. SHOOTS      | 3.54                          | 0.00354                           | 300                                                       | 29.68     | 0.1051                       | 30.3794                                                                                             | 65.7659                                                         | 0.2548                                                                  | 29.9385                                                             | 29.0573                                                                                          |
| WW2 MID 1 SCHOENO. SHOOTS    | 4.63                          | 0.00463                           |                                                           | 24.41     | 0.1130                       |                                                                                                     |                                                                 | 0.1975                                                                  | 22.6960                                                             |                                                                                                  |
| WW2 MID 2 SCHOENO. SHOOTS    | 2.89                          | 0.00289                           |                                                           | 37.83     | 0.1093                       |                                                                                                     |                                                                 | 0.2222                                                                  | 23.9149                                                             |                                                                                                  |
| WW2 BOTTOM SCHOENO SHOOT     | 2.88                          | 0.00288                           |                                                           | 26.96     | 0.0776                       |                                                                                                     |                                                                 | 0.2025                                                                  | 22.0565                                                             |                                                                                                  |
| WW2 TOP SCHOENO. ROOTS       | 3.1                           | 0.0031                            | 300                                                       | 35.71     | 0.1107                       | 21.9659                                                                                             |                                                                 |                                                                         |                                                                     | 23.6003                                                                                          |
| WW2 MID 1 SCHOENO. ROOTS     | 2.05                          | 0.00205                           |                                                           | 16.85     | 0.0345                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW2 MID 2 SCHOENO. ROOTS     | 4.63                          | 0.00463                           |                                                           | 20.35     | 0.0942                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW2 BOTTOM SCHOENO. ROOTS    | 2.63                          | 0.00263                           |                                                           | 20.31     | 0.0534                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW2 TOP SCHOENO. RHIZOMES    | 1.87                          | 0.00187                           | 300                                                       | 20.86     | 0.0390                       | 13.4206                                                                                             |                                                                 |                                                                         |                                                                     | 19.1791                                                                                          |
| WW2 MID 1 SCHOENO. RHIZOMES  | 2.02                          | 0.00202                           |                                                           | 24.70     | 0.0499                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW2 MID 2 SCHOENO. RHIZOMES  | 1.77                          | 0.00177                           |                                                           | 10.52     | 0.0186                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW2 BOTTOM SCHOENO. RHIZOMES | 3.67                          | 0.00367                           |                                                           | 19.46     | 0.0714                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW4 TOP SCHOENO. SHOOTS      | 3.42                          | 0.00342                           | 500                                                       | 46.20     | 0.1580                       | 96.7159                                                                                             | 172.7819                                                        | 0.3245                                                                  | 28.3696                                                             | 42.9133                                                                                          |
| WW4 MID 1 SCHOENO.SHOOTS     | 5.73                          | 0.00573                           |                                                           | 58.72     | 0.3365                       |                                                                                                     |                                                                 | 0.5358                                                                  | 34.1464                                                             |                                                                                                  |
| WW4 MID 2 SCHOENO.SHOOTS     | 4.21                          | 0.00421                           |                                                           | 36.87     | 0.1552                       |                                                                                                     |                                                                 | 0.2781                                                                  | 23.4073                                                             |                                                                                                  |
| WW4 BOTTOM SCHOENO.SHOOTS    | 4.67                          | 0.00467                           |                                                           | 26.56     | 0.1240                       |                                                                                                     |                                                                 | 0.2439                                                                  | 21.2988                                                             |                                                                                                  |
| WW4 TOP SCHOENO. ROOTS       | 3.56                          | 0.00356                           | 500                                                       | 15.80     | 0.0562                       | 40.0116                                                                                             |                                                                 |                                                                         |                                                                     | 18.4385                                                                                          |
| WW4 MID 1 SCHOENO. ROOTS     | 6.71                          | 0.00671                           |                                                           | 19.97     | 0.1340                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW4 MID 2 SCHOENO. ROOTS     | 3.7                           | 0.0037                            |                                                           | 18.73     | 0.0693                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW4 BOTTOM SCHOENO. ROOTS    | 3.39                          | 0.00339                           |                                                           | 17.86     | 0.0605                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW4 TOP SHOENO. RHIZOMES     | 4.46                          | 0.00446                           | 500                                                       | 24.73     | 0.1103                       | 36.0543                                                                                             |                                                                 |                                                                         |                                                                     | 19.1397                                                                                          |
| WW4 MID 1 SCHOENO. RHIZOMES  | 3.25                          | 0.00325                           |                                                           | 20.09     | 0.0653                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW4 MID 2 SCHOENO. RHIZOMES  | 3.97                          | 0.00397                           |                                                           | 13.49     | 0.0536                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW4 BOTTOM SCHOENO. RHIZOMES | 3.39                          | 0.00339                           |                                                           | 17.49     | 0.0593                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW6 TOP SCHOENO.SHOOTS       | 3.8                           | 0.0038                            | 150                                                       | 34.34     | 0.1305                       | 16.4798                                                                                             | 34.4467                                                         | 0.2483                                                                  | 25.8057                                                             | 19.1397                                                                                          |
| WW6 MID 1 SCHOENO.SHOOTS     | 3.01                          | 0.00301                           |                                                           | 38.46     | 0.1158                       |                                                                                                     |                                                                 | 0.2202                                                                  | 29.7189                                                             |                                                                                                  |
| WW6 MID 2 SCHOENO. SHOOTS    | 4.85                          | 0.00485                           |                                                           | 23.50     | 0.1140                       |                                                                                                     |                                                                 | 0.2290                                                                  | 22.5824                                                             |                                                                                                  |
| WW6 BOTTOM SCHOENO. SHOOTS   | 1.9                           | 0.0019                            |                                                           | 41.70     | 0.0792                       |                                                                                                     |                                                                 | 0.2211                                                                  | 30.0031                                                             |                                                                                                  |

| Paddock and Plants           | Total biomass<br>Dry Mass (g) | Total<br>biomass Dry<br>Mass (kg) | Estimated Total<br>number of plants<br>(plots) in paddock | S (mg/kg) | Total pollutant<br>mass (mg) | Average plants<br>compartment<br>pollutant mass<br>(mg) within a<br>paddock with<br>number of plots | Total<br>Average<br>pollutant<br>mass (mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentration<br>per plant<br>(N=4) within a<br>paddock | weighted<br>concentration per<br>kg of Shoot, Roots<br>and Rhizomes<br>(N=3) within a<br>paddock |
|------------------------------|-------------------------------|-----------------------------------|-----------------------------------------------------------|-----------|------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|                              |                               |                                   |                                                           | mg/kg     |                              |                                                                                                     |                                                                 |                                                                         | mg/kg                                                               |                                                                                                  |
| WW6 TOP SCHOENO. ROOTS       | 2.44                          | 0.00244                           | 150                                                       | 16.90     | 0.0412                       | 6.8171                                                                                              |                                                                 |                                                                         |                                                                     | 21.2867                                                                                          |
| WW6 MID 1 SCHOENO. ROOTS     | 2.53                          | 0.00253                           |                                                           | 20.08     | 0.0508                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW6 MID 2 SCHOENO. ROOTS     | 2.04                          | 0.00204                           |                                                           | 20.58     | 0.0420                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW6 BOTTOM SCHOENO. ROOTS    | 1.53                          | 0.00153                           |                                                           | 31.22     | 0.0478                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW6 TOP SCHOENO. RHIZOMES    | 3.38                          | 0.00338                           | 150                                                       | 22.64     | 0.0765                       | 11.1498                                                                                             |                                                                 |                                                                         |                                                                     | 23.9009                                                                                          |
| WW6 MID 1 SCHOENO. RHIZOMES  | 1.87                          | 0.00187                           |                                                           | 28.69     | 0.0537                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW6 MID 2 SCHOENO RHIZOMES   | 3.25                          | 0.00325                           |                                                           | 22.47     | 0.0730                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |
| WW6 BOTTOM SCHOENO. RHIZOMES | 3.94                          | 0.00394                           |                                                           | 23.89     | 0.0941                       |                                                                                                     |                                                                 |                                                                         |                                                                     |                                                                                                  |

| Paddock and Plants           | Total biomass Dry Mass (g) | Total biomass Dry Mass (kg) | Estimated Total number of plants (plots) in paddock | CI    | Total pollutant mass (mg) | Average plants compartment pollutant mass (mg) within a paddock with number of plots | Total Average pollutant mass (mg) within paddock | Total pollutant mass per plant (N=4) within a paddock | weighted concentration per plant (N=4) within a paddock | weighted concentration per kg of Shoot, Roots and Rhizomes (N=3) within a paddock |
|------------------------------|----------------------------|-----------------------------|-----------------------------------------------------|-------|---------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|
|                              |                            |                             |                                                     | mg/kg |                           |                                                                                      |                                                  |                                                       | mg/kg                                                   |                                                                                   |
| WW1 TOP SCHOENO SHOOTS       | 4.05                       | 0.00405                     | 150                                                 | 27.20 | 0.11016                   | 10.6572375                                                                           | 17.18195775                                      | 0.14550245                                            | 19.1702833                                              | 19.8875                                                                           |
| WW1 MID 1 SCHOENO SHOOTS     | 2.83                       | 0.00283                     |                                                     | 19.95 | 0.056459                  |                                                                                      |                                                  | 0.08109893                                            | 11.5197344                                              |                                                                                   |
| WW1 MID 2 SCHOENO SHOOTS     | 3.06                       | 0.00306                     |                                                     | 17.00 | 0.05202                   |                                                                                      |                                                  | 0.06333366                                            | 11.4734891                                              |                                                                                   |
| WW1 BOTTOM SCHOENO SHOOTS    | 4.35                       | 0.00435                     |                                                     | 15.07 | 0.065555                  |                                                                                      |                                                  | 0.1682505                                             | 17.6178534                                              |                                                                                   |
| WW1 TOP SCHOENO. ROOTS       | 1.63                       | 0.00163                     | 150                                                 | 14.81 | 0.02414                   | 3.081290625                                                                          |                                                  |                                                       |                                                         | 10.1442                                                                           |
| WW1 MID 1 SCHOENO. ROOTS     | 2.69                       | 0.00269                     |                                                     | 7.22  | 0.01943                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 MID 2 SCHOENO. ROOTS     | 1.89                       | 0.00189                     |                                                     | 4.49  | 0.00849                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 BOTTOM SCHOENO. ROOTS    | 1.89                       | 0.00189                     |                                                     | 15.93 | 0.030108                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 TOP SCHOENO. RHIZOMES    | 1.91                       | 0.00191                     | 150                                                 | 5.87  | 0.011202                  | 3.443429625                                                                          |                                                  |                                                       |                                                         | 12.5615                                                                           |
| WW1 MID 1 SCHOENO. RHIZOMES  | 1.52                       | 0.00152                     |                                                     | 3.43  | 0.005211                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 MID 2 SCHOENO RHIZOMES   | 0.57                       | 0.00057                     |                                                     | 4.95  | 0.002824                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 BOTTOM SCHOENO. RHIZOMES | 3.31                       | 0.00331                     |                                                     | 21.93 | 0.072588                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 TOP SCHOENO. SHOOTS      | 3.54                       | 0.00354                     | 300                                                 | 19.84 | 0.070234                  | 22.5000525                                                                           | 41.33                                            | 0.15473923                                            | 18.1832233                                              | 21.5209                                                                           |
| WW2 MID 1 SCHOENO. SHOOTS    | 4.63                       | 0.00463                     |                                                     | 23.08 | 0.10686                   |                                                                                      |                                                  | 0.13889992                                            | 15.965508                                               |                                                                                   |
| WW2 MID 2 SCHOENO. SHOOTS    | 2.89                       | 0.00289                     |                                                     | 18.99 | 0.054881                  |                                                                                      |                                                  | 0.10245027                                            | 11.0280161                                              |                                                                                   |
| WW2 BOTTOM SCHOENO SHOOT     | 2.88                       | 0.00288                     |                                                     | 23.62 | 0.068026                  |                                                                                      |                                                  | 0.15497401                                            | 16.8817004                                              |                                                                                   |
| WW2 TOP SCHOENO. ROOTS       | 3.1                        | 0.0031                      | 300                                                 | 21.56 | 0.066836                  | 14.53177425                                                                          |                                                  |                                                       |                                                         | 15.6130                                                                           |
| WW2 MID 1 SCHOENO. ROOTS     | 2.05                       | 0.00205                     |                                                     | 7.28  | 0.014928                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 MID 2 SCHOENO. ROOTS     | 4.63                       | 0.00463                     |                                                     | 9.57  | 0.044323                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 BOTTOM SCHOENO. ROOTS    | 2.63                       | 0.00263                     |                                                     | 25.73 | 0.06767                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 TOP SCHOENO. RHIZOMES    | 1.87                       | 0.00187                     | 300                                                 | 9.45  | 0.01767                   | 4.2979305                                                                            |                                                  |                                                       |                                                         | 6.1421                                                                            |
| WW2 MID 1 SCHOENO. RHIZOMES  | 2.02                       | 0.00202                     |                                                     | 8.47  | 0.017111                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 MID 2 SCHOENO. RHIZOMES  | 1.77                       | 0.00177                     |                                                     | 1.83  | 0.003246                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 BOTTOM SCHOENO. RHIZOMES | 3.67                       | 0.00367                     |                                                     | 5.25  | 0.019279                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 TOP SCHOENO. SHOOTS      | 3.42                       | 0.00342                     | 500                                                 | 17.51 | 0.059884                  | 50.2323375                                                                           | 92.80                                            | 0.15071014                                            | 13.1739633                                              | 22.2883                                                                           |
| WW4 MID 1 SCHOENO.SHOOTS     | 5.73                       | 0.00573                     |                                                     | 26.85 | 0.153851                  |                                                                                      |                                                  | 0.2583705                                             | 16.4672084                                              |                                                                                   |
| WW4 MID 2 SCHOENO.SHOOTS     | 4.21                       | 0.00421                     |                                                     | 21.69 | 0.091315                  |                                                                                      |                                                  | 0.15035242                                            | 12.6559276                                              |                                                                                   |
| WW4 BOTTOM SCHOENO.SHOOTS    | 4.67                       | 0.00467                     |                                                     | 20.73 | 0.096809                  |                                                                                      |                                                  | 0.18295578                                            | 15.9786707                                              |                                                                                   |
| WW4 TOP SCHOENO. ROOTS       | 3.56                       | 0.00356                     | 500                                                 | 16.97 | 0.060413                  | 30.2244                                                                              |                                                  |                                                       |                                                         | 13.9283                                                                           |
| WW4 MID 1 SCHOENO. ROOTS     | 6.71                       | 0.00671                     |                                                     | 11.05 | 0.074146                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 MID 2 SCHOENO. ROOTS     | 3.7                        | 0.0037                      |                                                     | 12.72 | 0.047064                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 BOTTOM SCHOENO. ROOTS    | 3.39                       | 0.00339                     |                                                     | 17.75 | 0.060173                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 TOP SHOENO. RHIZOMES     | 4.46                       | 0.00446                     | 500                                                 | 6.82  | 0.030413                  | 12.3418675                                                                           |                                                  |                                                       |                                                         | 6.5518                                                                            |
| WW4 MID 1 SCHOENO. RHIZOMES  | 3.25                       | 0.00325                     |                                                     | 9.35  | 0.030375                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 MID 2 SCHOENO. RHIZOMES  | 3.97                       | 0.00397                     |                                                     | 3.02  | 0.011974                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 BOTTOM SCHOENO. RHIZOMES | 3.39                       | 0.00339                     |                                                     | 7.66  | 0.025974                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW6 TOP SCHOENO.SHOOTS       | 3.8                        | 0.0038                      | 150                                                 | 15.34 | 0.058292                  | 13.81501125                                                                          | 24.49                                            | 0.10750186                                            | 11.1748295                                              | 27.1682                                                                           |
| WW6 MID 1 SCHOENO.SHOOTS     | 3.01                       | 0.00301                     |                                                     | 32.38 | 0.097464                  |                                                                                      |                                                  | 0.1721098                                             | 23.2266937                                              |                                                                                   |
| WW6 MID 2 SCHOENO. SHOOTS    | 4.85                       | 0.00485                     |                                                     | 28.75 | 0.139438                  |                                                                                      |                                                  | 0.20711225                                            | 20.4252712                                              |                                                                                   |
| WW6 BOTTOM SCHOENO. SHOOTS   | 1.9                        | 0.0019                      |                                                     | 38.53 | 0.073207                  |                                                                                      |                                                  | 0.166463                                              | 22.5865672                                              |                                                                                   |
| WW6 TOP SCHOENO. ROOTS       | 2.44                       | 0.00244                     | 150                                                 | 12.11 | 0.029548                  | 5.34517125                                                                           |                                                  |                                                       |                                                         | 16.6906                                                                           |

| Paddock and Plants           | Total biomass Dry Mass (g) | Total biomass Dry Mass (kg) | Estimated Total number of plants (plots) in paddock | CI    | Total pollutant mass (mg) | Average plants compartment pollutant mass (mg) within a paddock with number of plots | Total Average pollutant mass (mg) within paddock | Total pollutant mass per plant (N=4) within a paddock | weighted concentration per plant (N=4) within a paddock | weighted concentration per kg of Shoot, Roots and Rhizomes (N=3) within a paddock |
|------------------------------|----------------------------|-----------------------------|-----------------------------------------------------|-------|---------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|
|                              |                            |                             |                                                     | mg/kg |                           |                                                                                      |                                                  |                                                       | mg/kg                                                   |                                                                                   |
| WW6 MID 1 SCHOENO. ROOTS     | 2.53                       | 0.00253                     |                                                     | 16.37 | 0.041416                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW6 MID 2 SCHOENO. ROOTS     | 2.04                       | 0.00204                     |                                                     | 17.55 | 0.035802                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW6 BOTTOM SCHOENO. ROOTS    | 1.53                       | 0.00153                     |                                                     | 23.38 | 0.035771                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW6 TOP SCHOENO. RHIZOMES    | 3.38                       | 0.00338                     | 150                                                 | 5.82  | 0.019661                  | 5.334326625                                                                          |                                                  |                                                       |                                                         | 11.4348                                                                           |
| WW6 MID 1 SCHOENO. RHIZOMES  | 1.87                       | 0.00187                     |                                                     | 17.77 | 0.03323                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW6 MID 2 SCHOENO RHIZOMES   | 3.25                       | 0.00325                     |                                                     | 9.81  | 0.031873                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW6 BOTTOM SCHOENO. RHIZOMES | 3.94                       | 0.00394                     |                                                     | 14.59 | 0.057485                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |

| Paddock and Plants              | Ca   | Total<br>pollutant<br>mass (kg) | Average<br>plants<br>compartment<br>pollutant<br>mass (kg)<br>within a<br>paddock<br>with number<br>of plots | Total<br>Average<br>pollutant<br>mass<br>(kg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentration<br>per plant<br>(N=4) within<br>a paddock | weighted<br>concentration<br>per kg of<br>Shoot, Roots<br>and<br>Rhizomes<br>(N=3) within<br>a paddock | Cr    | Total<br>pollutant<br>mass (mg) | Average<br>plants<br>compartment<br>pollutant<br>mass (mg)<br>within a<br>paddock<br>with number<br>of plots | Total<br>Average<br>pollutant<br>mass<br>(mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentration<br>per plant<br>(N=4) within<br>a paddock | weighted<br>concentration<br>per kg of<br>Shoot, Roots<br>and<br>Rhizomes<br>(N=3) within<br>a paddock |
|---------------------------------|------|---------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------|---------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|                                 | %    |                                 |                                                                                                              |                                                                    |                                                                         | mg/kg                                                               |                                                                                                        | mg/kg |                                 |                                                                                                              |                                                                    |                                                                         | mg/kg                                                               |                                                                                                        |
| WW1 TOP SCHOENO SHOOTS          | 0.02 | 0.00009                         | 0.0117                                                                                                       | 0.0218                                                             | 0.0001                                                                  | 0.0192                                                              | 0.0219                                                                                                 | 0.01  | 0.00002066                      | 0.0330                                                                                                       | 0.0842                                                             | 0.0002                                                                  | 0.0315                                                              | 0.0616                                                                                                 |
| WW1 MID 1 SCHOENO SHOOTS        | 0.03 | 0.00010                         |                                                                                                              |                                                                    | 0.0002                                                                  | 0.0264                                                              |                                                                                                        | 0.02  | 0.00005915                      |                                                                                                              |                                                                    | 0.0005                                                                  | 0.0666                                                              |                                                                                                        |
| WW1 MID 2 SCHOENO SHOOTS        | 0.02 | 0.00007                         |                                                                                                              |                                                                    | 0.0001                                                                  | 0.0188                                                              |                                                                                                        | 0.01  | 0.00002356                      |                                                                                                              |                                                                    | 0.0002                                                                  | 0.0443                                                              |                                                                                                        |
| WW1 BOTTOM SCHOENO<br>SHOOTS    | 0.01 | 0.00006                         |                                                                                                              |                                                                    | 0.0001                                                                  | 0.0153                                                              |                                                                                                        | 0.18  | 0.00077648                      |                                                                                                              |                                                                    | 0.0013                                                                  | 0.1355                                                              |                                                                                                        |
| WW1 TOP SCHOENO. ROOTS          | 0.02 | 0.00004                         | 0.0062                                                                                                       |                                                                    |                                                                         |                                                                     | 0.0205                                                                                                 | 0.08  | 0.00013643                      | 0.0278                                                                                                       |                                                                    |                                                                         |                                                                     | 0.0914                                                                                                 |
| WW1 MID 1 SCHOENO. ROOTS        | 0.03 | 0.00007                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.09  | 0.00024936                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW1 MID 2 SCHOENO, ROOTS        | 0.01 | 0.00003                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.09  | 0.00016953                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW1 BOTTOM SCHOENO. ROOTS       | 0.02 | 0.00003                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.10  | 0.00018503                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW1 TOP SCHOENO. RHIZOMES       | 0.01 | 0.00002                         | 0.0038                                                                                                       |                                                                    |                                                                         |                                                                     | 0.0140                                                                                                 | 0.04  | 0.00008213                      | 0.0235                                                                                                       |                                                                    |                                                                         |                                                                     | 0.0857                                                                                                 |
| WW1 MID 1 SCHOENO.<br>RHIZOMES  | 0.01 | 0.00002                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.11  | 0.00016006                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW1 MID 2 SCHOENO RHIZOMES      | 0.02 | 0.00001                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.09  | 0.00005119                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW1 BOTTOM SCHOENO.<br>RHIZOMES | 0.02 | 0.00005                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.10  | 0.00033299                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW2 TOP SCHOENO. SHOOTS         | 0.03 | 0.00012                         | 0.0348                                                                                                       | 0.0618                                                             | 0.0002                                                                  | 0.0226                                                              | 0.0333                                                                                                 | 0.03  | 0.00011470                      | 0.0391                                                                                                       | 0.1862                                                             | 0.0008                                                                  | 0.0917                                                              | 0.0374                                                                                                 |
| WW2 MID 1 SCHOENO. SHOOTS       | 0.03 | 0.00012                         |                                                                                                              |                                                                    | 0.0002                                                                  | 0.0224                                                              |                                                                                                        | 0.05  | 0.00023891                      |                                                                                                              |                                                                    | 0.0007                                                                  | 0.0844                                                              |                                                                                                        |
| WW2 MID 2 SCHOENO. SHOOTS       | 0.05 | 0.00014                         |                                                                                                              |                                                                    | 0.0003                                                                  | 0.0271                                                              |                                                                                                        | 0.05  | 0.00014970                      |                                                                                                              |                                                                    | 0.0007                                                                  | 0.0722                                                              |                                                                                                        |
| WW2 BOTTOM SCHOENO SHOOT        | 0.03 | 0.00009                         |                                                                                                              |                                                                    | 0.0002                                                                  | 0.0202                                                              |                                                                                                        | 0.01  | 0.00001757                      |                                                                                                              |                                                                    | 0.0003                                                                  | 0.0324                                                              |                                                                                                        |
| WW2 TOP SCHOENO. ROOTS          | 0.01 | 0.00004                         | 0.0174                                                                                                       |                                                                    |                                                                         |                                                                     | 0.0187                                                                                                 | 0.10  | 0.00032085                      | 0.0674                                                                                                       |                                                                    |                                                                         |                                                                     | 0.0724                                                                                                 |
| WW2 MID 1 SCHOENO. ROOTS        | 0.02 | 0.00004                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.07  | 0.00015027                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW2 MID 2 SCHOENO. ROOTS        | 0.02 | 0.00010                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.07  | 0.00031299                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW2 BOTTOM SCHOENO. ROOTS       | 0.02 | 0.00005                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.04  | 0.00011493                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW2 TOP SCHOENO. RHIZOMES       | 0.01 | 0.00003                         | 0.0096                                                                                                       |                                                                    |                                                                         |                                                                     | 0.0137                                                                                                 | 0.18  | 0.00034445                      | 0.0797                                                                                                       |                                                                    |                                                                         |                                                                     | 0.1139                                                                                                 |
| WW2 MID 1 SCHOENO.<br>RHIZOMES  | 0.02 | 0.00004                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.17  | 0.00034481                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW2 MID 2 SCHOENO.<br>RHIZOMES  | 0.01 | 0.00001                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.12  | 0.00020851                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW2 BOTTOM SCHOENO.<br>RHIZOMES | 0.01 | 0.00005                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.04  | 0.00016478                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW4 TOP SCHOENO. SHOOTS         | 0.05 | 0.00017                         | 0.1127                                                                                                       | 0.1846                                                             | 0.0003                                                                  | 0.0285                                                              | 0.0500                                                                                                 | 0.04  | 0.00013235                      | 0.0547                                                                                                       | 0.4032                                                             | 0.0011                                                                  | 0.0927                                                              | 0.0243                                                                                                 |
| WW4 MID 1 SCHOENO.SHOOTS        | 0.08 | 0.00043                         |                                                                                                              |                                                                    | 0.0006                                                                  | 0.0394                                                              |                                                                                                        | 0.05  | 0.00026358                      |                                                                                                              |                                                                    | 0.0012                                                                  | 0.0743                                                              |                                                                                                        |
| WW4 MID 2 SCHOENO.SHOOTS        | 0.04 | 0.00017                         |                                                                                                              |                                                                    | 0.0003                                                                  | 0.0234                                                              |                                                                                                        | 0.01  | 0.00003073                      |                                                                                                              |                                                                    | 0.0005                                                                  | 0.0413                                                              |                                                                                                        |
| WW4 BOTTOM<br>SCHOENO.SHOOTS    | 0.03 | 0.00013                         |                                                                                                              |                                                                    | 0.0003                                                                  | 0.0223                                                              |                                                                                                        | 0.00  | 0.00001121                      |                                                                                                              |                                                                    | 0.0005                                                                  | 0.0444                                                              |                                                                                                        |
| WW4 TOP SCHOENO. ROOTS          | 0.02 | 0.00009                         | 0.0516                                                                                                       |                                                                    |                                                                         |                                                                     | 0.0238                                                                                                 | 0.07  | 0.00025739                      | 0.1890                                                                                                       |                                                                    |                                                                         |                                                                     | 0.0871                                                                                                 |
| WW4 MID 1 SCHOENO. ROOTS        | 0.02 | 0.00014                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.10  | 0.00064349                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW4 MID 2 SCHOENO. ROOTS        | 0.02 | 0.00008                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.09  | 0.00032042                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW4 BOTTOM SCHOENO. ROOTS       | 0.03 | 0.00010                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.09  | 0.00029052                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |

| Paddock and Plants              | Ca   | Total<br>pollutant<br>mass (kg) | Average<br>plants<br>compartment<br>pollutant<br>mass (kg)<br>within a<br>paddock<br>with number<br>of plots | Total<br>Average<br>pollutant<br>mass<br>(kg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentration<br>per plant<br>(N=4) within<br>a paddock | weighted<br>concentration<br>per kg of<br>Shoot, Roots<br>and<br>Rhizomes<br>(N=3) within<br>a paddock | Cr    | Total<br>pollutant<br>mass (mg) | Average<br>plants<br>compartment<br>pollutant<br>mass (mg)<br>within a<br>paddock<br>with number<br>of plots | Total<br>Average<br>pollutant<br>mass<br>(mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentration<br>per plant<br>(N=4) within<br>a paddock | weighted<br>concentration<br>per kg of<br>Shoot, Roots<br>and<br>Rhizomes<br>(N=3) within<br>a paddock |
|---------------------------------|------|---------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------|---------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|                                 | %    |                                 |                                                                                                              |                                                                    |                                                                         | mg/kg                                                               |                                                                                                        | mg/kg |                                 |                                                                                                              |                                                                    |                                                                         | mg/kg                                                               |                                                                                                        |
| WW4 TOP SHOENO. RHIZOMES        | 0.02 | 0.00007                         | 0.0204                                                                                                       |                                                                    |                                                                         |                                                                     | 0.0108                                                                                                 | 0.15  | 0.00067123                      | 0.1595                                                                                                       |                                                                    |                                                                         |                                                                     | 0.0847                                                                                                 |
| WW4 MID 1 SCHOENO.<br>RHIZOMES  | 0.01 | 0.00004                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.08  | 0.00025805                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW4 MID 2 SCHOENO.<br>RHIZOMES  | 0.01 | 0.00003                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.04  | 0.00013974                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW4 BOTTOM SCHOENO.<br>RHIZOMES | 0.01 | 0.00003                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.06  | 0.00020679                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW6 TOP SCHOENO.SHOOTS          | 0.05 | 0.00018                         | 0.0160                                                                                                       | 0.0256                                                             | 0.0002                                                                  | 0.0244                                                              | 0.0314                                                                                                 | 0.03  | 0.00009956                      | 0.0100                                                                                                       | 0.0912                                                             | 0.0011                                                                  | 0.1177                                                              | 0.0197                                                                                                 |
| WW6 MID 1 SCHOENO.SHOOTS        | 0.03 | 0.00010                         |                                                                                                              |                                                                    | 0.0002                                                                  | 0.0210                                                              |                                                                                                        | 0.02  | 0.00007465                      |                                                                                                              |                                                                    | 0.0006                                                                  | 0.0770                                                              |                                                                                                        |
| WW6 MID 2 SCHOENO. SHOOTS       | 0.02 | 0.00010                         |                                                                                                              |                                                                    | 0.0002                                                                  | 0.0153                                                              |                                                                                                        | 0.01  | 0.00005044                      |                                                                                                              |                                                                    | 0.0005                                                                  | 0.0459                                                              |                                                                                                        |
| WW6 BOTTOM SCHOENO.<br>SHOOTS   | 0.03 | 0.00005                         |                                                                                                              |                                                                    | 0.0001                                                                  | 0.0187                                                              |                                                                                                        | 0.02  | 0.00004313                      |                                                                                                              |                                                                    | 0.0003                                                                  | 0.0356                                                              |                                                                                                        |
| WW6 TOP SCHOENO. ROOTS          | 0.01 | 0.00003                         | 0.0046                                                                                                       |                                                                    |                                                                         |                                                                     | 0.0143                                                                                                 | 0.28  | 0.00068125                      | 0.0455                                                                                                       |                                                                    |                                                                         |                                                                     | 0.1421                                                                                                 |
| WW6 MID 1 SCHOENO. ROOTS        | 0.01 | 0.00003                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.07  | 0.00018520                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW6 MID 2 SCHOENO. ROOTS        | 0.01 | 0.00003                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.13  | 0.00026602                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW6 BOTTOM SCHOENO. ROOTS       | 0.02 | 0.00003                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.05  | 0.00008124                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW6 TOP SCHOENO. RHIZOMES       | 0.01 | 0.00002                         | 0.0051                                                                                                       |                                                                    |                                                                         |                                                                     | 0.0109                                                                                                 | 0.10  | 0.00035118                      | 0.0356                                                                                                       |                                                                    |                                                                         |                                                                     | 0.0763                                                                                                 |
| WW6 MID 1 SCHOENO.<br>RHIZOMES  | 0.01 | 0.00003                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.17  | 0.00031079                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW6 MID 2 SCHOENO RHIZOMES      | 0.01 | 0.00003                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.05  | 0.00014918                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW6 BOTTOM SCHOENO.<br>RHIZOMES | 0.01 | 0.00006                         |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        | 0.04  | 0.00013829                      |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |

| Paddock and Plants           | Fe   | Total pollutant mass (kg) | Average plants compartment pollutant mass (kg) within a paddock with number of plots | Total Average pollutant mass (kg) within paddock | Total pollutant mass per plant (N=4) within a paddock | weighted concentration per plant (N=4) within a paddock | weighted concentration per kg of Shoot, Roots and Rhizomes (N=3) within a paddock |
|------------------------------|------|---------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|
|                              | %    |                           |                                                                                      |                                                  |                                                       | mg/kg                                                   |                                                                                   |
| WW1 TOP SCHOENO SHOOTS       | 0.05 | 0.000189                  | 0.0087820                                                                            | 0.0357642                                        | 0.00038                                               | 0.0504                                                  | 0.0164                                                                            |
| WW1 MID 1 SCHOENO SHOOTS     | 0.01 | 0.000018                  |                                                                                      |                                                  | 0.00002                                               | 0.0278                                                  |                                                                                   |
| WW1 MID 2 SCHOENO SHOOTS     | 0.00 | 0.000010                  |                                                                                      |                                                  | 0.00001                                               | 0.0316                                                  |                                                                                   |
| WW1 BOTTOM SCHOENO SHOOTS    | 0.00 | 0.000017                  |                                                                                      |                                                  | 0.00002                                               | 0.0211                                                  |                                                                                   |
| WW1 TOP SCHOENO. ROOTS       | 0.10 | 0.000163                  | 0.0203993                                                                            |                                                  |                                                       |                                                         | 0.0672                                                                            |
| WW1 MID 1 SCHOENO. ROOTS     | 0.05 | 0.000133                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 MID 2 SCHOENO. ROOTS     | 0.08 | 0.000146                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 BOTTOM SCHOENO. ROOTS    | 0.05 | 0.000101                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 TOP SCHOENO. RHIZOMES    | 0.02 | 0.000030                  | 0.0065829                                                                            |                                                  |                                                       |                                                         | 0.0240                                                                            |
| WW1 MID 1 SCHOENO. RHIZOMES  | 0.03 | 0.000044                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 MID 2 SCHOENO RHIZOMES   | 0.03 | 0.000018                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 BOTTOM SCHOENO. RHIZOMES | 0.03 | 0.000083                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 TOP SCHOENO. SHOOTS      | 0.01 | 0.000026                  | 0.0046606                                                                            | 0.0851170                                        | 0.00027                                               | 0.0320                                                  | 0.0045                                                                            |
| WW2 MID 1 SCHOENO. SHOOTS    | 0.00 | 0.000009                  |                                                                                      |                                                  | 0.00001                                               | 0.0222                                                  |                                                                                   |
| WW2 MID 2 SCHOENO. SHOOTS    | 0.00 | 0.000012                  |                                                                                      |                                                  | 0.00001                                               | 0.0313                                                  |                                                                                   |
| WW2 BOTTOM SCHOENO SHOOT     | 0.01 | 0.000014                  |                                                                                      |                                                  | 0.00001                                               | 0.0413                                                  |                                                                                   |
| WW2 TOP SCHOENO. ROOTS       | 0.06 | 0.000180                  | 0.0456182                                                                            |                                                  |                                                       |                                                         | 0.0490                                                                            |
| WW2 MID 1 SCHOENO. ROOTS     | 0.05 | 0.000109                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 MID 2 SCHOENO. ROOTS     | 0.05 | 0.000224                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 BOTTOM SCHOENO. ROOTS    | 0.04 | 0.000095                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 TOP SCHOENO. RHIZOMES    | 0.04 | 0.000066                  | 0.0348382                                                                            |                                                  |                                                       |                                                         | 0.0498                                                                            |
| WW2 MID 1 SCHOENO. RHIZOMES  | 0.04 | 0.000074                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 MID 2 SCHOENO. RHIZOMES  | 0.03 | 0.000055                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 BOTTOM SCHOENO. RHIZOMES | 0.07 | 0.000270                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 TOP SCHOENO. SHOOTS      | 0.01 | 0.000041                  | 0.0172103                                                                            | 0.1344835                                        | 0.00033                                               | 0.0286                                                  | 0.0076                                                                            |
| WW4 MID 1 SCHOENO.SHOOTS     | 0.01 | 0.000061                  |                                                                                      |                                                  | 0.00006                                               | 0.0236                                                  |                                                                                   |
| WW4 MID 2 SCHOENO.SHOOTS     | 0.01 | 0.000023                  |                                                                                      |                                                  | 0.00002                                               | 0.0162                                                  |                                                                                   |
| WW4 BOTTOM SCHOENO.SHOOTS    | 0.00 | 0.000011                  |                                                                                      |                                                  | 0.00001                                               | 0.0162                                                  |                                                                                   |
| WW4 TOP SCHOENO. ROOTS       | 0.03 | 0.000123                  | 0.0707608                                                                            |                                                  |                                                       |                                                         | 0.0326                                                                            |

| Paddock and Plants           | Fe   | Total pollutant mass (kg) | Average plants compartment pollutant mass (kg) within a paddock with number of plots | Total Average pollutant mass (kg) within paddock | Total pollutant mass per plant (N=4) within a paddock | weighted concentration per plant (N=4) within a paddock | weighted concentration per kg of Shoot, Roots and Rhizomes (N=3) within a paddock |
|------------------------------|------|---------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|
|                              | %    |                           |                                                                                      |                                                  |                                                       | mg/kg                                                   |                                                                                   |
| WW4 MID 1 SCHOENO. ROOTS     | 0.03 | 0.000230                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 MID 2 SCHOENO. ROOTS     | 0.03 | 0.000111                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 BOTTOM SCHOENO. ROOTS    | 0.03 | 0.000102                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 TOP SHOENO. RHIZOMES     | 0.04 | 0.000163                  | 0.0465124                                                                            |                                                  |                                                       |                                                         | 0.0247                                                                            |
| WW4 MID 1 SCHOENO. RHIZOMES  | 0.02 | 0.000079                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 MID 2 SCHOENO. RHIZOMES  | 0.01 | 0.000058                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 BOTTOM SCHOENO. RHIZOMES | 0.02 | 0.000072                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW6 TOP SCHOENO.SHOOTS       | 0.01 | 0.000020                  | 0.0031041                                                                            | 0.0244692                                        | 0.00022                                               | 0.0225                                                  | 0.0061                                                                            |
| WW6 MID 1 SCHOENO.SHOOTS     | 0.01 | 0.000025                  |                                                                                      |                                                  | 0.00002                                               | 0.0200                                                  |                                                                                   |
| WW6 MID 2 SCHOENO. SHOOTS    | 0.00 | 0.000021                  |                                                                                      |                                                  | 0.00002                                               | 0.0152                                                  |                                                                                   |
| WW6 BOTTOM SCHOENO. SHOOTS   | 0.01 | 0.000016                  |                                                                                      |                                                  | 0.00002                                               | 0.0181                                                  |                                                                                   |
| WW6 TOP SCHOENO. ROOTS       | 0.05 | 0.000123                  | 0.0112456                                                                            |                                                  |                                                       |                                                         | 0.0351                                                                            |
| WW6 MID 1 SCHOENO. ROOTS     | 0.02 | 0.000058                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW6 MID 2 SCHOENO. ROOTS     | 0.04 | 0.000076                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW6 BOTTOM SCHOENO. ROOTS    | 0.03 | 0.000043                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW6 TOP SCHOENO. RHIZOMES    | 0.02 | 0.000074                  | 0.0101195                                                                            |                                                  |                                                       |                                                         | 0.0217                                                                            |
| WW6 MID 1 SCHOENO. RHIZOMES  | 0.03 | 0.000065                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW6 MID 2 SCHOENO RHIZOMES   | 0.02 | 0.000057                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW6 BOTTOM SCHOENO. RHIZOMES | 0.02 | 0.000074                  |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |

| Paddock and Plants           | Cu      | Total pollutant mass (mg) | Average plants compartment pollutant mass (mg) within a paddock with number of plots | Total Average pollutant mass (mg) within paddock | Total pollutant mass per plant (N=4) within a paddock | weighted concentration per plant (N=4) within a paddock | weighted concentration per kg of Shoot, Roots and Rhizomes (N=3) within a paddock | Zn      | Total pollutant mass (mg) | Average plants compartment pollutant mass (mg) within a paddock with number of plots | Total Average pollutant mass (mg) within paddock | Total pollutant mass per plant (N=4) within a paddock | weighted concentration per plant (N=4) within a paddock | weighted concentration per kg of Shoot, Roots and Rhizomes (N=3) within a paddock |
|------------------------------|---------|---------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|---------|---------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|
|                              | mg/kg   |                           |                                                                                      |                                                  |                                                       | mg/kg                                                   |                                                                                   | mg/kg   |                           |                                                                                      |                                                  |                                                       | mg/kg                                                   |                                                                                   |
| WW1 TOP SCHOENO SHOOTS       | 0.02100 | 0.00009                   | 0.0233343                                                                            | 0.0608922                                        | 0.00032                                               | 0.0419                                                  | 0.0435                                                                            | 0.01380 | 0.00006                   | 0.0125403                                                                            | 0.0305339                                        | 0.00016                                               | 0.0164                                                  | 0.0234                                                                            |
| WW1 MID 1 SCHOENO SHOOTS     | 0.04100 | 0.00012                   |                                                                                      |                                                  | 0.00040                                               | 0.0565                                                  |                                                                                   | 0.01100 | 0.00003                   |                                                                                      |                                                  | 0.00018                                               | 0.0216                                                  |                                                                                   |
| WW1 MID 2 SCHOENO SHOOTS     | 0.02320 | 0.00007                   |                                                                                      |                                                  | 0.00020                                               | 0.0369                                                  |                                                                                   | 0.01190 | 0.00004                   |                                                                                      |                                                  | 0.00015                                               | 0.0181                                                  |                                                                                   |
| WW1 BOTTOM SCHOENO SHOOTS    | 0.08050 | 0.00035                   |                                                                                      |                                                  | 0.00070                                               | 0.0737                                                  |                                                                                   | 0.04850 | 0.00021                   |                                                                                      |                                                  | 0.00033                                               | 0.0311                                                  |                                                                                   |
| WW1 TOP SCHOENO. ROOTS       | 0.08880 | 0.00014                   | 0.0243031                                                                            |                                                  |                                                       |                                                         | 0.0800                                                                            | 0.02340 | 0.00004                   | 0.0073009                                                                            |                                                  |                                                       |                                                         | 0.0240                                                                            |
| WW1 MID 1 SCHOENO. ROOTS     | 0.08060 | 0.00022                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   | 0.01590 | 0.00004                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 MID 2 SCHOENO. ROOTS     | 0.05660 | 0.00011                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   | 0.04270 | 0.00008                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 BOTTOM SCHOENO. ROOTS    | 0.09500 | 0.00018                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   | 0.01750 | 0.00003                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 TOP SCHOENO. RHIZOMES    | 0.04630 | 0.00009                   | 0.0132548                                                                            |                                                  |                                                       |                                                         | 0.0484                                                                            | 0.03420 | 0.00007                   | 0.0106926                                                                            |                                                  |                                                       |                                                         | 0.0390                                                                            |
| WW1 MID 1 SCHOENO. RHIZOMES  | 0.04280 | 0.00007                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   | 0.07020 | 0.00011                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 MID 2 SCHOENO RHIZOMES   | 0.04480 | 0.00003                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   | 0.04920 | 0.00003                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW1 BOTTOM SCHOENO. RHIZOMES | 0.05270 | 0.00017                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   | 0.02570 | 0.00009                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 TOP SCHOENO. SHOOTS      | 0.02900 | 0.00010                   | 0.0310085                                                                            | 0.1970307                                        | 0.00071                                               | 0.0838                                                  | 0.0297                                                                            | 0.01660 | 0.00006                   | 0.0107825                                                                            | 0.0588951                                        | 0.00020                                               | 0.0192                                                  | 0.0103                                                                            |
| WW2 MID 1 SCHOENO. SHOOTS    | 0.03260 | 0.00015                   |                                                                                      |                                                  | 0.00066                                               | 0.0757                                                  |                                                                                   | 0.00540 | 0.00003                   |                                                                                      |                                                  | 0.00016                                               | 0.0138                                                  |                                                                                   |
| WW2 MID 2 SCHOENO. SHOOTS    | 0.02970 | 0.00009                   |                                                                                      |                                                  | 0.00080                                               | 0.0860                                                  |                                                                                   | 0.00960 | 0.00003                   |                                                                                      |                                                  | 0.00027                                               | 0.0264                                                  |                                                                                   |
| WW2 BOTTOM SCHOENO SHOOT     | 0.02570 | 0.00007                   |                                                                                      |                                                  | 0.00046                                               | 0.0498                                                  |                                                                                   | 0.01120 | 0.00003                   |                                                                                      |                                                  | 0.00016                                               | 0.0189                                                  |                                                                                   |
| WW2 TOP SCHOENO. ROOTS       | 0.14040 | 0.00044                   | 0.1179164                                                                            |                                                  |                                                       |                                                         | 0.1267                                                                            | 0.02010 | 0.00006                   | 0.0144590                                                                            |                                                  |                                                       |                                                         | 0.0155                                                                            |
| WW2 MID 1 SCHOENO. ROOTS     | 0.17140 | 0.00035                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   | 0.02470 | 0.00005                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 MID 2 SCHOENO. ROOTS     | 0.13730 | 0.00064                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   | 0.01270 | 0.00006                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 BOTTOM SCHOENO. ROOTS    | 0.05700 | 0.00015                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   | 0.00800 | 0.00002                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 TOP SCHOENO. RHIZOMES    | 0.09350 | 0.00017                   | 0.0481058                                                                            |                                                  |                                                       |                                                         | 0.0687                                                                            | 0.03990 | 0.00007                   | 0.0336537                                                                            |                                                  |                                                       |                                                         | 0.0481                                                                            |
| WW2 MID 1 SCHOENO. RHIZOMES  | 0.07740 | 0.00016                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   | 0.04000 | 0.00008                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 MID 2 SCHOENO. RHIZOMES  | 0.04360 | 0.00008                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   | 0.10620 | 0.00019                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW2 BOTTOM SCHOENO. RHIZOMES | 0.06350 | 0.00023                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   | 0.02870 | 0.00011                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 TOP SCHOENO. SHOOTS      | 0.02550 | 0.00009                   | 0.0620876                                                                            | 0.6182424                                        | 0.00085                                               | 0.0741                                                  | 0.0275                                                                            | 0.01830 | 0.00006                   | 0.0344035                                                                            | 0.1426138                                        | 0.00037                                               | 0.0352                                                  | 0.0153                                                                            |
| WW4 MID 1 SCHOENO.SHOOTS     | 0.03830 | 0.00022                   |                                                                                      |                                                  | 0.00243                                               | 0.1551                                                  |                                                                                   | 0.01880 | 0.00011                   |                                                                                      |                                                  | 0.00033                                               | 0.0184                                                  |                                                                                   |
| WW4 MID 2 SCHOENO.SHOOTS     | 0.02140 | 0.00009                   |                                                                                      |                                                  | 0.00088                                               | 0.0740                                                  |                                                                                   | 0.01760 | 0.00007                   |                                                                                      |                                                  | 0.00027                                               | 0.0226                                                  |                                                                                   |
| WW4 BOTTOM SCHOENO.SHOOTS    | 0.02140 | 0.00010                   |                                                                                      |                                                  | 0.00079                                               | 0.0686                                                  |                                                                                   | 0.00660 | 0.00003                   |                                                                                      |                                                  | 0.00017                                               | 0.0131                                                  |                                                                                   |
| WW4 TOP SCHOENO. ROOTS       | 0.11330 | 0.00040                   | 0.4144901                                                                            |                                                  |                                                       |                                                         | 0.1910                                                                            | 0.01290 | 0.00005                   | 0.0348464                                                                            |                                                  |                                                       |                                                         | 0.0161                                                                            |
| WW4 MID 1 SCHOENO. ROOTS     | 0.28180 | 0.00189                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   | 0.01620 | 0.00011                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 MID 2 SCHOENO. ROOTS     | 0.15840 | 0.00059                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   | 0.02210 | 0.00008                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 BOTTOM SCHOENO. ROOTS    | 0.12850 | 0.00044                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   | 0.01250 | 0.00004                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 TOP SHOENO. RHIZOMES     | 0.08010 | 0.00036                   | 0.1416646                                                                            |                                                  |                                                       |                                                         | 0.0752                                                                            | 0.05780 | 0.00026                   | 0.0733639                                                                            |                                                  |                                                       |                                                         | 0.0389                                                                            |
| WW4 MID 1 SCHOENO. RHIZOMES  | 0.09960 | 0.00032                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   | 0.03620 | 0.00012                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 MID 2 SCHOENO. RHIZOMES  | 0.05110 | 0.00020                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   | 0.02970 | 0.00012                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW4 BOTTOM SCHOENO. RHIZOMES | 0.07360 | 0.00025                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   | 0.02760 | 0.00009                   |                                                                                      |                                                  |                                                       |                                                         |                                                                                   |
| WW6 TOP SCHOENO.SHOOTS       | 0.02160 | 0.00008                   | 0.0141287                                                                            | 0.0625022                                        | 0.00043                                               | 0.0444                                                  | 0.0278                                                                            | 0.00870 | 0.00003                   | 0.0064626                                                                            | 0.0331063                                        | 0.00034                                               | 0.0343                                                  | 0.0127                                                                            |

| Paddock and Plants          | Cu      | Total<br>pollutant<br>mass<br>(mg) | Average<br>plants<br>compartment<br>pollutant<br>mass (mg)<br>within a<br>paddock<br>with number<br>of plots | Total<br>Average<br>pollutant<br>mass (mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentration<br>per plant<br>(N=4) within<br>a paddock | weighted<br>concentration<br>per kg of<br>Shoot, Roots<br>and<br>Rhizomes<br>(N=3) within<br>a paddock | Zn      | Total<br>pollutant<br>mass<br>(mg) | Average<br>plants<br>compartment<br>pollutant<br>mass (mg)<br>within a<br>paddock<br>with number<br>of plots | Total<br>Average<br>pollutant<br>mass<br>(mg)<br>within<br>paddock | Total<br>pollutant<br>mass per<br>plant<br>(N=4)<br>within a<br>paddock | weighted<br>concentration<br>per plant<br>(N=4) within<br>a paddock | weighted<br>concentration<br>per kg of<br>Shoot, Roots<br>and<br>Rhizomes<br>(N=3) within<br>a paddock |
|-----------------------------|---------|------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------|------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|                             | mg/kg   |                                    |                                                                                                              |                                                                 |                                                                         | mg/kg                                                               |                                                                                                        | mg/kg   |                                    |                                                                                                              |                                                                    |                                                                         | mg/kg                                                               |                                                                                                        |
| WW6 MID 1 SCHOENO.SHOOTS    | 0.03140 | 0.00009                            |                                                                                                              |                                                                 | 0.00036                                                                 | 0.0488                                                              |                                                                                                        | 0.01750 | 0.00005                            |                                                                                                              |                                                                    | 0.00019                                                                 | 0.0223                                                              |                                                                                                        |
| WW6 MID 2 SCHOENO. SHOOTS   | 0.02760 | 0.00013                            |                                                                                                              |                                                                 | 0.00044                                                                 | 0.0439                                                              |                                                                                                        | 0.01100 | 0.00005                            |                                                                                                              |                                                                    | 0.00020                                                                 | 0.0173                                                              |                                                                                                        |
| WW6 BOTTOM SCHOENO. SHOOTS  | 0.03490 | 0.00007                            |                                                                                                              |                                                                 | 0.00043                                                                 | 0.0588                                                              |                                                                                                        | 0.01750 | 0.00003                            |                                                                                                              |                                                                    | 0.00015                                                                 | 0.0272                                                              |                                                                                                        |
| WW6 TOP SCHOENO. ROOTS      | 0.07440 | 0.00018                            | 0.0234317                                                                                                    |                                                                 |                                                                         |                                                                     | 0.0732                                                                                                 | 0.05150 | 0.00013                            | 0.0086441                                                                                                    |                                                                    |                                                                         |                                                                     | 0.0270                                                                                                 |
| WW6 MID 1 SCHOENO. ROOTS    | 0.05780 | 0.00015                            |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                        | 0.02070 | 0.00005                            |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW6 MID 2 SCHOENO. ROOTS    | 0.06080 | 0.00012                            |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                        | 0.01530 | 0.00003                            |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW6 BOTTOM SCHOENO. ROOTS   | 0.11310 | 0.00017                            |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                        | 0.01390 | 0.00002                            |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |
| WW6 TOP SCHOENO. RHIZOMES   | 0.04840 | 0.00016                            | 0.0249419                                                                                                    |                                                                 |                                                                         |                                                                     | 0.0535                                                                                                 | 0.05490 | 0.00019                            | 0.0179996                                                                                                    |                                                                    |                                                                         |                                                                     | 0.0386                                                                                                 |
| WW6 MID 1 SCHOENO. RHIZOMES | 0.06460 | 0.00012                            |                                                                                                              |                                                                 |                                                                         |                                                                     |                                                                                                        | 0.04590 | 0.00009                            |                                                                                                              |                                                                    |                                                                         |                                                                     |                                                                                                        |

| Paddock and Plants           | U      | Total pollutant mass (mg) | Average plants compartment pollutant mass (mg) within a paddock with number of plots | Total Average pollutant mass (mg) within a paddock | Total pollutant mass per plant (N=4) within a paddock | weighted concentration per plant (N=4) within a paddock | weighted concentration per kg of Shoot, Roots and Rhizomes (N=3) within a paddock |
|------------------------------|--------|---------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|
|                              | mg/kg  |                           |                                                                                      |                                                    |                                                       | mg/kg                                                   |                                                                                   |
| WW1 TOP SCHOENO SHOOTS       | 0.0118 | 0.000048                  | 0.0065084                                                                            | 0.0136849                                          | 0.00009                                               | 0.0119                                                  | 0.0121                                                                            |
| WW1 MID 1 SCHOENO SHOOTS     | 0.0106 | 0.000030                  |                                                                                      |                                                    | 0.00008                                               | 0.0114                                                  |                                                                                   |
| WW1 MID 2 SCHOENO SHOOTS     | 0.0104 | 0.000032                  |                                                                                      |                                                    | 0.00006                                               | 0.0114                                                  |                                                                                   |
| WW1 BOTTOM SCHOENO SHOOTS    | 0.0147 | 0.000064                  |                                                                                      |                                                    | 0.00013                                               | 0.0137                                                  |                                                                                   |
| WW1 TOP SCHOENO. ROOTS       | 0.0196 | 0.000032                  | 0.0044926                                                                            |                                                    |                                                       |                                                         | 0.0148                                                                            |
| WW1 MID 1 SCHOENO. ROOTS     | 0.0139 | 0.000037                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW1 MID 2 SCHOENO, ROOTS     | 0.0136 | 0.000026                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW1 BOTTOM SCHOENO. ROOTS    | 0.0131 | 0.000025                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW1 TOP SCHOENO. RHIZOMES    | 0.0057 | 0.000011                  | 0.0026839                                                                            |                                                    |                                                       |                                                         | 0.0098                                                                            |
| WW1 MID 1 SCHOENO. RHIZOMES  | 0.0086 | 0.000013                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW1 MID 2 SCHOENO RHIZOMES   | 0.0092 | 0.000005                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW1 BOTTOM SCHOENO. RHIZOMES | 0.0128 | 0.000042                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW2 TOP SCHOENO. SHOOTS      | 0.0113 | 0.000040                  | 0.0091300                                                                            | 0.0364367                                          | 0.00012                                               | 0.0119                                                  | 0.0087                                                                            |
| WW2 MID 1 SCHOENO. SHOOTS    | 0.0060 | 0.000028                  |                                                                                      |                                                    | 0.00011                                               | 0.0114                                                  |                                                                                   |
| WW2 MID 2 SCHOENO. SHOOTS    | 0.0095 | 0.000027                  |                                                                                      |                                                    | 0.00013                                               | 0.0114                                                  |                                                                                   |
| WW2 BOTTOM SCHOENO SHOOT     | 0.0092 | 0.000026                  |                                                                                      |                                                    | 0.00012                                               | 0.0137                                                  |                                                                                   |
| WW2 TOP SCHOENO. ROOTS       | 0.0186 | 0.000058                  | 0.0179369                                                                            |                                                    |                                                       |                                                         | 0.0193                                                                            |
| WW2 MID 1 SCHOENO. ROOTS     | 0.0276 | 0.000057                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW2 MID 2 SCHOENO. ROOTS     | 0.0213 | 0.000099                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW2 BOTTOM SCHOENO. ROOTS    | 0.0100 | 0.000026                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW2 TOP SCHOENO. RHIZOMES    | 0.0146 | 0.000027                  | 0.0093698                                                                            |                                                    |                                                       |                                                         | 0.0134                                                                            |
| WW2 MID 1 SCHOENO. RHIZOMES  | 0.0137 | 0.000028                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW2 MID 2 SCHOENO. RHIZOMES  | 0.0022 | 0.000004                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW2 BOTTOM SCHOENO. RHIZOMES | 0.0180 | 0.000066                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW4 TOP SCHOENO. SHOOTS      | 0.0093 | 0.000032                  | 0.0223644                                                                            | 0.0681699                                          | 0.00012                                               | 0.0119                                                  | 0.0000                                                                            |
| WW4 MID 1 SCHOENO.SHOOTS     | 0.0120 | 0.000069                  |                                                                                      |                                                    | 0.00021                                               | 0.0114                                                  |                                                                                   |
| WW4 MID 2 SCHOENO.SHOOTS     | 0.0114 | 0.000048                  |                                                                                      |                                                    | 0.00011                                               | 0.0114                                                  |                                                                                   |
| WW4 BOTTOM SCHOENO.SHOOTS    | 0.0065 | 0.000030                  |                                                                                      |                                                    | 0.00010                                               | 0.0137                                                  |                                                                                   |
| WW4 TOP SCHOENO. ROOTS       | 0.0096 | 0.000034                  | 0.0296530                                                                            |                                                    |                                                       |                                                         | 0.0137                                                                            |
| WW4 MID 1 SCHOENO. ROOTS     | 0.0155 | 0.000104                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW4 MID 2 SCHOENO. ROOTS     | 0.0133 | 0.000049                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW4 BOTTOM SCHOENO. ROOTS    | 0.0147 | 0.000050                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW4 TOP SHOENO. RHIZOMES     | 0.0127 | 0.000057                  | 0.0161525                                                                            |                                                    |                                                       |                                                         | 0.0086                                                                            |
| WW4 MID 1 SCHOENO. RHIZOMES  | 0.0129 | 0.000042                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW4 MID 2 SCHOENO. RHIZOMES  | 0.0020 | 0.000008                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW4 BOTTOM SCHOENO. RHIZOMES | 0.0067 | 0.000023                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW6 TOP SCHOENO.SHOOTS       | 0.0067 | 0.000025                  | 0.0040965                                                                            | 0.0113742                                          | 0.00007                                               | 0.0119                                                  | 0.0081                                                                            |
| WW6 MID 1 SCHOENO.SHOOTS     | 0.0109 | 0.000033                  |                                                                                      |                                                    | 0.00008                                               | 0.0114                                                  |                                                                                   |
| WW6 MID 2 SCHOENO. SHOOTS    | 0.0062 | 0.000030                  |                                                                                      |                                                    | 0.00007                                               | 0.0114                                                  |                                                                                   |
| WW6 BOTTOM SCHOENO. SHOOTS   | 0.0110 | 0.000021                  |                                                                                      |                                                    | 0.00007                                               | 0.0137                                                  |                                                                                   |
| WW6 TOP SCHOENO. ROOTS       | 0.0105 | 0.000026                  | 0.0034632                                                                            |                                                    |                                                       |                                                         | 0.0108                                                                            |
| WW6 MID 1 SCHOENO. ROOTS     | 0.0116 | 0.000029                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW6 MID 2 SCHOENO. ROOTS     | 0.0085 | 0.000017                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW6 BOTTOM SCHOENO. ROOTS    | 0.0131 | 0.000020                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |
| WW6 TOP SCHOENO. RHIZOMES    | 0.0065 | 0.000022                  | 0.0038146                                                                            |                                                    |                                                       |                                                         | 0.0082                                                                            |
| WW6 MID 1 SCHOENO. RHIZOMES  | 0.0121 | 0.000023                  |                                                                                      |                                                    |                                                       |                                                         |                                                                                   |

Appendix C: The actual *in situ* stream raw data

| West Wits collected byIke Ramped, Maxine Joubert and Tinyiko Salome Mthomben                 | 20/12/2013   |          |            |                      |            |                       |      |                       |                |             |
|----------------------------------------------------------------------------------------------|--------------|----------|------------|----------------------|------------|-----------------------|------|-----------------------|----------------|-------------|
| Sampling <i>In Situ</i> Data                                                                 |              |          |            |                      |            |                       |      |                       |                |             |
| ww 1 = Inflow, ww 2 = middle and ww3 = outflow                                               |              |          |            |                      |            |                       |      |                       |                |             |
| Total number of water samples collected 15 (Paddock ) + 2 (Main road and Mangaan drive) = 17 |              |          |            |                      |            |                       |      |                       |                |             |
| Paddock (Paddock )                                                                           | Co-ordinates |          | Temp. (°C) | DO (mg/l) 20/12/2013 | EC (mS/cm) | EC (µS/cm) 20/12/2013 | pH   | Redox (mV) 20/12/2013 | Nitrate (mg/l) | Sample Type |
| 1 ww 1                                                                                       | 26.43024     | 27.37124 | 27.2       | 7.45                 | 4.25       | 4250                  | 7.17 | 85.5                  | 0.11           | water       |
| Paddock 1 ww 2                                                                               | 26.43032     | 27.37118 | 28.8       | 6.15                 | 4.58       | 4580                  | 6.76 | 100.4                 | 0.1            | water       |
| Paddock 1 ww 3                                                                               | 26.43035     | 27.37115 | 28.8       | 6.15                 | 4.83       | 4830                  | 6.76 | 143.3                 | 0.1            | water       |
| Paddock 2 ww 1                                                                               | 26.43044     | 27.37108 | 27.9       | 7.38                 | 4.57       | 4570                  | 7.65 | 137.1                 | 0.16           | water       |
| Paddock 2 ww 2                                                                               | .            | .        | 28.1       | 5.18                 | 7.21       | 7210                  | 7.61 | 169.1                 | 0.22           | water       |
| Paddock 2 ww 3                                                                               | 26.43057     | 27.37098 | 28.9       | 5.18                 | 5.6        | 5600                  | 7.04 | 148.9                 | 0.16           | water       |
| Paddock 3 ww 1                                                                               | 26.43069     | 27.37087 | 28.9       | 4.85                 | 4.88       | 4880                  | 7.01 | 168.3                 | 0.1            | water       |
| Paddock 3 ww 2                                                                               | .            | .        | 28.9       | 3.94                 | 2.65       | 2650                  | 7.11 | 126.6                 | 0.12           | Water       |
| Paddock 3 ww 3                                                                               | 26.43083     | 27.37077 | 28.9       | 4.86                 | 4.86       | 4860                  | 7.07 | 145.3                 | 0.15           | water       |
| Paddock 4 ww 1                                                                               | 26.43093     | 27.37068 | 28.6       | 5.09                 | 4.61       | 4610                  | 7.23 | 125.5                 | 0.12           | water       |
| Paddock 4 ww 2                                                                               | 26.43104     | 27.37063 | 28.6       | 4.85                 | 5.11       | 5110                  | 7.2  | 116.2                 | 0.16           | water       |
| Paddock 4 ww 3                                                                               | 26.43116     | 27.37059 | 27.9       | 4.28                 | 4.93       | 4930                  | 6.87 | 127.2                 | 0.09           | water       |
| Paddock 5 ww 1                                                                               | 26.43128     | 27.37052 | 28.7       | 5.19                 | 4.71       | 4710                  | 6.94 | 125                   | 0.11           | water       |
| Paddock 5 ww 2                                                                               | .            | .        | 29.4       | 4.98                 | 4.81       | 4810                  | 6.79 | 124.8                 | 0.11           | water       |
| Paddock 5 ww 3                                                                               | 26.43139     | 27.37048 | 26.8       | 3.39                 | 4.5        | 4500                  | 6.94 | 127                   | 0.5            | water       |
| Paddock 6 ww 1                                                                               | 26.43157     | 27.37035 | 28.8       | 5.28                 | 5.19       | 5190                  | 6.25 | 84.9                  | 0.07           | water       |
| Paddock 6 ww 2                                                                               | .            | .        | 29.1       | 5.42                 | 5.72       | 5720                  | 6.34 | 70.9                  | 0.08           | water       |
| Paddock 6 ww 3                                                                               | 26.4317      | 27.37029 | 26.8       | 4.09                 | 5.05       | 5050                  | 6.77 | 125.3                 | 0.12           | water       |
| Paddock 7 ww 1                                                                               | 26.43183     | 27.37021 | 26.6       | 3.94                 | 5.42       | 5420                  | 6.71 | 110.1                 | 0.8            | Water       |
| Paddock 7 ww 2                                                                               | 26.43192     | 27.37021 | 28.4       | 5.7                  | 5.64       | 5640                  | 6.73 | 84.6                  | 0.9            | Water       |
| Paddock 7 ww 3                                                                               | 26.43195     | 27.37015 | 28.1       | 3.94                 | 5.23       | 5230                  | 6.72 | 84.2                  | 0.9            | water       |
| 8.1                                                                                          | 26.43255     | 27.36989 | 26.2       | 7.03                 | 4.32       | 4320                  | 6.9  | 126.5                 | 0.1            | Water       |
| 8.2                                                                                          | .            | .        | 26.8       | 6.41                 | 5.83       | 5830                  | 6.92 | 88.9                  | 0.1            | Water       |
| 8.3                                                                                          | 26.43263     | 27.36951 | 26.8       | 6.63                 | 5.97       | 5970                  | 6.91 | 101.1                 | 0.1            | Water       |
| 9.1                                                                                          | 26.43274     | 27.3694  | 26.8       | 5.97                 | 5.81       | 5810                  | 6.78 | 72.1                  | 0.9            | Water       |
| 9.2                                                                                          | .            | .        | 26.6       | 6.15                 | 5.55       | 5550                  | 6.77 | 78.9                  | 0.9            | Water       |
| 9.3                                                                                          | 26.43289     | 27.36932 | 26.1       | 6.21                 | 5.28       | 5280                  | 6.73 | 79.4                  | 0.9            | Water       |
| 10.1                                                                                         | 26.43303     | 27.36928 | 24.8       | 6.6                  | 4.98       | 4980                  | 6.56 | 110.7                 | 0.5            | Water       |
| 10.2                                                                                         | 26.43315     | 27.36923 | 26.8       | 7.8                  | 4.6        | 4600                  | 6.13 | 88.6                  | 0.05           | Water       |
| 10.3                                                                                         | 26.43323     | 27.36919 | 26.6       | 6.94                 | 4.71       | 4710                  | 6.06 | 94.5                  | 0.08           | Water       |
| 11.1                                                                                         | 26.43331     | 27.36913 | 26.4       | 5.09                 | 4.69       | 4690                  | 6.05 | 98.2                  | 0.05           | Water       |
| 11.2                                                                                         | .            | .        | 25.3       | 5.92                 | 4.62       | 4620                  | 6.28 | 111.8                 | 0.06           | Water       |
| 11.3                                                                                         | 26.43348     | 27.36894 | 24.5       | 6.99                 | 4.2        | 4200                  | 6.7  | 85.2                  | 0.07           | Water       |
| 12.1                                                                                         | 26.43366     | 27.3688  | 24.2       | 7.34                 | 4.44       | 4440                  | 6.62 | 148.8                 | 0.07           | Water       |

| West Wits collected byIke Ramped, Maxine Joubert and Tinyiko Salome Mthomben                 | 20/12/2013   |              |               |                         |               |                       |      |                             |                   |                |
|----------------------------------------------------------------------------------------------|--------------|--------------|---------------|-------------------------|---------------|-----------------------|------|-----------------------------|-------------------|----------------|
| Sampling <i>In Situ</i> Data                                                                 |              |              |               |                         |               |                       |      |                             |                   |                |
| ww 1 = Inflow, ww 2 = middle and ww3 = outflow                                               |              |              |               |                         |               |                       |      |                             |                   |                |
| Total number of water samples collected 15 (Paddock ) + 2 (Main road and Mangaan drive) = 17 |              |              |               |                         |               |                       |      |                             |                   |                |
| Paddock (Paddock )                                                                           | Co-ordinates |              | Temp.<br>(°C) | DO (mg/l)<br>20/12/2013 | EC<br>(mS/cm) | EC (µS/cm) 20/12/2013 | pH   | Redox<br>(mV)<br>20/12/2013 | Nitrate<br>(mg/l) | Sample<br>Type |
| 12.2                                                                                         | .            | .            | 23.4          | 7.11                    | 4.14          | 4140                  | 6.51 | 138.2                       | 0.07              | Water          |
| 12.3                                                                                         | 26.43386     | 27.36864     | 22.1          | 6.11                    | 4.57          | 4570                  | 6.59 | 130.9                       | 0.04              | Water          |
| 13.1                                                                                         | 26.43402     | 27.36847     | 22.6          | 7.34                    | 4.44          | 4440                  | 6.59 | 128.3                       | 0.07              | Water          |
| 13.2                                                                                         | 26.43409     | 27.3684      | 23.4          | 7.11                    | 4.14          | 4140                  | 6.41 | 151.9                       | 0.06              | Water          |
| 13.3                                                                                         | 26.4341      | 27.36833     | 22.1          | 6.11                    | 4.57          | 4570                  | 6.03 | 194.3                       | 0.4               | Water          |
| 14.1                                                                                         | 26.43446     | 27.36837     | 20.8          | 4.02                    | 3.88          | 3880                  | 5.87 | 101.3                       | 0.05              | Water          |
| 14.2                                                                                         | .            | .            | 20.8          | 4.35                    | 3.94          | 3940                  | 5.86 | 63.8                        | 0.05              | Water          |
| 14.3                                                                                         | 26.43499     | 27.36805     | 20.8          | 6.39                    | 4.89          | 4890                  | 5.9  | 60.5                        | 0.05              | Water          |
| 15.1                                                                                         | 26.43506     | 27.36787     | 20.2          | 2.35                    | 4.51          | 4510                  | 6.03 | 54.4                        | 0.08              | Water          |
| 15.2                                                                                         | 26.43511     | 27.36782     | 21.8          | 6.51                    | 4.21          | 4210                  | 5.69 | 75.5                        | 0.04              | Water          |
| 15.3                                                                                         | 26.43521     | 27.3678      | 20.2          | 4.66                    | 3.93          | 3930                  | 5.75 | 54.9                        | 0.04              | Water          |
| 16.1                                                                                         | 26.4351      | 27.36796     | 21.6          | 5.71                    | 4.49          | 4490                  | 5.8  | 94.3                        | 0.04              | Water          |
| 16.2                                                                                         | 26.43511     | 27.36782     | 22.9          | 4.65                    | 4.45          | 4450                  | 6.02 | 55.5                        | 0.07              | Water          |
| 16.3                                                                                         | 26.43521     | 27.3678      | 23.01         | 3.17                    | 4.21          | 4210                  | 6.17 | 75.5                        | 0.06              | Water          |
| M drive                                                                                      | 26.26123     | 27.22061     | 22.2          | 6.51                    | 1.04          | 1040                  | 7.75 | 201.9                       | 0.03              | Water          |
| -1.1                                                                                         | 26.26158     | 27.23027     | 21.2          | 5.92                    | 1.75          | 1750                  | 6.73 | 148.7                       | 0.15              | Water          |
| -1.2                                                                                         | 26.26161     | 27.2202      | 22.7          | 5.14                    | 1.48          | 1480                  | 6.96 | 169.6                       | 0.7               | Water          |
| -1.3                                                                                         | 26.26165     | 27.22014     | 23.4          | 5.41                    | 5.41          | 5410                  | 7.01 | 104.7                       | 0.18              | Water          |
| -2.1                                                                                         | 26.26195     | 27.21995     | 22.4          | 5.25                    | 5.44          | 5440                  | 7.18 | 185.2                       | 0.35              | Water          |
| -2.2                                                                                         | 26.43656     | 27.36665     | 22.6          | 5.77                    | 4.66          | 4660                  | 7.25 | 157.2                       | 0.33              | Water          |
| -2.3                                                                                         | 26.43665     | 27.3665      | 22.2          | 5.23                    | 4.321         | 4321                  | 7.34 | 159.9                       | 0.18              | Water          |
| Main road drive                                                                              | 26. 26683    | 27.<br>21572 | 18            | 5.63                    | 0.47          | 470                   | 7.1  | 154.6                       | 0.03              | Water          |

Appendix C2 the sediment mass pool and concentration calculation by paddock compartment

| Paddocks (Interval Depth) | Fe (%) | Depth Weight | Fe weighte d (mg/kg) | Weighted mean concentratio n (mg/kg) | Bulk Density (kg/cm³) | Interval volume (cm³) | Sediment mass (kg) | whole sedimen t mass core | Actual mass pool (kg) | Sum of mass whole core pool (kg) | Paddoc k Area (m²) | Cores Area (cm³) | Paddock Over Core (estimated core numbers within a paddock) | Mass in paddock (kg) | Mass SUM (kg) (whole depth 30 cm) |
|---------------------------|--------|--------------|----------------------|--------------------------------------|-----------------------|-----------------------|--------------------|---------------------------|-----------------------|----------------------------------|--------------------|------------------|-------------------------------------------------------------|----------------------|-----------------------------------|
| WW1.1 (0-2 cm)            | 4.677  | 2            | 9.354                | 9.170067                             | 0.000663              | 353.4292              | 0.234316           | 3.51474                   | 0.010959              | 0.322304                         | 121.18             | 0.017671         | 6857.385                                                    | 75.14981             | 2210.163                          |
| WW1.1 (2-10 cm)           | 9.491  | 8            | 75.928               |                                      | 0.000663              | 1413.717              | 0.937264           |                           | 0.088956              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 610.0037             |                                   |
| WW1.1 (10-30cm)           | 9.491  | 20           | 189.82               |                                      | 0.000663              | 3534.292              | 2.34316            |                           | 0.222389              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 1525.009             |                                   |
|                           |        |              |                      |                                      |                       |                       |                    |                           |                       |                                  |                    |                  |                                                             |                      |                                   |
| WW1.2 (0-2cm)             | 6.546  | 2            | 13.092               | 9.000533                             | 0.000663              | 353.4292              | 0.234316           |                           | 0.015338              | 0.316345                         | 121.18             | 0.017671         | 6857.385                                                    | 105.1808             | 2169.302                          |
| WW1.2 (2-10cm)            | 8.388  | 8            | 67.104               |                                      | 0.000663              | 1413.717              | 0.937264           |                           | 0.078618              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 539.1119             |                                   |
| WW1.2 (10-30cm)           | 9.491  | 20           | 189.82               |                                      | 0.000663              | 3534.292              | 2.34316            |                           | 0.222389              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 1525.009             |                                   |
|                           |        |              |                      |                                      |                       |                       |                    |                           |                       |                                  |                    |                  |                                                             |                      |                                   |
| WW1.3 (0-2 cm)            | 6.058  | 2            | 12.116               | 7.584667                             | 0.000663              | 353.4292              | 0.234316           |                           | 0.014195              | 0.266581                         | 121.18             | 0.017671         | 6857.385                                                    | 97.33965             | 1828.051                          |
| WW1.3 (2-10cm)            | 7.008  | 8            | 56.064               |                                      | 0.000663              | 1413.717              | 0.937264           |                           | 0.065683              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 450.4168             |                                   |
| WW1.3 (10-30 cm)          | 7.968  | 20           | 159.36               |                                      | 0.000663              | 3534.292              | 2.34316            |                           | 0.186703              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 1280.294             |                                   |
|                           |        |              |                      |                                      |                       |                       |                    |                           |                       |                                  |                    |                  |                                                             |                      |                                   |
| WW2.1 (0-2 cm)            | 6.074  | 2            | 12.148               | 6.399333                             | 0.000663              | 353.4292              | 0.234316           |                           | 0.014232              | 0.22492                          | 121.18             | 0.017671         | 6857.385                                                    | 97.59673             | 1542.363                          |
| WW2.1 (2-10cm)            | 7.429  | 8            | 59.432               |                                      | 0.000663              | 1413.717              | 0.937264           |                           | 0.069629              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 477.4752             |                                   |
| WW2.1 (10-30 cm)          | 6.02   | 20           | 120.4                |                                      | 0.000663              | 3534.292              | 2.34316            |                           | 0.141058              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 967.2906             |                                   |
|                           |        |              |                      |                                      |                       |                       |                    |                           |                       |                                  |                    |                  |                                                             |                      |                                   |
| WW2.2 (0-2 cm)            | 5.629  | 2            | 11.258               | 6.162867                             | 0.000663              | 353.4292              | 0.234316           |                           | 0.01319               | 0.216609                         | 121.18             | 0.017671         | 6857.385                                                    | 90.4465              | 1485.37                           |
| WW2.2 (2-10 cm)           | 6.716  | 8            | 53.728               |                                      | 0.000663              | 1413.717              | 0.937264           |                           | 0.062947              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 431.6494             |                                   |
| WW2.2 (10-30 cm)          | 5.995  | 20           | 119.9                |                                      | 0.000663              | 3534.292              | 2.34316            |                           | 0.140472              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 963.2737             |                                   |
|                           |        |              |                      |                                      |                       |                       |                    |                           |                       |                                  |                    |                  |                                                             |                      |                                   |
| WW2.3 (0-10 cm)           | 6.854  | 2            | 13.708               | 7.948933                             | 0.000663              | 353.4292              | 0.234316           |                           | 0.01606               | 0.279384                         | 121.18             | 0.017671         | 6857.385                                                    | 110.1297             | 1915.846                          |
| WW2.3 (2-10 cm)           | 10.89  | 8            | 87.12                |                                      | 0.000663              | 1413.717              | 0.937264           |                           | 0.102068              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 699.9199             |                                   |
| WW2.3 (10-30 cm)          | 6.882  | 20           | 137.64               |                                      | 0.000663              | 3534.292              | 2.34316            |                           | 0.161256              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 1105.796             |                                   |
|                           |        |              |                      |                                      |                       |                       |                    |                           |                       |                                  |                    |                  |                                                             |                      |                                   |
| WW4.1 (0-2 cm)            | 7.321  | 2            | 14.642               | 9.111                                | 0.000663              | 353.4292              | 0.234316           |                           | 0.017154              | 0.320228                         | 121.18             | 0.017671         | 6857.385                                                    | 117.6335             | 2195.926                          |
| WW4.1 (2-10 cm)           | 8.286  | 8            | 66.288               |                                      | 0.000663              | 1413.717              | 0.937264           |                           | 0.077662              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 532.5562             |                                   |
| WW4.1 (10-30 cm)          | 9.62   | 20           | 192.4                |                                      | 0.000663              | 3534.292              | 2.34316            |                           | 0.225412              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 1545.737             |                                   |
|                           |        |              |                      |                                      |                       |                       |                    |                           |                       |                                  |                    |                  |                                                             |                      |                                   |
| WW4.2 (0-2cm)             | 9.95   | 2            | 19.9                 | 8.617867                             | 0.000663              | 353.4292              | 0.234316           |                           | 0.023314              | 0.302896                         | 121.18             | 0.017671         | 6857.385                                                    | 159.8761             | 2077.072                          |
| WW4.2 (2-10 cm)           | 7.847  | 8            | 62.776               |                                      | 0.000663              | 1413.717              | 0.937264           |                           | 0.073547              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 504.3408             |                                   |
| WW4.2 (10-30 cm)          | 8.793  | 20           | 175.86               |                                      | 0.000663              | 3534.292              | 2.34316            |                           | 0.206034              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 1412.855             |                                   |
|                           |        |              |                      |                                      |                       |                       |                    |                           |                       |                                  |                    |                  |                                                             |                      |                                   |
| WW4.3 (0-2 cm)            | 5.747  | 2            | 11.494               | 7.584467                             | 0.000663              | 353.4292              | 0.234316           |                           | 0.013466              | 0.266574                         | 121.18             | 0.017671         | 6857.385                                                    | 92.34251             | 1828.003                          |
| WW4.3 (2-10 cm)           | 7.06   | 8            | 56.48                |                                      | 0.000663              | 1413.717              | 0.937264           |                           | 0.066171              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 453.7589             |                                   |
| WW4.3 (10-30 cm)          | 7.978  | 20           | 159.56               |                                      | 0.000663              | 3534.292              | 2.34316            |                           | 0.186937              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 1281.901             |                                   |
|                           |        |              |                      |                                      |                       |                       |                    |                           |                       |                                  |                    |                  |                                                             |                      |                                   |
| WW6.1 (0-2 cm)            | 6.279  | 2            | 12.558               | 8.865933                             | 0.000663              | 353.4292              | 0.234316           |                           | 0.014713              | 0.311615                         | 121.18             | 0.017671         | 6857.385                                                    | 100.8907             | 2136.861                          |
| WW6.1 (2-10 cm)           | 7.23   | 8            | 57.84                |                                      | 0.000663              | 1413.717              | 0.937264           |                           | 0.067764              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 464.6851             |                                   |
| WW6.1 (10-30 cm)          | 9.779  | 20           | 195.58               |                                      | 0.000663              | 3534.292              | 2.34316            |                           | 0.229138              |                                  | 121.18             | 0.017671         | 6857.385                                                    | 1571.285             |                                   |
|                           |        |              |                      |                                      |                       |                       |                    |                           |                       |                                  |                    |                  |                                                             |                      |                                   |

| Paddocks (Interval Depth) | Fe (%) | Depth Weight | Fe weighted (mg/kg) | Weighted mean concentration (mg/kg) | Bulk Density (kg/cm <sup>3</sup> ) | Interval volume (cm <sup>3</sup> ) | Sediment mass (kg) | whole sediment mass core | Actual mass pool (kg) | Sum of mass whole core pool (kg) | Paddock Area (m <sup>2</sup> ) | Cores Area (cm <sup>3</sup> ) | Paddock Over Core (estimated core numbers within a paddock) | Mass in paddock (kg) | Mass SUM (kg) (whole depth 30 cm) |
|---------------------------|--------|--------------|---------------------|-------------------------------------|------------------------------------|------------------------------------|--------------------|--------------------------|-----------------------|----------------------------------|--------------------------------|-------------------------------|-------------------------------------------------------------|----------------------|-----------------------------------|
| WW6.2 (0-2 cm)            | 6.417  | 2            | 12.834              | 6.640067                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.015036              | 0.233381                         | 121.18                         | 0.017671                      | 6857.385                                                    | 103.108              | 1600.384                          |
| WW6.2 (2-10 cm)           | 5.486  | 8            | 43.888              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.051418              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 352.5951             |                                   |
| WW6.2 (10-30 cm)          | 7.124  | 20           | 142.48              |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.166927              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 1144.681             |                                   |
|                           |        |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW6.3 (0-2 cm)            | 4.824  | 2            | 9.648               | 5.572533                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.011303              | 0.19586                          | 121.18                         | 0.017671                      | 6857.385                                                    | 77.51179             | 1343.088                          |
| WW6.3 (2-10 cm)           | 4.996  | 8            | 39.968              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.046826              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 321.1019             |                                   |
| WW6.3 (10-30 cm)          | 5.878  | 20           | 117.56              |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.137731              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 944.4741             |                                   |
|                           |        |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW7.1 (0-2cm)             | 8.327  | 2            | 16.654              | 8.145933                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.019511              | 0.286308                         | 121.18                         | 0.017671                      | 6857.385                                                    | 133.7978             | 1963.327                          |
| WW7.1 (2-10cm)            | 8.298  | 8            | 66.384              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.077774              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 533.3274             |                                   |
| WW7.1 (10-30 cm)          | 8.067  | 20           | 161.34              |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.189023              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 1296.202             |                                   |
|                           |        |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW7.2 (0-2 cm)            | 9.208  | 2            | 18.416              | 12.11653                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.021576              | 0.425865                         | 121.18                         | 0.017671                      | 6857.385                                                    | 147.9537             | 2920.318                          |
| WW7.2 (2-10cm)            | 13.86  | 8            | 110.88              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.129905              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 890.8072             |                                   |
| WW7.2 (10-30 cm)          | 11.71  | 20           | 234.2               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.274384              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 1881.557             |                                   |
|                           |        |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW7.3 (0-2 cm)            | 6.82   | 2            | 13.64               | 7.8228                              | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.01598               | 0.274951                         | 121.18                         | 0.017671                      | 6857.385                                                    | 109.5834             | 1885.445                          |
| WW7.3 (2-10 cm)           | 5.213  | 8            | 41.704              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.04886               |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 335.0489             |                                   |
| WW7.3 (10-30 cm)          | 8.967  | 20           | 179.34              |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.210111              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 1440.813             |                                   |

| Paddocks (Interval Depth) | Ca (%) | Depth Weight | Ca weighted (mg/kg) | Weighted mean concentration (mg/kg) | Bulk Density (kg/cm <sup>3</sup> ) | Interval volume (cm <sup>3</sup> ) | Sediment mass (kg) | whole sediment mass core | Actual mass pool (kg) | Sum of mass whole core pool (kg) | Paddock Area (m <sup>2</sup> ) | Cores Area (cm <sup>3</sup> ) | Paddock Over Core (estimated core numbers within a paddock) | Mass in paddock (kg) | Mass SUM (kg) (whole depth 30 cm) |
|---------------------------|--------|--------------|---------------------|-------------------------------------|------------------------------------|------------------------------------|--------------------|--------------------------|-----------------------|----------------------------------|--------------------------------|-------------------------------|-------------------------------------------------------------|----------------------|-----------------------------------|
| WW1.1 (0-2 cm)            | 0.3716 | 2            | 0.7432              | 0.17056                             | 0.000663                           | 353.4292                           | 0.234316           | 3.51474                  | 0.000871              | 0.005995                         | 121.18                         | 0.017671                      | 6857.385                                                    | 5.970851             | 41.10825                          |
| WW1.1 (2-10 cm)           | 0.1562 | 8            | 1.2496              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.001464              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 10.03926             |                                   |
| WW1.1 (10-30cm)           | 0.1562 | 20           | 3.124               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.00366               |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 25.09814             |                                   |
|                           |        |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW1.2 (0-2cm)             | 0.1947 | 2            | 0.3894              | 0.163673                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.000456              | 0.005753                         | 121.18                         | 0.017671                      | 6857.385                                                    | 3.12843              | 39.44843                          |
| WW1.2 (2-10cm)            | 0.1746 | 8            | 1.3968              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.001636              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 11.22186             |                                   |
| WW1.2 (10-30cm)           | 0.1562 | 20           | 3.124               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.00366               |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 25.09814             |                                   |
|                           |        |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW1.3 (0-2 cm)            | 0.3069 | 2            | 0.6138              | 0.173113                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.000719              | 0.006084                         | 121.18                         | 0.017671                      | 6857.385                                                    | 4.931254             | 41.72365                          |
| WW1.3 (2-10cm)            | 0.1632 | 8            | 1.3056              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.00153               |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 10.48916             |                                   |
| WW1.3 (10-30 cm)          | 0.1637 | 20           | 3.274               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.003836              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 26.30324             |                                   |
|                           |        |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW2.1 (0-2 cm)            | 0.1829 | 2            | 0.3658              | 0.14374                             | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.000429              | 0.005052                         | 121.18                         | 0.017671                      | 6857.385                                                    | 2.938828             | 34.64411                          |
| WW2.1 (2-10cm)            | 0.1123 | 8            | 0.8984              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.001053              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 7.217724             |                                   |
| WW2.1 (10-30 cm)          | 0.1524 | 20           | 3.048               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.003571              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 24.48756             |                                   |
|                           |        |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW2.2 (0-2 cm)            | 0.4297 | 2            | 0.8594              | 0.151647                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.001007              | 0.00533                          | 121.18                         | 0.017671                      | 6857.385                                                    | 6.904398             | 36.54977                          |
| WW2.2 (2-10 cm)           | 0.1375 | 8            | 1.1                 |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.001289              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 8.837373             |                                   |
| WW2.2 (10-30 cm)          | 0.1295 | 20           | 2.59                |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.003034              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 20.808               |                                   |
|                           |        |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW2.3 (0-10 cm)           | 0.1499 | 2            | 0.2998              | 0.1359                              | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.000351              | 0.004777                         | 121.18                         | 0.017671                      | 6857.385                                                    | 2.408586             | 32.75452                          |
| WW2.3 (2-10 cm)           | 0.1399 | 8            | 1.1192              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.001311              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 8.991625             |                                   |
| WW2.3 (10-30 cm)          | 0.1329 | 20           | 2.658               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.003114              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 21.35431             |                                   |
|                           |        |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW4.1 (0-2 cm)            | 0.2184 | 2            | 0.4368              | 0.127187                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.000512              | 0.00447                          | 121.18                         | 0.017671                      | 6857.385                                                    | 3.50924              | 30.65444                          |
| WW4.1 (2-10 cm)           | 0.1491 | 8            | 1.1928              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.001397              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 9.582926             |                                   |
| WW4.1 (10-30 cm)          | 0.1093 | 20           | 2.186               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.002561              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 17.56227             |                                   |
|                           |        |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW4.2 (0-2cm)             | 0.3057 | 2            | 0.6114              | 0.160807                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.000716              | 0.005652                         | 121.18                         | 0.017671                      | 6857.385                                                    | 4.911973             | 38.7575                           |
| WW4.2 (2-10 cm)           | 0.1686 | 8            | 1.3488              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.00158               |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 10.83623             |                                   |
| WW4.2 (10-30 cm)          | 0.1432 | 20           | 2.864               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.003355              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 23.00931             |                                   |
|                           |        |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW4.3 (0-2 cm)            | 0.2474 | 2            | 0.4948              | 0.148653                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.00058               | 0.005225                         | 121.18                         | 0.017671                      | 6857.385                                                    | 3.975211             | 35.82832                          |
| WW4.3 (2-10 cm)           | 0.1576 | 8            | 1.2608              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.001477              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 10.12924             |                                   |
| WW4.3 (10-30 cm)          | 0.1352 | 20           | 2.704               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.003168              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 21.72387             |                                   |
|                           |        |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW6.1 (0-2 cm)            | 0.1454 | 2            | 0.2908              | 0.16648                             | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.000341              | 0.005851                         | 121.18                         | 0.017671                      | 6857.385                                                    | 2.33628              | 40.12489                          |
| WW6.1 (2-10 cm)           | 0.1862 | 8            | 1.4896              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.001745              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 11.96741             |                                   |
| WW6.1 (10-30 cm)          | 0.1607 | 20           | 3.214               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.003765              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 25.8212              |                                   |
|                           |        |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW6.2 (0-2 cm)            | 0.3358 | 2            | 0.6716              | 0.208147                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.000787              | 0.007316                         | 121.18                         | 0.017671                      | 6857.385                                                    | 5.395618             | 50.16736                          |

| Paddocks (Interval Depth) | Ca (%) | Depth Weight | Ca weighted (mg/kg) | Weighted mean concentration (mg/kg) | Bulk Density (kg/cm <sup>3</sup> ) | Interval volume (cm <sup>3</sup> ) | Sediment mass (kg) | whole sediment mass core | Actual mass pool (kg) | Sum of mass whole core pool (kg) | Paddock Area (m <sup>2</sup> ) | Cores Area (cm <sup>3</sup> ) | Paddock Over Core (estimated core numbers within a paddock) | Mass in paddock (kg) | Mass SUM (kg) (whole depth 30 cm) |
|---------------------------|--------|--------------|---------------------|-------------------------------------|------------------------------------|------------------------------------|--------------------|--------------------------|-----------------------|----------------------------------|--------------------------------|-------------------------------|-------------------------------------------------------------|----------------------|-----------------------------------|
| WW6.2 (2-10 cm)           | 0.2861 | 8            | 2.2888              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.002682              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 18.38816             |                                   |
| WW6.2 (10-30 cm)          | 0.1642 | 20           | 3.284               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.003847              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 26.38358             |                                   |
|                           |        |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW6.3 (0-2 cm)            | 0.4261 | 2            | 0.8522              | 0.3403                              | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.000998              | 0.011961                         | 121.18                         | 0.017671                      | 6857.385                                                    | 6.846554             | 82.01885                          |
| WW6.3 (2-10 cm)           | 0.5146 | 8            | 4.1168              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.004823              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 33.07427             |                                   |
| WW6.3 (10-30 cm)          | 0.262  | 20           | 5.24                |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.006139              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 42.09803             |                                   |
|                           |        |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW7.1 (0-2cm)             | 0.3198 | 2            | 0.6396              | 0.185293                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.000749              | 0.006513                         | 121.18                         | 0.017671                      | 6857.385                                                    | 5.138531             | 44.65926                          |
| WW7.1 (2-10cm)            | 0.1534 | 8            | 1.2272              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.001438              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 9.859295             |                                   |
| WW7.1 (10-30 cm)          | 0.1846 | 20           | 3.692               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.004325              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 29.66144             |                                   |
|                           |        |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW7.2 (0-2 cm)            | 0.3427 | 2            | 0.6854              | 0.185087                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.000803              | 0.006505                         | 121.18                         | 0.017671                      | 6857.385                                                    | 5.506487             | 44.60945                          |
| WW7.2 (2-10cm)            | 0.1844 | 8            | 1.4752              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.001728              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 11.85172             |                                   |
| WW7.2 (10-30 cm)          | 0.1696 | 20           | 3.392               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.003974              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 27.25124             |                                   |
|                           |        |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW7.3 (0-2 cm)            | 0.2653 | 2            | 0.5306              | 0.17982                             | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.000622              | 0.00632                          | 121.18                         | 0.017671                      | 6857.385                                                    | 4.262827             | 43.34008                          |
| WW7.3 (2-10 cm)           | 0.171  | 8            | 1.368               |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.001603              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 10.99048             |                                   |
| WW7.3 (10-30 cm)          | 0.1748 | 20           | 3.496               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.004096              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 28.08678             |                                   |

| Paddocks (Interval Depth) | S (mg/kg) | Weighted mean concentration (mg/kg) | Bulk Density (kg/cm <sup>3</sup> ) | Interval volume (cm <sup>3</sup> ) | Sediment mass (mg) | whole sediment mass core | Actual mass pool (mg) | Sum of mass whole core pool (mg) | Paddock Area (m <sup>2</sup> ) | Cores Area (cm <sup>3</sup> ) | Paddock Over Core (estimated core numbers within a paddock) | Mass in paddock (mg) | Mass SUM (g) (whole depth 30 cm) | Mass in paddock (mg) | Mass SUM (mg) (whole depth 30 cm) |
|---------------------------|-----------|-------------------------------------|------------------------------------|------------------------------------|--------------------|--------------------------|-----------------------|----------------------------------|--------------------------------|-------------------------------|-------------------------------------------------------------|----------------------|----------------------------------|----------------------|-----------------------------------|
| WW1.1 (0-2 cm)            | 5.03      | 2                                   | 10.06                              | 1.7904                             | 0.000663           | 353.4292                 | 0.234316              | 3.51474                          | 0.011786                       | 0.062928                      | 121.18                                                      | 0.017671             | 6857.385                         | 80.82179             | 431.5209                          |
| WW1.1 (2-10 cm)           | 1.559     | 8                                   | 12.472                             |                                    | 0.000663           | 1413.717                 | 0.937264              |                                  | 0.014612                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 100.1997             |                                   |
| WW1.1 (10-30cm)           | 1.559     | 20                                  | 31.18                              |                                    | 0.000663           | 3534.292                 | 2.34316               |                                  | 0.03653                        |                               | 121.18                                                      | 0.017671             | 6857.385                         | 250.4994             |                                   |
|                           |           |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                  |                      |                                   |
| WW1.2 (0-2cm)             | 1.963     | 2                                   | 3.926                              | 1.544067                           | 0.000663           | 353.4292                 | 0.234316              |                                  | 0.0046                         | 0.05427                       | 121.18                                                      | 0.017671             | 6857.385                         | 31.54139             | 372.1498                          |
| WW1.2 (2-10cm)            | 1.402     | 8                                   | 11.216                             |                                    | 0.000663           | 1413.717                 | 0.937264              |                                  | 0.01314                        |                               | 121.18                                                      | 0.017671             | 6857.385                         | 90.10907             |                                   |
| WW1.2 (10-30cm)           | 1.559     | 20                                  | 31.18                              |                                    | 0.000663           | 3534.292                 | 2.34316               |                                  | 0.03653                        |                               | 121.18                                                      | 0.017671             | 6857.385                         | 250.4994             |                                   |
|                           |           |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                  |                      |                                   |
| WW1.3 (0-2 cm)            | 4.282     | 2                                   | 8.564                              | 1.3792                             | 0.000663           | 353.4292                 | 0.234316              |                                  | 0.010033                       | 0.048475                      | 121.18                                                      | 0.017671             | 6857.385                         | 68.80297             | 332.4138                          |
| WW1.3 (2-10cm)            | 1.039     | 8                                   | 8.312                              |                                    | 0.000663           | 1413.717                 | 0.937264              |                                  | 0.009738                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 66.7784              |                                   |
| WW1.3 (10-30 cm)          | 1.225     | 20                                  | 24.5                               |                                    | 0.000663           | 3534.292                 | 2.34316               |                                  | 0.028704                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 196.8324             |                                   |
|                           |           |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                  |                      |                                   |
| WW2.1 (0-2 cm)            | 1.838     | 2                                   | 3.676                              | 1.065387                           | 0.000663           | 353.4292                 | 0.234316              |                                  | 0.004307                       | 0.037446                      | 121.18                                                      | 0.017671             | 6857.385                         | 29.53289             | 256.7787                          |
| WW2.1 (2-10cm)            | 0.4457    | 8                                   | 3.5656                             |                                    | 0.000663           | 1413.717                 | 0.937264              |                                  | 0.004177                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 28.64594             |                                   |
| WW2.1 (10-30 cm)          | 1.236     | 20                                  | 24.72                              |                                    | 0.000663           | 3534.292                 | 2.34316               |                                  | 0.028961                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 198.5999             |                                   |
|                           |           |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                  |                      |                                   |
| WW2.2 (0-2 cm)            | 3.044     | 2                                   | 6.088                              | 1.1616                             | 0.000663           | 353.4292                 | 0.234316              |                                  | 0.007133                       | 0.040827                      | 121.18                                                      | 0.017671             | 6857.385                         | 48.91084             | 279.968                           |
| WW2.2 (2-10 cm)           | 1.05      | 8                                   | 8.4                                |                                    | 0.000663           | 1413.717                 | 0.937264              |                                  | 0.009841                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 67.48539             |                                   |
| WW2.2 (10-30 cm)          | 1.018     | 20                                  | 20.36                              |                                    | 0.000663           | 3534.292                 | 2.34316               |                                  | 0.023853                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 163.5717             |                                   |
|                           |           |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                  |                      |                                   |
| WW2.3 (0-10 cm)           | 1.222     | 2                                   | 2.444                              | 1.183333                           | 0.000663           | 353.4292                 | 0.234316              |                                  | 0.002863                       | 0.041591                      | 121.18                                                      | 0.017671             | 6857.385                         | 19.63504             | 285.2061                          |
| WW2.3 (2-10 cm)           | 1.067     | 8                                   | 8.536                              |                                    | 0.000663           | 1413.717                 | 0.937264              |                                  | 0.010001                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 68.57801             |                                   |
| WW2.3 (10-30 cm)          | 1.226     | 20                                  | 24.52                              |                                    | 0.000663           | 3534.292                 | 2.34316               |                                  | 0.028727                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 196.9931             |                                   |
|                           |           |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                  |                      |                                   |
| WW4.1 (0-2 cm)            | 1.968     | 2                                   | 3.936                              | 0.8318                             | 0.000663           | 353.4292                 | 0.234316              |                                  | 0.004611                       | 0.029236                      | 121.18                                                      | 0.017671             | 6857.385                         | 31.62173             | 200.4798                          |
| WW4.1 (2-10 cm)           | 1.108     | 8                                   | 8.864                              |                                    | 0.000663           | 1413.717                 | 0.937264              |                                  | 0.010385                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 71.21316             |                                   |
| WW4.1 (10-30 cm)          | 0.6077    | 20                                  | 12.154                             |                                    | 0.000663           | 3534.292                 | 2.34316               |                                  | 0.014239                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 97.64494             |                                   |
|                           |           |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                  |                      |                                   |
| WW4.2 (0-2cm)             | 2.775     | 2                                   | 5.55                               | 1.355933                           | 0.000663           | 353.4292                 | 0.234316              |                                  | 0.006502                       | 0.047658                      | 121.18                                                      | 0.017671             | 6857.385                         | 44.58856             | 326.8061                          |
| WW4.2 (2-10 cm)           | 1.516     | 8                                   | 12.128                             |                                    | 0.000663           | 1413.717                 | 0.937264              |                                  | 0.014209                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 97.43605             |                                   |
| WW4.2 (10-30 cm)          | 1.15      | 20                                  | 23                                 |                                    | 0.000663           | 3534.292                 | 2.34316               |                                  | 0.026946                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 184.7814             |                                   |
|                           |           |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                  |                      |                                   |
| WW4.3 (0-2 cm)            | 2.069     | 2                                   | 4.138                              | 1.718733                           | 0.000663           | 353.4292                 | 0.234316              |                                  | 0.004848                       | 0.060409                      | 121.18                                                      | 0.017671             | 6857.385                         | 33.24459             | 414.2478                          |
| WW4.3 (2-10 cm)           | 1.793     | 8                                   | 14.344                             |                                    | 0.000663           | 1413.717                 | 0.937264              |                                  | 0.016805                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 115.2393             |                                   |
| WW4.3 (10-30 cm)          | 1.654     | 20                                  | 33.08                              |                                    | 0.000663           | 3534.292                 | 2.34316               |                                  | 0.038756                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 265.7639             |                                   |
|                           |           |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                  |                      |                                   |
| WW6.1 (0-2 cm)            | 2.323     | 2                                   | 4.646                              | 1.9782                             | 0.000663           | 353.4292                 | 0.234316              |                                  | 0.005443                       | 0.069529                      | 121.18                                                      | 0.017671             | 6857.385                         | 37.32585             | 476.7843                          |
| WW6.1 (2-10 cm)           | 2.085     | 8                                   | 16.68                              |                                    | 0.000663           | 1413.717                 | 0.937264              |                                  | 0.019542                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 134.0067             |                                   |
| WW6.1 (10-30 cm)          | 1.901     | 20                                  | 38.02                              |                                    | 0.000663           | 3534.292                 | 2.34316               |                                  | 0.044543                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 305.4517             |                                   |
|                           |           |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                  |                      |                                   |
| WW6.2 (0-2 cm)            | 3.483     | 2                                   | 6.966                              | 2.265533                           | 0.000663           | 353.4292                 | 0.234316              |                                  | 0.008161                       | 0.079628                      | 121.18                                                      | 0.017671             | 6857.385                         | 55.96467             | 546.0372                          |

| Paddocks (Interval Depth) | S (mg/kg) | Weighted mean concentration (mg/kg) | Bulk Density (kg/cm <sup>3</sup> ) | Interval volume (cm <sup>3</sup> ) | Sediment mass (mg) | whole sediment mass core | Actual mass pool (mg) | Sum of mass whole core pool (mg) | Paddock Area (m <sup>2</sup> ) | Cores Area (cm <sup>3</sup> ) | Paddock Over Core (estimated core numbers within a paddock) | Mass in paddock (mg) | Mass SUM (g) (whole depth 30 cm) | Mass in paddock (mg) | Mass SUM (mg) (whole depth 30 cm) |
|---------------------------|-----------|-------------------------------------|------------------------------------|------------------------------------|--------------------|--------------------------|-----------------------|----------------------------------|--------------------------------|-------------------------------|-------------------------------------------------------------|----------------------|----------------------------------|----------------------|-----------------------------------|
| WW6.2 (2-10 cm)           | 2.985     | 8                                   | 23.88                              |                                    | 0.000663           | 1413.717                 | 0.937264              |                                  | 0.027977                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 191.8513             |                                   |
| WW6.2 (10-30 cm)          | 1.856     | 20                                  | 37.12                              |                                    | 0.000663           | 3534.292                 | 2.34316               |                                  | 0.043489                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 298.2212             |                                   |
|                           |           |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                  |                      |                                   |
| WW6.3 (0-2 cm)            | 3.821     | 2                                   | 7.642                              | 3.4782                             | 0.000663           | 353.4292                 | 0.234316              |                                  | 0.008953                       | 0.12225                       | 121.18                                                      | 0.017671             | 6857.385                         | 61.39564             | 838.3132                          |
| WW6.3 (2-10 cm)           | 5.208     | 8                                   | 41.664                             |                                    | 0.000663           | 1413.717                 | 0.937264              |                                  | 0.048813                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 334.7276             |                                   |
| WW6.3 (10-30 cm)          | 2.752     | 20                                  | 55.04                              |                                    | 0.000663           | 3534.292                 | 2.34316               |                                  | 0.064484                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 442.19               |                                   |
|                           |           |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                  |                      |                                   |
| WW7.1 (0-2cm)             | 3.411     | 2                                   | 6.822                              | 1.962733                           | 0.000663           | 353.4292                 | 0.234316              |                                  | 0.007993                       | 0.068985                      | 121.18                                                      | 0.017671             | 6857.385                         | 54.80778             | 473.0565                          |
| WW7.1 (2-10cm)            | 1.76      | 8                                   | 14.08                              |                                    | 0.000663           | 1413.717                 | 0.937264              |                                  | 0.016496                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 113.1184             |                                   |
| WW7.1 (10-30 cm)          | 1.899     | 20                                  | 37.98                              |                                    | 0.000663           | 3534.292                 | 2.34316               |                                  | 0.044497                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 305.1304             |                                   |
|                           |           |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                  |                      |                                   |
| WW7.2 (0-2 cm)            | 2.87      | 2                                   | 5.74                               | 1.879733                           | 0.000663           | 353.4292                 | 0.234316              |                                  | 0.006725                       | 0.066068                      | 121.18                                                      | 0.017671             | 6857.385                         | 46.11502             | 453.0519                          |
| WW7.2 (2-10cm)            | 1.809     | 8                                   | 14.472                             |                                    | 0.000663           | 1413.717                 | 0.937264              |                                  | 0.016955                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 116.2677             |                                   |
| WW7.2 (10-30 cm)          | 1.809     | 20                                  | 36.18                              |                                    | 0.000663           | 3534.292                 | 2.34316               |                                  | 0.042388                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 290.6692             |                                   |
|                           |           |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                  |                      |                                   |
| WW7.3 (0-2 cm)            | 2.272     | 2                                   | 4.544                              | 1.392133                           | 0.000663           | 353.4292                 | 0.234316              |                                  | 0.005324                       | 0.04893                       | 121.18                                                      | 0.017671             | 6857.385                         | 36.50638             | 335.5309                          |
| WW7.3 (2-10 cm)           | 1.785     | 8                                   | 14.28                              |                                    | 0.000663           | 1413.717                 | 0.937264              |                                  | 0.01673                        |                               | 121.18                                                      | 0.017671             | 6857.385                         | 114.7252             |                                   |
| WW7.3 (10-30 cm)          | 1.147     | 20                                  | 22.94                              |                                    | 0.000663           | 3534.292                 | 2.34316               |                                  | 0.026876                       |                               | 121.18                                                      | 0.017671             | 6857.385                         | 184.2994             |                                   |

| Paddocks (Interval Depth) | Cl (mg/kg) | Depth Weight | Cl weighted (mg/kg) | Weighted mean concentration (mg/kg) | Bulk Density (kg/cm <sup>3</sup> ) | Interval volume (cm <sup>3</sup> ) | Sediment mass (mg) | whole sediment mass core | Actual mass pool (kg) | Sum of mass whole core pool (mg) | Paddock Area (m <sup>2</sup> ) | Cores Area (cm <sup>3</sup> ) | Paddock Over Core (estimated core numbers within a paddock) | Mass in paddock (mg) | Mass SUM (mg) (whole depth 30 cm) |
|---------------------------|------------|--------------|---------------------|-------------------------------------|------------------------------------|------------------------------------|--------------------|--------------------------|-----------------------|----------------------------------|--------------------------------|-------------------------------|-------------------------------------------------------------|----------------------|-----------------------------------|
| WW1.1 (0-2 cm)            | 0.85       | 2            | 1.7                 | 0.526133                            | 0.000663                           | 353.4292                           | 0.234316           | 3.51474                  | 0.001992              | 0.018492                         | 121.18                         | 0.017671                      | 6857.385                                                    | 13.65776             | 126.8083                          |
| WW1.1 (2-10 cm)           | 0.503      | 8            | 4.024               |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.004714              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 32.32872             |                                   |
| WW1.1 (10-30cm)           | 0.503      | 20           | 10.06               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.011786              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 80.82179             |                                   |
|                           |            |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW1.2 (0-2cm)             | 0.459      | 2            | 0.918               | 0.4246                              | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.001076              | 0.014924                         | 121.18                         | 0.017671                      | 6857.385                                                    | 7.375189             | 102.3368                          |
| WW1.2 (2-10cm)            | 0.22       | 8            | 1.76                |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.002062              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 14.1398              |                                   |
| WW1.2 (10-30cm)           | 0.503      | 20           | 10.06               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.011786              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 80.82179             |                                   |
|                           |            |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW1.3 (0-2 cm)            | 1.087      | 2            | 2.174               | 0.274733                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.002547              | 0.009656                         | 121.18                         | 0.017671                      | 6857.385                                                    | 17.46586             | 66.21603                          |
| WW1.3 (2-10cm)            | 0.236      | 8            | 1.888               |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.002212              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 15.16815             |                                   |
| WW1.3 (10-30 cm)          | 0.209      | 20           | 4.18                |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.004897              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 33.58202             |                                   |
|                           |            |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW2.1 (0-2 cm)            | 0.442      | 2            | 0.884               | 0.290533                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.001036              | 0.010211                         | 121.18                         | 0.017671                      | 6857.385                                                    | 7.102034             | 70.02413                          |
| WW2.1 (2-10cm)            | 0.154      | 8            | 1.232               |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.001443              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 9.897858             |                                   |
| WW2.1 (10-30 cm)          | 0.33       | 20           | 6.6                 |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.007732              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 53.02424             |                                   |
|                           |            |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW2.2 (0-2 cm)            | 0.791      | 2            | 1.582               | 0.305267                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.001853              | 0.010729                         | 121.18                         | 0.017671                      | 6857.385                                                    | 12.70975             | 73.57515                          |
| WW2.2 (2-10 cm)           | 0.182      | 8            | 1.456               |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.001706              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 11.69747             |                                   |
| WW2.2 (10-30 cm)          | 0.306      | 20           | 6.12                |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.00717               |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 49.16793             |                                   |
|                           |            |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW2.3 (0-10 cm)           | 0.406      | 2            | 0.812               | 0.354533                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.000951              | 0.012461                         | 121.18                         | 0.017671                      | 6857.385                                                    | 6.523588             | 85.44936                          |
| WW2.3 (2-10 cm)           | 0.313      | 8            | 2.504               |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.002934              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 20.11707             |                                   |
| WW2.3 (10-30 cm)          | 0.366      | 20           | 7.32                |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.008576              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 58.8087              |                                   |
|                           |            |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW4.1 (0-2 cm)            | 0.784      | 2            | 1.568               | 0.373067                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.001837              | 0.013112                         | 121.18                         | 0.017671                      | 6857.385                                                    | 12.59727             | 89.91625                          |
| WW4.1 (2-10 cm)           | 0.478      | 8            | 3.824               |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.00448               |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 30.72192             |                                   |
| WW4.1 (10-30 cm)          | 0.29       | 20           | 5.8                 |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.006795              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 46.59706             |                                   |
|                           |            |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW4.2 (0-2cm)             | 0.644      | 2            | 1.288               | 0.585733                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.001509              | 0.020587                         | 121.18                         | 0.017671                      | 6857.385                                                    | 10.34776             | 141.173                           |
| WW4.2 (2-10 cm)           | 0.643      | 8            | 5.144               |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.006027              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 41.32677             |                                   |
| WW4.2 (10-30 cm)          | 0.557      | 20           | 11.14               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.013051              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 89.49849             |                                   |
|                           |            |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW4.3 (0-2 cm)            | 1.22       | 2            | 2.44                | 0.536267                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.002859              | 0.018848                         | 121.18                         | 0.017671                      | 6857.385                                                    | 19.6029              | 129.2506                          |
| WW4.3 (2-10 cm)           | 0.531      | 8            | 4.248               |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.004977              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 34.12833             |                                   |
| WW4.3 (10-30 cm)          | 0.47       | 20           | 9.4                 |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.011013              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 75.51937             |                                   |
|                           |            |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW6.1 (0-2 cm)            | 0.911      | 2            | 1.822               | 0.657667                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.002135              | 0.023115                         | 121.18                         | 0.017671                      | 6857.385                                                    | 14.6379              | 158.5103                          |
| WW6.1 (2-10 cm)           | 0.841      | 8            | 6.728               |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.007882              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 54.05259             |                                   |
| WW6.1 (10-30 cm)          | 0.559      | 20           | 11.18               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.013098              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 89.81985             |                                   |
|                           |            |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW6.2 (0-2 cm)            | 0.994      | 2            | 1.988               | 0.5816                              | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.002329              | 0.020442                         | 121.18                         | 0.017671                      | 6857.385                                                    | 15.97154             | 140.1768                          |

| Paddocks (Interval Depth) | Cl (mg/kg) | Depth Weight | Cl weighted (mg/kg) | Weighted mean concentration (mg/kg) | Bulk Density (kg/cm <sup>3</sup> ) | Interval volume (cm <sup>3</sup> ) | Sediment mass (mg) | whole sediment mass core | Actual mass pool (kg) | Sum of mass whole core pool (mg) | Paddock Area (m <sup>2</sup> ) | Cores Area (cm <sup>3</sup> ) | Paddock Over Core (estimated core numbers within a paddock) | Mass in paddock (mg) | Mass SUM (mg) (whole depth 30 cm) |
|---------------------------|------------|--------------|---------------------|-------------------------------------|------------------------------------|------------------------------------|--------------------|--------------------------|-----------------------|----------------------------------|--------------------------------|-------------------------------|-------------------------------------------------------------|----------------------|-----------------------------------|
| WW6.2 (2-10 cm)           | 0.745      | 8            | 5.96                |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.006983              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 47.88249             |                                   |
| WW6.2 (10-30 cm)          | 0.475      | 20           | 9.5                 |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.01113               |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 76.32277             |                                   |
|                           |            |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW6.3 (0-2 cm)            | 1.076      | 2            | 2.152               | 0.7608                              | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.002521              | 0.02674                          | 121.18                         | 0.017671                      | 6857.385                                                    | 17.28912             | 183.3675                          |
| WW6.3 (2-10 cm)           | 1.039      | 8            | 8.312               |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.009738              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 66.7784              |                                   |
| WW6.3 (10-30 cm)          | 0.618      | 20           | 12.36               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.014481              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 99.29994             |                                   |
|                           |            |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW7.1 (0-2cm)             | 0.984      | 2            | 1.968               | 0.467067                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.002306              | 0.016416                         | 121.18                         | 0.017671                      | 6857.385                                                    | 15.81086             | 112.5721                          |
| WW7.1 (2-10cm)            | 0.493      | 8            | 3.944               |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.004621              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 31.686               |                                   |
| WW7.1 (10-30 cm)          | 0.405      | 20           | 8.1                 |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.00949               |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 65.0752              |                                   |
|                           |            |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW7.2 (0-2 cm)            | 0.509      | 2            | 1.018               | 0.554733                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.001193              | 0.019497                         | 121.18                         | 0.017671                      | 6857.385                                                    | 8.178587             | 133.7014                          |
| WW7.2 (2-10cm)            | 0.533      | 8            | 4.264               |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.004996              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 34.25687             |                                   |
| WW7.2 (10-30 cm)          | 0.568      | 20           | 11.36               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.013309              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 91.26596             |                                   |
|                           |            |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW7.3 (0-2 cm)            | 0.588      | 2            | 1.176               | 0.403467                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 0.001378              | 0.014181                         | 121.18                         | 0.017671                      | 6857.385                                                    | 9.447955             | 97.24324                          |
| WW7.3 (2-10 cm)           | 0.581      | 8            | 4.648               |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 0.005446              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 37.34192             |                                   |
| WW7.3 (10-30 cm)          | 0.314      | 20           | 6.28                |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 0.007358              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 50.45337             |                                   |

| Paddocks (Interval Depth) | Cr<br>(mg/kg) | Depth<br>Weight | Cr<br>weighted<br>(mg/kg) | Weighted<br>mean<br>concentration<br>(mg/kg) | Bulk<br>Density<br>(kg/cm <sup>3</sup> ) | Interval<br>volume<br>(cm <sup>3</sup> ) | Sediment<br>mass (mg) | whole<br>sediment<br>mass<br>core | Actual<br>mass<br>pool (mg) | Sum of<br>mass<br>whole<br>core pool<br>(mg) | Paddock<br>Area<br>(m <sup>2</sup> ) | Cores<br>Area<br>(cm <sup>3</sup> ) | Paddock<br>Over<br>Core<br>(estimated<br>core<br>numbers<br>within a<br>paddock) | Mass in<br>paddock<br>(mg) | Mass<br>SUM<br>(mg)<br>(whole<br>depth 30<br>cm) |
|---------------------------|---------------|-----------------|---------------------------|----------------------------------------------|------------------------------------------|------------------------------------------|-----------------------|-----------------------------------|-----------------------------|----------------------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------------------------|----------------------------|--------------------------------------------------|
| WW1.1 (0-2 cm)            | 0.0051        | 2               | 0.0102                    | 0.272313                                     | 0.000663                                 | 353.4292                                 | 0.234316              | 3.51474                           | 1.2E-05                     | 0.009571                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 0.081947                   | 65.63276                                         |
| WW1.1 (2-10 cm)           | 0.2914        | 8               | 2.3312                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.002731                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 18.7288                    |                                                  |
| WW1.1 (10-30cm)           | 0.2914        | 20              | 5.828                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.006828                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 46.82201                   |                                                  |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                                  |
| WW1.2 (0-2cm)             | 0.1435        | 2               | 0.287                     | 0.254767                                     | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 0.000336                    | 0.008954                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 2.305751                   | 61.40367                                         |
| WW1.2 (2-10cm)            | 0.191         | 8               | 1.528                     |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.00179                     |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 12.27591                   |                                                  |
| WW1.2 (10-30cm)           | 0.2914        | 20              | 5.828                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.006828                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 46.82201                   |                                                  |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                                  |
| WW1.3 (0-2 cm)            | 0.1195        | 2               | 0.239                     | 0.154593                                     | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 0.00028                     | 0.005434                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 1.92012                    | 37.25997                                         |
| WW1.3 (2-10cm)            | 0.1441        | 8               | 1.1528                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.001351                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 9.261567                   |                                                  |
| WW1.3 (10-30 cm)          | 0.1623        | 20              | 3.246                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.003803                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 26.07828                   |                                                  |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                                  |
| WW2.1 (0-2 cm)            | 0.1106        | 2               | 0.2212                    | 0.17896                                      | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 0.000259                    | 0.00629                                      | 121.18                               | 0.017671                            | 6857.385                                                                         | 1.777115                   | 43.13281                                         |
| WW2.1 (2-10cm)            | 0.2692        | 8               | 2.1536                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.002523                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 17.30197                   |                                                  |
| WW2.1 (10-30 cm)          | 0.1497        | 20              | 2.994                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.003508                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 24.05372                   |                                                  |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                                  |
| WW2.2 (0-2 cm)            | 0.1098        | 2               | 0.2196                    | 0.13612                                      | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 0.000257                    | 0.004784                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 1.764261                   | 32.80754                                         |
| WW2.2 (2-10 cm)           | 0.1355        | 8               | 1.084                     |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.00127                     |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 8.708829                   |                                                  |
| WW2.2 (10-30 cm)          | 0.139         | 20              | 2.78                      |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.003257                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 22.33445                   |                                                  |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                                  |
| WW2.3 (0-10 cm)           | 0.1631        | 2               | 0.3262                    | 0.152153                                     | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 0.000382                    | 0.005348                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 2.620683                   | 36.67188                                         |
| WW2.3 (2-10 cm)           | 0.2048        | 8               | 1.6384                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.00192                     |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 13.16287                   |                                                  |
| WW2.3 (10-30 cm)          | 0.13          | 20              | 2.6                       |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.003046                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 20.88834                   |                                                  |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                                  |
| WW4.1 (0-2 cm)            | 0.1331        | 2               | 0.2662                    | 0.376287                                     | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 0.000312                    | 0.013225                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 2.138644                   | 90.69233                                         |
| WW4.1 (2-10 cm)           | 0.2203        | 8               | 1.7624                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.002065                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 14.15908                   |                                                  |
| WW4.1 (10-30 cm)          | 0.463         | 20              | 9.26                      |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.010849                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 74.39461                   |                                                  |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                                  |
| WW4.2 (0-2cm)             | 0.2654        | 2               | 0.5308                    | 0.21608                                      | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 0.000622                    | 0.007595                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 4.264434                   | 52.07944                                         |
| WW4.2 (2-10 cm)           | 0.2057        | 8               | 1.6456                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.001928                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 13.22071                   |                                                  |
| WW4.2 (10-30 cm)          | 0.2153        | 20              | 4.306                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.005045                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 34.5943                    |                                                  |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                                  |
| WW4.3 (0-2 cm)            | 0.1227        | 2               | 0.2454                    | 0.165913                                     | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 0.000288                    | 0.005831                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 1.971538                   | 39.98831                                         |
| WW4.3 (2-10 cm)           | 0.151         | 8               | 1.208                     |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.001415                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 9.705042                   |                                                  |
| WW4.3 (10-30 cm)          | 0.1762        | 20              | 3.524                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.004129                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 28.31173                   |                                                  |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                                  |
| WW6.1 (0-2 cm)            | 0.2309        | 2               | 0.4618                    | 0.323367                                     | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 0.000541                    | 0.011365                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 3.71009                    | 77.9376                                          |
| WW6.1 (2-10 cm)           | 0.1899        | 8               | 1.5192                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.00178                     |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 12.20522                   |                                                  |
| WW6.1 (10-30 cm)          | 0.386         | 20              | 7.72                      |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.009045                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 62.02229                   |                                                  |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                                  |

| Paddocks (Interval Depth) | Cr<br>(mg/kg) | Depth<br>Weight | Cr<br>weighted<br>(mg/kg) | Weighted<br>mean<br>concentration<br>(mg/kg) | Bulk<br>Density<br>(kg/cm <sup>3</sup> ) | Interval<br>volume<br>(cm <sup>3</sup> ) | Sediment<br>mass (mg) | whole<br>sediment<br>mass<br>core | Actual<br>mass<br>pool (mg) | Sum of<br>mass<br>whole<br>core pool<br>(mg) | Paddock<br>Area<br>(m <sup>2</sup> ) | Cores<br>Area<br>(cm <sup>3</sup> ) | Paddock<br>Over<br>Core<br>(estimated<br>core<br>numbers<br>within a<br>paddock) | Mass in<br>paddock<br>(mg) | Mass<br>SUM<br>(mg)<br>(whole<br>depth 30<br>cm) |
|---------------------------|---------------|-----------------|---------------------------|----------------------------------------------|------------------------------------------|------------------------------------------|-----------------------|-----------------------------------|-----------------------------|----------------------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------------------------|----------------------------|--------------------------------------------------|
| WW6.2 (0-2 cm)            | 0.1491        | 2               | 0.2982                    | 0.181327                                     | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 0.000349                    | 0.006373                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 2.395731                   | 43.70322                                         |
| WW6.2 (2-10 cm)           | 0.1357        | 8               | 1.0856                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.001272                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 8.721684                   |                                                  |
| WW6.2 (10-30 cm)          | 0.2028        | 20              | 4.056                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.004752                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 32.5858                    |                                                  |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                                  |
| WW6.3 (0-2 cm)            | 0.1454        | 2               | 0.2908                    | 0.16768                                      | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 0.000341                    | 0.005894                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 2.33628                    | 40.41411                                         |
| WW6.3 (2-10 cm)           | 0.1327        | 8               | 1.0616                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.001244                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 8.528868                   |                                                  |
| WW6.3 (10-30 cm)          | 0.1839        | 20              | 3.678                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.004309                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 29.54896                   |                                                  |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                                  |
| WW7.1 (0-2cm)             | 0.214         | 2               | 0.428                     | 0.245987                                     | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 0.000501                    | 0.008646                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 3.438541                   | 59.28752                                         |
| WW7.1 (2-10cm)            | 0.2327        | 8               | 1.8616                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.002181                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 14.95605                   |                                                  |
| WW7.1 (10-30 cm)          | 0.2545        | 20              | 5.09                      |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.005963                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 40.89293                   |                                                  |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                                  |
| WW7.2 (0-2 cm)            | 0.2581        | 2               | 0.5162                    | 0.275953                                     | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 0.000605                    | 0.009699                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 4.147138                   | 66.51007                                         |
| WW7.2 (2-10cm)            | 0.3363        | 8               | 2.6904                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.003152                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 21.61461                   |                                                  |
| WW7.2 (10-30 cm)          | 0.2536        | 20              | 5.072                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.005942                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 40.74832                   |                                                  |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                                  |
| WW7.3 (0-2 cm)            | 0.277         | 2               | 0.554                     | 0.256093                                     | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 0.000649                    | 0.009001                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 4.450822                   | 61.72343                                         |
| WW7.3 (2-10 cm)           | 0.1981        | 8               | 1.5848                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.001857                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 12.73224                   |                                                  |
| WW7.3 (10-30 cm)          | 0.2772        | 20              | 5.544                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.006495                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 44.54036                   |                                                  |

| Paddocks (Interval Depth) | Cu<br>(mg/kg) | Depth<br>Weight | Cu<br>weighted<br>(mg/kg) | Weighted<br>mean<br>concentration<br>(mg/kg) | Bulk<br>Density<br>(kg/cm <sup>3</sup> ) | Interval<br>volume<br>(cm <sup>3</sup> ) | Sediment<br>mass (mg) | whole<br>sediment<br>mass<br>core | Actual<br>mass<br>pool (kg) | Sum of<br>mass<br>whole<br>core pool<br>(mg) | Paddock<br>Area<br>(m <sup>2</sup> ) | Cores<br>Area<br>(cm <sup>3</sup> ) | Paddock<br>Over<br>Core<br>(estimated<br>core<br>numbers<br>within a<br>paddock) | Mass in<br>paddock<br>(mg) | Mass SUM<br>(mg) (whole<br>depth 30 cm) |
|---------------------------|---------------|-----------------|---------------------------|----------------------------------------------|------------------------------------------|------------------------------------------|-----------------------|-----------------------------------|-----------------------------|----------------------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------------------------|----------------------------|-----------------------------------------|
| WW1.1 (0-2 cm)            | 0.0464        | 2               | 0.0928                    | 0.047893                                     | 0.000663                                 | 353.4292                                 | 0.234316              | 3.51474                           | 0.000109                    | 0.001683                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 0.745553                   | 11.54322                                |
| WW1.1 (2-10 cm)           | 0.048         | 8               | 0.384                     |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.00045                     |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 3.085047                   |                                         |
| WW1.1 (10-30cm)           | 0.048         | 20              | 0.96                      |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.001125                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 7.712616                   |                                         |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                         |
| WW1.2 (0-2cm)             | 0.0372        | 2               | 0.0744                    | 0.04736                                      | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 8.72E-05                    | 0.001665                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 0.597728                   | 11.41467                                |
| WW1.2 (2-10cm)            | 0.0483        | 8               | 0.3864                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.000453                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 3.104328                   |                                         |
| WW1.2 (10-30cm)           | 0.048         | 20              | 0.96                      |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.001125                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 7.712616                   |                                         |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                         |
| WW1.3 (0-2 cm)            | 0.0483        | 2               | 0.0966                    | 0.042927                                     | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 0.000113                    | 0.001509                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 0.776082                   | 10.34615                                |
| WW1.3 (2-10cm)            | 0.0429        | 8               | 0.3432                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.000402                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 2.75726                    |                                         |
| WW1.3 (10-30 cm)          | 0.0424        | 20              | 0.848                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.000993                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 6.812811                   |                                         |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                         |
| WW2.1 (0-2 cm)            | 0.0355        | 2               | 0.071                     | 0.040167                                     | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 8.32E-05                    | 0.001412                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 0.570412                   | 9.68094                                 |
| WW2.1 (2-10cm)            | 0.0435        | 8               | 0.348                     |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.000408                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 2.795823                   |                                         |
| WW2.1 (10-30 cm)          | 0.0393        | 20              | 0.786                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.000921                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 6.314705                   |                                         |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                         |
| WW2.2 (0-2 cm)            | 0.0409        | 2               | 0.0818                    | 0.034673                                     | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 9.58E-05                    | 0.001219                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 0.657179                   | 8.356941                                |
| WW2.2 (2-10 cm)           | 0.0348        | 8               | 0.2784                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.000326                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 2.236659                   |                                         |
| WW2.2 (10-30 cm)          | 0.034         | 20              | 0.68                      |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.000797                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 5.463103                   |                                         |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                         |
| WW2.3 (0-10 cm)           | 0.0405        | 2               | 0.081                     | 0.04062                                      | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 9.49E-05                    | 0.001428                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 0.650752                   | 9.790202                                |
| WW2.3 (2-10 cm)           | 0.0447        | 8               | 0.3576                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.000419                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 2.87295                    |                                         |
| WW2.3 (10-30 cm)          | 0.039         | 20              | 0.78                      |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.000914                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 6.266501                   |                                         |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                         |
| WW4.1 (0-2 cm)            | 0.0384        | 2               | 0.0768                    | 0.028027                                     | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 9E-05                       | 0.000985                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 0.617009                   | 6.754967                                |
| WW4.1 (2-10 cm)           | 0.035         | 8               | 0.28                      |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.000328                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 2.249513                   |                                         |
| WW4.1 (10-30 cm)          | 0.0242        | 20              | 0.484                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.000567                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 3.888444                   |                                         |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                         |
| WW4.2 (0-2cm)             | 0.0423        | 2               | 0.0846                    | 0.04098                                      | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 9.91E-05                    | 0.00144                                      | 121.18                               | 0.017671                            | 6857.385                                                                         | 0.679674                   | 9.876969                                |
| WW4.2 (2-10 cm)           | 0.0386        | 8               | 0.3088                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.000362                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 2.480892                   |                                         |
| WW4.2 (10-30 cm)          | 0.0418        | 20              | 0.836                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.000979                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 6.716403                   |                                         |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                         |
| WW4.3 (0-2 cm)            | 0.0354        | 2               | 0.0708                    | 0.03916                                      | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 8.29E-05                    | 0.001376                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 0.568805                   | 9.438314                                |
| WW4.3 (2-10 cm)           | 0.0405        | 8               | 0.324                     |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.00038                     |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 2.603008                   |                                         |
| WW4.3 (10-30 cm)          | 0.039         | 20              | 0.78                      |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.000914                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 6.266501                   |                                         |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                         |
| WW6.1 (0-2 cm)            | 0.0458        | 2               | 0.0916                    | 0.04316                                      | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 0.000107                    | 0.001517                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 0.735912                   | 10.40239                                |
| WW6.1 (2-10 cm)           | 0.0394        | 8               | 0.3152                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.000369                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 2.532309                   |                                         |
| WW6.1 (10-30 cm)          | 0.0444        | 20              | 0.888                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.00104                     |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 7.13417                    |                                         |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                         |
| WW6.2 (0-2 cm)            | 0.0399        | 2               | 0.0798                    | 0.03902                                      | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 9.35E-05                    | 0.001371                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 0.641111                   | 9.404572                                |

| Paddocks (Interval Depth) | Cu<br>(mg/kg) | Depth<br>Weight | Cu<br>weighted<br>(mg/kg) | Weighted<br>mean<br>concentration<br>(mg/kg) | Bulk<br>Density<br>(kg/cm <sup>3</sup> ) | Interval<br>volume<br>(cm <sup>3</sup> ) | Sediment<br>mass (mg) | whole<br>sediment<br>mass<br>core | Actual<br>mass<br>pool (kg) | Sum of<br>mass<br>whole<br>core pool<br>(mg) | Paddock<br>Area<br>(m <sup>2</sup> ) | Cores<br>Area<br>(cm <sup>3</sup> ) | Paddock<br>Over<br>Core<br>(estimated<br>core<br>numbers<br>within a<br>paddock) | Mass in<br>paddock<br>(mg) | Mass SUM<br>(mg) (whole<br>depth 30 cm) |
|---------------------------|---------------|-----------------|---------------------------|----------------------------------------------|------------------------------------------|------------------------------------------|-----------------------|-----------------------------------|-----------------------------|----------------------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------------------------|----------------------------|-----------------------------------------|
| WW6.2 (2-10 cm)           | 0.0361        | 8               | 0.2888                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.000338                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 2.320212                   |                                         |
| WW6.2 (10-30 cm)          | 0.0401        | 20              | 0.802                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.00094                     |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 6.443248                   |                                         |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                         |
| WW6.3 (0-2 cm)            | 0.0412        | 2               | 0.0824                    | 0.037333                                     | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 9.65E-05                    | 0.001312                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 0.662                      | 8.998052                                |
| WW6.3 (2-10 cm)           | 0.0322        | 8               | 0.2576                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.000302                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 2.069552                   |                                         |
| WW6.3 (10-30 cm)          | 0.039         | 20              | 0.78                      |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.000914                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 6.266501                   |                                         |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                         |
| WW7.1 (0-2cm)             | 0.0519        | 2               | 0.1038                    | 0.036993                                     | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 0.000122                    | 0.0013                                       | 121.18                               | 0.017671                            | 6857.385                                                                         | 0.833927                   | 8.916106                                |
| WW7.1 (2-10cm)            | 0.035         | 8               | 0.28                      |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.000328                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 2.249513                   |                                         |
| WW7.1 (10-30 cm)          | 0.0363        | 20              | 0.726                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.000851                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 5.832666                   |                                         |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                         |
| WW7.2 (0-2 cm)            | 0.0453        | 2               | 0.0906                    | 0.04526                                      | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 0.000106                    | 0.001591                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 0.727878                   | 10.90853                                |
| WW7.2 (2-10cm)            | 0.0494        | 8               | 0.3952                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.000463                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 3.175027                   |                                         |
| WW7.2 (10-30 cm)          | 0.0436        | 20              | 0.872                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.001022                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 7.005627                   |                                         |
|                           |               |                 |                           |                                              |                                          |                                          |                       |                                   |                             |                                              |                                      |                                     |                                                                                  |                            |                                         |
| WW7.3 (0-2 cm)            | 0.0363        | 2               | 0.0726                    | 0.037753                                     | 0.000663                                 | 353.4292                                 | 0.234316              |                                   | 8.51E-05                    | 0.001327                                     | 121.18                               | 0.017671                            | 6857.385                                                                         | 0.583267                   | 9.099281                                |
| WW7.3 (2-10 cm)           | 0.034         | 8               | 0.272                     |                                              | 0.000663                                 | 1413.717                                 | 0.937264              |                                   | 0.000319                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 2.185241                   |                                         |
| WW7.3 (10-30 cm)          | 0.0394        | 20              | 0.788                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316               |                                   | 0.000923                    |                                              | 121.18                               | 0.017671                            | 6857.385                                                                         | 6.330773                   |                                         |

| Paddocks (Interval Depth) | Zn<br>(mg/kg) | Depth<br>Weight | Cu<br>weighted<br>(mg/kg) | Weighted<br>mean<br>concentration<br>(mg/kg) | Bulk<br>Density<br>(kg/cm <sup>3</sup> ) | Interval<br>volume<br>(cm <sup>3</sup> ) | Sediment<br>mass<br>(mg) | whole<br>sediment<br>mass<br>core | Actual<br>mass pool<br>(mg) | Sum of<br>mass<br>whole<br>core<br>pool<br>(mg) | Paddock<br>Area<br>(m <sup>2</sup> ) | Cores<br>Area<br>(cm <sup>3</sup> ) | Paddock<br>Over<br>Core<br>(estimated<br>core<br>numbers<br>within a<br>paddock) | Mass in<br>paddock<br>(mg) | Mass<br>SUM (mg)<br>(whole<br>depth 30<br>cm) |
|---------------------------|---------------|-----------------|---------------------------|----------------------------------------------|------------------------------------------|------------------------------------------|--------------------------|-----------------------------------|-----------------------------|-------------------------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------------------------|----------------------------|-----------------------------------------------|
| WW1.1 (0-2 cm)            | 0.642         | 2               | 1.284                     | 0.449827                                     | 0.000663                                 | 353.4292                                 | 0.234316                 | 3.51474                           | 0.001504                    | 0.01581                                         | 121.18                               | 0.017671                            | 6857.385                                                                         | 10.31562                   | 108.4169                                      |
| WW1.1 (2-10 cm)           | 0.4361        | 8               | 3.4888                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264                 |                                   | 0.004087                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 28.02893                   |                                               |
| WW1.1 (10-30cm)           | 0.4361        | 20              | 8.722                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316                  |                                   | 0.010219                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 70.07233                   |                                               |
|                           |               |                 |                           |                                              |                                          |                                          |                          |                                   |                             |                                                 |                                      |                                     |                                                                                  |                            |                                               |
| WW1.2 (0-2cm)             | 0.4341        | 2               | 0.8682                    | 0.422633                                     | 0.000663                                 | 353.4292                                 | 0.234316                 |                                   | 0.001017                    | 0.014854                                        | 121.18                               | 0.017671                            | 6857.385                                                                         | 6.975097                   | 101.8628                                      |
| WW1.2 (2-10cm)            | 0.3861        | 8               | 3.0888                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264                 |                                   | 0.003619                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 24.81534                   |                                               |
| WW1.2 (10-30cm)           | 0.4361        | 20              | 8.722                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316                  |                                   | 0.010219                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 70.07233                   |                                               |
|                           |               |                 |                           |                                              |                                          |                                          |                          |                                   |                             |                                                 |                                      |                                     |                                                                                  |                            |                                               |
| WW1.3 (0-2 cm)            | 0.617         | 2               | 1.234                     | 0.341                                        | 0.000663                                 | 353.4292                                 | 0.234316                 |                                   | 0.001446                    | 0.011985                                        | 121.18                               | 0.017671                            | 6857.385                                                                         | 9.913926                   | 82.18757                                      |
| WW1.3 (2-10cm)            | 0.3285        | 8               | 2.628                     |                                              | 0.000663                                 | 1413.717                                 | 0.937264                 |                                   | 0.003079                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 21.11329                   |                                               |
| WW1.3 (10-30 cm)          | 0.3184        | 20              | 6.368                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316                  |                                   | 0.007461                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 51.16036                   |                                               |
|                           |               |                 |                           |                                              |                                          |                                          |                          |                                   |                             |                                                 |                                      |                                     |                                                                                  |                            |                                               |
| WW2.1 (0-2 cm)            | 0.3909        | 2               | 0.7818                    | 0.2981                                       | 0.000663                                 | 353.4292                                 | 0.234316                 |                                   | 0.000916                    | 0.010477                                        | 121.18                               | 0.017671                            | 6857.385                                                                         | 6.280962                   | 71.84784                                      |
| WW2.1 (2-10cm)            | 0.2914        | 8               | 2.3312                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264                 |                                   | 0.002731                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 18.7288                    |                                               |
| WW2.1 (10-30 cm)          | 0.2915        | 20              | 5.83                      |                                              | 0.000663                                 | 3534.292                                 | 2.34316                  |                                   | 0.00683                     |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 46.83808                   |                                               |
|                           |               |                 |                           |                                              |                                          |                                          |                          |                                   |                             |                                                 |                                      |                                     |                                                                                  |                            |                                               |
| WW2.2 (0-2 cm)            | 0.95          | 2               | 1.9                       | 0.28316                                      | 0.000663                                 | 353.4292                                 | 0.234316                 |                                   | 0.002226                    | 0.009952                                        | 121.18                               | 0.017671                            | 6857.385                                                                         | 15.26455                   | 68.24701                                      |
| WW2.2 (2-10 cm)           | 0.3001        | 8               | 2.4008                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264                 |                                   | 0.002813                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 19.28797                   |                                               |
| WW2.2 (10-30 cm)          | 0.2097        | 20              | 4.194                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316                  |                                   | 0.004914                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 33.69449                   |                                               |
|                           |               |                 |                           |                                              |                                          |                                          |                          |                                   |                             |                                                 |                                      |                                     |                                                                                  |                            |                                               |
| WW2.3 (0-10 cm)           | 0.3575        | 2               | 0.715                     | 0.417153                                     | 0.000663                                 | 353.4292                                 | 0.234316                 |                                   | 0.000838                    | 0.014662                                        | 121.18                               | 0.017671                            | 6857.385                                                                         | 5.744292                   | 100.542                                       |
| WW2.3 (2-10 cm)           | 0.4172        | 8               | 3.3376                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264                 |                                   | 0.00391                     |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 26.8142                    |                                               |
| WW2.3 (10-30 cm)          | 0.4231        | 20              | 8.462                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316                  |                                   | 0.009914                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 67.9835                    |                                               |
|                           |               |                 |                           |                                              |                                          |                                          |                          |                                   |                             |                                                 |                                      |                                     |                                                                                  |                            |                                               |
| WW4.1 (0-2 cm)            | 0.498         | 2               | 0.996                     | 0.544667                                     | 0.000663                                 | 353.4292                                 | 0.234316                 |                                   | 0.001167                    | 0.019144                                        | 121.18                               | 0.017671                            | 6857.385                                                                         | 8.00184                    | 131.2752                                      |
| WW4.1 (2-10 cm)           | 0.523         | 8               | 4.184                     |                                              | 0.000663                                 | 1413.717                                 | 0.937264                 |                                   | 0.004902                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 33.61415                   |                                               |
| WW4.1 (10-30 cm)          | 0.558         | 20              | 11.16                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316                  |                                   | 0.013075                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 89.65917                   |                                               |
|                           |               |                 |                           |                                              |                                          |                                          |                          |                                   |                             |                                                 |                                      |                                     |                                                                                  |                            |                                               |
| WW4.2 (0-2cm)             | 0.777         | 2               | 1.554                     | 0.530333                                     | 0.000663                                 | 353.4292                                 | 0.234316                 |                                   | 0.001821                    | 0.01864                                         | 121.18                               | 0.017671                            | 6857.385                                                                         | 12.4848                    | 127.8205                                      |
| WW4.2 (2-10 cm)           | 0.537         | 8               | 4.296                     |                                              | 0.000663                                 | 1413.717                                 | 0.937264                 |                                   | 0.005033                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 34.51396                   |                                               |
| WW4.2 (10-30 cm)          | 0.503         | 20              | 10.06                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316                  |                                   | 0.011786                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 80.82179                   |                                               |
|                           |               |                 |                           |                                              |                                          |                                          |                          |                                   |                             |                                                 |                                      |                                     |                                                                                  |                            |                                               |
| WW4.3 (0-2 cm)            | 0.708         | 2               | 1.416                     | 0.618                                        | 0.000663                                 | 353.4292                                 | 0.234316                 |                                   | 0.001659                    | 0.021721                                        | 121.18                               | 0.017671                            | 6857.385                                                                         | 11.37611                   | 148.9499                                      |
| WW4.3 (2-10 cm)           | 0.638         | 8               | 5.104                     |                                              | 0.000663                                 | 1413.717                                 | 0.937264                 |                                   | 0.00598                     |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 41.00541                   |                                               |
| WW4.3 (10-30 cm)          | 0.601         | 20              | 12.02                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316                  |                                   | 0.014082                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 96.56838                   |                                               |
|                           |               |                 |                           |                                              |                                          |                                          |                          |                                   |                             |                                                 |                                      |                                     |                                                                                  |                            |                                               |
| WW6.1 (0-2 cm)            | 0.531         | 2               | 1.062                     | 0.5786                                       | 0.000663                                 | 353.4292                                 | 0.234316                 |                                   | 0.001244                    | 0.020336                                        | 121.18                               | 0.017671                            | 6857.385                                                                         | 8.532082                   | 139.4537                                      |
| WW6.1 (2-10 cm)           | 0.532         | 8               | 4.256                     |                                              | 0.000663                                 | 1413.717                                 | 0.937264                 |                                   | 0.004986                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 34.1926                    |                                               |
| WW6.1 (10-30 cm)          | 0.602         | 20              | 12.04                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316                  |                                   | 0.014106                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 96.72906                   |                                               |
|                           |               |                 |                           |                                              |                                          |                                          |                          |                                   |                             |                                                 |                                      |                                     |                                                                                  |                            |                                               |
| WW6.2 (0-2 cm)            | 0.5341        | 2               | 1.0682                    | 0.42126                                      | 0.000663                                 | 353.4292                                 | 0.234316                 |                                   | 0.001251                    | 0.014806                                        | 121.18                               | 0.017671                            | 6857.385                                                                         | 8.581893                   | 101.5318                                      |

| Paddocks (Interval Depth) | Zn<br>(mg/kg) | Depth<br>Weight | Cu<br>weighted<br>(mg/kg) | Weighted<br>mean<br>concentration<br>(mg/kg) | Bulk<br>Density<br>(kg/cm <sup>3</sup> ) | Interval<br>volume<br>(cm <sup>3</sup> ) | Sediment<br>mass<br>(mg) | whole<br>sediment<br>mass<br>core | Actual<br>mass pool<br>(mg) | Sum of<br>mass<br>whole<br>core<br>pool<br>(mg) | Paddock<br>Area<br>(m <sup>2</sup> ) | Cores<br>Area<br>(cm <sup>3</sup> ) | Paddock<br>Over<br>Core<br>(estimated<br>core<br>numbers<br>within a<br>paddock) | Mass in<br>paddock<br>(mg) | Mass<br>SUM (mg)<br>(whole<br>depth 30<br>cm) |
|---------------------------|---------------|-----------------|---------------------------|----------------------------------------------|------------------------------------------|------------------------------------------|--------------------------|-----------------------------------|-----------------------------|-------------------------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------------------------------------------|----------------------------|-----------------------------------------------|
| WW6.2 (2-10 cm)           | 0.3437        | 8               | 2.7496                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264                 |                                   | 0.003221                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 22.09022                   |                                               |
| WW6.2 (10-30 cm)          | 0.441         | 20              | 8.82                      |                                              | 0.000663                                 | 3534.292                                 | 2.34316                  |                                   | 0.010333                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 70.85966                   |                                               |
|                           |               |                 |                           |                                              |                                          |                                          |                          |                                   |                             |                                                 |                                      |                                     |                                                                                  |                            |                                               |
| WW6.3 (0-2 cm)            | 0.734         | 2               | 1.468                     | 0.5616                                       | 0.000663                                 | 353.4292                                 | 0.234316                 |                                   | 0.00172                     | 0.019739                                        | 121.18                               | 0.017671                            | 6857.385                                                                         | 11.79388                   | 135.3564                                      |
| WW6.3 (2-10 cm)           | 0.601         | 8               | 4.808                     |                                              | 0.000663                                 | 1413.717                                 | 0.937264                 |                                   | 0.005633                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 38.62735                   |                                               |
| WW6.3 (10-30 cm)          | 0.5286        | 20              | 10.572                    |                                              | 0.000663                                 | 3534.292                                 | 2.34316                  |                                   | 0.012386                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 84.93519                   |                                               |
|                           |               |                 |                           |                                              |                                          |                                          |                          |                                   |                             |                                                 |                                      |                                     |                                                                                  |                            |                                               |
| WW7.1 (0-2cm)             | 0.677         | 2               | 1.354                     | 0.496733                                     | 0.000663                                 | 353.4292                                 | 0.234316                 |                                   | 0.001586                    | 0.017459                                        | 121.18                               | 0.017671                            | 6857.385                                                                         | 10.878                     | 119.7223                                      |
| WW7.1 (2-10cm)            | 0.481         | 8               | 3.848                     |                                              | 0.000663                                 | 1413.717                                 | 0.937264                 |                                   | 0.004508                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 30.91474                   |                                               |
| WW7.1 (10-30 cm)          | 0.485         | 20              | 9.7                       |                                              | 0.000663                                 | 3534.292                                 | 2.34316                  |                                   | 0.011364                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 77.92956                   |                                               |
|                           |               |                 |                           |                                              |                                          |                                          |                          |                                   |                             |                                                 |                                      |                                     |                                                                                  |                            |                                               |
| WW7.2 (0-2 cm)            | 0.545         | 2               | 1.09                      | 0.5558                                       | 0.000663                                 | 353.4292                                 | 0.234316                 |                                   | 0.001277                    | 0.019535                                        | 121.18                               | 0.017671                            | 6857.385                                                                         | 8.757033                   | 133.9585                                      |
| WW7.2 (2-10cm)            | 0.663         | 8               | 5.304                     |                                              | 0.000663                                 | 1413.717                                 | 0.937264                 |                                   | 0.006214                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 42.61221                   |                                               |
| WW7.2 (10-30 cm)          | 0.514         | 20              | 10.28                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316                  |                                   | 0.012044                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 82.58927                   |                                               |
|                           |               |                 |                           |                                              |                                          |                                          |                          |                                   |                             |                                                 |                                      |                                     |                                                                                  |                            |                                               |
| WW7.3 (0-2 cm)            | 0.7           | 2               | 1.4                       | 0.55424                                      | 0.000663                                 | 353.4292                                 | 0.234316                 |                                   | 0.00164                     | 0.01948                                         | 121.18                               | 0.017671                            | 6857.385                                                                         | 11.24757                   | 133.5825                                      |
| WW7.3 (2-10 cm)           | 0.5609        | 8               | 4.4872                    |                                              | 0.000663                                 | 1413.717                                 | 0.937264                 |                                   | 0.005257                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 36.05005                   |                                               |
| WW7.3 (10-30 cm)          | 0.537         | 20              | 10.74                     |                                              | 0.000663                                 | 3534.292                                 | 2.34316                  |                                   | 0.012583                    |                                                 | 121.18                               | 0.017671                            | 6857.385                                                                         | 86.2849                    |                                               |

| Paddocks (Interval Depth) | U (mg/kg) | Depth Weight | Cu weighted (mg/kg) | Weighted mean concentration (mg/kg) | Bulk Density (kg/cm <sup>3</sup> ) | Interval volume (cm <sup>3</sup> ) | Sediment mass (mg) | whole sediment mass core | Actual mass pool (mg) | Sum of mass whole core pool (mg) | Paddock Area (m <sup>2</sup> ) | Cores Area (cm <sup>3</sup> ) | Paddock Over Core (estimated core numbers within a paddock) | Mass in paddock (mg) | Mass SUM (mg) (whole depth 30 cm) |
|---------------------------|-----------|--------------|---------------------|-------------------------------------|------------------------------------|------------------------------------|--------------------|--------------------------|-----------------------|----------------------------------|--------------------------------|-------------------------------|-------------------------------------------------------------|----------------------|-----------------------------------|
| WW1.1 (0-2 cm)            | 0.005     | 2            | 0.01                | 0.001453                            | 0.000663                           | 353.4292                           | 0.234316           | 3.51474                  | 1.17E-05              | 5.11E-05                         | 121.18                         | 0.017671                      | 6857.385                                                    | 0.08034              | 0.350281                          |
| WW1.1 (2-10 cm)           | 0.0012    | 8            | 0.0096              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 1.12E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.077126             |                                   |
| WW1.1 (10-30cm)           | 0.0012    | 20           | 0.024               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 2.81E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.192815             |                                   |
|                           |           |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW1.2 (0-2cm)             | 0.0013    | 2            | 0.0026              | 0.001473                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 3.05E-06              | 5.18E-05                         | 121.18                         | 0.017671                      | 6857.385                                                    | 0.020888             | 0.355102                          |
| WW1.2 (2-10cm)            | 0.0022    | 8            | 0.0176              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 2.06E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.141398             |                                   |
| WW1.2 (10-30cm)           | 0.0012    | 20           | 0.024               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 2.81E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.192815             |                                   |
|                           |           |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW1.3 (0-2 cm)            | 0.0036    | 2            | 0.0072              | 0.00148                             | 0.000663                           | 353.4292                           | 0.234316           |                          | 8.44E-06              | 5.2E-05                          | 121.18                         | 0.017671                      | 6857.385                                                    | 0.057845             | 0.356709                          |
| WW1.3 (2-10cm)            | 0.0014    | 8            | 0.0112              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 1.31E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.089981             |                                   |
| WW1.3 (10-30 cm)          | 0.0013    | 20           | 0.026               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 3.05E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.208883             |                                   |
|                           |           |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW2.1 (0-2 cm)            | 0.0013    | 2            | 0.0026              | 0.0013                              | 0.000663                           | 353.4292                           | 0.234316           |                          | 3.05E-06              | 4.57E-05                         | 121.18                         | 0.017671                      | 6857.385                                                    | 0.020888             | 0.313325                          |
| WW2.1 (2-10cm)            | 0.0013    | 8            | 0.0104              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 1.22E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.083553             |                                   |
| WW2.1 (10-30 cm)          | 0.0013    | 20           | 0.026               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 3.05E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.208883             |                                   |
|                           |           |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW2.2 (0-2 cm)            | 0.0038    | 2            | 0.0076              | 0.001467                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 8.9E-06               | 5.15E-05                         | 121.18                         | 0.017671                      | 6857.385                                                    | 0.061058             | 0.353495                          |
| WW2.2 (2-10 cm)           | 0.0013    | 8            | 0.0104              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 1.22E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.083553             |                                   |
| WW2.2 (10-30 cm)          | 0.0013    | 20           | 0.026               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 3.05E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.208883             |                                   |
|                           |           |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW2.3 (0-10 cm)           | 0.0019    | 2            | 0.0038              | 0.00146                             | 0.000663                           | 353.4292                           | 0.234316           |                          | 4.45E-06              | 5.13E-05                         | 121.18                         | 0.017671                      | 6857.385                                                    | 0.030529             | 0.351888                          |
| WW2.3 (2-10 cm)           | 0.0015    | 8            | 0.012               |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 1.41E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.096408             |                                   |
| WW2.3 (10-30 cm)          | 0.0014    | 20           | 0.028               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 3.28E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.224951             |                                   |
|                           |           |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW4.1 (0-2 cm)            | 0.0013    | 2            | 0.0026              | 0.001207                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 3.05E-06              | 4.24E-05                         | 121.18                         | 0.017671                      | 6857.385                                                    | 0.020888             | 0.29083                           |
| WW4.1 (2-10 cm)           | 0.0012    | 8            | 0.0096              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 1.12E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.077126             |                                   |
| WW4.1 (10-30 cm)          | 0.0012    | 20           | 0.024               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 2.81E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.192815             |                                   |
|                           |           |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW4.2 (0-2cm)             | 0.0014    | 2            | 0.0028              | 0.001373                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 3.28E-06              | 4.83E-05                         | 121.18                         | 0.017671                      | 6857.385                                                    | 0.022495             | 0.331                             |
| WW4.2 (2-10 cm)           | 0.0013    | 8            | 0.0104              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 1.22E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.083553             |                                   |
| WW4.2 (10-30 cm)          | 0.0014    | 20           | 0.028               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 3.28E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.224951             |                                   |
|                           |           |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW4.3 (0-2 cm)            | 0.0018    | 2            | 0.0036              | 0.001427                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 4.22E-06              | 5.01E-05                         | 121.18                         | 0.017671                      | 6857.385                                                    | 0.028922             | 0.343854                          |
| WW4.3 (2-10 cm)           | 0.0014    | 8            | 0.0112              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 1.31E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.089981             |                                   |
| WW4.3 (10-30 cm)          | 0.0014    | 20           | 0.028               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 3.28E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.224951             |                                   |
|                           |           |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW6.1 (0-2 cm)            | 0.0018    | 2            | 0.0036              | 0.0014                              | 0.000663                           | 353.4292                           | 0.234316           |                          | 4.22E-06              | 4.92E-05                         | 121.18                         | 0.017671                      | 6857.385                                                    | 0.028922             | 0.337427                          |
| WW6.1 (2-10 cm)           | 0.0013    | 8            | 0.0104              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 1.22E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.083553             |                                   |
| WW6.1 (10-30 cm)          | 0.0014    | 20           | 0.028               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 3.28E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.224951             |                                   |
|                           |           |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |

| Paddocks (Interval Depth) | U (mg/kg) | Depth Weight | Cu weighted (mg/kg) | Weighted mean concentration (mg/kg) | Bulk Density (kg/cm <sup>3</sup> ) | Interval volume (cm <sup>3</sup> ) | Sediment mass (mg) | whole sediment mass core | Actual mass pool (mg) | Sum of mass whole core pool (mg) | Paddock Area (m <sup>2</sup> ) | Cores Area (cm <sup>3</sup> ) | Paddock Over Core (estimated core numbers within a paddock) | Mass in paddock (mg) | Mass SUM (mg) (whole depth 30 cm) |
|---------------------------|-----------|--------------|---------------------|-------------------------------------|------------------------------------|------------------------------------|--------------------|--------------------------|-----------------------|----------------------------------|--------------------------------|-------------------------------|-------------------------------------------------------------|----------------------|-----------------------------------|
| WW6.2 (0-2 cm)            | 0.0013    | 2            | 0.0026              | 0.0013                              | 0.000663                           | 353.4292                           | 0.234316           |                          | 3.05E-06              | 4.57E-05                         | 121.18                         | 0.017671                      | 6857.385                                                    | 0.020888             | 0.313325                          |
| WW6.2 (2-10 cm)           | 0.0013    | 8            | 0.0104              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 1.22E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.083553             |                                   |
| WW6.2 (10-30 cm)          | 0.0013    | 20           | 0.026               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 3.05E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.208883             |                                   |
|                           |           |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW6.3 (0-2 cm)            | 0.0051    | 2            | 0.0102              | 0.001527                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 1.2E-05               | 5.37E-05                         | 121.18                         | 0.017671                      | 6857.385                                                    | 0.081947             | 0.367956                          |
| WW6.3 (2-10 cm)           | 0.0012    | 8            | 0.0096              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 1.12E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.077126             |                                   |
| WW6.3 (10-30 cm)          | 0.0013    | 20           | 0.026               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 3.05E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.208883             |                                   |
|                           |           |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW7.1 (0-2cm)             | 0.0089    | 2            | 0.0178              | 0.001807                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 2.09E-05              | 6.35E-05                         | 121.18                         | 0.017671                      | 6857.385                                                    | 0.143005             | 0.435441                          |
| WW7.1 (2-10cm)            | 0.0013    | 8            | 0.0104              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 1.22E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.083553             |                                   |
| WW7.1 (10-30 cm)          | 0.0013    | 20           | 0.026               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 3.05E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.208883             |                                   |
|                           |           |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW7.2 (0-2 cm)            | 0.0029    | 2            | 0.0058              | 0.0015                              | 0.000663                           | 353.4292                           | 0.234316           |                          | 6.8E-06               | 5.27E-05                         | 121.18                         | 0.017671                      | 6857.385                                                    | 0.046597             | 0.361529                          |
| WW7.2 (2-10cm)            | 0.0014    | 8            | 0.0112              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 1.31E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.089981             |                                   |
| WW7.2 (10-30 cm)          | 0.0014    | 20           | 0.028               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 3.28E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.224951             |                                   |
|                           |           |              |                     |                                     |                                    |                                    |                    |                          |                       |                                  |                                |                               |                                                             |                      |                                   |
| WW7.3 (0-2 cm)            | 0.0035    | 2            | 0.007               | 0.002087                            | 0.000663                           | 353.4292                           | 0.234316           |                          | 8.2E-06               | 7.33E-05                         | 121.18                         | 0.017671                      | 6857.385                                                    | 0.056238             | 0.502927                          |
| WW7.3 (2-10 cm)           | 0.0037    | 8            | 0.0296              |                                     | 0.000663                           | 1413.717                           | 0.937264           |                          | 3.47E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.237806             |                                   |
| WW7.3 (10-30 cm)          | 0.0013    | 20           | 0.026               |                                     | 0.000663                           | 3534.292                           | 2.34316            |                          | 3.05E-05              |                                  | 121.18                         | 0.017671                      | 6857.385                                                    | 0.208883             |                                   |

## Appendix D 1: The ICP-OES water samples analysis data

| Paddocks     | Aluminum | Calcium | Iron  | Magnesium | Sodium | Nickel | Phosphorus | Sulphur |
|--------------|----------|---------|-------|-----------|--------|--------|------------|---------|
|              | ppm      | ppm     | ppm   | ppm       | ppm    | ppm    | ppm        | ppm     |
|              | Al       | Ca      | Fe    | Mg        | Na     | Ni     | P          | S       |
| Paddock1 WW1 | Nd       | 166.3   | 0.015 | 190.7     | 186.2  | nd     | nd         | 686.9   |
| Paddock1 WW2 | Nd       | 131.2   | 0.042 | 171.2     | 183.7  | nd     | nd         | 605.6   |
| Paddock1 WW3 | Nd       | 192.5   | 0.036 | 182.4     | 209    | nd     | nd         | 823.8   |
| Paddock2 WW1 | 0.081    | 174.4   | 0.027 | 194.1     | 214.7  | 0.013  | nd         | 749.1   |
| Paddock2 WW2 | Nd       | 162.7   | 0.045 | 182.9     | 204.2  | nd     | nd         | 703.6   |
| Paddock2 WW3 | 0.097    | 138.3   | 0.039 | 146.8     | 168.3  | nd     | nd         | 5839    |
| Paddock4 WW1 | 0.133    | 286.2   | 0.015 | 352.5     | 325    | nd     | nd         | 1316.4  |
| Paddock4 WW2 | Nd       | 142.3   | 0.026 | 162.6     | 195.7  | 0.004  | nd         | 584.4   |
| Paddock4 WW3 | Nd       | 2.532   | nd    | 326.9     | 336.5  | nd     | nd         | 1248.4  |
| Paddock6 WW1 | 0.15     | 284     | 0.035 | 369.6     | 397.2  | 0.031  | nd         | 1399.4  |
| Paddock6 WW2 | Nd       | 147     | 0.086 | 196.8     | 296    | 0.017  | nd         | 783.6   |
| Paddock6 WW3 | Nd       | 98.8    | 0.127 | 132.4     | 271.8  | 0.016  | nd         | 644.2   |
| Paddock7 WW1 | 0.102    | 144.9   | 0.01  | 198.2     | 270.4  | 0.044  | nd         | 736.5   |
| Paddock7 WW2 | 0.194    | 245.1   | 2.23  | 251.4     | 322.5  | 0.282  | nd         | 1100.4  |
| Paddock7 WW3 | Nd       | 160.6   | 0.037 | 233       | 308.1  | 0.071  | nd         | 919     |

**nd. refer to element concentration not detected**

## Appendix D2: The ICP-OES water samples analysis data by Omo-Okoro (2015)

| Sample  | Al    | Ca    | Fe    | Mg    | Na    | P   | S      |
|---------|-------|-------|-------|-------|-------|-----|--------|
|         | Ppm   | ppm   | ppm   | ppm   | ppm   | ppm | ppm    |
| PO 1.1  | 0.067 | 261.7 | 0.149 | 254.9 | 291.6 | nd  | 732    |
| PO 1.2  | 0.136 | 272.4 | 0.068 | 219.8 | 294.8 | nd  | 928    |
| PO 1.3  | 0.147 | 147   | 0.028 | 119   | 228.8 | nd  | 681.8  |
| PO 4.1  | 0.093 | 222.1 | 0.055 | 212.8 | 264.8 | nd  | 918.5  |
| PO 4.2  | 0.061 | 176.2 | 0.029 | 123.2 | 241.3 | nd  | 820.5  |
| PO 4.3  | 0.124 | 157.1 | 0.028 | 95.7  | 214.7 | nd  | 675    |
| PO 7.1  | 0.139 | 304.2 | 0.241 | 282.3 | 357.9 | nd  | 1229.8 |
| PO 7.2  | 0.076 | 210   | 0.036 | 181.2 | 290.1 | nd  | 959.4  |
| PO 7.3  | 0.138 | 268.4 | 0.023 | 200   | 310.5 | nd  | 1051.9 |
| PO 10.1 | 0.106 | 168.2 | 0.062 | 145.3 | 273.7 | nd  | 765.2  |
| PO 10.2 | Nd    | 204.2 | 0.087 | 139.2 | 211.6 | nd  | 705    |
| PO 10.3 | Nd    | 195.4 | 0.078 | 101.4 | 195.4 | nd  | 637.1  |
| PO 13.1 | Nd    | 194   | 0.019 | 192.1 | 175.2 | nd  | 782    |
| PO 13.2 | 0.104 | 190.3 | 0.012 | 169.8 | 174   | nd  | 738.3  |
| PO 13.3 | 0.119 | 248.5 | 0.034 | 264.6 | 195.2 | nd  | 1024.3 |
| PO 15.1 | Nd    | 309.5 | 0.038 | 321.2 | 213   | nd  | 1325.3 |
| PO 15.2 | 0.128 | 226.3 | 0.076 | 269.1 | 192.6 | nd  | 987.8  |

nd. refer to element concentration not detected

### Appendix D 3: The actual stream raw data by Joubert 2013

| West Wits             | 31/05/2013   |          |               |                          |                              |      |
|-----------------------|--------------|----------|---------------|--------------------------|------------------------------|------|
| Sampling In Situ Data |              |          |               |                          |                              |      |
| Paddock (M.J.)        | Co-ordinates |          | Temp.<br>(°C) | DO (mg.L <sup>-1</sup> ) | EC<br>(µS.cm <sup>-1</sup> ) | pH   |
| -1.1                  | 26.43595     | 27.36712 | 15.6          | 7.92                     | 3612                         | 6.99 |
| -1.3                  | 26.43617     | 27.36696 | 19.7          | 9.53                     | 3993                         | 7.06 |
| -2.1                  | 26.43656     | 27.36665 | 20            | 7.86                     | 4058                         | 7.01 |
| -2.3                  | 26.43665     | 27.3665  | 18.7          | 9.27                     | 4035                         | 7.01 |
| -3.1                  | 26.43675     | 27.36649 | 19.1          | 6.98                     | 4014                         | 6.89 |
| -3.3                  | 26.43684     | 27.36641 | 17.3          | 8.14                     | 3845                         | 6.86 |
| 0 (stilling pond)     | 26.43542     | 27.36774 | 18.7          | 8.33                     | 4095                         | 6.65 |
| 1.1(a)                | 26.4351      | 27.36796 | 12.2          | 9.58                     | 3450                         | 6.24 |
| 1.1 (b)               | 26.43506     | 27.36787 | n/a           | n/a                      | n/a                          | n/a  |
| 1.2                   | 26.43511     | 27.36782 | 15            | 8.64                     | 3905                         | 6.28 |
| 1.3                   | 26.43521     | 27.3678  | 14            | 11.28                    | 3642                         | 6.49 |
| 2.1                   | 26.43446     | 27.36837 | 14.3          | 4.21                     | 4430                         | 5.66 |
| 2.3                   | 26.43499     | 27.36805 | 10.7          | 6.12                     | 4333                         | 4.21 |
| 3.1                   | 26.43402     | 27.36847 | 12.1          | 8.54                     | 3708                         | 4.81 |
| 3.2                   | 26.43409     | 27.3684  | 14.2          | 6.89                     | 4065                         | 4.51 |
| 3.3                   | 26.4341      | 27.36833 | 13.2          | 5.77                     | 4561                         | 4.34 |
| 4.1                   | 26.43366     | 27.3688  | 17.8          | 6.81                     | 3816                         | 5.75 |
| 4.3                   | 26.43386     | 27.36864 | 14.7          | 7.6                      | 3801                         | 4.99 |
| 5.1                   | 26.43331     | 27.36913 | 15.1          | 6.86                     | 3708                         | 5    |
| 5.3                   | 26.43348     | 27.36894 | 15            | 7.33                     | 3502                         | 6.01 |
| 6.1                   | 26.43303     | 27.36928 | 17            | 7.43                     | 4128                         | 4.23 |
| 6.2                   | 26.43315     | 27.36923 | 14.7          | 7.44                     | 3967                         | 3.85 |
| 6.3                   | 26.43323     | 27.36919 | 15.5          | 8.43                     | 4093                         | 3.77 |
| 7.1                   | 26.43274     | 27.3694  | 16.8          | 6.84                     | 3804                         | 6.81 |
| 7.3                   | 26.43289     | 27.36932 | 17.1          | 6.93                     | 3726                         | 6.03 |
| 8.1                   | 26.43255     | 27.36989 | 21.4          | 6.27                     | 4760                         | 4.43 |
| 8.3                   | 26.43263     | 27.36951 | 14.2          | 8.43                     | 3870                         | 5.47 |
| 9.1                   | 26.43183     | 27.37021 | 15            | 8.03                     | 3717                         | 4.7  |
| 9.2                   | 26.43192     | 27.37021 | 18.1          | 8.22                     | 4139                         | 4.41 |
| 9.3                   | 26.43195     | 27.37015 | 18.1          | 8.32                     | 3056                         | 4.35 |
| 10.1                  | 26.43157     | 27.37035 | 12.8          | 9.35                     | 3383                         | 4.72 |
| 10.3                  | 26.4317      | 27.37029 | 18            | 9.4                      | 3823                         | 4.9  |
| 11.1                  | 26.43128     | 27.37052 | 17.1          | 8.21                     | 3620                         | 6.84 |
| 11.3                  | 26.43139     | 27.37048 | 17.7          | 8.61                     | 3746                         | 6.46 |
| 12.1                  | 26.43093     | 27.37068 | 12.8          | 9.76                     | 3443                         | 7.25 |
| 12.2                  | 26.43104     | 27.37063 | 22.5          | 6.54                     | 4083                         | 7.55 |
| 12.3                  | 26.43116     | 27.37059 | 19.9          | 6.56                     | 2473                         | 7.15 |
| 13.1                  | 26.43069     | 27.37087 | 13.9          | 6.9                      | 3170                         | 7    |
| 13.3                  | 26.43083     | 27.37077 | 16.3          | 8.74                     | 3436                         | 7.12 |
| 14.1                  | 26.43044     | 27.37108 | 16.2          | 6.91                     | 3227                         | 7.3  |
| 14.3                  | 26.43057     | 27.37098 | 18.6          | 6.66                     | 3780                         | 6.95 |
| 15.1                  | 26.43024     | 27.37124 | 12.8          | 6.95                     | 2907                         | 7.06 |

|                              |                     |          |                       |                               |                                   |           |
|------------------------------|---------------------|----------|-----------------------|-------------------------------|-----------------------------------|-----------|
| <b>West Wits</b>             | <b>31/05/2013</b>   |          |                       |                               |                                   |           |
| <b>Sampling In Situ Data</b> |                     |          |                       |                               |                                   |           |
| <b>Paddock (M.J.)</b>        | <b>Co-ordinates</b> |          | <b>Temp.<br/>(°C)</b> | <b>DO (mg.L<sup>-1</sup>)</b> | <b>EC<br/>(µS.cm<sup>1</sup>)</b> | <b>pH</b> |
| <b>15.2</b>                  | 26.43032            | 27.37118 | 16.3                  | 6.34                          | 3240                              | 6.76      |
| <b>15.3</b>                  | 26.43035            | 27.37115 | 16                    | 7.27                          | 3178                              | 7.17      |
| <b>16.1 (Trench)</b>         | 26.42869            | 27.37327 | 9.7                   | 5.43                          | 2678                              | 6.44      |

#### Appendix D 4: The actual sediment raw data

|                                                                     |               |           |                  |
|---------------------------------------------------------------------|---------------|-----------|------------------|
| Total number of prepared sediment profile samples for Analysis = 45 |               |           |                  |
| <b>Sediments profile</b>                                            | <b>Eh(Mv)</b> | <b>pH</b> | <b>EC(µs/cm)</b> |
| <b>(Paddock#) &amp; WW(1=Inflow, 2=Mid&amp; 3= outflow)</b>         |               |           |                  |
| <b>WW 1.1 (Inflow)</b>                                              |               |           |                  |
| 0-2cm                                                               | 299.20        | 6.62      | 823.00           |
| 2-10 cm                                                             | 298.20        | 6.74      | 762.00           |
| 10-30 cm                                                            | 245.40        | 6.78      | 700.00           |
| <b>WW 1.2 (middle)</b>                                              |               |           |                  |
| 0-2cm                                                               | 390.20        | 6.65      | 862.00           |
| 2-10 cm                                                             | 244.60        | 6.62      | 465.00           |
| 10-30 cm                                                            | 301.80        | 6.85      | 519.00           |
| <b>WW 1.3 (Outflow)</b>                                             |               |           |                  |
| 0-2cm                                                               | 252.10        | 6.64      | 530.00           |
| 2-10 cm                                                             | 302.80        | 6.61      | 379.00           |
| 10-30 cm                                                            | 308.40        | 6.69      | 388.00           |
| <b>WW 2.1 (Inflow)</b>                                              |               |           |                  |
| 0-2cm                                                               | 343.30        | 6.67      | 923.00           |
| 2-10 cm                                                             | 379.3         | 6.68      | 581              |
| 10-30 cm                                                            | 381.5         | 6.9       | 346              |
| <b>WW 2.2 (Middle)</b>                                              |               |           |                  |
| 0-2cm                                                               | 313.1         | 7.23      | 623              |
| 2-10 cm                                                             | 322.5         | 6.98      | 436              |
| 10-30 cm                                                            | 355.3         | 6.92      | 455              |
| <b>WW 2.3 (Outflow)</b>                                             |               |           |                  |
| 0-2cm                                                               | 312.4         | 6.8       | 1170             |
| 2-10 cm                                                             | 330.2         | 6.79      | 627              |
| 10-30 cm                                                            | 352.7         | 6.6       | 447              |
| <b>WW 4.1 (Inflow)</b>                                              |               |           |                  |
| 0-2cm                                                               | 335.3         | 6.89      | 707              |
| 2-10 cm                                                             | 305.9         | 6.87      | 550              |
| 10-30 cm                                                            | 324.8         | 6.94      | 330              |
| <b>WW 4.2 (Middle)</b>                                              |               |           |                  |
| 0-2cm                                                               | 249.2         | 6.65      | 318              |
| 2-10 cm                                                             | 268.9         | 6.49      | 908              |
| 10-30 cm                                                            | 227.5         | 6.56      | 510              |
| <b>WW 4.3 (Outflow)</b>                                             |               |           |                  |
| 0-2cm                                                               | 331.6         | 6.81      | 595              |
| 2-10 cm                                                             | 363.6         | 6.3       | 786              |
| 10-30 cm                                                            | 384.8         | 6.31      | 590              |
| <b>WW 6.1 (Inflow)</b>                                              |               |           |                  |
| 0-2cm                                                               | 373.9         | 6.32      | 714              |
| 2-10 cm                                                             | 380           | 6.55      | 565              |
| 10-30 cm                                                            | 383.2         | 6.68      | 643              |
| <b>WW 6.2 (Middle)</b>                                              |               |           |                  |
| 0-2cm                                                               | 381.7         | 6.43      | 775              |

|                                                                            |               |           |                  |
|----------------------------------------------------------------------------|---------------|-----------|------------------|
| <b>Total number of prepared sediment profile samples for Analysis = 45</b> |               |           |                  |
| <b>Sediments profile</b>                                                   | <b>Eh(Mv)</b> | <b>pH</b> | <b>EC(μs/cm)</b> |
| <b>(Paddock#) &amp; WW(1=Inflow, 2=Mid&amp; 3= outflow)</b>                |               |           |                  |
| <b>WW 1.1 (Inflow)</b>                                                     |               |           |                  |
| 2-10 cm                                                                    | 375.7         | 6.32      | 648              |
| 10-30 cm                                                                   | 375.9         | 6.6       | 516              |
| <b>WW 6.3 (Outflow)</b>                                                    |               |           |                  |
| 0-2cm                                                                      | 273.4         | 6.37      | 787              |
| 2-10 cm                                                                    | 232.6         | 6.13      | 966              |
| 10-30 cm                                                                   | 346.3         | 6.41      | 758              |
| <b>WW 7.1 (Inflow)</b>                                                     |               |           |                  |
| 0-2cm                                                                      | 337.2         | 6.35      | 1071             |
| 2-10 cm                                                                    | 343.1         | 6.27      | 581              |
| 10-30 cm                                                                   | 333.5         | 6.33      | 576              |
| <b>WW 7.2 (Middle)</b>                                                     |               |           |                  |
| 0-2cm                                                                      | 362.3         | 6.27      | 767              |
| 2-10 cm                                                                    | 365.9         | 6.4       | 745              |
| 10-30 cm                                                                   | 379           | 6.32      | 808              |
| <b>WW 7.3 (Outflow)</b>                                                    |               |           |                  |
| 0-2cm                                                                      | 352.6         | 6.08      | 725              |
| 2-10 cm                                                                    | 383.5         | 5.73      | 597              |
| 10-30 cm                                                                   | 398.8         | 6.72      | 545              |

## Appendix E descriptive statistics for test strip data and YSI data

### E1: pH and pH Fix Descriptive Statistics

| YSI (pH)                     | Paddocks (N=3) |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |
|------------------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
|                              | ww1            | ww2 | ww3 | ww4 | ww5 | ww6 | ww7 | ww8 | ww9 | ww10 | ww11 | ww12 | ww13 | ww14 | ww15 | ww16 |
| Mean                         | 6.9            | 7.4 | 7.1 | 7.1 | 6.9 | 6.5 | 6.7 | 6.9 | 6.8 | 6.3  | 6.3  | 6.6  | 6.3  | 5.9  | 5.8  | 6    |
| Median                       | 6.8            | 7.6 | 7.1 | 7.2 | 6.9 | 6.3 | 6.7 | 6.9 | 6.8 | 6.1  | 6.3  | 6.6  | 6.4  | 5.9  | 5.8  | 6    |
| SD                           | 0.2            | 0.3 | 0.1 | 0.2 | 0.1 | 0.3 | 0   | 0   | 0   | 0.3  | 0.3  | 0.1  | 0.3  | 0    | 0.2  | 0.2  |
| MIN                          | 6.8            | 7   | 7   | 6.9 | 6.8 | 6.3 | 6.7 | 6.9 | 6.7 | 6.1  | 6.1  | 6.5  | 6    | 5.9  | 5.7  | 5.8  |
| MAX                          | 7.2            | 7.7 | 7.1 | 7.2 | 6.9 | 6.8 | 6.7 | 6.9 | 6.8 | 6.6  | 6.7  | 6.6  | 6.6  | 5.9  | 6    | 6.2  |
| Test strips (pH-Fix (0-14 PT | Paddock (N=3)  |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |
|                              | ww1            | ww2 | ww3 | ww4 | ww5 | ww6 | ww7 | ww8 | 9   | ww10 | ww11 | ww12 | ww13 | ww14 | ww15 | ww16 |
| Mean                         | 7              | 7   | 7   | 7   | 6.7 | 7   | 7   | 6.3 | 7   | 6.7  | 5.7  | 7    | 7.3  | 7    | 7    | 6.7  |
| Median                       | 7              | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7    | 6    | 7    | 7    | 7    | 7    | 8    |
| SD                           | 0              | 0   | 0   | 0   | 0.6 | 0   | 0   | 1.2 | 0   | 0.6  | 1.5  | 0    | 0.6  | 0    | 0    | 2.3  |
| MIN                          | 7              | 7   | 7   | 7   | 6   | 7   | 7   | 5   | 7   | 6    | 4    | 7    | 7    | 7    | 7    | 4    |
| MAX                          | 7              | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7    | 7    | 7    | 8    | 7    | 7    | 8    |

## E2: Stream water Electrical Conductivity (EC) and Redox Potential (Eh) Descriptive Statistics

| YSI - EC (μS/cm) | Paddocks (N=3) |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|------------------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                  | ww1            | ww2    | ww3    | ww4    | ww5    | ww6    | ww7    | ww8    | ww9    | ww10   | ww11   | ww12   | ww13   | ww14   | ww15   | ww16   |
| Mean             | 4553.3         | 5793.3 | 4130.0 | 4883.3 | 4673.3 | 520.0  | 5430.0 | 5373.3 | 5546.7 | 4763.3 | 4383.3 | 4383.3 | 4383.3 | 4236.7 | 4216.7 | 4383.3 |
| Median           | 4580.0         | 5600.0 | 4860.0 | 4930.0 | 4710.0 | 5190.0 | 5420.0 | 5830.0 | 5550.0 | 4710.0 | 4440.0 | 4440.0 | 4440.0 | 3940.0 | 4210.0 | 4450.0 |
| Mini             | 4250.0         | 4570.0 | 2650.0 | 4610.0 | 4500.0 | 5050.0 | 5230.0 | 4320.0 | 5280.0 | 4600.0 | 4140.0 | 4140.0 | 4140.0 | 3880.0 | 3930.0 | 4210.0 |
| Maxi             | 4830.0         | 7210.0 | 4880.0 | 5110.0 | 4810.0 | 5720.0 | 5640.0 | 5970.0 | 5810.0 | 4980.0 | 4570.0 | 4570.0 | 4570.0 | 4890.0 | 4510.0 | 4490.0 |
| YSI - Redox (Eh) | Paddocks (N=3) |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                  | ww1            | ww2    | ww3    | ww4    | ww5    | ww6    | ww7    | ww8    | ww9    | ww10   | ww11   | ww12   | ww13   | ww14   | ww15   | ww16   |
| Mean             | 109.7          | 151.7  | 146.7  | 123.0  | 125.6  | 93.7   | 93.0   | 105.5  | 76.8   | 97.9   | 98.4   | 139.3  | 158.2  | 75.2   | 61.6   | 75.1   |
| Median           | 100.4          | 148.9  | 145.3  | 125.5  | 125.0  | 84.9   | 84.6   | 101.1  | 78.9   | 94.5   | 98.2   | 138.2  | 151.9  | 63.8   | 54.9   | 75.5   |
| SD               | 30.0           | 16.2   | 20.9   | 5.9    | 1.2    | 28.2   | 14.8   | 19.2   | 4.1    | 11.4   | 13.3   | 9.0    | 33.4   | 22.7   | 12.0   | 19.4   |
| MIN              | 85.5           | 137.1  | 126.6  | 116.2  | 124.8  | 70.9   | 84.2   | 88.9   | 72.1   | 88.6   | 85.2   | 130.9  | 128.3  | 60.5   | 54.4   | 55.5   |
| MAX              | 143.3          | 169.1  | 168.3  | 127.2  | 127.0  | 125.3  | 110.1  | 126.5  | 79.4   | 110.7  | 111.8  | 148.8  | 194.3  | 101.3  | 75.5   | 94.3   |

### E3: Stream water Dissolved Oxygen (DO) Descriptive Statistics

| DO (mg/l) | Paddocks (N=3) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|           | ww1            | ww2  | ww3  | ww4  | ww5  | ww6  | ww7  | ww8  | ww9  | ww10 | ww11 | ww12 | ww13 | ww14 | ww15 | ww16 |
| Mean      | 6.60           | 5.90 | 4.60 | 4.70 | 4.50 | 4.90 | 4.50 | 6.70 | 6.10 | 7.10 | 6.00 | 6.90 | 4.40 | 4.90 | 4.20 | 4.40 |
| Median    | 6.20           | 5.20 | 4.90 | 4.90 | 5.00 | 5.30 | 3.90 | 6.60 | 6.20 | 6.90 | 5.90 | 7.10 | 4.40 | 4.40 | 4.20 | 4.50 |
| SD        | 0.80           | 1.30 | 0.50 | 0.40 | 1.00 | 0.70 | 1.00 | 0.30 | 0.10 | 0.60 | 1.00 | 0.70 | 0.20 | 1.30 | 0.30 | 0.20 |
| MIN       | 6.20           | 5.20 | 3.90 | 4.30 | 3.40 | 4.10 | 3.90 | 6.40 | 6.00 | 6.60 | 5.10 | 6.10 | 4.10 | 4.00 | 3.90 | 4.20 |
| MAX       | 7.50           | 7.40 | 4.90 | 5.10 | 5.20 | 5.40 | 5.70 | 7.00 | 6.20 | 7.80 | 7.00 | 7.30 | 4.60 | 6.40 | 4.50 | 4.50 |

**E4 : Stream water Test strips Nitrate (NO<sub>3</sub><sup>-</sup>) mg/l and Nitrate (NO<sub>2</sub><sup>-</sup>) Descriptive Statistics**

| <b>Nitrate (mg/l)</b>      | <b>Paddocks (N=3)</b> |            |            |            |            |            |            |            |            |             |             |             |             |             |             |             |
|----------------------------|-----------------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                            | <b>ww1</b>            | <b>ww2</b> | <b>ww3</b> | <b>ww4</b> | <b>ww5</b> | <b>ww6</b> | <b>ww7</b> | <b>ww8</b> | <b>ww9</b> | <b>ww10</b> | <b>ww11</b> | <b>ww12</b> | <b>ww13</b> | <b>ww14</b> | <b>ww15</b> | <b>ww16</b> |
| Mean                       | 0                     | 6.7        | 0          | 0          | 0          | 0          | 15         | 10         | 6.7        | 10          | 15          | 6.7         | 15          | 25          | 25          | 10          |
| Median                     | 0                     | 10         | 0          | 0          | 0          | 0          | 10         | 10         | 10         | 10          | 10          | 10          | 10          | 25          | 25          | 10          |
| SD                         | 0                     | 5.8        | 0          | 0          | 0          | 0          | 8.7        | 0          | 5.8        | 0           | 8.7         | 5.8         | 8.7         | 0           | 0           | 0           |
| MIN                        | 0                     | 0          | 0          | 0          | 0          | 0          | 10         | 10         | 0          | 10          | 10          | 0           | 10          | 25          | 25          | 10          |
| MAX                        | 0                     | 10         | 0          | 0          | 0          | 0          | 25         | 10         | 10         | 10          | 25          | 10          | 25          | 25          | 25          | 10          |
| <b>Nitrite 1-80 (mg/l)</b> | <b>Paddocks (N=3)</b> |            |            |            |            |            |            |            |            |             |             |             |             |             |             |             |
| Mean                       | 0                     | 0          | 0          | 0          | 0          | 0          | 1.7        | 0          | 0          | 0           | 2           | 0           | 0           | 1           | 0           | 1           |
| Median                     | 0                     | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 1           | 0           | 0           | 1           | 0           | 1           |
| SD                         | 0                     | 0          | 0          | 0          | 0          | 0          | 2.9        | 0          | 0          | 0           | 2.6         | 0           | 0           | 0           | 0           | 0           |
| MIN                        | 0                     | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0           | 0           | 0           | 1           | 0           | 1           |
| MAX                        | 0                     | 0          | 0          | 0          | 0          | 0          | 5          | 0          | 0          | 0           | 5           | 0           | 0           | 1           | 0           | 1           |

**E5: Stream water Test strips Sulphate (SO<sub>4</sub><sup>2-</sup>) and Sulfite (SO<sub>3</sub><sup>2-</sup>) Descriptive Statistics**

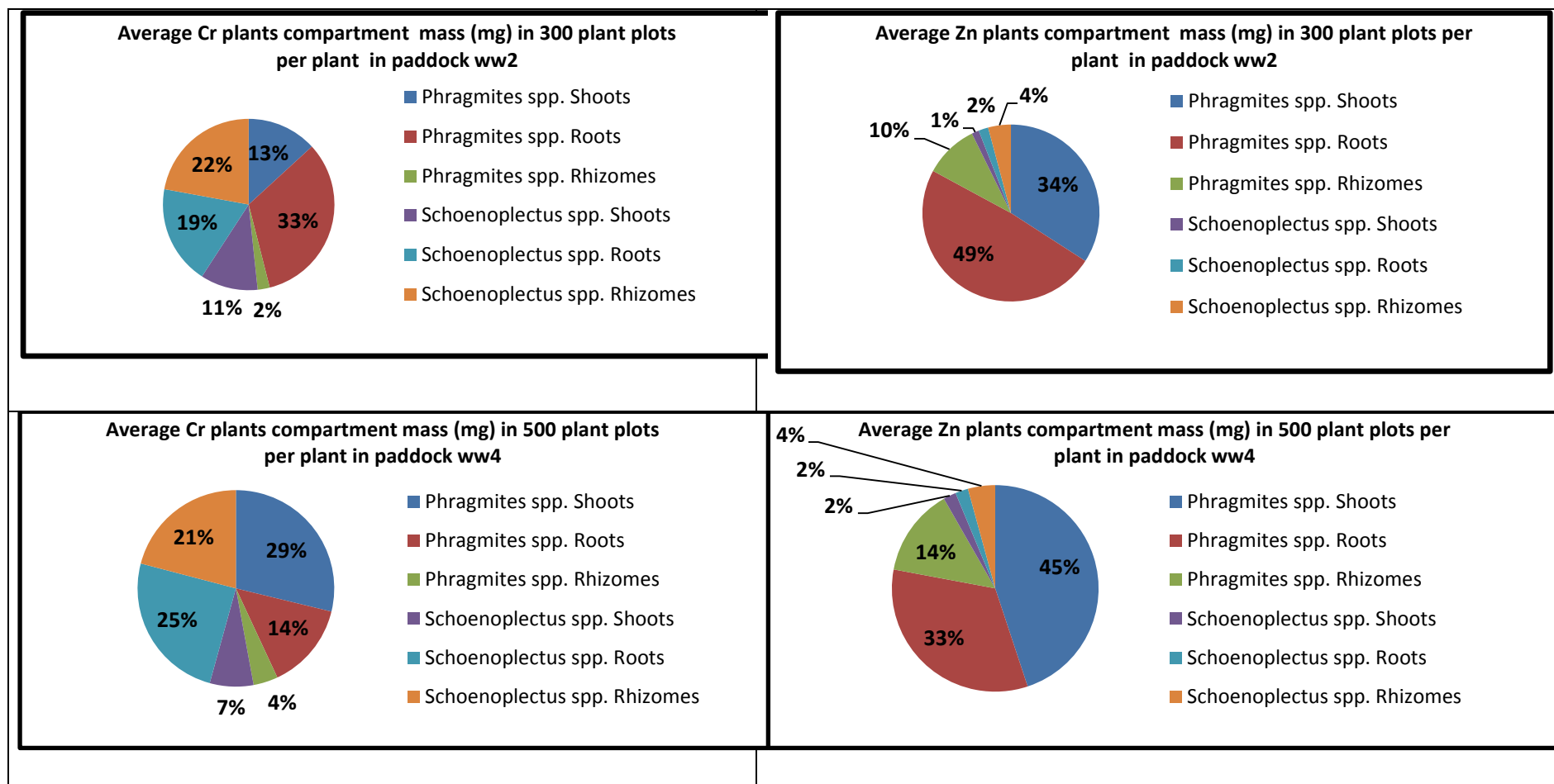
| <b>Sulphate 200-1600 (mg/l)</b> | <b>Paddocks (N=3)</b> |            |            |            |            |            |            |            |            |             |             |             |             |             |             |             |
|---------------------------------|-----------------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                 | <b>ww1</b>            | <b>ww2</b> | <b>ww3</b> | <b>ww4</b> | <b>ww5</b> | <b>ww6</b> | <b>ww7</b> | <b>ww8</b> | <b>ww9</b> | <b>ww10</b> | <b>ww11</b> | <b>ww12</b> | <b>ww13</b> | <b>ww14</b> | <b>ww15</b> | <b>ww16</b> |
| Mean                            | 1600                  | 1600       | 1600       | 1600       | 1600       | 1600       | 1600       | 1200       | 1600       | 1200        | 1333        | 1200        | 1200        | 1600        | 1066        | 1333        |
| Median                          | 1600                  | 1600       | 1600       | 1600       | 1600       | 1600       | 1600       | 1200       | 1600       | 1200        | 1200        | 1200        | 1200        | 1600        | 1200        | 1200        |
| SD                              | 0                     | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 230.9       | 0           | 0           | 0           | 230.9       | 230.9       |
| MIN                             | 1600                  | 1600       | 1600       | 1600       | 1600       | 1600       | 1600       | 1200       | 1600       | 1200        | 1200        | 1200        | 1200        | 1600        | 800         | 1200        |
| MAX                             | 1600                  | 1600       | 1600       | 1600       | 1600       | 1600       | 1600       | 1200       | 1600       | 1200        | 1600        | 1200        | 1200        | 1600        | 1200        | 1600        |
| <b>Sulfite 10-100 (mg/l)</b>    | <b>Paddocks (N=3)</b> |            |            |            |            |            |            |            |            |             |             |             |             |             |             |             |
|                                 | <b>ww1</b>            | <b>ww2</b> | <b>ww3</b> | <b>ww4</b> | <b>ww5</b> | <b>ww6</b> | <b>ww7</b> | <b>ww8</b> | <b>ww9</b> | <b>ww10</b> | <b>ww11</b> | <b>ww12</b> | <b>ww13</b> | <b>ww14</b> | <b>ww15</b> | <b>16</b>   |
| Mean                            | 0                     | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0           | 0           | 0           | 8.3         | 0           | 0           |

E6: Stream water Hardness Descriptive Statistics

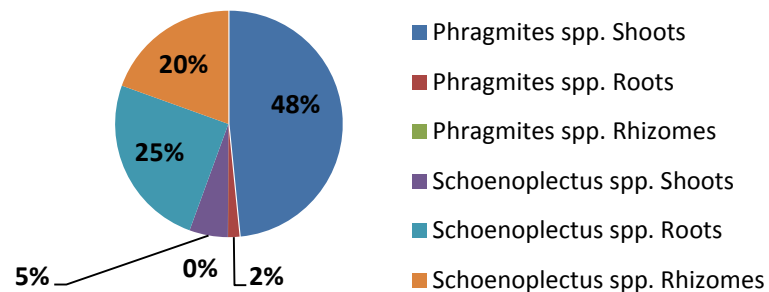
| H2O Hardness (0- 25°d) | Paddocks (N=3) |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |
|------------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
|                        | ww1            | ww2 | ww3 | ww4 | ww5 | ww6 | ww7 | ww8 | ww9 | ww10 | ww11 | ww12 | ww13 | ww14 | ww15 | ww16 |
| Mean                   | 25             | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25   | 25   | 25   | 25   | 25   | 25   | 25   |
| Median                 | 25             | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25   | 25   | 25   | 25   | 25   | 25   | 25   |
| SD                     | 0              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| MIN                    | 25             | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25   | 25   | 25   | 25   | 25   | 25   | 25   |
| MAX                    | 25             | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25  | 25   | 25   | 25   | 25   | 25   | 25   | 25   |

**Appendix F: Other elemental average mass (%) in plants compartment within paddocks as per number of plant plots in *P. australis* (N=3) and *S. corymbosus* (N=3).**

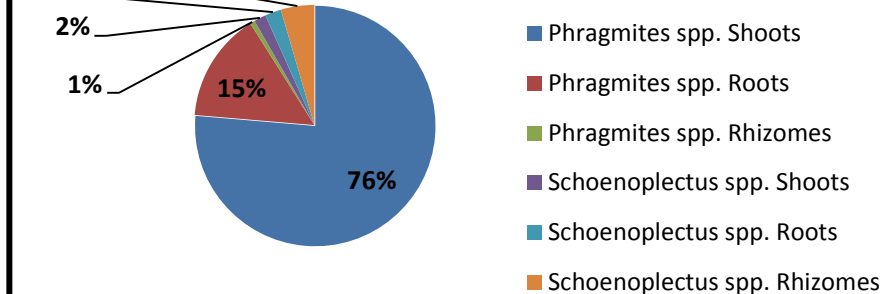
nd: *P. australis* and *S. corymbosus* herein is referred to as *Phragmites spp* and *Schoenoplectus spp* respectively



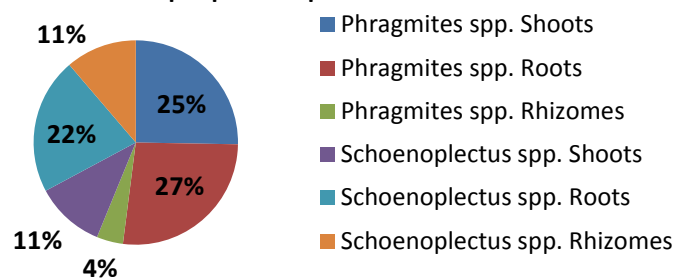
**Average Cr plants compartment mass (mg) in 150 plant plots per plant in paddock ww6**



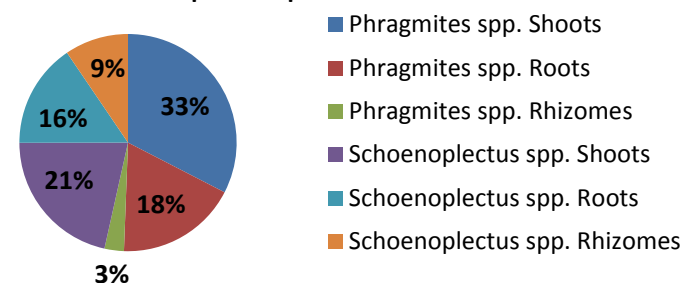
**Average Zn plants compartment mass (mg) in 150 plant plots per plant in paddock ww6**



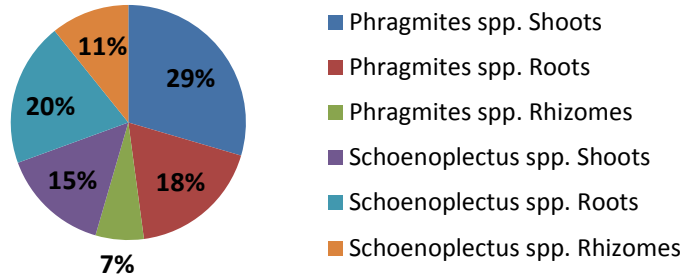
**Average U plants compartment mass (mg) in 300 plant plots per plant in paddock ww2**



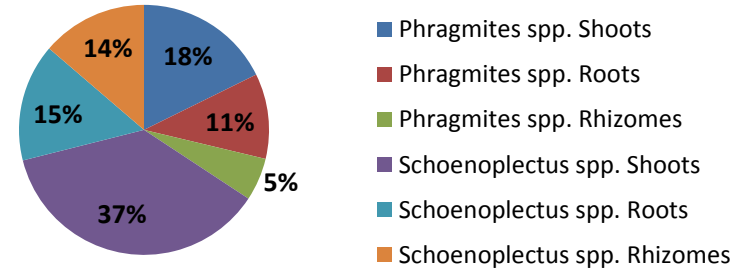
**Average S plants compartment mass (mg) in 300 plant plots per plant in paddock ww2**



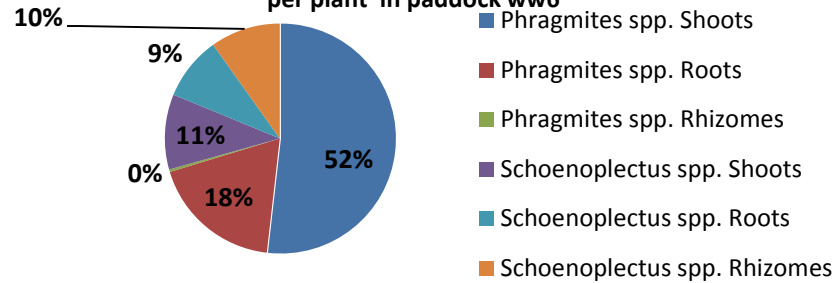
**Average U plants compartment mass (mg) in 500 plant plots per plant in paddock ww4**



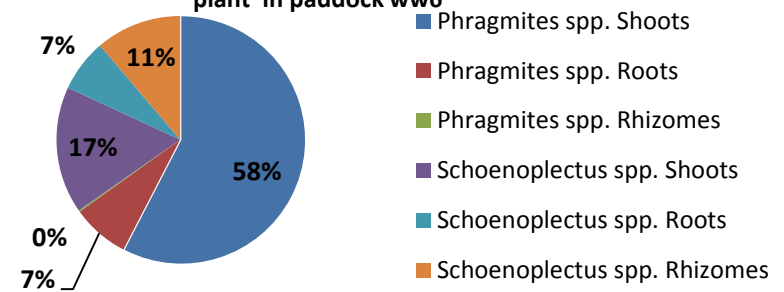
**Average S plants compartment mass (mg) in 500 plant plots per plant in paddock ww4**



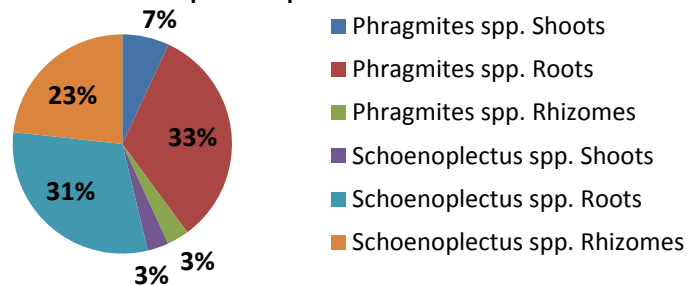
**Average U plants compartment mass (mg) in 150 plant plots per plant in paddock ww6**



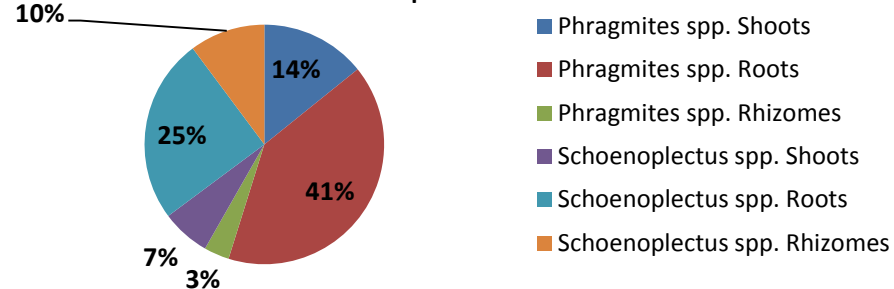
**Average S plants compartment mass (mg) in 150 plant plots per plant in paddock ww6**



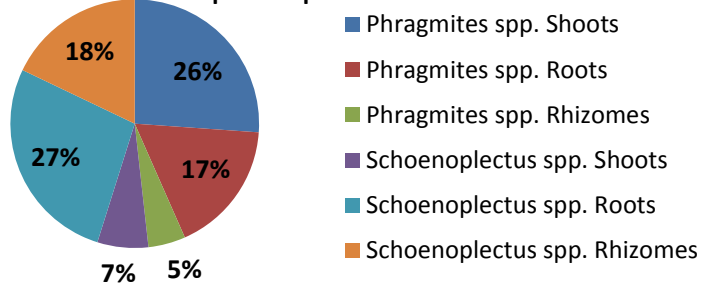
**Average Fe plants compartment mass (mg) in 300 plant plots per plant in paddock ww2**



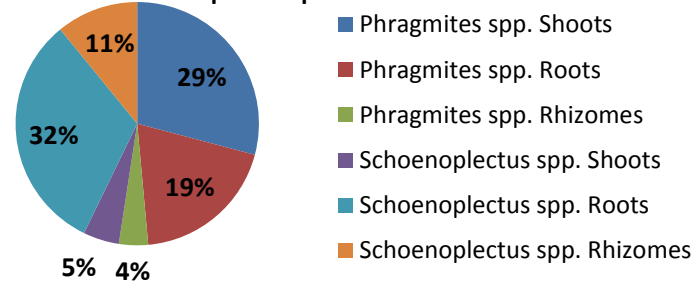
**Average Cu plants compartment mass (mg) in 300 plant plots per plant in paddock ww2**



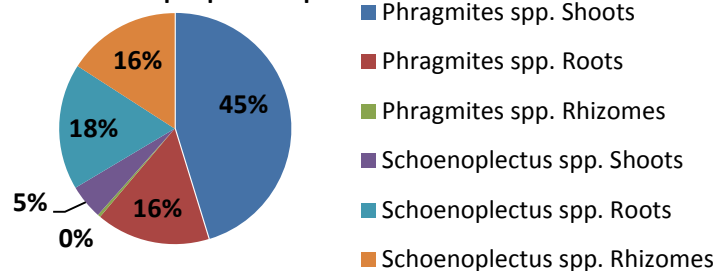
**Average Fe plants compartment mass (mg) in 500 plant plots per plant in paddock ww4**



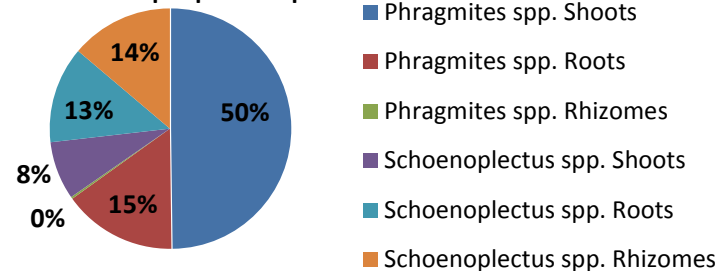
**Average Cu plants compartment mass (mg) in 500 plant plots per plant in paddock ww4**



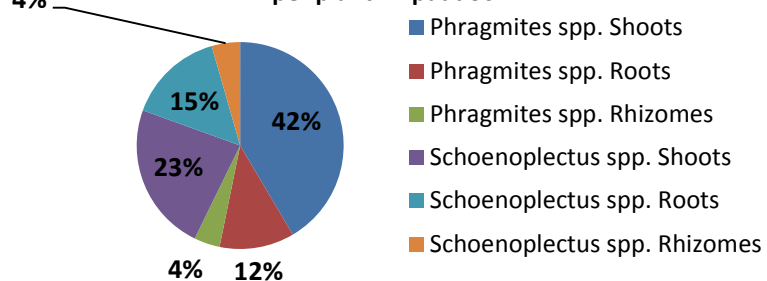
**Average Fe plants compartment mass (mg) in 150 plant plots per plant in paddock ww6**



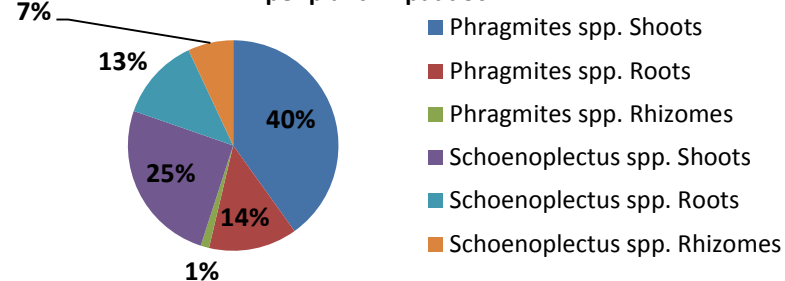
**Average Cu plants compartment mass (mg) in 150 plant plots per plant in paddock ww6**



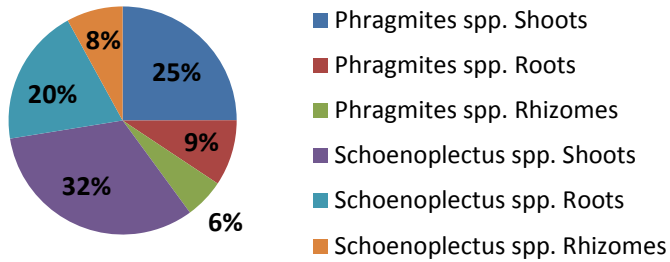
**Average Cl plants compartment mass (mg) in 300 plant plots per plant in paddock ww2**



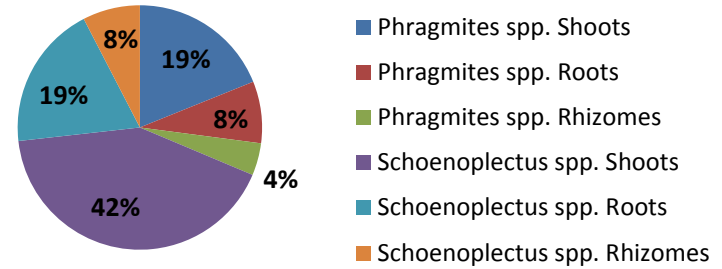
**Average Ca plants compartment mass (mg) in 300 plant plots per plant in paddock ww2**



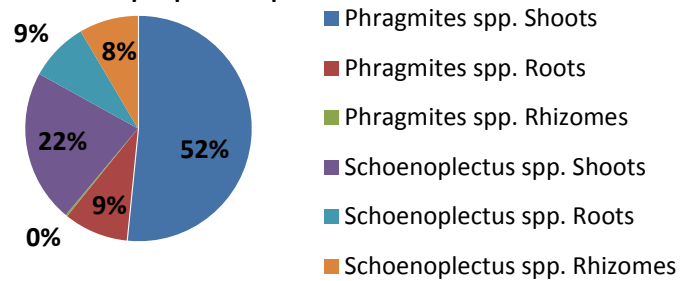
**Average Cl plants compartment mass (mg) in 500 plant plots per plant in paddock ww4**



**Average Ca plants compartment mass (mg) in 500 plant plots per plant in paddock ww4**



**Average Cl plants compartment mass (mg) in 150 plant plots per plant in paddock ww6**



**Average Ca plants compartment mass (mg) in 150 plant plots per plant in paddock ww6**

